



Thursday, March 24 - 8:00 A.M.
George Watts Hill Alumni Center

OPEN SESSION

1. Convene Meeting
2. Roll Call
3. Consent Agenda
 - a. [Approval of January 2016 Minutes \(Regular Meeting\)](#) (Tab 1)
 - b. [Ratification of Mail Ballot dated February 18, 2016](#) (Tab 2)
 - c. [Ratification of Mail Ballot dated February 26, 2016](#) (Tab 3)
4. Chair's Remarks
5. Student Body President's Remarks
6. Chancellor's Remarks
7. [Vocabularies of Vulnerability: human, animal, blackness](#) – Sharon P. Holland, Professor and Associate Chair of American Studies
8. [Making: Science, Entrepreneurship, and the Transformation of the University](#) – Richard Superfine, Taylor-Williams Distinguished Professor of Physics and Astronomy/Applied Physical Sciences
9. [Framing Public Policies](#) – Frank Baumgartner, Richardson J. Richardson Distinguished Professor of Political Science
10. Report of the Commercialization & Economic Development Committee
11. Report of the External Relations Committee
12. Report of the Finance, Infrastructure & Audit Committee
13. Report of the University Affairs Committee

CLOSED SESSION

14. *Report of the External Relations Committee
15. *Report of the University Affairs Committee
16. *Legal Advice

OPEN SESSION

17. Report of the External Relations Committee
18. Report of the University Affairs Committee
19. Adjournment

*Some of the business to be conducted is authorized by the N.C. Open Meetings Law to be conducted in closed session.

**BOARD OF TRUSTEES MEETING
The University of North Carolina at Chapel Hill
January 28, 2016**

The Board of Trustees met in regular session on Thursday, January 28, 2016 at the Rizzo Conference Center, Magnolia Room. Chair Stone convened the meeting at 8:00 a.m.

ROLL CALL

Secretary Duckett called the roll and the following members were present:

Dwight D. Stone, Chair	Julia Sprunt Grumbles
Haywood D. Cochrane, Vice Chair	Kelly Matthews Hopkins
Charles G. Duckett, Secretary	William A. Keyes IV
Jefferson W. Brown	Allie Ray McCullen
W. Lowry Caudill, Past Chair	Houston L. Summers
Donald Williams Curtis	

Trustees Ed McMahan and Hari Nath were not present.

CONSENT AGENDA

Approval of Minutes and Mail Ballots

On motion of Chair Stone and seconded by Trustee Keyes, the minutes of the meeting of November 19, 2015 were approved as distributed; as was the ratification of the following mail ballot dated:

- December 11th - Personnel actions, actions conferring tenure, and compensation actions (ATTACHMENT A)

Chair Stone then entertained a motion to move the mail ballot dated November 20th to the closed session agenda. A motion was made by Vice Chair Cochrane; it was seconded by Trustee Keyes and passed.

CHAIR'S REMARKS

- Chair Stone began his remarks by welcoming everyone to the meeting, and sharing an update on Trustee McMahan, recovering from recent surgery.
- The Chair followed up from last meeting's discussions of Connect NC Bond and announced that more information would be shared at this meeting, including a reminder of the upcoming March 15 election day ballot.
- The Chair asked Secretary Duckett to read a resolution in support of the Connect NC Bond Act of 2015.

**RESOLUTION IN SUPPORT OF THE CONNECT NC BOND ACT OF 2015
JANUARY 28, 2016**

WHEREAS, North Carolina voters will consider a \$2 billion statewide bond that will affect every region of our state; and

WHEREAS, it has been 15 years since voters approved a similar bond; since then, North Carolina has grown by more than 2 million people; and

WHEREAS, the Connect NC Bond invests in public higher education, our parks and natural resources, local government water and sewer infrastructure needs, in public safety and agriculture; and

WHEREAS, nearly \$1.5 billion of bond funds will be dedicated to projects at our state's public universities and community colleges; and

WHEREAS, The University of North Carolina at Chapel Hill and the UNC Health Care Medical Center combined generated \$7.1 billion in added income to North Carolina's economy in fiscal 2013 – an amount representing nearly 100,000 jobs in the state; and

WHEREAS, funding from the Connect NC bond will provide \$68 million to build a new state-of-the-art medical education facility at our School of Medicine, allowing the University to train more doctors; and

WHEREAS, our University will leverage those dollars by aggressively seeking the remaining \$20.6 million in financial support required to make this new building a reality;

WHEREAS, North Carolina faces a physician shortage by 2020, which will keep growing as the population ages and today's practicing physicians retire; and

WHEREAS, Carolina's current medical school building is almost 50 years old and not designed to address 21st Century teaching and research needs; and

WHEREAS, when Berryhill Hall opened, there were 353 medical students; in 2014, we trained approximately 2,400 inter-professional health providers and medical students.

WHEREAS, a new medical education facility will enable us to provide modern, interactive instruction, grow future class sizes, and enhance our statewide presence at our partner campuses in Asheville, Charlotte and Wilmington.

NOW, THEREFORE, BE IT RESOLVED THAT the UNC-Chapel Hill Board of Trustees unanimously endorses the \$2 billion Connect NC Bond, pledges to educate and inform the citizens of North Carolina about the importance of this bond, and encourages all eligible North Carolinians to vote "YES" for the bond in the primary election to be held on Tuesday, March 15, 2016.

Chair Stone called for a motion to adopt the resolution. A motion was made by Vice Chair Cochrane; seconded by Trustee Hopkins and unanimously passed.

The Chair continued with the following:

- Explained how passage of the resolution would help to amplify the hard work already under way by Chancellor Folt, Dean Roper, the UNC School of Medicine, The UNC Health Care System, and the General Alumni Association
- Indicated that recent research enterprise success at Carolina will create a domino effect of smart, strategic investments
- Offered that UNC owes a tremendous debt of gratitude to the state's citizens who voted for the 2000 bond referendum.
- Shared recent milestones for Carolina research:
 - For the second straight year, UNC Chapel Hill ranks among the top 10 U.S. universities for research dollar volume
 - UNC Chapel Hill is now 6th in federally sponsored research
 - Total research activity rose to \$989 million – 8th nationally
- The Chair shared how UNC Chapel Hill's research activity translates into \$2.6 billion in

economic impact across the state

- Chair Stone thanked Chancellor Folt and her leadership team for all their hard work
- The Chair also thanked Vice Provost Steve Farmer and Associate Provost Shirley Ort for their work leading undergraduate admissions and scholarships and student aid
- Chair Stone then thanked the members of the Ethics and Integrity and Policy and Procedures Working Groups for their work over the last year. These two groups were appointed by Chancellor Folt and they will be presenting at our March 2016 meeting.
- In closing, Chair Stone reiterated his previous comments about the priority this board places on working productively with the Board of Governors, General Administration, and President-elect Spellings.

[A copy of these remarks is located in the Office of the Assistant Secretary and at bot.unc.edu.]

STUDENT BODY PRESIDENT'S REMARKS

- Student Body President Houston Summers began his remarks by thanking each of the trustees for their ongoing work
- Trustee Summers stated that the work of people in this room will help contribute to the inclusiveness of all
- Trustee Summers remarked that he and his team will continue to forge ahead on all issues experienced by our students including mental health, race and place, educational delivery, and gender. Also, that they were dedicated to sharing the voices of all students.
- He and his team are dedicated to sharing voices of all students
- Trustee Summers shared information on recent events including:
 - Faith Fest
 - Earth Day
 - Involvement with committees on race and inclusion
 - Events planned with the NC Children's Hospital
 - Habitat for Humanity
 - Faculty/Staff events
 - Speaker Ban series
 - And voter registration campaigns

[A copy of these remarks is located in the Office of the Assistant Secretary and at bot.unc.edu.]

CHANCELLOR'S REMARKS

- Chancellor Folt began her remarks by sharing stories of her recent development trip to Asia
- The Chancellor then shared some information regarding recent scholarships received by UNC students:
 - Larry Han and Max Seunik were named among the first cohort of Schwarzman Scholars. They were selected from more than 3,000 applicants. This is an elite China-based scholarship modeled after the Rhodes Scholarship
 - James Williams, a 4th year student double majoring in economics and Asian students with a Chinese concentration and a minor in mathematical decision sciences received the prestigious Marshall scholarship. He is Carolina's first Marshall Scholar and will study at a United Kingdom institution in any field of study.
 - Blake Hauser, a 4th year student double majoring in environmental health sciences and biology, as well as a minor in chemistry, was named a Churchill Scholar. He is Carolina's 16th. This is a research-focused award that provides funding for American students for a year or master's study in science,

mathematics, and engineering at Churchill College, based at the University of Cambridge in England.

- Chancellor Folt welcomed Kevin Guskiewicz, Dean of the College of Arts and Sciences. Dean Guskiewicz assumed the position on January 1, 2016.
- Chancellor Folt created two working groups in May 2015: The Ethics and Integrity Working Group and The Policy and Procedures Working Group.
 - The two groups had different charges, but had a joint recommendation to create a Chief Ethics and Integrity Officer.
 - This position will serve as the University's lead for developing and strengthening a culture of ethical behavior & integrity & providing a robust structure for policy management and practices that support ethical behavior.
 - It will also ensure the University is intentional about continuing a culture of integrity & that decision-making supports & facilitates effective policy implementation.
 - Chancellor Folt named Todd Nicolet, who chaired the Policy and Procedures Working Group, as Interim Chief Ethics and Integrity Officer effective February 8, 2016. Dr. Nicolet was also recently named the Associate Dean for Administration at the Gillings School of Global Public Health, having previously served as Associate Dean for Operations in the School of Government.
- Chancellor Folt explained her environmental and energy policy goals named the “three zeros”: zero net water usage; zero waste to landfills; and net zero greenhouse gas emissions.
- The Chancellor shared some recent rankings:
 - For the 15th time, Kiplinger's named UNC-CH the best value in American public higher education
 - The Kenan-Flagler Business School's MBA@UNC program was named #3 in its second ranking of online MBA programs
 - Carolina was also named among the top 25 study abroad programs for all U.S. higher education institutions
- Chancellor Folt continued and shared updates from Undergraduate Admissions:
 - Total number of applications received currently stands at 35,748 – 11th consecutive record & an increase of 12% over last year.
 - Applications from North Carolinians are up 10%, the first strong year-over-year increase among residents in several years.
 - UNC Chapel Hill received 3,778 applications from global students – an increase of 19% – with 2,337 from China (up 32%) and 343 from India (up 22%).
 - The University received 5,765 applications from first-generation-college students, an increase of 15%.
 - Using internal reporting guidelines for race and ethnicity, Carolina has seen increases among Hispanic or Latino students (up 20%), American Indian students (up 16%), Asian or Asian American students (up 15%), and black or African-American students (up 13%).
 - Expecting to release decisions to roughly 20,000 early-action applicants this week.
- The Chancellor reiterated her commitment to crucial conversations on race, inclusion, and diversity launched last semester
- Shared information on recent events attended to promote the Connect NC Bond including a trip to Asheville to meet with the *Asheville Citizen-Times* Editorial Board. She was joined by the Chancellor at Western Carolina University, the Provost from UNC Asheville, and President and CEO of MAHEC.
- Chancellor Folt ended her remarks by introducing the presenters.

[A copy of these remarks is located in the Office of the Assistant Secretary and at bot.unc.edu.]

THE TRIUMPH OF CHRISTIANITY: HOW THE EARLY CHRISTIANS OVERWHELMED PAGAN ROME

Chancellor Carol Folt introduced Dr. Bart Ehrman, the James A. Gray Distinguished Professor of Religious Studies. Dr. Ehrman began his presentation by giving some history on the Department of Religious Studies. UNC-CH is one of the oldest departments in the country, and ranks in the top 3 in undergraduate programs and is tied for 1st in graduate studies with Duke University and Yale University. Dr. Ehrman then shared some of his research interests as well as information on his current research examining how Christianity became one of the world's greatest religions. Following his presentation, Dr. Ehrman entertained questions from the Board. This presentation can be found on bot.unc.edu and on file in the Office of the Assistant Secretary.

BUILDING THE PATH TO A HEALTHIER FUTURE: THE NEW UNC MEDICAL EDUCATION BUILDING

Chancellor Folt then introduced Dr. Julie Byerley, Vice Dean for Education and Chief Education Officer at the UNC School of Medicine (SOM); Dr. Bruce Cairns, Director of the NC Jaycee Burn Center and Associate Professor of Surgery & Microbiology and Immunology; and Ashley Cairns, a first-year medical student. Dr. Byerley began the presentation by explaining the current curriculum structure and principles of the SOM. The SOM has three regional campuses in Charlotte, Asheville and Wilmington in addition to teaching sites at UNC Health Care. They also utilize clinic settings in Raleigh, Greensboro and other parts of the state. These sites allow for a larger class size and a more personalized clinical education.

Dr. Cairns and Ms. Cairns then explained to the board their experiences with medical education. When Berryhill Hall was built in the 1960s, it addressed the needs of the 1970s. This included less hands on training and larger, auditorium style lectures. Now, students spend less time in the classroom, and more time in simulation labs and small groups.

Following their presentation, the group entertained questions from the Board. This presentation can be found on bot.unc.edu and on file in the Office of the Assistant Secretary.

REPORT FROM THE COMMERCIALIZATION & ECONOMIC DEVELOPMENT COMMITTEE
Trustee Caudill presented a review of the Commercialization and Economic Development Committee meeting. There were no action items for this committee in open session. Trustee Caudill then shared the items presented for information:

- A presentation on grants and awards given by Andy Kant, Asst. Director for Carolina KickStart; Randy Myer, Professor of the Practice, KFBS; and Ted Zoller, T.W. Lewis Clinical Associate Professor of Strategy and Entrepreneurship & Director of the Center for Entrepreneurial Studies
- A presentation on small business innovation research and small business technology transfer programs given by Tim Martin, Assistant Director for Carolina KickStart
- A presentation on the Carolina Research Venture Fund given by former trustee and chair, Sallie Shuping-Russell
- A student presentation on TEDxUNC 2016: "Bodies: Being Human" given by seniors Teerth Brahmhatt, Ashita Gona and Olivia Nicolaus.

A full review of the committee meeting may be found in the committee minutes in the Office of the Assistant Secretary.

REPORT OF THE EXTERNAL RELATIONS COMMITTEE

Trustee Hopkins presented a review of the External Relations Committee meeting. There were no action items for this committee in open session. Trustee Hopkins then shared the items presented for information:

- Presentation from the General Alumni Association and GAA Tar Heel Network by President Doug Dibbert, and Chair Tom Lambeth
- Bond Campaign Update from Jennifer Willis, Assistant Dean for Development, UNC School of Government and Interim Director of Public Affairs
- Communications Update given by Joel Curran, Vice Chancellor for Communications and Public Affairs
- Development report given by David Routh, Vice Chancellor for University Development (ATTACHMENT B)

A full review of the committee meeting may be found in the committee minutes in the Office of the Assistant Secretary.

REPORT OF THE FINANCE & INFRASTRUCTURE COMMITTEE

Vice Chair Cochrane presented the report from the Finance and Infrastructure Committee. The following items were presented to the committee for action:

- **Revision to the Finance and Infrastructure Committee Charter**
Phyllis Petree, Director of Internal Audit, brought forth revisions to the committee's charter. Based on *UNC General Administration Best Financial Practices* guidelines, the title of the Trustee committee responsible for audit matters must include "audit" in the title. These revisions also incorporate statutory changes regarding selection of an external auditor and other "best practices" recommendations from the UNC System Office. Audit and financial reporting related duties of the committee were revised as well.

A motion was made from committee to approve the revised committee charter; it was seconded by Trustee Curtis and passed unanimously.

(ATTACHMENT C)

- **Designer Selections**

- **Beard Hall Second Floor Renovation:**

This project will renovate approximately 13,400 square feet of the existing space on the 2nd floor of Beard Hall into a new classrooms and clinical simulation teaching spaces for the Eshelman School of Pharmacy. The project will also address accessibility deficiencies with the elevator and the restrooms and replace failing building HVAC system located in the attic. The project budget is \$9,713,728 and will be funded by University funds.

The project was advertised on November 12, 2015. Sixteen (16) proposals were received. Five (5) firms were interviewed on January 5, 2016. Members of the Board of Trustees did not participate in the interviews. The committee recommended the selection of the three firms in the following priority order:

1. Perkins Eastman Charlotte, NC
2. BBH Raleigh, NC
3. BHDP Raleigh, NC

The firms were selected for their past performance on similar projects, strength of their consultant team and experience with campus projects.

(ATTACHMENT D)

- Kenan Laboratories Fire Sprinkler

This project will address the fire safety needs for this ten story, 140,410 square feet building in order to meet the current NFPA fire protection requirements. The project will provide for the installation of a new wet pipe fire sprinkler system for the floors 3-9 and the basement. The fire sprinkler systems for the ground, first and second floors were installed under a previous project. The project budget is \$2,460,000 and will be funded by the 2014 Repairs and Renovation funds.

The project was advertised on November 20, 2015. Nine (9) letters of interest were received. Three (3) firms were interviewed on January 13, 2016. Members of the Board of Trustees did not participate in the interviews. The committee recommended the selection of the three firms in the following priority order:

1. McKim & Creed Raleigh, NC
2. RDK Engineers Durham, NC
3. Engineered Designs Cary, NC

The firms were selected for their past performance on similar projects, strength of their consultant team and experience with campus projects.

(ATTACHMENT E)

- MBRL/Glaxo Building Energy Conservation Measure

This project will implement airflow ventilation reduction at the MBRL portion (approximately 13,500 gross square feet) of the building using the existing constant-volume controlled terminals with reheat coils and the exhaust terminals. The existing constant volume ventilation system will be converted to a variable volume air supply distribution system based upon the minimum air ventilation and space cooling requirements. The Project budget is \$580,000 and will be funded by University funds.

This project was advertised on November 13, 2015. Eight (8) proposals were received.

Three (3) firms were interviewed on January 6, 2016. Members of the Board of Trustees did not participate in the interviews. The committee recommended the selection of the three firms in the following priority order:

1. Stanford White Raleigh, NC
2. McKim & Creed Raleigh, NC
3. RDK Engineers Durham, NC

The firms were selected for their strength of the project team, specific project approach on recent Energy Conservation Measures projects and previous University and State Construction Office experience.

(ATTACHMENT F)

A motion was made from committee to approve the designer selections, it was seconded by Trustee Grumbles and passed unanimously.

- **Demolition Approval for Odum Village Units**

The demolition of the thirty-six (36) buildings which contain a total of two hundred thirty-six (236) apartments is necessary for future campus development. The apartments will not be allowed as residential units after the fall of 2016 due to the lack of a proper fire protection system. The Power Generation and Chilled Water Plants at Manning Plant and Durham-Orange Light Rail Transit are two projects currently in design that will require development of some of the existing building sites.

The project budget is \$5.1M and will be funded by University funds. Ms. Wu recommended the following.

Demolition of the following thirty-six (36) buildings at Odum Village:

- Units 300 - 306 Mason Farm Road, four (4) buildings
- Units 401 - 407 Mason Farm Road, two (2) buildings
- Units 100 - 109 Bernard Street, four (4) buildings
- Units 200, 202, 204, 206, 208, 210, 212, 214 & 216 Branson Street, three (3) buildings
- Units 217 - 239 Jackson Circle, six (6) buildings
- Units 600 - 630 Hibbard Drive, twelve (12) buildings
- Units 700 - 711 Hibbard Drive, five (5) buildings

A motion was made from committee to approve the demolition of the above listed units; it was seconded by Trustee Grumbles and passed unanimously.

(ATTACHMENT G)

Vice Chair Cochrane briefly reviewed the other items presented to committee for information only:

- Environmental and Energy Policy Update given by Brad Ives, Associate Vice Chancellor for Campus Enterprises
- Internal Audit Report given by Phyllis Petree, Director of Internal Audit (ATTACHMENT H)
- Semi-Annual Leasing Report given by Gordon Merklein, Executive Director of Real Estate Development (ATTACHMENT I)
- Semi-Annual Capital Report given by Anna Wu, Associate Vice Chancellor for Facilities Services (ATTACHMENT J)
- Development Report given by David Routh, Vice Chancellor for University Development (see attachment B in the External Relations report)
- Finance and Administration Update given by Matt Fajack, Vice Chancellor for Finance and Administration

A full review of the committee meeting may be found in the committee minutes in the Office of the Assistant Secretary.

REPORT OF THE UNIVERSITY AFFAIRS COMMITTEE

Secretary Duckett presented the report from the University Affairs Committee. There was one action item for this committee in open session:

- **Approval to Decommission Certain Centers and Institutes**

Executive Vice Chancellor and Provost Jim Dean presented information regarding the decommissioning of three centers in the Gillings School of Global Public Health:

- Nutrition Obesity Research Center
- Occupational Safety and Health Education and Research Center
- UNC Center for Innovative Clinical Trials

These requests were initiated by the dean to address units that were either no longer operational or did not meet the definition of “center” or “institute” as described in UNC General Administration regulations (UNC Policy Manual section 400.5[R]) and UNC-CH policies. These recommendations came from the Centers and Institutes Review Committee and have been approved by the Provost and Chancellor Folt. A motion was made from committee to approve the decommissioning of the three centers and institutes; it was seconded by Vice Chair Cochrane and passed.

(ATTACHMENT K)

Secretary Duckett continued and shared the items presented for information:

- GPSF Update given by Dylan Russell, President
- Faculty Update given by Bruce Cairns, Chair of the Faculty
- Campus Update given by Winston Crisp, Vice Chancellor for Student Affairs
- Update on Student Stores given by Matt Fajack, Vice Chancellor for Finance and Administration
- Presentation on the Online Task Force and Carolina Office of Online Learning given by Carol Tresolini, Vice Provost for Academic Initiatives; Gary Marchionini, Dean of the School of Information and Library Science and Chair of the Online Task Force; and Rob Bruce, Director of the William and Ida Friday Center

A full review of the committee meeting may be found in the committee minutes in the Office of the Assistant Secretary.

MOTION TO CONVENE IN CLOSED SESSION

On motion of Secretary Duckett, and seconded by Trustee Grumbles, the Board voted to convene in closed session pursuant to North Carolina General Statutes Section 143-318.11 (a) (1) (to prevent the disclosure of privileged information under Section 126-22 and the following); and also pursuant to Section 143-318.11 (a) (2), (3), (5), and (6).

RECONVENE MEETING IN OPEN SESSION

Chair Stone made a motion to reconvene the meeting in open session; it was seconded and passed.

OPEN SESSION

REPORT OF THE UNIVERSITY AFFAIRS COMMITTEE

Secretary Duckett referred the members to the personnel matters submitted for review. A motion to approve the actions was made from committee; it was seconded by Vice Chair Cochrane, and passed. Chair Stone stated that the personnel and salary actions voted on in open session had been distributed.

(ATTACHMENT L)

REPORT OF MAIL BALLOT DATED NOVEMBER 20, 2015

Chair Stone indicated that the personnel mail ballot dated November 20, 2015 was approved as amended. A motion was made by Vice Chair Cochrane to approve; it was seconded by Trustee Hopkins and passed.

(ATTACHMENT M)

ADJOURNMENT

There being no further business to come before the Board, Chair Stone called for a motion to adjourn. The motion was made by Trustee Curtis, seconded by Trustee Keyes and passed. Chair Stone adjourned the meeting at 1:30 p.m.

Dwayne Pinkney, Assistant Secretary



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

CAROL L. FOLT
Chancellor

103 SOUTH BUILDING
CAMPUS BOX 9100
CHAPEL HILL, NC 27599

T 919.962.1365
F 919.962.1647
carol.folt@unc.edu

TO: Members of the Board of Trustees

FROM: Carol L. Folt

RE: Personnel Mail Ballot

DATE: February 18, 2016

You have authorized me to poll you by mail ballot concerning personnel matters which require the immediate attention of the Board.

I am seeking approval to appoint Dr. Terry Magnuson as Vice Chancellor for Research. The appointment is effective July 1, 2016. Attached is the formal offer letter and a copy of Dr. Magnuson's CV.

Please complete the attached mail ballot and return to TJ Scott at your earliest convenience.



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

OFFICE OF THE EXECUTIVE
VICE CHANCELLOR AND PROVOST

104 SOUTH BUILDING
CAMPUS BOX 3000
CHAPEL HILL, NC 27599-3000

T 919.962.2198
F 919.962.1593
provost.unc.edu

February 12, 2016

JAMES W. DEAN JR.
Executive Vice Chancellor and Provost
James_Dean@unc.edu

Dr. Terry Magnuson, PhD
SOM Vice Dean for Research
Chair, Department of Genetics
5016 Genetic Medicine Building, CB# 7264
Carolina Campus

Dear Terry:

I am pleased to inform you that, pending the approval of the UNC Board of Trustees and with your concurrence, you will be appointed as the Vice Chancellor for Research effective July 1, 2016. This secondary administrative appointment is "at will" and is subject to continuation or discontinuation at any time at the discretion of the Chancellor or authorized designee. This appointment will be reviewed at least every five years. Your current faculty appointment as Distinguished Professor in the Department of Genetics will remain your primary appointment subject to the University's applicable policies and regulations governing academic tenure.

Your initial annual base salary will be \$293,570. In addition, you will receive an annual administrative supplement as Vice Chancellor for Research of \$169,450 for a total initial salary of \$463,020 per year. You will relinquish your current administrative appointments as UNC School of Medicine Vice Dean for Research and as Chair, Department of Genetics and their corresponding administrative supplements of \$65,551 and \$65,600 respectively effective July 1, 2016. Your salary is based on a full-time work schedule of 1.0 FTE and will be reviewed at least annually. You will retain your eligibility to participate in your current deferred compensation plan and the SOM Compensation Plan incentives according to the provisions of those plans. Your appointing unit is responsible for initiating any changes in your salary, subject to the compensation policies adopted by the UNC Board of Governors or UNC Board of Trustees.

You will continue to earn your current 24 days (192 hours) per year of annual leave and 12 days (96 hours) per year of sick leave for full-time service. Up to 30 days (240 hours) of annual leave may be carried forward from calendar year to year with any excess balance converted to sick leave at year end. Leave is not paid out at appointment end.

At the conclusion of your appointment as Vice Chancellor for Research, the administrative supplement as Vice Chancellor for Research will be discontinued and you shall have the option to continue your employment with the University as a tenured member of the general faculty. The specific terms of any paid research leave following your administrative service as Vice Chancellor for Research will remain subject to the University's policy on Faculty Research & Study Leaves

Dr. Terry Magnuson, PhD
February 12, 2016
Page 2

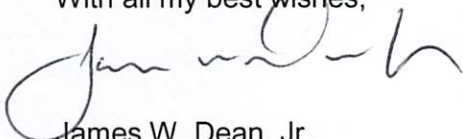
available online at <http://academicpersonnel.unc.edu/faculty-policies-procedures-guidelines/compensation-and-pay/research-study-leaves/> .

During your appointment as Vice Chancellor for Research, you will continue your research program. The Office of the Executive Vice Chancellor and Provost will provide a research fund to your lab of \$250,000 per year during your appointment as Vice Chancellor for Research to support your research endeavors. We will review this commitment at the end of five years.

As we have discussed, this appointment provides you with the opportunity, working with Chancellor Folt and me, to shape the research strategy of the University, and to continue to enhance our research performance and reputation. I am very much looking forward to working with you on this, and to identifying the funding that will make this possible.

Please signify your acceptance of these conditions of appointment by signing and dating this copy and returning it to me as soon as possible.

With all my best wishes,

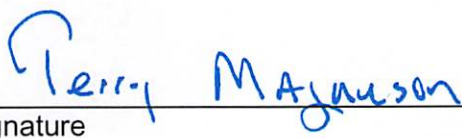


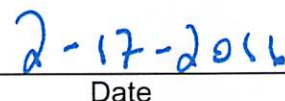
James W. Dean, Jr.
Executive Vice Chancellor and Provost

JWD:mm

cc: Genesis Wallace Gibbs, HR Consultant, Department of Genetics
Mike Mathews, Interim Director, Academic Personnel Office

I agree to the terms and conditions of this appointment.


Signature


Date

Curriculum Vitae

Terry Magnuson

Current Position/Title: Sarah Graham Kenan Professor
Vice Dean for Research, UNC School of Medicine
Chair, Department of Genetics
Director, Cancer Genetics Program, Lineberger
Comprehensive Cancer Center

Institution: The University of North Carolina at Chapel Hill

Department: Genetics

Work Address: Genetic Medicine Building
120 Mason Farm Road
Campus Box 7264
Chapel Hill, NC 27599-7264

Telephone: (919) 843-6475

Fax: (919) 845-2586

Email: trm4@med.unc.edu

Education

1978, Ph.D., Sloan-Kettering Division, Cornell Graduate School of Biomedical Sciences
1972: B.S., University of Redlands

Professional Experience – Employment History:

University of North Carolina at Chapel Hill

2010 – date: Vice Dean for Research, UNC School of Medicine

2001 – date: Founding Director, Cancer Genetics Program, UNC Lineberger Comprehensive Cancer Center.

2000 – date: Sarah Graham Kenan Professor.
Founding Chair, Department of Genetics, UNC School of Medicine, a translational department that includes basic science faculty and a clinical arm responsible for adult medical genetics for UNC Hospitals.

2000 – 2010: Founding Director, Carolina Center for Genome Sciences, a pan-campus UNC Center involving the five Health Affairs Schools (Medicine, Public Health, Pharmacy, Dentistry, Nursing); the College of Arts and Sciences; the School of Information and Library Sciences.

Case Western Reserve University

1998-2000: Director, Center for Developmental Biology.

1996-2000: Professor, Department of Genetics, School of Medicine.

1988-1996: Associate Professor, Department of Genetics (Acting Chairman, 1990-1992).

1984-1988: Assistant Professor, Department of Genetics, School of Medicine.

University of California, San Francisco

1978-1982: Postdoctoral Fellow (Charles J. Epstein Lab)

1982-1984: Assistant Research Geneticist, Department of Pediatrics.

Honors and Awards:

2014: Thomas H. Roderick Lecture, The Jackson Laboratory
 2012: Elected member of the National Academy of Medicine
 2010: Charles J. and Lois B. Epstein Visiting Professorship, UCSF.
 2008: Elected Fellow of the American Association for the Advancement of Science.
 2007: Elected Member of the American Academy of Arts and Sciences.
 2007: Distinguished Alumnus Award, Weill Cornell University Graduate School of Medical Sciences.
 1999: MERIT Award, NIH.
 1999: CWRU School of Medicine Dean's Recognition: Million Dollar Professor.
 1995 & 1999: Outstanding Graduate Student Mentor by vote of Genetics Graduate Students.
 1985-1989: Pew Scholar in the Biomedical Sciences, Pew Memorial Trust.
 1985-1987: Basil O'Connor Award, March of Dimes.
 1982-1985: New Investigator Award, NIH.
 1979-1982: National Research Service Award, NIH.
 1978-1979: Postdoctoral Fellowship, National Science Foundation.
 1972-1978: Predoctoral Fellowship, Memorial Sloan-Kettering Cancer Center.

Publications:

1. Raab, JR., Resnick, S. and **Magnuson, T.** (2016). Genome-wide transcriptional regulation mediated by biochemically distinct forms of SWI/SNF. *PLoS Genetics*, *In Press*.
2. Serber, DW, Runge, JS, Menon, DU, and **Magnuson, T.** (2015). The mouse INO80 chromatin remodeling complex is an essential meiotic factor for spermatogenesis. *Biol. Reprod.* Pil: 115.135533 (Epub ahead of print).
3. Chandler RL, Raab JR, Vernon M, **Magnuson T**, Schisler JC. Global gene expression profiling of a mouse model of ovarian clear cell carcinoma caused by ARID1A and PIK3CA mutations implicates a role for inflammatory cytokine signaling. *Genom Data*. 2015 Jul 14;5:329-32. doi: 10.1016/j.gdata.2015.06.027. eCollection 2015 Sep. PubMed PMID: 26484281; PubMed Central PMCID: PMC4583684.
4. Cook KD, Shpargel KB, Starmer J, Whitfield-Larry F, Conley B, Allard DE, Rager JE, Fry RC, Davenport ML, **Magnuson T**, Whitmire JK, Su MA. T follicular helper cell-dependent clearance of a persistent virus infection requires T cell expression of the histone demethylase UTX. *Immunity*. 2015 Oct 20;43(4):703-14. doi: 10.1016/j.immuni.2015.09.002. Epub 2015 Sep 29. PubMed PMID: 26431949.
5. Rothbart SB, Dickson BM, Raab JR, Grzybowski AT, Krajewski K, Guo AH, Shanle EK, Josefowicz SZ, Fuchs SM, Allis CD, **Magnuson TR**, Ruthenburg AJ, Strahl BD. An interactive database for the assessment of histone antibody specificity. *Mol Cell*. 2015 Aug 6;59(3):502-11. doi: 10.1016/j.molcel.2015.06.022. Epub 2015 Jul 23. PubMed PMID: 26212453; PubMed Central PMCID: PMC4530063.
6. Fedoriw AM, Menon D, Kim Y, Mu W, **Magnuson T.** (2015). Key mediators of somatic ATR signaling localize to unpaired chromosomes in spermatocytes. *Development* 142, 2972-2980. doi: 10.1016/j.molcel.2015.06.022. Epub 2015 Jul 23. PMID: 26212453

7. Jang CW, Shibata Y, Starmer J, Yee D, **Magnuson T.** (2015). Histone H3.3 maintains genome integrity during mammalian development. *Genes Dev.* 29(13):1377-92. doi: 10.1101/gad.264150.115.
8. Lloyd K, Franklin C, Lutz C, **Magnuson T.** (2015). Reproducibility: use mouse biobanks or lose them. *Nature* 522(7555):151-3. doi: 10.1038/522151a.
9. Chu C, Zhang QC, da Rocha ST, Flynn RA, Bharadwaj M, Calabrese JM, **Magnuson T**, Heard E, Chang HY. (2015). Systematic discovery of Xist RNA binding proteins. *Cell* 161(2):404-16. doi: 10.1016/j.cell.2015.03.025.
10. Calabrese JM, Starmer J, Schertzer MD, Yee D, **Magnuson T.** (2015). A survey of imprinted gene expression in mouse trophoblast stem cells. *G3 (Bethesda)* 5(5):751-9. doi: 10.1534/g3.114.016238.
11. Chandler, R.L., Damrauer, J.S., Raab, J.R., Schisler, J.C., Wilkerson, M.D., Didion, J.P., Starmer, J., Serber, D., Yee, D., Xiong J., Darr, D.B., Pardo-Manuel de Villena, F., Kim, W.Y. and **Magnuson, T.** (2015). Coexistent ARID1A-kPIK3CA mutations promote ovarian clear-cell tumorigenesis through pro-tumorigenic inflammatory cytokine signaling. *Nat Commun.* Jan 27;6:6118. doi: 10.1038/ncomms7118.
12. Mu, Weipeng, Starmer, J., Fedoriw, A.M., Yee, D. and **Magnuson, T.** (2014). Repression of the soma-specific transcriptome by Polycomb Repressive Complex 2 promotes male germ cell development. *Genes Dev.* 28, 2056-2069.
13. Pohlers, M., Calabrese, J.M., and **Magnuson, T.** (2014). Small RNA expression from the human macrosatellite DXZ4. *G3 (Bethesda)*, 4, 1981-1989.
14. Shpargel, K.B., Starmer, J., Yee, D., Pohlers, M., and **Magnuson, T.** (2014). KDM6 demethylase independent loss of histone H3 lysine 27 trimethylation during early embryonic development. *PLoS Genetics*, 2014 Aug 7;10(8):e1004507. doi: 10.1371/journal.pgen.1004507. eCollection 2014 Aug.
15. Mugford, J.W., Starmer, J., Williams, R.L., Calabrese, J.M., Mieczkowski, P., Yee, D., and **Magnuson, T.** (2014). Evidence for local regulatory control of escape from imprinted X chromosome inactivation. *Genetics*, doi 10.1534/genetics 114.162800.
16. Williams, R.L., Starmer, J., Mugford, J.W., Calabrese, J.M., Mieczkowski, P., Yee, D. and **Magnuson, T.** (2014). *fourSig*: a method for determining chromosomal interactions in 4C-Seq data. *Nucleic Acids Res.* Apr;42(8):e68. doi: 10.1093/nar/gku156. Epub 2014 Feb 20.
17. Chandler, R.L., Zhang, Y., **Magnuson, T.**, and Bultman, S.J. (2014). Characterization of a *Brg1* hypomorphic allele demonstrates that genetic and biochemical activity are tightly correlated. *Epigenetics*, Feb 1;9(2):249-56. doi: 10.4161/epi.26879.
18. Shi X, Zhang Z, Zhan X, Cao M, Satoh T, Akira S, Shpargel K, **Magnuson T**, Li Q, Wang R, Wang C, Ge K, Wu J. (2014). An epigenetic switch induced by Shh signaling regulates gene activation during development and medulloblastoma growth. *Nat Commun.* 5:5425. doi: 10.1038/ncomms6425.
19. Committee on a Review of the Recombinant DNA Advisory Committee (2013). Oversight

and Review of Clinical Gene Transfer Protocols: Assessing the Role of the Recombinant DNA Advisory Committee. *The National Academies Press, Washington DC*.

20. King, I.F., Yandava, C.N., Mabb, A.M., Hsiao, J.S., Huang, H.S., Pearson, B.L., Calabrese, J.M., Starmer, J., Parker J.S, **Magnuson, T.**, Chamberlain, S.J., Philpot, B.D., Zylka, M.J. (2013). Topoisomerases facilitate transcription of long genes linked to autism. *Nature* 501, 58-62.
21. Gray, J.E., Starmer, J., Lin, V.S., Dickinson, B.C. and **Magnuson, T.** (2013). Mitochondrial hydrogen peroxide and defective cholesterol efflux prevent in vitro fertilization by cryopreserved inbred mouse sperm. *Biol. Reprod.* 89, 17-29.
22. Evans, J.P., Berg, J.S., Olshan, A.F., **Magnuson, T.** and Rimer, B.K. (2013). We screen newborns, don't we? Realizing the promise of public health genomics. *Genet. Med.* Doi: 10.1038/gim.2013.11
23. Jang, C.W. and **Magnuson, T.** (2013). A novel selection marker for efficient DNA cloning and recombineering in *E. coli*. *PLoS One* 8(2):e5705.
24. Chandler, R.L., Brennan, J., Schisler, J.C., Patterson, C., and **Magnuson, T.** (2013). ARID1a-DNA interactions are required for promoter occupancy by SWI/SNF. *Mol. Cell Biol.* 33, 265-280.
25. Committee on a Review of the California Institute for Regenerative Medicine (2013). The California Institute for Regenerative Medicine: Science, Governance, and the Pursuit of Cures. *The National Academies Press, Washington DC*.
26. Calabrese, J.M., Sun, W., Song, L., Mugford, J.W., Williams, L., Yee, D., Starmer, J., Mieckowski, P. Crawford, G.E., and Magnuson, T. (2012). Site-Specific silencing of regulatory elements as a mechanism of X-inactivation. *Cell* 151, 951-963.
27. Fedoriw, A.M., Calabrese, J.M., Mu, W., Yee, D. and **Magnuson, T.** (2012). Differentiation-driven nucleolar association of the mouse imprinted Kcnq1 locus. *G3 (Bethesda)* 2, 1521-1528.
28. Shpargel, K.B., Sengoku, T., Yokoyama, S., and **Magnuson, T.** (2012). UTX and UTY demonstrate histone demethylase-independent function in mouse embryonic development. *PLoS Genet*, 8, e1002964.
29. Donahue, L.R., Hrabe de Angelis, M., Hagn, M., Franklin, C., Lloyd, K., **Magnuson, T.**, McKerlie, C., Nakagata, N., Obata, Y., Read, S., Wurst, W., Horlein, A., Davisson, M. (2012). Centralized mouse repositories. *Mamm. Genome* 23, 559-571.
30. Horakova, A.H., Calabrese, J.M., McLaughlin, C.R., Tremblay, D.C., **Magnuson, T.**, Chadwick, B.P. (2012). The mouse DXZ4 homolog retains CTCF binding and proximity to Pls3 despite substantial organizational differences compared to the primate macrosatellite. *Genome Biol.* 13, R70.
31. Fedoriw, A., Mugford, J., and **Magnuson, T.** (2012). Genomic imprinting and epigenetic control of development. In *Signals, Switches and Networks in Mammalian Development*. Cold Spring Harbor Press. Jul 1;4(7):a008136. doi: 10.1101/cshperspect.a008136

32. Mugford, J.W., Yee, D., and **Magnuson, T.** (2012). Failure of extra-embryonic progenitor maintenance in the absence of dosage compensation. *Development* 139, 2130-2138.
33. Collaborative Cross Consortium (2012). The genome architecture of the collaborative cross mouse genetic reference population. *Genetics* 190, 389-401.
34. Kim, Y., Fedoriw, A.M., and **Magnuson, T.** (2012). An essential role for mammalian SWI/SNF chromatin remodeling complex during male meiosis. *Development* 139, 1122-1140.
35. Fedoriw, A.M., Starmer, J.D., Yee, D. and **Magnuson, T.** (2012). Nucleolar association and transcriptional inhibition through 5S rDNA in mammals. *PLoS Genetics* Jan; 8(1):e1002468. doi: 10.1371/journal.pgen.1002468. Epub 2012 Jan 19.
36. Williams, L.H., Kalantry, S., Starmer, J., **Magnuson, T.** (2011). Transcription precedes loss of *Xist* coating and depletion of H3K27me3 during X-chromosome reprogramming in the mouse inner cell mass. *Development* 138, 2049-2057.
37. Griffin, C.T., Curtis, C.D., Davis, R.B., Muthukumar, V. and **Magnuson, T.** (2011). The chromatin-remodeling enzyme BRG1 modulates vascular Wnt signaling at two levels. *Proc. Natl. Acad. Sci. USA* 108, 2282-2287.
38. Ciavatta, D.J., Yang, J., Preseton, G.A., Badhwar, A.K., Xiao, H., Hewins, P., Nester, C.M., Pendegraft, W.F., **Magnuson, T.**, Jennette, J.C., and Falk, R.J. (2010). Epigenetic basis for aberrant upregulation of autoantigen in genes in humans with ANCA vasculitis. *J. Clin. Invest.* 120, 3209-2319.
39. Galvin, K.E., Travis, E.D., Yee, D., **Magnuson, T.** and Vivian, J.L. (2010). Nodal signaling regulates the bone morphogenic protein pluripotency pathway in mouse embryonic stem cells. *J. Biol. Chem.* 285, 19747-19756.
40. Kalantry, S., Purushothaman, S., Bowen, R.B., and **Magnuson, T.** (2009). Evidence for *Xist*-RNA-independent initiation of mouse imprinted X-chromosome inactivation. *Nature*, 460, 647-651.
41. Cowley, D.O., Rivera-Pérez, J.A., Schliekelman, M., Yizhou, He, Y.J., Oliver, T.G., Lu L., O'Quinn, R., E.D. Salmon, E.D., **Magnuson, T.**, and Van Dyke, T. (2009). Aurora-A kinase is essential for bipolar spindle formation and early development. *Mol. Cell. Biol.* 29, 1059-1071.
42. Starmer, J. and **Magnuson, T.** (2009). A new model for random X chromosome inactivation. *Development* 136, 1-10.
43. Moy, S.S., Nadler, J.J., Young, N.B., Nonneman, R.J., Grossman, A.W., Murphy, D.L., D'Ercole, A.J., Crawley, J.N., **Magnuson, T.R.**, and Lauder, J.M. (2009). Social approach in genetically engineered mouse lines relevant to autism. *Genes Brain Behav.* 8, 128-142.
44. Sanz, L.A., Chamberlain, S., Sabourin, J.C., Henckel, A., **Magnuson, T.**, Hugnot, J.P., Feil, R. and Arnaud, P. (2008). A mono-allelic bivalent chromatin domain controls tissue-specific

imprinting at Brb10. *EMBO J.* 27, 2523-2532.

45. Moy, S.S., Nadler, J.J., Young, N.B., Nonneman, R.J., Segall, S.K., Andrade, G.M., Crawley, J.N., **Magnuson, T.** (2008). Social approach & repetitive behavior in 11 inbred mouse strains. *Behav. Brain Res.* 19, 118-129.
46. Committee on Guidelines for Human Embryonic Stem Cell Research, “2008 Amendments to The Guidelines for Human Embryonic Stem Cell Research”, *The National Research Council, Washington, D.C.*
47. Chamberlain, S.J., Yee, D. and **Magnuson, T.** (2008). Polycomb repressive complex 2 is dispensable for maintenance of embryonic stem cell pluripotency. *Stem Cell* 26, 1496-1505.
48. Griffin, C.T., Brennan, J. and **Magnuson, T.** (2008). The chromatin-remodeling enzyme BRG1 plays an essential role in primitive erythropoiesis and vascular development. *Development* 135, 493-500.
49. Montgomery, N.D., Yee, D., Montgomery, S.A. and **Magnuson, T.** (2007). Molecular and functional mapping of EED motifs required for PRC2-dependent histone methylation. *J. Mol. Biol.*, 374, 1145-1157.
50. Alexander, M.K., Mlynarczyk-Evans, S., Royce-Tolland, M., Plocik, A., Kalantry, S., **Magnuson, T.** and Panning, B. (2007). Differences between homologous alleles of olfactory receptor genes require the polycomb group protein EED. *J. Cell. Biol.* 179, 269-276.
51. Ciavatta, D., Rogers, S. and **Magnuson, T.** (2007). Drosophila CTCF is required for *Fab-8* enhancer locking activity in S2 cells. *J. Mol. Biol.* 373, 233-239.
52. Bultman, S.J., Herschkowitz, J.I., Godfrey, V., Gebuhr, T.C., Yaniv, M., Perou, C.M. and **Magnuson, T.** (2007). Characterization of mammary tumors from *Brg1* heterozygous mice. *Oncogene* 27, 460-468.
53. John, S. and **Magnuson, T.** (2007). The 2007 Thomas Hunt Morgan Medal – Oliver Smithies. *Genetics* 175, 459-462.
54. Kalantry, S. and **Magnuson, T.** (2007). Epigenetic influences on gene expression pathways. In Principles of Developmental Genetics, Ed. Moody, S.A., Elsevier, Amsterdam, pp.92-113.
55. Committee on Guidelines for Human Embryonic Stem Cell Research, “2007 Amendments to The Guidelines for Human Embryonic Stem Cell Research”, *The National Research Council, Washington, D.C.*
56. Moy, S.S., Nadler, J.J., Young, N.B., Perez, A., Holloway, L.P., Barbaro, R.P., Barbaro, J.R., Wilson, L.M., Threadgill, D.W., Lauder, J.M., **Magnuson, T.R.**, Crawley, J.N. (2007). Mouse behavioral tasks relevant to autism: Phenotypes of ten inbred strains. *Behav. Brain Res.* 176, 4-20.
57. Rivera-Pérez, J.A., Diefes, H. and **Magnuson, T.** (2006). A simple enzymatic method for parietal yolk sac removal in early postimplantation mouse embryos. *Dev. Dyn.* 236, 489-493.

58. Nadler, J.J., Zou, F., Huang, H., Moy, S.S., Lauder, J., Crawley, J.N., Threadgill, D.W., Wright, F.A. and **Magnuson, T.** (2006). Large scale gene expression differences across brain regions and inbred strains correlate with behavioral phenotype. *Genetics* 174, 1229-1236.
59. Li, M., Yee, D., **Magnuson, T.**, Smithies, O. and Caron, K.M. (2006). Reduced maternal expression of adrenomedullin disrupts fertility, placentation, and fetal growth in mice. *J. Clin. Invest.* 116, 2653-2662.
60. Kim, S.Y., Paylor, S.W., **Magnuson, T.** and Schumacher, A. (2006). Juxtaposed polycomb complexes co-regulate vertebral identity. *Development* 133, 4957-4968.
61. Ciavatta, D., Kalantry, S., **Magnuson, T.**, and Smithies, O. (2006). A DNA insulator prevents repression of a targeted X-linked transgene but not its random or imprinted X inactivation. *Proc. Natl. Acad. Sci. USA* 103, 9958-9963.
62. Bultman, S.J., Gebuhr, T.C., Pan, H., Svoboda, P., Schultz, R.M. and **Magnuson, T.** (2006). Maternal BRG1 regulates zygotic genome activation in the mouse. *Genes Dev.* 20, 1744-1754.
63. Kalantry, S. and **Magnuson, T.** (2006). The polycomb group protein EED is dispensable for the initiation of random X-chromosome inactivation. *PLoS Genetics* 2 (5), 656-664.
64. Gullapalli, A., Wolfe, B.L., Griffin, C.T., **Magnuson, T.** and Trejo, J. (2006). An essential role for SNX1 in lysosomal sorting of protease-activated receptor-1: Evidence for retromer, Hrs and Tsg101 Independent functions of sorting nexins. *Mol. Biol. Cell.* 17, 1228-1238.
65. Chen, Y., Yee, D. and **Magnuson, T.** (2006). A novel mouse *Smad4* mutation reduces protein stability and wild type protein levels. *Mamm. Genome* 17, 211-219.
66. Kalantry, S., Mills, K.C., Yee, D., Otte, A.P., Panning, B. and **Magnuson, T.** (2006). The Polycomb group protein Eed protects the inactive X-chromosome from differentiation-induced reactivation. *Nat. Cell Biol.* 8 195-202.
67. Moy, Sheryl, S., Nadler, J.J., **Magnuson, T.R.**, and Crawley, J.N. (2006). Mouse Models for Autistic Spectrum Disorders: The Challenge for Behavioral Genetics. *Amer. J. Med. Genet.* 142, 40-51.
68. Montgomery, N.D., **Magnuson, T.**, and Bultman, S. (2006). Epigenetic Mechanisms of Cellular Memory During Development. In *Essentials of Cell Biology* pp 69-79, Elsevier Press.
69. Morin-Kensicki, E.M., Boone, B.N., Howell, M., Stonebraker, J.R., Teed, J., Alb, J.G., **Magnuson, T.R.**, O'Nel, W., Milgram, S.L. (2006). Defects in yolk sac vasculogenesis, chorioallantoic fusion, and embryonic axis elongation in mice with targeted disruption of "Yap65". *Mol. Cell. Biol.* 26, 77-87.
70. Committee on Guidelines for Human Embryonic Stem Cell Research, (2005). "Guidelines for Human Embryonic Stem Cell Research", *The National Research Council, Washington, D.C.*

71. Bultman, S.J., Gebuhr, T.C. and **Magnuson, T.** (2005). A *Brg1* mutation that uncouples ATPase activity from chromatin remodeling reveals an essential role for SWI/SNF-related complexes in β -globin expression and erythroid development. *Genes Dev.* 19, 2849-2861.
72. Rivera-Pérez, J., and **Magnuson, T.** (2005). Primitive streak formation in mice is preceded by localized activation of *Brachyury* and *Wnt3*. *Dev. Biol.* 288, 363-371.
73. Abell, A. N., Rivera-Perez, J. A., Cuevas, B. D., Uhlik, M. T., Sather, S., Johnson, N. L., Minton, S. K., Lauder, J. M., Winter-Vann, A. M., Nakamura, K., **Magnuson, T.**, Vaillancourt, R. R., Heasley, L. E., Johnson, G. L. (2005). Ablation of MEKK4 kinase activity causes neurulation and skeletal patterning defects in the mouse embryo. *Mol. Cell. Biol.* 25, 8948-8959.
74. Griffin, C.T., Trejo, J., and **Magnuson, T.** (2005). Genetic evidence for a mammalian retromer complex containing sorting nexins 1 and 2. *Proc. Natl. Acad. Sci.* 102, 15173-15177.
75. Montgomery, N.D., Yee, D., Che A., Kalantry, S., Chamberlain, S.J., Otte, A.J., **Magnuson, T.** (2005). The murine polycomb group protein EED is required for global histone H3 lysine-27 methylation. *Current Biol.* 15, 942-947.
76. Ideraabdullah, F.Y., del la Casa-Espereón, E., Bell, T.A., Detwiler, D.A., **Magnuson, T.**, Sapienza, C., Pardo-Manuel de Villena, F. (2004). Genetic and haplotype diversity among wild-derived mouse inbred strains. *Genome Res.* 14, 1880-1887.
77. Vivian, J., Chen, Y., and **Magnuson, T.** (2004). Mutational Analysis of Early Development Genes. In Handbook of Stem Cells, Volume 2: *Embryonic Stem Cells*. pp. 599-608. Ed. R. Lanza.
78. Bultman, S., Montgomery, N., and **Magnuson, T.** (2004). Chromatin modeling factors and transcriptional regulation during development. In *Handbook of Stem Cells*, Volume 2: Embryonic Stem Cells. pp, 63-90. Ed. R. Lanza.
79. Moy, S.S., Nadler, J.J., Perez, A., Barbara, R.P., Johns, J.M., **Magnuson, T.**, Piven, J., and Crawley, J.N. (2004). Modeling autism sociability and preference for social novelty tests in inbred strains of mice. *Genes Brain Behav.* 3, 287-302.
80. Nadler, J.J., Moy, S.S., Dold, G., Perez, A., Young, N.B., Barbara, R.P., Piven, J., **Magnuson, T.**, and Crawley, J.N. (2004). Automated apparatus for quantitation of social approach behaviors in mice. *Genes Brain Behav.* 3, 303-314.
81. Austin, C.P., Battery, J.F. Bradley, A., Bucan, M., Collins, F.S., Dove, W.F., Duyk, G., Dymecki, S., Eppig, J.T., Grieder, F.B., Heintz, N., Hicks, G., Insel, T.R., Joyner, A., Koller, B.H., Lloyd, K.C., **Magnuson, T.**, Moore, M.W., Nagy, A., Pollock, J.D., Roses, A.D., Sands, A.T., Seed, B., Skarnes, W.C., Snoddy, J., Soriano, P., Stewart, D.J., Stewart, F., Stillman, B., Varmus, H., Varticovski, L., Berma, I.M., Vogt, T.F., von Melchner, H., Witkowski, J., Woychik, R.P., Wurst, W., Yancopoulos, G.D., Young, S.G., Zambrowicz, B. (2004). The knockout mouse project. *Nat. Genet.* 36, 921-924.

82. Gebuhr, T., Kovalev, G.I., Bultman, S., Godfrey, V., Su, L., and **Magnuson, T.** (2003). The role of Brg1, a catalytic subunit of mammalian chromatin remodeling complexes, in T cell development. *J. Exp. Med.* 198, 1937-1949.
83. Rivera-Pérez, J., Mager, J. and **Magnuson, T.** (2003). Dynamic morphogenetic changes characterize the mouse visceral endoderm. *Dev. Biol.* 15, 470-487.
84. Fan, Y., Nikitina, T., Morin-Kensicki, E. Zhao, J., **Magnuson, T.**, Woodcock, C. and Skoultschi, A. (2003). H1 histones are essential for mouse development and affect nucleosome spacing in vivo. *Mol. Cell. Biol.* 23, 4559-4572.
85. Mager, J.C., Montgomery, N.D., Pardo-Manuel de Villena, F. and **Magnuson, T.** (2003). Genome imprinting regulated by a mouse polycomb group protein. *Nat. Genet.* 33, 502-507 (note News & Views commentary pg 1-2).
86. Vivian, J., Chen, Y., Yee, D., Schneider, E., and **Magnuson, T.** (2002). An allelic series of mutations in *Smad2* and *Smad4* identified in a genotype-based screen of *N*-ethyl-*N*-nitrosourea-mutagenized mouse embryonic stem cells. *Proc. Natl. Acad. Sci. USA*, 99, 15542-15547.
87. Chen, Y., Vivian, J.L., and **Magnuson, T.** (2003). Gene-based chemical mutagenesis in mouse embryonic stem cells. *Methods Enzymol.* 365, 406-415.
88. Schwarz, D.G., Schneider, E.A., Yee, D., Griffin, C.T. and **Magnuson, T.** (2002). Genetic analysis of Sorting Nexins 1 and 2 reveals a redundant and essential function in mice. *Mol. Biol. Cell* 13, 3588-3600.
89. Wang, J., Mager, J. Schneider, E. and **Magnuson, T.** (2002). The mouse *PcG* gene *eed* is required for *Hox* gene repression and extraembryonic development. *Mamm. Genome* 13, 493-503.
90. Morin-Kensicki, E.M., Faust, C., LaMantia, C. and **Magnuson, T.** (2002). Cell and tissue requirements for the gene *eed* during mouse gastrulation and organogenesis. *Genesis* 31, 142-146.
91. Richie, E.R., Schumacher, A., Angel, J.M., Holloway, M., Rinchik, E.M., and **Magnuson, T.** (2002). The *Polycomb-group* gene *eed* affects thymocyte differentiation and suppresses the development of carcinogen-induced T-cell lymphomas. *Oncogene* 21, 299-306.
92. Wang, J., Mager, J., Chen, Y., Schneider, E., Cross, J., Nagy, A., and **Magnuson, T.** (2001). Imprinted X inactivation maintained by a *Polycomb-group* gene. *Nat. Genet.* 28, 371-375.
93. The International Mouse Mutagenesis Consortium (2001). Annotating genome sequences with biological functions in mice. *Science* 291, 1251-1255.
94. Mager, J. and **Magnuson, T.** (2001). Mouse Radiation Genetics. In *Encyclopedia of Genetics*, S. Brenner and J. Miller, Eds. Academic Press.
95. Reiter, J.L., Threadgill, D.W., Eley, G.D., Strunk, K.E., Danielsen, A.J., Sinclair, C.S., Pearsall, R.S., Green, P.J., Yee, D., Lampland, A.L., Balasubramaniam, S., Crossley, R.D.,

- Magnuson, T.R.**, James, C.D., and Maihle, N.J. (2001). Comparative genomic sequence analysis and isolation of human and mouse alternative *EGFR* transcripts encoding truncated receptor isoforms. *Genomics* 71, 1-20.
96. Chen, Y., Schimenti, J. and **Magnuson, T.** (2000). Towards the yeastification of mouse genetics: Chemical mutagenesis of embryonic stem cells. *Mamm. Genome* 11, 598-602.
 97. Bultman, S, Yee, D., LaMantia, C., Nicholson, J., Gilliam, A., Randazzo, F., Metzger, D., Chambon, P., Crabtree, G., and **Magnuson, T.** (2000). A *Brg1* null mutation in the mouse reveals functional differences among mammalian SWI/SNF complexes. *Mol. Cell* 6, 1287-1295.
 98. Kendall, S.K., Strong, S.J., Litman, R.T., Litman, G.W. and **Magnuson, T.** (2000). Genetic analysis of the *exed* region in mouse. *Genesis* 27, 174-179.
 99. Denning, MF, Dlugosz, AA, Cheng, C, Dempsey, PJ, Coffey, RJ, Threadgill, D.W., **Magnuson, T.** and Yuspa, SH. (2000). Cross-talk between epidermal growth factor receptor and protein kinase C during calcium-induced differentiation of keratinocytes. *Exp. Derm.* 9, 192-199.
 100. Bultman, S. and **Magnuson, T.** (2000). Molecular and genetic analysis of the mouse homolog of the *Drosophila Suppressor of Position Effect Variegation 3-9* gene. *Mamm. Genome* 11, 251-254.
 101. Gebuhr, T.C., Bultman, S.J. and Magnuson, T. (2000). *Pc-G/trx-G* and the SWI/SNF connection: developmental gene regulation through chromatin remodeling. *Genesis* 26, 189-197.
 102. Chen, Y., Yee, D., Chatterjee, A., Dains, K., Schneider, E., Om, J., Woychik, R. and **Magnuson, T.** (2000). Genotype-based screen ENU-induced mutations in mouse embryonic stem cells. *Nat. Genet* 24, 314-317.
 103. Chen, C., Bronson, R.T., Klamann, L.D., Hampton, T.G., Wang, J., Green, P.J., **Magnuson, T.**, Douglas, P.S., Morgan, J.P & Neel, B.G (2000). Mice mutant for *Egfr* and *Shp2* have defective cardiac semilunar valvulogenesis. *Nat. Genet* 24 296-299.
 104. Wang, J., Tie, F., Jane, E., Schumacher, A., Harte, P.J. and **Magnuson, T.** (2000). Mouse Homolog of the *Drosophila Pc-G* gene *esc* exerts a dominant negative effect in *Drosophila*. *Genesis* 26, 66-76.
 105. Bultman, S.J., Green, P. and **Magnuson, T.** (2000). Genetic modification of mutant receptor phenotypes. In: *Genetic manipulation of receptor expression and function*. Ed. Acelli, D. Wiley Interscience, NY, pp. 39-53.
 106. Bultman, S. and **Magnuson, T.** (2000). Classical Genetics and Gene Targeting. In: *Gene Targeting: A Practical Approach, 2nd edition*. Ed. Joyner. A.L. Oxford University Press, pp. 255-283.

107. Lessard, J., Schumacher, A., Thorsteinsdottir, U., van Lohuizen, V., **Magnuson, T.** and Sauvageau, G. (1999). Functional antagonism of the *Polycomb*-group genes *eed* and *Bmi1* in hemopoietic cell proliferation. *Genes Dev.* 13, 2691-2703.
108. Faust, C., Lawson, K.A., Schork, N.J., Thiel, B., and **Magnuson, T.** (1998). The *Polycomb*-group gene *eed* is required for normal morphogenetic movements during gastrulation in the mouse embryo. *Development* 125; 4495-4506.
109. Schumacher, A., Lichtarge, O., Schwartz, S., and **Magnuson, T.** (1998). The murine *Polycomb*-group gene *eed* and its human orthologue: Functional implications of evolutionary conservation. *Genomics* 54, 79-88.
110. Shapiro, D.A., Threadgill, D.S., Copfer, M.H., Corey, D.A., McCool, T.L., McCormick, L.L., **Magnuson, T.**, Greenspan, N.S., Schreiber, J.R. (1998). G3 gene-disrupted mice selectively deficient in the dominant IgG subclass made to bacterial polysaccharides undergo normal isotype switching after immunization with polysaccharide-protein conjugate vaccines. *J. Immunol.* 161, 3393-3399.
111. Wood, G.K., Tomasiewicz, H., Rutishauser, U., **Magnuson, T.**, Quirion, R., Rochford, J., Srivastava, L.K. (1998). NCAM-180 knockout mice display increased lateral ventricle size and reduced prepulse inhibition of startle. *Neuroreport* 9, 461-466.
112. Woychik, R.P., Klebig, M.L., Justice, M.J., **Magnuson, T.** and Avner, E. (1998). Functional genomics in the post-genome era. *Mutat. Res.* 400, 3-14.
113. Chakravarti, S., **Magnuson, T.**, Lass, J.H., Jepsen, K.J., LaMantia, C., and Carroll, H. (1998). Lumican regulates collagen fibril assembly: skin fragility and corneal opacity in the absence of lumican. *J. Cell Biol.* 141, 1277-1286.
114. van Lohuizen, M., Tijms, M., Voncken, J.W., Schumacher, A., **Magnuson, T.**, and Wientjens, E (1998). Interaction of mouse Pc-G proteins Enx1 and Enx2 with Eed: Indication for separate Pc-G complexes. *Mol. Cell. Biol.* 18, 3572-2579.
115. Thomas, J., LaMantia, C.L., and **Magnuson, T.** (1998). X-ray-induced mutations in mouse embryonic stem cells. *Proc. Natl. Acad. Sci. U.S.A.* 95, 1114-1119.
116. Johnson, M.T., Yang, H.-S., **Magnuson, T.**, Patel, M.S. (1997). Targeted disruption of the murine dihydroliposamide dehydrogenase gene (*Dld*) results in perigastrulation lethality. *Proc. Natl. Acad. Sci. U.S.A.* 94, 14512-14517.
117. Treloar, H.B., Tomasiewicz, H., **Magnuson, T.**, and Key, B. (1997). The central pathway of primary olfactory axons is abnormal in mice lacking the N-CAM-180 isoform. *J. Neurobiol.* 32, 643-58.
118. Threadgill, D.W., Matin, A., Yee, D., Carrasquillo, M.M., Henry, K.R., Rollins, K.G., Nadeau, J.H., and **Magnuson, T.** (1997). SSLPs to map genetic differences between the 129 inbred strains and closed-colony random bred CD-1 mice. *Mamm. Genome* 8, 441-442.

119. Threadgill, D.W., Yee, D., Matin, A., Nadeau, J.H., and **Magnuson, T.** (1997). Geneology of the 129 inbred strains: 129/SvJ is a contaminated inbred strain. *Mamm. Genome* 8, 390-393.
120. Dlugosz, A.A., Hansen, L., Cheng, C., Alexander, N., Denning, M.F., Threadgill, D.W., **Magnuson, T.**, Coffery, R.J. & Yuspa, S.H. (1997) Targeted disruption of the epidermal growth factor receptor impairs growth of squamous papillomas expressing the v-ras^{Ha} oncogene but does not block *in Vitro* keratinocyte responses to oncogenic ras. *Cancer Res.* 57, 3180-3188.
121. Shen, H., Watanabe, M., Tomasiewicz, H., Rutishauser, U., **Magnuson, T.**, and Glass, J.D. (1997). Mutation or enzymatic perturbation of polysialylated NCAM disrupts circadian function in the mouse. *J. Neurosci.* 17, 5221-5229.
122. Hansen, L.A., Alexander, N., Tennenbaum, T., Hogan, M.E., Sundberg, J.P., Threadgill, D.W., **Magnuson, T.** and Yuspa, S. (1997). Genetically null mice reveal a central role for EGFR in the maturation of the hair follicle and normal hair development. *Amer. J. Pathol.* 150, 1959-1975.
123. Schumacher, A. and **Magnuson, T.** (1997). Murine *polycomb*- and *trithorax*-group genes regulate homeotic pathways and beyond. *Trends Genet.* 13, 167-170.
124. Hansen, L.A., Lichti, U., Tennenbaum, T., Dlugosz, A.A., Threadgill, D.W., **Magnuson, T.**, and Yuspa, S.H. (1996). Altered hair follicle morphogenesis in epidermal growth factor deficient mice. *In Hair Research for the Next Millenium, Eds.* Van Neste and Randall, Elsevier Science BV, pg 425-431.
125. Schumacher, A., Faust, C.J. and **Magnuson, T.** (1996). Positional cloning of a global regulator of anterior-posterior patterning in mice. *Nature* 383, 250-253.
126. Saga, Y., Hata, N., Kobayashi, S., **Magnuson, T.**, Seldin, M.F., and Taketo, M.M. (1996). MesP1: A novel basic helix-loop-helix protein expressed in the nascent mesodermal cells during mouse gastrulation. *Development* 122, 2769-2778.
127. Ewulonu, K., Schimenti, K. Kuemerle, B., **Magnuson, T.**, and Schimenti, J. (1996). Targeted mutagenesis of a candidate *t complex responder* gene in mouse *t* haplotypes does not eliminate transmission ratio distortion. *Genetics* 144, 785-792.
128. Rabinowitz, J.E., Rutishauser, U. and **Magnuson, T.** (1996). Targeted mutation of *Ncam* to produce a secreted molecule resulting in a dominant embryonic lethality. *Proc. Natl. Acad. Sci. USA* 93, 6421-6424.
129. Hu, H., Tomasiewicz, H., **Magnuson, T.**, and Rutishauser, U. (1996). The role of polysialic acid in migration of olfactory bulb interneuron precursors in the subventricular zone. *Neuron* 16, 735-743.
130. Denning, M.F., Dlugosz, A.A., Threadgill, D.W., **Magnuson, T.**, and Yuspa, S.H. (1996). Activation of the epidermal growth factor receptor signal transduction pathway stimulates tyrosine phosphorylation of protein kinase C. *J. Biol. Chem.* 271, 5325-5331.

131. Tong, B.J., Das, S.K., Threadgill, D., **Magnuson, T.**, and Dey, S.K. (1996). Differential expression of the full-length and truncated forms of the epidermal growth factor receptor in the preimplantation mouse uterus and blastocyst. *Endocrinology* 137, 1492-1496.
132. Lin, C.S., Xia, D., Yun, J.S., Wagner, T., **Magnuson, T.**, Mold, C. and Samols, D. (1995). Expression of rabbit c-reactive protein in transgenic mice. *Immunol. Cell. Biol.* 73, 521-531.
133. Rennebeck, G.M., Lader, E.S., Chen, Q., Cai, Z.S., Faust, C., **Magnuson, T.**, Pease, L.R., and Artzt, K. (1995). Is there a *Brachyury the Second*? Analysis of a transgenic mutation involved in notochord maintenance in mice. *Dev. Biol.* 172, 206-217.
134. Weng, A., **Magnuson, T.**, and Storb, U. (1995). Strain-specific transgene methylation occurs early in mouse development and can be recapitulated in embryonic stem cells. *Development* 121, 2853-2859
135. **Magnuson, T.** and Faust, C.J. (1995). Vertebrate gastrulation and axial patterning: An editorial overview Part II. *Dev. Genetics* 17, 103-106.
136. **Magnuson, T.** and Faust, C.J. (1995). Vertebrate gastrulation and axial patterning: An editorial overview Part I. *Dev. Genetics* 17, 1-5.
137. Holdener, B.C., Thomas, J.W., Schumacher, A., Potter, M.D., Rinchik, E.M., Sharan, S.K. and **Magnuson, T.** (1995). Physical localization of *eed*: A region of mouse chromosome 7 required for gastrulation. *Genomics* 27, 447-456.
138. Threadgill, D.W., Dlugosz, A.A., Hansen, L., Tennenbaum, T., Lichti, U., Yee, D., LeMantia, C., Mourton, T., Herrup, K., Harris, R.C., Barnard, J.A., Yuspa, S.H., Coffey, R.J. and **Magnuson, T.** (1995). Targeted disruption of mouse EGF-receptor: Effect of genetic background on mutant phenotype. *Science* 269, 230-234.
139. Rabinowitz, J.E. and **Magnuson, T.** (1995). Independent gene targeting by coelectroporation of multiple vectors. *Anal. Biochem.* 228, 180-182.
140. Holdener, B.C., Rinchik, E.M. and **Magnuson, T.** (1995). Phenotypic and physical analysis of a chemically induced mutation disrupting anterior axial development in the mouse. *Mamm. Genome* 6, 474-475.
141. Chakravarti, S. and **Magnuson, T.** (1995). Mouse lumican (keratan sulfate proteoglycan): Partial coding sequence and localization to distal chromosome ten. *Mamm. Genome* 6, 367-368.
142. Faust, C., Shumacher, A., Holdener, B., and **Magnuson, T.** (1995). The *eed* mutation disrupts anterior mesoderm production in mice. *Development* 121, 273-285.
143. Thomas, J.W., Holdener, B.C. and **Magnuson, T.** (1994). Sequence analysis of a radiation induced deletion breakpoint. *Mamm. Genome* 5, 518-519.

144. Ono, K., Tomasiewicz, H., **Magnuson, T.**, Rutishauser, U. (1994). Polysialic acid promotes rostral cell migration in the subependymal layer of the mouse. *Neuron* 13, 595-609.
145. Holdener, B.C., Faust, C. and **Magnuson, T.** (1994). *msd* is required for mesoderm induction in mouse. *Development* 120, 1335-1346.
146. Toltzis, P., Mourton, T., and **Magnuson, T.** (1994). Comparative embryonic cytotoxicity of antiretroviral nucleosides. *J. Infect. Dis.* 169, 1100-1102.
147. Holdener, B.C. and **Magnuson, T.** (1994). Mouse model for human hereditary tyrosinemia I. *BioEssays* 16, 85-87.
148. Tomasiewicz, H., Ono, K., Yee, D., Thompson, C., Goridis, C., Rutishauser, U. and **Magnuson, T.** (1993). Genetic deletion of a neural cell adhesion molecule variant (NCAM-180) produces distinct defects in the central nervous system. *Neuron* 11, 1163-1174.
149. Holdener, B.C., Brown, S.D.M., Angel, J.M., Nicholls, R.D., Kelsey, G. and **Magnuson, T.** (1993). Mouse chromosome 7. *Mamm. Genome* S110-S120.
150. Toltzis, P., Mourton, T., and **Magnuson, T.** (1993). Zidovudine prevents implantation of murine embryos. *Antimicrob. Agents Chemother.* 37, 1610-13.
151. Faust, C. and **Magnuson, T.** (1993). Genetic control of gastrulation in mouse. *Curr. Opinions in Genetics and Development* 3, 491-498.
152. Schedl, A., Ruppert, S., Kelsey, G., Thies, E., Niswander, L., **Magnuson, T.**, Klebig, M., Rinchik, E.M., and Schütz, G. (1992). Chromosome jumping from flanking markers defines the minimal region for *alf/hsdr-1* within the albino-deletion complex. *Genomics* 14, 288-297.
153. Kelsey, G., Schedl, A., Ruppert, S., Klebig, M.L., Niswander, L., **Magnuson, T.**, Rinchik, E.M. and Schütz, G. (1992). Physical mapping of the albino-deletion complex in the mouse to localize *alf/hsdr-1*, a locus required for neonatal survival. *Genomics* 14, 275-287.
154. Holdener-Kenny, B., Sharan, S.K., and **Magnuson, T.** (1992). Albino Deletions: From genetics to genes in development. *BioEssays* 14, 831-839.
155. Rinchik, E.M., **Magnuson, T.**, Holdener-Kenny, B. Kelsey, G., Bianchi, A., Conti, C.J., Chartier, F., Brown, K.A., Brown, S.D.M., and Peters, J. (1992). Mouse chromosome 7. *Mamm. Genome* 3, S104-S120.
156. Sharan, S.K., Holdener-Kenny, B., Threadgill, D. and **Magnuson, T.** (1992). Genomic mapping within the albino-deletion complex using individual early postimplantation mouse embryos. *Mamm. Genome* 3, 79-83.
157. **Magnuson, T.**, Sharan, S. and Holdener-Kenny, B. (1992). Mutations affecting development in the mouse. in *Preimplantation Embryo Development*. Editor, Bavister, B., Springer-Verlag. New York. pp. 131-143.

158. Sharan, S.K., Holdener-Kenny, B., Ruppert, S., Schedl, A., Kelsey, G., Rinchik, E.M. and **Magnuson, T.** (1991). The albino-deletion complex of the mouse: Molecular mapping of deletion breakpoints that define regions necessary for development of the embryonic and extraembryonic ectoderm. *Genetics* 129, 825-832.
159. Niswander, L., Kelsey, G., Schedl, A., Sharon, S., Holdener, B., Rinchik, E.M., Edström, J.E., and **Magnuson, T.** (1991). Molecular mapping of albino deletions associated with early embryonic lethality. *Genomics* 9, 162-169.
160. Lin, C., **Magnuson, T.**, and Samols, D. (1989). A rapid procedure to identify newborn transgenic mice. *DNA* 8, 297-299.
161. Hiraoka, L., Golden, W., and **Magnuson, T.** (1989). Centrosome organization during early mouse development. *Dev. Biol.* 133, 24-36.
162. Niswander, L., Yee, D., Rinchik, E.M., Russell, L.B., and **Magnuson, T.** (1989). The albino-deletion complex uncovers genes necessary for development of embryonic and extraembryonic ectoderm. *Development* 105, 178-182.
163. Niswander, L., Yee, D., Rinchik, E.M., Russell, L.B., and **Magnuson, T.** (1988). The albino-deletion complex and early postimplantation survival in the mouse. *Development* 102, 45-53.
164. Niswander, L., Edström, J.E., Rinchik, E.M., and **Magnuson, T.** (1989). Genetics of early embryo survival. In *Transgenic Models in Medicine and Agriculture*. UCLA Symposia on Molecular and Cellular Biology, New Series, Vol. 116. Editor, R. Church, A.R. Liss, Inc., New York, NY.
165. Yee, D., Golden, W., Debrot, S., and **Magnuson, T.** (1987). Short-term rescue by RNA injection of a mitotic arrest mutation that affects the preimplantation mouse embryo. *Dev. Biol.* 122, 256-261.
166. **Magnuson, T.** and Epstein, C.J. (1987). Genetic activity during early embryonic development. In *The Mammalian Preimplantation Embryo: Regulation of Growth and Differentiation In Vitro* (ed: B. Bavister). pp. 130-150, Plenum Press, New York.
167. **Magnuson, T.** (1986). Mutations and chromosomal abnormalities: How are they useful for studying genetic control of early mammalian development? In *Experimental Approaches to Mammalian Embryonic Development* (eds: J. Rossant and R. Pedersen). pp. 437-474, Cambridge University Press.
168. **Magnuson, T.**, Debrot, S., Dimpfl, J., Zweig, A., Zamora, T., and Epstein, C.J. (1985). The early lethality of autosomal monosomy in the mouse. *J. Exp. Zool.* 236, 353-360.
169. **Magnuson, T.** and Epstein, C.J. (1984). Oligosyndactyly: A lethal mutation in the mouse that results in a mitotic arrest very early in development. *Cell* 38, 823-833.
170. Epstein, C.J., Cox, D.R., Epstein, L.B., and **Magnuson, T.** (1984). Animal models for human chromosome disorders. In *Research Perspectives in Cytogenetics*. (eds: F. de La Cruz and R.S. Sparkes), pp. 75-95. University Park Press, Baltimore.

171. **Magnuson, T.**, Martin, G., Silver, L.M., and Epstein, C.J. (1983). Studies of the viability of t^{w5}/t^{w5} embryonic cells in vitro and in vivo. In *Cold Spring Harbor Conferences on Cell Proliferation*, Vol. 10: Teratocarcinoma Stem Cells. pp. 671-681.
172. **Magnuson, T.** (1983). Genetic abnormalities and early mammalian development. in *Development in Mammals* (ed: M.H. Johnson), pp. 209-249.
173. **Magnuson, T.**, Epstein, C.J., Silver, L.M., and Martin, G. (1982). Pluripotent embryonic stem cell lines can be derived from $tw5/tw5$ blastocysts. *Nature* 298, 750-753.
174. Epstein, C.J., Smith, S., Zamora, T., Sawicki, J.A., **Magnuson, T.**, and Cox, D. (1982). The production of viable adult trisomy 17<-->diploid mouse chimeras. *Proc. Natl. Acad. Sci. USA* 79, 4376-4380.
175. **Magnuson, T.**, Smith, S., and Epstein, C.J. (1982). The development of monosomy 19 mouse embryos. *J. Embryol. Exp. Morphol.* 69, 223-236.
176. Epstein, C.J. and **Magnuson, T.** (1982). Genetic control of early mammalian development, In *Human Genetics, Part A: The Unfolding Human Genome* (eds: B. Bonne-Tamir, T. Cohen, R.M. Goodman), pp. 327-338. A.R. Liss, New York.
177. Sawicki, J., **Magnuson, T.**, and Epstein, C.J. (1981). Paternal gene expression of $\beta 2$ -microglobulin in preimplantation mouse embryos. *Nature* 294, 450-451.
178. **Magnuson, T.** and Epstein, C.J. (1981). Genetic control of very early mammalian development. *Biol. Rev.* 56, 369-408.
179. **Magnuson, T.** and Epstein, C.J. (1981). Use of concanavalin A to monitor changes in glycoprotein synthesis during early mouse development. In *Cellular and Molecular Aspects of Implantation* (eds: S.R. Glasser and D.W. Bullock), pp. 409-411. Plenum Press, New York.
180. **Magnuson, T.** and Epstein, C.J. (1981). Characterization of concanavalin A precipitated proteins from early mouse embryos: A 2 dimensional gel electrophoresis study. *Dev. Biol.* 81, 183-199.
181. Bennett, D., Artzt, K., **Magnuson, T.**, and Spiegelman, M. (1979). Developmental interactions studied with experimental teratomas derived from mutants at the T/t locus in the mouse. In *Cell Interactions in Differentiation* (eds: M. Karkinen-Jaaskelainen, L. Saxen, and L. Weiss), pp. 389-398. Academic Press, New York.
182. **Magnuson, T.**, Jacobson, J.B., and Stackpole, C.W. (1978). Relationship between intercellular permeability and junction organization in the preimplantation mouse embryo. *Dev. Biol.* 67, 214-224.
183. **Magnuson, T.** and Stackpole, C.W. (1978). Lectin-mediated agglutination of preimplantation mouse embryos. *Exp. Cell Res.* 116, 466-469.

184. Swislocki, N.I., **Magnuson, T.**, and Tierney, J. (1977). Properties of rat liver plasma membrane adenylate cyclase after chromatography on 0- diethylaminoethyl-cellulose and agarose-hexane-GTP. *Arch. Biochem. Biophys.* 179, 157-165.
185. **Magnuson, T.**, Demsey, A., and Stackpole, C.W. (1977). Characterization of intercellular junctions in the preimplantation mouse embryo by freeze-fracture and thin-section electron microscopy. *Dev. Biol.* 61, 252-261.

Teaching Experience:

Developmental Genetics (Graduate School)
 Core Curriculum in Molecular Biology (Graduate School)
 Genetics (Medical School)
 Embryology (Medical School)
 Histology Labs (Medical School)

Postdoctoral Fellows:

1. 2013-date: Debashish Menon, Ph.D., Wayne State University
2. 2013-date: Yoichiro Shibata, Ph.D., Duke University
3. 2012-date: Jeese Raab, Ph.D., University of California at Santa Cruz.
4. 2011-date: Chuan-Wei Jang, Ph.D., M.D. Anderson Cancer Center.
5. 2010-date: Keriyan Smith, Ph.D., University of Georgia.
6. 2009-date: Weipeng Mu, Ph.D., Cornell University.
7. 2008-2013: Karl Sphargel, Ph.D., Case Western Reserve University. Present Position, Assistant Professor, Department of Genetics, UNC Chapel Hill.
8. 2008-2014: Mauro Calabrese, Ph.D., MIT. Present Position, Assistant Professor, Department of Pharmacology, UNC Chapel Hill.
9. 2008-2013: Joshua Mugford, Ph.D., Harvard University. Present Position: Biogen
10. 2008-2014: Michael Pholers, Ph.D., Humbolt University of Berlin. Present Position: Biotech, Germany
11. 2007-2012: Josh Stramer, Ph.D., North Carolina State University. Present Position: Assistant Professor, UNC Chapel Hill
12. 2006-2011: Andy Fedoriw, Ph.D., University of Pennsylvania. Present Position, GlaxoSmithKline.
13. 2008-2012: Yuna Kim, Ph.D. Duke University. Present Position: relocated to Korea
14. 2005-2012: Nick Osborne, Ph.D., University of California, San Francisco. Present position Cato Research.
15. 2002-2009: Sundeep Kalantry, Ph.D., Cornell University. Present position: Assistant Professor, Department of Human Genetics, University of Michigan.
16. 2003-2007: Stormy Chamberlain, Ph.D., University of Florida. Present position: Assistant Professor, University of Connecticut Medical Center.
17. 2003-2007: Jennifer Brenman, Ph.D., Duke University. Present position: Director of Research, Office of Research, School of Medicine, University of North Carolina.
18. 2001-2008: Jessica Nadler, Ph.D., Univ. of Washington, present position: Deloitte Consulting.
19. 2001-2008: Courtney Griffin, Ph.D., UCSF, present position: Associate Professor, Oklahoma Medical Research Foundation.
20. 1997-2005: Jaimie Rivera-Pérez, Ph.D., University of Texas, MD Anderson, present position: Associate Professor, Department of Cell Biology, University of Massachusetts.

21. 1999-2004: Yijing Chen, Ph.D., University of Wisconsin, Madison, present position: Associate Professor, Environmental Health Sciences, Kent State University.
22. 1999-2004: Jay Vivian, Ph.D., U. of Texas, MD Anderson, present position: Scientific Director – Transgenic Facility, University of Kansas Medical Center.
23. 1997-2003: Elizabeth Morin-Kensicki, Ph.D., University of Oregon, present position: Metabolome Inc. RTP.
24. 1995-2002: Scott Bultman, Ph.D., Oak Ridge National Labs, Present position: Associate Professor, University of North Carolina.
25. 1995-2000: Susan Kendall, Ph.D., University of Michigan, Present position: Health Sciences Librarian, Michigan State University.
26. 1996-2001: Patricia Green, Ph.D. UCLA, Present Position: Scientific writer
27. 1992-1998: Cindy Faust, Ph.D., Baylor College of Med. Present Position, at home parent.
28. 1992-1997: Armin Schumacher, M.D., Rheinisch-Westfälischen Technischen Hochschule, Aachen, FRG. Present Position: unknown.
29. 1994-1996: Shukti Chakravarti, Ph.D., University of Pittsburgh, Present Position: Professor, Department of Medicine, Johns Hopkins University.
30. 1990- 1996: David Threadgill, Ph.D., Texas A & M, Present Position: Professor and Director, Genome Sciences Institute, Texas A & M.
31. 1989- 1994: Henry Tomasiewicz, Ph.D., University of Colorado. Present Position: Molecular Biology Facility Manager, MFG Sciences Center, University of Wisconsin.
32. 1989-1994: Bernadette Holdener-Kenny, Ph.D., University of Illinois. Present Position, Professor, Depart of Biochemistry, State University of New York, Stony Brook.
33. 1988-1989: Carol Lin, Ph.D., Case Western Reserve University. Present Position: Director, Biotechnology Program, Columbia University.
34. 1985: Sylvain Debrot, Ph.D., University of Fribourg, Postdoctoral Fellow. Present Position, Professor and Deputy Dean of the Faculty of Science, University of Fribourg, Switzerland.
35. 1984-1987: Wendy Golden, Ph.D., Medical College of Virginia. Present position: Professor of Pediatrics & Director, Cytogenetics Lab, University of Virginia.

Graduate Students

A. Ph.D. Students

1. 2014-date: John Runge
2. 2010-date: Dan Serber
3. 2010-2013: Rex Williams, Present Position: Nuventra Pharma Sciences
4. 2008-2013: Jeff Gray, Present Position: North Carolina Fertility Clinic
5. 2006-2011: Lucy Williams, Ph.D., present position: Assistant Professor, UNC Chapel Hill
6. 2002-2007: Nathan Montgomery, Ph.D., present position: Assistant Professor, Pathology, UNC Chapel Hill
7. 1999-2003: Jesse Mager, Ph.D., present position-Associate Professor, University of Massachusetts, Amhurst
8. 1998-2002: Tom Gebuhr, P.h.D., present position-Staff Scientist, Novartis
9. 1998-2002: Dana Schwarz, M.D., Ph.D., present position: Emergency Medicine, Kaiser Medical Center, Vallejo, CA
10. 1996-2000: Jianbo Wang, Present position: Assistant Professor, University of Alabama Medical Center
11. 1992-1994: Andy Weng, Visiting Student from University of Chicago, Present Position, Assistant Professor, Brigham Women's Hospital, Boston
12. 1992-1997: Jim Thomas, Ph.D. Present position: Staff Scientist, Genome Technology Branch, National Human Genome Research Institute.
13. 1990-1995: Joe Rabinowitz, Ph.D., Present position: Assistant Professor, Thomas Jefferson

University

14. 1989-1992: Shyam Sharan, Ph.D., Present position: Head, Genetics of Cancer Susceptibility Section, Deputy Program Director, Center for Cancer Research NCI, Frederick.
15. 1986-1991: Lea Hiraoka, Ph.D. Present position: Michael Ht Sia, Inc.
16. 1986-1989: Lee Niswander, Ph.D. Present position: Professor, Colorado Health Sciences Center and Member, Howard Hughes Medical Institute

Professional Meetings/Invited Seminars:

2015

North Carolina Watauga Club, March 17, Chapel Hill
NIH Core Infrastructure Workshop, March 28, St. Louis
Hospital for Sick Kids Research Institute, Toronto, External Review April 27-29.
EMBO Embryonic Placental Interface Workshop, April 5-9, Gottingen, Germany
NIH Office of Research Infrastructure Program Workshop, June 7-9, Bethesda, MD
Roderick Lecture, July 20, The Jackson Laboratory
UC Davis Mouse Mutant Technology Symposium, Oct 13.
Rett Syndrome Research Trust Meeting, November 16-18, Boston, MA
Chair, External Review Committee of Genetics, Reproduction and Development Unit of CNRS/INSERM, Clermont-Ferrand, France.

2014

North Carolina State University, March 17
Lineberger Comprehensive Cancer Center Symposium, April 21-22
Damon Runyon Review, New York City, May 8-9
Rett workshop, UNC Chapel Hill May 12-13
Computational Genomics Workshop, Chapel Hill June 2-4
Society for Developmental Biology, Seattle, July 17-20, Invited Speaker
NIH Comparative Medicine Resource Director's meeting, Bethesda, July 11-14
Damon Runyon Retreat, September 38-October 1, Beverly, MA
Mouse Molecular Genetics Meeting, Asilomar, CA, October 1-3, Invited Speaker
University of Georgia, Genetics Department Seminar, November 19

2013

Dean's Special Seminar, Virginia Commonwealth Medical Center, January 9.
NIH Council of Council's presentation, Washington D.C., January 22.
UT Southwestern Seminar, March 12-13.
MMRRC 10th Annual Meeting, March 18-19.
NIEHS Stem Cell Symposium, invited speaker, April 11-12.
University of Kansas COBRE review, April 17.
University of Colorado Department of Biochemistry review, April 25-26.
Damon Runyon Review, New York City, May 10.
International Mammalian Genome Conference, Session Chair, Sept. 15-19, Salamanca, Spain
Damon Runyon Retreat, Sept. 19-Oct. 1, Beverly, MA
IOM RAC meeting, June 3-4, October 10-11 (Washington D.C., Irvine, CA).
IOM Induction and Annual Meeting, Washington D.C., October 20-21.
Damon Runyon Review, New York City, November 8.

2012

Life Sciences Research Foundation meeting, Princeton, Jan. 28.
Institute of Medicine meeting, San Francisco, Jan. 23-25.

Life Sciences Research Foundation, Princeton, Jan. 28.
 Duke University Seminar, Developmental Biology Program, Feb. 15.
 Institute of Medicine meeting, Irvine, CA April 9-11
 Damon Runyon Foundation, New York City, May 4.
 Institute of Medicine meeting, Washington DC, May 29-30.
 Institute of Medicine meeting, Washington DC, June 28-29.
 Gail Martin Symposium, San Francisco, July 13-14.
 Celgene, New Jersey, Aug. 7.
 Institute of Medicine meeting, Washington DC, Aug. 8-10.
 Evolution of Model Disease Resources, NIH, Aug. 15-16.
 UNC Genetics Retreat, Myrtle Beach, Sept 7-9.
 CanEurCre meeting, Vancouver, Nov. 1.
 Damon Runyon Foundation, New York, Nov. 8.
 Genetics Editorial meeting, Berkeley, CA. Nov. 12.
 CIRM meeting, Los Angeles, Dec. 12.

2011

CanEurCre Board Meeting, Vancouver, Nov. 3.
 GENETICS Editorial Board Meeting, Toronto, Oct. 24.
 Woods Hole Embryology Course: July 12-14.
 Cold Spring Harbor Mouse Course: June 12-14.
 MMRRC meeting, Bar Harbor, ME: May 4-7.
 Cornell University Seminar: April 21.
 Medical College of Wisconsin Seminar: March 30-April 1.

2010

Damon Runyon Postdoctoral Selection Committee, November 12.
 Charles and Lois Epstein Visiting Professor, UCSF October 28.
 International Selection Committee for the Franklin Institute's Bower Prize in Genomics,
 September 27.
 MMRRC Curation Meeting, Bethesda, September 9.
 Jackson Laboratory Board of Scientific Overseers, August 18-21.
 Cold Spring Harbor Mouse Course – lecturer, June 5-7.
 MMRRC satellite meeting, Bethesda, May 11.
 Complex Trait Consortium meeting, Chicago, May 7.
 UNC LCCC 34th annual symposium: Stem Cells and Cancer, April 28-29.
 University of California, San Francisco Biomedical Sciences seminar, April 21.
 Mouse Phenotyping Workshop, Toronto, April 8-9.
 Columbia University, Department of Genetics Seminar, April 6.
 Life Sciences Research Foundation Review Committee, Feb. 13.
 Jackson Laboratory Board of Scientific Overseers, Feb. 8-10.
 NCRR Council meeting, Bethesda, Invited Speaker, Jan. 26.

2009

Northwestern University, December 9.
 University of Pittsburgh Biological Sciences, November 9.
 International Mammalian Genome Society, San Diego, Invited speaker, November 1-4.
 American Society for Nephrology, Epigenetics Conf., San Diego, Invited speaker, Oct. 27-28.
 Mutant Mouse Regional Resource Center meeting, Bethesda, speaker, Oct. 15-16.
 UNC Genetics Department Retreat, Organizer, September 25-27.

Jackson Laboratory Board of Scientific Overseers Meeting, August 11-15.
 National Academies Stem Cell Meeting, August 7.
 Marine Biological Laboratory, Woods Hole Embryology Course, Invited Lecturer, July 10-13.
 Cold Spring Harbor Mouse Embryology Course, Invited lecturer, June 5-9.
 Lineberger Comprehensive Cancer Center's 33rd Symposium, April 29-30.
 Skirball Institute, New York University, April 24.
 Washington University – Quad seminar, April 8.
 Roswell Park Cancer Center, March 26.
 Sloan-Kettering Institute, New York, March 5.
 Jackson Laboratory Board of Scientific Overseers Meeting, February 09-11.
 Cincinnati Children's Hospital, February 4.
 Baylor College of Medicine, January 23.

2008

Institute for Research in Immunology and Cancer, University of Montreal, Nov. 10.
 Janelia Farms Workshop on Chromatin and Pluripotency, Invited speaker, Oct. 5-8.
 3rd Annual Atlantic coast Chromatin Conference, Invited speaker, Chapel Hill, NC, Sept. 19.
 7th Annual UNC Genetics Retreat, Organizer, Atlantic Beach, NC. Sept 12-14.
 RTP Embryonic Stem Cell Oversight group, Raleigh, NC, Sept. 8.
 Jackson Laboratory Board of Scientific Overseers Meeting, Chair, Bar Harbor, ME, August 13-15.
 Induced Mutant Repository Advisory Board, Jackson Laboratory, Bar Harbor, ME, August 12.
 7th Annual Mount Desert Island Stem Cell Symposium, Bar Harbor, ME, August 8-9, invited speaker.
 Society for Developmental Biology Annual Meeting, Philadelphia, July 27-30.
 Marine Biological Laboratory, Embryology Course lecturer, July 17.
 Cold Spring Harbor Mouse Course, Invited Lecturer, June 8.
 Mouse Mutant Regional Resource Center Meeting, Bethesda, MD., speaker, May 22-23.
 Frontiers of Epigenetics, Genetics Society of England, Norwich, UK. May 10, Invited speaker.
 Kansas University Medical Center, May 1.
 National Human Genome Research Institute, April 24.
 Distinguished Lecture Series: NCI Frederick, March 21.
 UNC Pathology Grand Rounds, January 17.
 Genetics Society of America, San Diego, January 5-8.

2007

Stem Cell Program seminar, UC Irvine, December 12.
 Cell Biology Seminar, University of Massachusetts Medical Center, November 28.
 Jackson Laboratory Trustees meeting, Nov. 12.
 American Academy of Arts and Sciences, Induction. October 6.
 7th International Symposium on Organogenesis and Epigenetics, Keynote speaker, October 5.
 UNC Genetics Department Retreat, Asheville, NC. September 6-8.
 Eva Eicher Retirement Symposium, The Jackson Laboratory, Bar Harbor, ME. September 4-6.
 Keck Foundation, August 27.
 Jackson Laboratory, Board of Scientific Overseers, Bar Harbor, ME. August 15-18.
 National Academies stem cell meeting, August 13-14.
 Gordon Conference – Epigenetics, Plymouth, NH. August 5-10. Invited speaker.
 Building a Better Mouse II, Vanderbilt University, July 12-14. Invited Session Chair and Speaker.
 Cold Spring Harbor Mouse Course Lecturer, June 12.
 Cold Spring Harbor 25th Mouse Course Anniversary Symposium, June 9-10.
 Jackson Laboratory Trustees Meeting, May 24.
 Epigenetics Conference, EMBL Heidelberg, invited speaker, May 1-6.

NIDDK Cell and Developmental Biology seminar, NIH, May 19.
Pleiades Promoter Project meeting, Vancouver, May 12.
National Academies stem cell meeting, March 5-6.
ProNai Scientific meeting, Detroit, February 25-26.
Jackson Laboratory Trustees Meeting, February 15.
Developmental Biology Seminar, Vanderbilt University, February 12.
Frontiers in Biological Research Lecture, Stanford University, January 31.

2006

North Carolina House Select Stem Cell Research Committee, "Guidelines for Human Embryonic Stem Cell Research, December 13.
Jackson Laboratory Trustees meeting, November 16-17.
National Academy of Sciences: Intersection between emerging areas of human embryonic stem cell research and the NAS guidelines, November 7-8.
UNC Postdoctoral Services: Interview and Negotiating at a Research University, October 9.
Genetics Community Outreach, Chapel Hill. September 14-15.
Cold Spring Harbor Mouse Molecular Genetics, Invited Speaker, August 30 – September 2.
Jackson Laboratory Board of Scientific Overseers meeting, August 16-18.
International Society for Stem Cell Research, Toronto, June 28- July 1.
Federation of International Mouse Resource Centers, Japan. May 22-24.
Washington University Genetics Seminar, April 27.
Models of Human Cancer at the Edge of Discovery Symposium, Lineberger Comprehensive Cancer Center. Session Chair, April 24-25.
Cell & Developmental Biology Graduate Student seminar, Duke University, April 5.
John H. Blaffer Lecture, MD Anderson Cancer Center, March 21.
Jackson Laboratory Board of Scientific Overseers Meeting, February 13-14.

2005

Graduate Student Invited Speaker, Department of Cell and Developmental Biology, University of Pennsylvania, Dec. 12.
National Academies Stem Cell meeting, Bethesda. November 14.
Federation of International Mouse Resources/Mutant Mouse Regional Resource Centers Organizer, annual meeting, Bethesda, Oct 9-12.
Mouse Molecular Genetics, Heidelberg, Meeting Organizer, September 28-October 1.
Jackson Laboratory Board of Scientific Overseers meeting, August 17-19.
Society for Developmental Biology, Board of Trustees meeting organizer, San Francisco, July 27-30.
Cold Spring Harbor Molecular Embryology of the Mouse, Invited speaker, June 8-10.
Federation of International Mouse Resources, Rome, April 20-22.
NIH Knockout mouse project, Bethesda, Session organizer on ES cells and overview presenter, March 24-25.
25th Great Lakes Mammalian Development meeting, Toronto, Invited Speaker, March 6-7.

2004

National Academies of Sciences: Organizer and Session Chair- Forum on Working Guidelines for Human Embryonic Stem Cell Research, Washington D.C., October 12-13.
International Mouse Genome Meeting, Seattle, October 18-21.
University of Pittsburgh, Department of Biology, October 5.
Cold Spring Harbor Mouse Molecular Genetics, September 1-5.
Jackson Laboratory, 75th anniversary symposium, August.
American Heart Meeting, Stevenson Washington, invited speaker, July 16-18.

Cold Spring Harbor Mouse Course, June 20-24, 2004.
 Nathans McCusick Institute for Human Genetics, Johns Hopkins University, May 3.
 Lineberger Comprehensive Cancer Symposium on Epigenetics, Session Chair, April 20.
 MMRRC meeting, Bethesda, March 31-April 1.
 Genome Sciences Program, The University of Tennessee Health Sciences Center, Memphis, March 1.
 Cell and Dev. Biology Program, University of Colorado Health Sciences Center, February 18.
 Board of Scientific Overseers seminar, The Jackson Laboratory, February 12.
 University of Oregon Health Sciences University, January 5.

2003

Molecular Biology Society of Japan, Kobe, invited speaker, December 10-14.
 Emory University, Department of Human Genetics, November 17.
 Carolina Living Legends, invited speaker, November 10.
 Advances in Nanostructural Genomics, Jackson Labs, Oct. 15-18, invited speaker.
 UNC Genetics/Duke Cell Biology Joint Faculty Retreat, Pinehurst, NC, Oct 10-12.
 Banbury Conf.: Functional Annotation of the Mouse Genome, Session Chair, September 30-Oct 1.
 Mouse Molecular Genetics, EMBL Heidelberg, Conference Organizer Sept. 3-7.
 Society for Developmental Biology, Board of Trustees organizer, July 30-Aug 3.
 Stowers Research Institute, Kansas City, June 8.
 Fred Hutchinson Cancer Center, Seattle, January 13.

2002

University of Alabama at Birmingham, December 12.
 University of Georgia, December 4.
 Yale University, November 19.
 Case Western Reserve, PKD meeting, Oct. 24-25.
 Women in Science Panel Discussion, UNC-Chapel Hill, October 9.
 Cold Spring Harbor Mouse Course, June 22.
 Columbia University, May 6.
 Carolina Center for Genome Sciences, Inaugural Seminar Series, April 19.
 UCLA, Molecular, Cell and Developmental Biology, April 5.
 Lineberger Cancer Symposium: Development and Cancer, Invited Speaker, March 27-28.
 University of Tennessee, Genome Sciences Program, February 13.
 University of Pennsylvania, Cell and Developmental Biology, February 11.
 Cancer Genetics Program, UNC-Chapel Hill, January 22.
 Memorial Sloan-Kettering Cancer Center, January 11.
 Department of Medicine Retreat, UNC-Chapel Hill, January 8.

2001

University of Illinois at Chicago, November 20.
 North Carolina Medical Genetics Association Annual Meeting, Invited speaker, September 28.
 Mouse Models, Jackson Laboratory, Bar Harbor, Invited Speaker, August 1-5.
 Society for Developmental Biology 60th Annual Meeting, Seattle, WA, Board of Trustees, July 20-23.
 Workshop: Genes underlying ENU mutagenesis phenotypes, Great Falls, Montana, Invited speaker, July 12-15.
 Drug Development in a Genetically Informed Environment, Research Triangle Park, Conference Chair, June 15.
 The Stuart Stone Memorial Lecture, FASEB Conference on Thrombin and Vascular Medicine, Whitefish, Montana, June 9-14.
 Society for Develop. Biology, Southeast meeting, invited speaker and session chair, May 23-25.

Grand Rounds, Depart. of Pathology & Laboratory Medicine, UNC-Chapel Hill, May 3.
 Albert Einstein College of Medicine, April 24.
 Center for Gastrointestinal Biology and Disease Retreat, April 21.
 Center for Research on Chronic Illness, UNC-Chapel Hill, April 16.
 Genomics Symposium: Genes to Drugs for the 21st...or...22nd? Century, Invited speaker, Research Triangle Park, NC. April 12.
 Lineberger Comprehensive Cancer Symposium, Session Chair, Cancer Genetics, April 9-10.
 Department of Cell Biology, UNC at Chapel Hill, March 28.
 North Carolina Biotechnology Center, Research Triangle Park, March 26.
 Mini-Medical School presentation for the general public, UNC, March 15.
 Duke University, June 20.

2000

NIEHS, December 15.
 Kimmel Cancer Center, Jefferson University, November 20.
 Department of Biology, UNC at Chapel Hill, November 13.
 International Mammalian Genome Society, Narita, Japan, Invited Session Chair, Nov. 4-10.
 Controversies in Science: A Symposium for Journalism, North Carolina Association for Biomedical Research, Invited Panelist, October 26.
 Rotary Club of Greensboro, NC. October 18,. Invited speaker.
 Mutagenesis of the Mouse Genome, Athens, GA, Sept 6-9, invited speaker.
 UNC-Chapel Hill Perinatal Basic Science Symposium, September 6, Invited speaker.
 Animal Genomics Symposium, N.C. State, Raleigh, August 17-18, invited speaker.
 Cold Spring Harbor Mouse Course, June 21-25.
 ASPET Functional Genomics Symposium, Boston, June 4, invited speaker.
 Children's Hospital of Philadelphia, March 8-9.
 Pew Scholars Meeting, Puerto Vallarta, January 8-13.

1999

National Institute of Child Health and Human Development, NIH November 29.
 International Mammalian Genome Society, Invited Symp. Chair on Develop. Genetics, October 31-November 3.
 Case Western Reserve University, Department of Biology, September 27.
 University of Minnesota Medical Center, September 25.
 University of North Carolina, Chapel Hill, September 20.
 National Cancer Institute, Frederick Facility, September 10.
 Incyte, Palo Alto, CA, September 10.
 PPars meeting, Villar, Switzerland, Invited speaker, July 20-22.
 Cold Spring Harbor Laboratory Mouse Course, June 25.
 Society for Developmental Biology, Charlottesville, VA. Invited speaker, June 13-17.
 Director's Distinguished Scientist Seminar, The Jackson Laboratory, June 3.
 Vanderbilt University School of Medicine, May 3-4.
 Great Lakes Mammalian Development Conference, April 9-11.
 University of Florida, Center for Mammalian Genetics, Gainesville, March 17.
 University of California, San Francisco, University-wide seminar, January 20.
 The Carnegie Institute of Embryology, Baltimore, MD., January 11.

1998

Wexner Research Institute, Ohio State University, November 19.
 Parke Davis Laboratory for Molecular Genetics, Alameda, CA, October 30.

Moffitt Cancer Center, Tampa Florida, September 23.
 Mouse Molec. Genetics, Cold Spring Harbor, Invited Speaker and Session Chair, September 2-6.
 Cold Spring Harbor, New York, June 13.
 Parke-Davis Pharmaceuticals, Ann Arbor, Michigan, June 4.
 Cornell University Medical College, New York City, May 15.
 Amgen, Thousand Oaks, CA. April 30-May 1.
 Great Lakes Mammalian Development Meeting, Toronto, Canada, April 18-20.
 Keystone Conf, Vertebrate Develop. Invited speaker & session chair. Steamboat Springs, April 3-8.
 Mayo Clinic, Department of Biochemistry and Molecular Biology, March 24.
 Cornell University Genomics Initiative, March 12.
 Case Western Reserve University, Department of Genetics, February 23.
 Rammelkamp Research Institute, MetroHealth Systems, Cleveland, February 17.
 University of Chicago, Department of Human Genetics, January 26.
 Case Western Reserve University, Cell and Molecular Biology, January 14.
 Case Western Reserve University, Department of Pharmacology, January 13.

1997

Cornell University, Ithaca, Department of Genetics, December 8-9.
 Roswell Park, Institute Seminar, November 19-20.
 University of Washington, Seattle, Department of Genetics, November 12-13.
 Oak Ridge National Labs, Symposium in honor of 50 years of work by the Russell's, November 7,
 invited speaker.
 Washington University, St. Louis, Donald Shreffler Memorial Lecture, October 9-10.
 Weizmann Institute, Gene Targeting Workshop, Invited speaker, September 20-24.
 Duke University, Department of Genetics, September 17-18.
 NIDDK PKD Workshop, September 10-11, 1997, Arlington, VA, Invited speaker.
 M.D. Anderson Cancer Center, Houston, July 9.
 Cold Spring Harbor Laboratory, June 14.
 European Science Foundation: Workshop on "The Genetic Control of Vertebrate Development",
 Villefrance-sur-mer, France, April 29-May 4. Invited speaker.
 Pfizer lecture, Institute Research Clinical Medicine, University of Montreal, April 13-14.
 Great Lakes Mammalian Development Meeting, Toronto, Canada, April 10-13.
 Department of Molecular Genetics and Cell Biology, University of Chicago, April 10-12.
 Molec. Medicine Series, Depart. of Medicine, Case Western Reserve University, March 7.
 Hospital for Sick Children, Toronto, Developmental Biology Program, February 24.
 Duke University, Department of Genetics, February 11.
 Princeton University, Department of Molecular Biology, January 30.

1996

Department of Pathology, Case Western Reserve University, December 16.
 Department of Pharmacology, Case Western Reserve University, December 10.
 Baylor College of Medicine, Department of Human and Molecular Genetics, November 26.
 Skin Disease Research Symposium, Case Western Reserve University, November 15.
 Baton Rouge, LA Jr High School Students, "On Becoming a Scientist", November 10.
 American Society of Nephrology conference on Renal Developmental Biology, November 6-9,
 New Orleans. Keynote speaker "Frontiers in Developmental Biology".
 Cancer Center, Case Western Reserve University, October 18.
 University of Pittsburgh, Department of Biological Sciences, October 14.
 Sunflower Develop. Genetics Symposium, Kansas City. September 28-29, Invited speaker.

Banff 96: The 13th Rochester Trophoblast Conference and the Thomas G. Egmann Memorial Symposium on Reproductive Immunology, Invited speaker, September 8-12.
 North Carolina Workshop on Embryonic Stem Cells, Invited speaker, August 8.
 Society for Study of Reproduction, Knoxville, Invited speaker, July 27-30.
 American Society for Reproductive Immunology, Plenary speaker, June 27-30.
 Cold Spring Harbor Laboratory, June 15.
 Great Lakes Mammalian Development Conference, Toronto, April 12-14.
 Keystone Symposium: Vertebrate Embryogenesis, Hilton Head, Feb. 8-11.
 Cell and Molecular Biology, Case Western Reserve University, January 24.
 National Institutes of Health (NIDDK), January 18.

1995

University of California, San Francisco, December 18.
 Children's Hospital Research Foundation, Cincinnati, December 13.
 State University of New York at Stony Brook, December 7.
 Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, November 29.
 Ninth International Workshop on the Mouse Genome, Ann Arbor, MI, November 12-15.
 Richard Akeson Memorial Lecture, University of Cincinnati, June 2.
 Pew Scholars Reunion Meeting, San Juan Puerto Rico, March 15-19.
 Cornell University Medical College, Cell Biology Program, March 6.
 University of Western Ontario, Molec. Biology Program, Feb. 9.
 University of Pennsylvania, Department of Biology, Feb. 2.
 Stanford University Medical Center, January 26.

1994

Cleveland Clinic Research Foundation, December 13.
 Columbia University, College of Physicians & Surgeons, Dec. 7.
 Vanderbilt University, November 14.
 Gordon Research Conference: Mammalian Gametogenesis and Embryogenesis, July 30 - August 5, Invited speaker.
 Serrano Symposium on Implantation, Boston, July 13-18, invited speaker.
 Teratology Society, Symposium: Molecular and Cellular Processes of the Pregastrulation Embryo, Invited Speaker, Puerto Rico, June 25-30.
 Digestive Disease Week, Symposium: Regulation of Signal Transduction by Tyrosine Kinases, Invited Speaker, New Orleans, May 15-18.
 American Cytogenetics Conference, Wintergreen, VA: April 17-23, Keynote speaker.
 Cleveland Clinic Research Foundation: March 18.
 Department of Energy, February 23.
 Cell and Molecular Biology, CWRU, January 26.
 University of Michigan, January 24.

1993

University of Kansas Medical Center, October 11.
 The Jackson Labs: June 15
 Ridge National Labs, August 23.
 University of Colorado, Dept. Cell, Molecular and Develop. Biology
 April 29: "Genetics of Early Embryo Survival in the Mouse"
 April 30: "Recent Advances in Mouse Developmental Genetics".
 Great Lakes Mammalian Development Conference, Toronto, 3/26-3/28/93.
 University of Chicago, Dept. Molecular Genetics and Cell Biology, Jan. 28-29.

1992

Sixth International Workshop on Mouse Genome Mapping, Buffalo, October 11-15.
8th Workshop on Molecular Genetics of the Mouse, Dourdan, France, September 7-11.
Roche Institute for Molecular Biology, April 22.
Cell and Molecular Biology Training Program, CWRU, April 15.
Great Lakes Mammalian Development Conference, Toronto, March, (invited speaker).

1991

Eli Lilly Co., Indianapolis, November 22.
University of Arizona, Tucson, Department of Cell and Molecular Biology, October 28-29.
Fifth International Workshop on Mouse Genome Mapping, The Netherlands Cancer Institute, Amsterdam, October 14-18.
Seron International Symposium "Preimplantation Embryo Development", Boston, August 15-18, Invited speaker and Chair of Session entitled 'Genetics of Embryo Development'.
Cornell University, Ithaca, May 6.
Case Western Reserve University, Dept. Biochemistry, May 3.
NIH Perinatal Emphasis Res. Centers Annual Meeting, Cleveland, April 22, invited speaker.
Pew Alumni Meeting, Grand Cayman Islands, 4/5-9/91, invited speaker.
Edison Animal Biotechnology Center, Ohio University, March 26.
Great Lakes Mammalian Development Conference, Toronto, March 22-24, invited speaker.
Case Western Reserve University, Dept. Pathology, Feb. 22.
Upjohn, Kalamazoo, Michigan, Feb. 18.

1990

NIH meeting "Transgenic Animal Model Resources", November, 13-14, invited speaker.
Cold Spring Harbor: Molecular Biology of the Mouse, Sept., Poster presentation.
Gordon Conf.: Mammal. Gametogenesis & Embryogenesis., July, 29- August, Invited speaker.
University of Minnesota, Institute of Human Genetics, May 3.
Case Western Reserve University, Dept. Pharmacology, April 27.
Great Lakes Mammalian Development Conference, Toronto, April, invited speaker.

1989

Institute for Developmental Research, Children's Hospital, Cincinnati, Nov. 19.
Session Chair: Markey Symposium: Frontiers in Developmental Genetics, Sept. 10.
Jackson Labs., "Mouse Develop. Genetics", Keynote speaker, Bar Harbor, September 14-17.
Great Lakes Mammalian Develop Conference, Toronto, May 5-7, invited speaker.
Edison Animal Biotechnology Center, Ohio University, April.
Pew Scholars Meeting, March 6-9, Ixtapa, Mexico, invited speaker.
UCLA Symposium, Transgenic Animals in Medicine & Agriculture, Taos, NM, January, 28-February, 3, invited speaker.

1988

Metro General Hospital, Cleveland, Topics in Basic Biological Sciences, December 7.
Department of Pediatrics, Grand Rounds, CWRU, October 6.
Cold Spring Harbor, "Molecular Biology of the Mouse," August, poster presentation.
Gordon Research Conference, July, 1988, Poster presentation.
Ontario Cancer Research Institute, Toronto, June 16.
Frederick Cancer Research Facility, National Cancer Inst. May 17.
CWRU Cancer Center Retreat, Invited Speaker, May 9.
Great Lakes Mammalian Development Conference, Toronto, March 26-27, Invited Speaker.

Pew Scholars Meeting, March 7-10, San Francisco, Invited speaker.
Cold Spring Harbor Winter Symposium, "Molecular Analysis of Mouse Development", Feb. 28-29, Invited Speaker.

1987

Amer. Soc. Cell Biol., St. Louis, Workshop: Mammalian Development, Nov. 16-20, Invited Speaker.
Case Western Reserve University, Dept. Microbiology and Molecular Biology, Nov. 11.
Ludwig Institute for Cancer Research, Montreal, April 9-10.
Pew Scholars Meeting, March 9-13, 1987, Tampa, Florida, Invited speaker.
Great Lakes Mammalian Development Conference, Toronto, March 7-8, invited speaker.
Northwestern University, February 19-20.

1986

University of Wyoming, December 5-8.
Gordon Research Conference, August, Poster Presentation.
March of Dimes Symposium, St. Petersburg, May 1-2, invited speaker.
Pew Scholars Meeting, March 12-15, Phoenix, Invited speaker.
Case Western Reserve University, Dept. Biol., February 20.

1985

Amer. Soc. Cell Biol., Atlanta, Workshop: Biology of Preimplantation Development, November, Invited speaker.
University of Cincinnati, November 12-13.
In vitro Fertilization & Embryo Culture, Univ. of Wisconsin, August 20-24, invited speaker.
Midwest Regional Develop. Biol. Conf., May 16-18, Invited Speaker.
NIH Workshop: Genetics of Mammalian Embryogenesis, April 25-27, Invited Speaker.

1984

European Develop. Biol. Congress, September, 2-7, Invited speaker.
Gordon Research Conference, August 20-24, Invited speaker.

Patents

US Patent Number 6835867
Issue date: December 28, 2004
Allelic series of genomic modifications in cells

US Patent Number 6080910
Issue date: June 27, 2000
Transgenic knockout animals lacking IgG3

Grants:

A. *Present Funding* (Direct costs listed)

2U42OD010924-16 (T. Magnuson) 09/30/1999-02/28/2020
NIH \$1,399,761

A Carolina Center to Characterize and Maintain Mutant Mice
To meet future demands for MMRRC services and improve upon existing technologies, this project aims to streamline procedures to import, archive and distribute genetically modified mouse strains.

Role: PI

5R01GM101974-27 (T. Magnuson) 12/01/1989-03/31/2016
NIH/NIGMS \$361,103

Albino Deletion Complex and Early Mouse Development

Many human diseases are the result of incorrect interpretation of genome sequence due to abnormalities in the structure of chromatin that packages DNA in the nucleus (epigenetics). Studies on chromatin remodeling proteins and non-coding RNAs have demonstrated their ability to disrupt histone-DNA contacts and reposition nucleosomes. Consequently, these complexes are critical in regulating global gene expression. Genetic experiments that elucidate the biological specificity of these proteins and non-coding RNAs, along with the abnormal outcomes associated with disease states when inappropriately expressed, ultimately may lead to targeted epigenetic disease treatments.

Role: PI

Competitive Renewal Reviewed October 2015 and scored 10% - funding decision waiting for January, 2016 Council.

5R01HD036655-16 (T. Magnuson) 01/01/1999-04/30/2019
NIH/NICHD \$307,514

Developmental Gene Regulation via Chromatin Remodeling

Progression through developmental stages requires complex interactions of transcription factors and regulatory elements to achieve correct temporal and spatial patterns of requisite gene expression. Biochemical and genetic studies have implicated epigenetic modifications of chromatin structure as an important mechanism in regulation of gene transcription. Alteration of nucleosome conformation and/or position (termed chromatin remodeling) within gene regulatory elements serves to promote or restrict gene expression through regulating accessibility of trans-acting transcription factors.

Role: PI

5P30CA016086-39 (N. Sharpless) 06/01/1997-11/30/2015
NIH/NCI \$4,587,892

Cancer Center Core Support Grant

To provide advice on the Center's continued scientific and intellectual development and strategic planning, including program priorities, recruitment, core facilities and use of developmental funds; develop and promote individual and collaborative research projects, especially translational research; and serve as senior scientific advisor and mentor for program members.

Role: Program Leader for Cancer Genetics

5UL1TR001111-02 (J. Buse) 09/26/2013-04/30/2018
NIH \$7,324,022

North Carolina Translational & Clinical Sciences Institute (NC TRaCS)

The Clinical and Translational Science Awards (CTSAs) program creates a definable academic home for clinical and translational research. CTSA institutions work to transform the local, regional, and national environment to increase the efficiency and speed of clinical and translational research across the country.

The CTSA Consortium has five Strategic Goals to enhance: 1) National Clinical and Translational Research

Capability, 2) Training and Career Development of Clinical and Translational Scientists, 3)

Consortium-Wide Collaborations, 4) the Health of our Communities and the Nation, and 5) T1 Translational Research.

Role: Program Leader for Translational Technologies

1R01GM105785-02 (W. Sun) 05/15/2014-04/30/2018

NIH/NIGMS \$250,009

Statistical Methods for RNA-seq Data Analysis

This research project aims to overcome limitations of gene expression microarrays and the natural variation of gene expression across tissues or developmental stages by joint study of germline DNA polymorphisms and allele-specific expression (ASE) obtained from RNA-seq data. More specifically, we will study the genetic basis of ASE in both normal and tumor tissues, dissect genetic and parent-of-origin effects on ASE in human cell lines, and identify genes that escape X inactivation in both mouse reciprocal cross and human cell lines.

Role: Co-Investigator

5046877 (B. Philpot) 02/01/2013-01/31/2016

Rett Syndrome Research Trust \$776,992

A Chemical Genetic Approach for Activating the Dormant Gene Associated with Rett

This project proposes a drug screen to identify compounds that can unsilence the dormant MeCP2 gene copy in brain cells (neurons), with the expectation that this will restore proper function of MeCP2 in these neurons and lead to a breakthrough treatment for individuals with Rett syndrome.

Role: Investigator

Not Assigned (T. Magnuson/F. Pardo Manuel de Villena) 01/01/2015-01/14/2016

Rett Syndrome Research Trust \$229,547

Systems Genetics Approach toward Understanding Regulation of MeCP2 Expression

Role: Co-PI

B. Past Funding

R01-HD58341, AARA funding, years 1-2, Magnuson (PI), Project dates: 08/01/2009-07/31/2011,

Agency: NICHD \$367,352 per year Total Costs, Title: SWI/SNF and Yolk Sac Development

NIH T32 Magnuson (PI); Project Dates: 07/01/05 – 06/30/10; Agency: NICHD \$321,444 Direct

Costs Title: UNC Developmental Biology Training Program (transferred grant to Dr. Vicki Bautch)

U54 MH66418. Magnuson (PI project IV), Project Dates: 10/1/02-9/30/07. Agency: NIMH

\$200,659 per year direct costs for project IV. Center Title: Gene-Brain-Behavior

Relationships in Autism/ Project IV Title: Gene Dissection of Autism-Related Behaviors in Mice

R01-HD41383 Magnuson (PI), Project Dates: 01/01/02 – 12/30/07

Agency: NICHD \$1.25M Total direct costs. Title: Allelic Series of Genomic Modifications in ES Cells

RR017762-01 Magnuson, T. (PI), Agency: NIH, Project dates: 04/01/03-03/31/04, \$272,757

Current year direct costs, Title: SpectruMedix 9610 Mutation Discovery System, Purpose: Equipment Grant

CCR420912 Magnuson, T. (PI), Agency: Center for Disease Control

Project Dates: 09/30/01-9/29/02, \$809,868 Direct costs, Title: Animal Modeling of Human Susceptibility to Complex Disease. Purpose: Equipment Grant

NIH P50: Pathophysiology of Recessive Polycystic Kidney Disease, PI. Ellis Avner 9/30/99-

9/29/04, Project 2: PI, T. Magnuson, Cellular Signaling Pathways in ARPKD, Total Direct Costs: \$60,000

NIH R01 HD26722, Role of Egfr Receptor in Mammalian Development P.I., Terry Magnuson,

July 1, 1990 - June 30, 1996, \$850,323 total direct costs, July 1, 1996 - June 30, 2002, \$965,180 total direct costs.

NIH T32 HD07104, Training in Abnormal and Normal Development P.I. Terry Magnuson 7/1/97 - 6/30/01 \$1,154,754 total direct costs.

NIH PO1 NS32779, Genetic Approaches to Analysis of the Nervous System 5/1/95-4/10/00
SubProject 3: \$544,801 total direct costs. Gene Targeting Core: \$712,080 total costs

Human Frontiers: Molecular basis of an imprinting center in man and mouse. (Research Consortium, B. Horsthemke (Germany), H. Ceder (Israel), R. Nicholls (USA), T. Magnuson (USA). July 1, 1995 – June 30, 1998, \$60,000 direct costs to T. Magnuson

March of Dimes, Embryology of Developmental Mutants, P.I. Terry Magnuson
June 1, 2000-May 31, 2002, \$72,000 total direct costs.
June 1, 1998-May 31, 2000, \$72,000 total direct costs.
July 1, 1995-June 30, 1997, \$72,000 total direct costs.
July 1, 1993-June 30, 1995, \$72,000 total direct costs.
July 1, 1991-June 30, 1993, \$70,000 total direct costs.
July 1, 1989-June 30, 1991, \$77,000 total direct costs.

NIH R01, Role of IgG subclass in anti-polysaccharide antibody function: Molecular approach, 4/92 - 3/96, \$620,000 total direct costs. (P.I. John Schreiber, Co-P.I. Terry Magnuson, 10% effort)

Ohio Edison Project, Animal Models of Human Diseases, 1988-1993 total direct costs: \$175,000.

NIH Center Grant: NEOMAC (PI: R. Moskowitz), Sub Project: Transgenic Mice (PI: T. Magnuson), November, 1987-December, 1990. \$101,502 total direct costs.

NIH R01, Oligosyndactyly: A mutation Affecting development. July, 1985-June, 1989, \$400,470 total direct costs.

March of Dimes, Basil O'Connor, 7/85-6/87, \$50,000 total direct costs

Pew Scholars Award, \$200,000, June 1, 1985-May 31, 1989.

Biomedical Research Support Grant, CWRU, \$10,000 (1986)

NIH, New Investigator Award, \$107,000, July, 1982-June, 1985

Professional Service:

Societies:

AAAS, Genetics Society of America, Society for Developmental Biology

Editorial Boards:

Senior Editor, *Genetics*, 2009-date
Board of Reviewing Editors, *Science Signaling*, 2009-date
Associate Editor, *Genetics*, 2006-2009
co-Editor-in-Chief, *-genesis: The Journal of Genetics and Development*, 2000-2009.
Mammalian Genome, 1995-2010
Development, 1986-1993, 1999-2013
Guest Editor: "Vertebrate Gastrulation & Axial Patterning", *Develop Genetics*, July, 1995
CRC Yearbook in Developmental Biology, 1987-1991

Departmental/University Service:

1. University of North Carolina:

Board of Directors, Carolina Research Venture Fund (2015-date).
Carolina Value Solution Team Member (2015-date)
Member, UNC Select Agent Communications Task Force (2014-date)
Member, Search Committee for Senior Vice President for Academic Affairs for the UNC system.

Member, UNC School of Medicine IT Task Force and committee (2013-date).

Member, Information Services Oversight Committee for UNC Health Care (2012-date)

Member Search Committee for Assistant Vice Chancellor for Research Computing, UNC Chapel Hill (2012)

Member, UNC Industry Task force (2011-2013).

Morehead Planetarium and Science Center – Faculty Advisory Council (2011-date).

Member, Provost’s Task Force on Data Storage (2011-2012).

UNC’s CTSA Executive Committee (2010-date).

co-Chair, Search Committee for Director of the Offices of Sponsored Research, UNC Chapel Hill (2010-2011).

Member, UNC Health Care Leadership Team (2010-date)

Member, Selection Committee for UNC Berryhill Lecturer (2008-date).

Member, Search Committee for Vice Chancellor for Research, UNC Chapel Hill (2010-2011).

Neuroscience Center Five-Year Review Committee (2010).

Chair, Five-Year Review Committee for UNC Institute of Applied Material Sciences (2009).

Chair, Coordinating Committee for University Research Computing (2009-date).

Chair, Genetics and Genomics University Cancer Research Fund theme team (2008-date).

Chair, Search Committee for Assistant Chancellor for Research Computing (2008).

Chair, Provost’s Task Force on Research Computing (2008).

Member, Search Committee for Director of the Biomedical Ethics Center, UNC (2008).

Founding Chair, UNC Embryonic Stem Cell Research Oversight Committee (ESCRO), 2006-2014

Member, Dean’s Grant Review Committee for “Investments for the Future”

Member, Dean’s Committee on Health System and School of Medicine Master Plan, School of Medicine, 2006-2007.

Chair, Search Committee for Department of Biochemistry and Biophysics Chair, 2006.

Chair, Five year review of Department of Cell and Developmental Biology Chair, Fall, 2005.

School of Medicine: Strategic Planning Taskforce on Research, Spring, 2005.

Dean’s committee on 1% withhold, 2004-2005.

UNC Health Care System Strategic Task Force Summer/Fall, 2004.

Five-year review of Neuroscience Centre Director, Summer 2004.

Planning Committee for new Genome Sciences Building, College of Arts and Sciences, 2004-

Planning Committee for new Genetic Medicine Building, School of Medicine 2002-present.

Member, President’s Search committee for Dean School of Medicine, CEO UNC Health Care, and Vice Chancellor for Medical Affairs 2003-2004.

Member, Advisory Board: Center for Complementary and Alternative Medicine, UNC –Chapel Hill, 2003-date.

Member, Advisory Committee to develop initial plans for Carolina North (UNC’s new northern campus).

Judge, John B. Graham Student Research Day - 2003, 2005.

Member, Task Force Committee for UNC-CH/NC State joint Department for Biomedical Engineering, Spring, 2002.

Member, Five-year review committee for UNC Gene Therapy Center, 2/2002.

Committee to select School of Medicine’s nominations for University Distinguished Professorships, Fall, 2001, 2005.

Member of Search committee for Director of the Division of Laboratory Animal Medicine, 2001, 2003.

Oversight committee for NIH Mouse Mutant Resource facility, 2000 to date.

Faculty Director, Animal Models Core facility, 2001-2002.

Oversight committee for Microarray facility, Sequencing facility, Genotyping facility: 2000 to date.

Chair of Genetics faculty search committee: 2000 – 2006.
 Member of Genomics faculty search committees: 2000 – 2006.
 Member of Internal Advisory Board for “CF Therapeutic Targets Program” 2001 to date.
 Member, Program Planning Committee, Lineberger Comprehensive Cancer Center 2001-date.
 MSTP Admissions Committee, 2000-date.
 Member, Cardiovascular Search Committee, Department of Medicine, Fall, 2000.
 Member of Internal Advisory Board for the North Carolina Mental Retardation and
 Developmental Disabilities Research Center, July, 2000 to date.
 Member of Internal Advisory Board for Center of Excellence in Gene Therapy for Pulmonary and
 Hematologic Disorders, July, 2000 to date.

2. Case Western Reserve University

Search Committee for Director, Animal Resource Center, CWRU, Spring, 2000.
 Search Committee for Vice Chair for Research, Pediatrics, CWRU. Spring, 1999.
 Chair, Search Committee for Developmental Geneticist, Fall, 1998.
 School of Medicine, Promotion and Tenure Committee, 1996-1999.
 Committee to review MS program in Genetic Counseling, December, 1997.
 Genetics Training Grant Steering Committee, 1996-2000.
 Genetics Training Grant, Ghostwriter, May, 1995.
 Department of Genetics Steering Committee, 1994-2000.
 Department of Genetics Second Year Graduate Review Committee, Fall, 1994.
 Chair, Search Committee for Mouse Developmental Geneticist, Spring, 1994.
 CWRU/CCF joint committee to review incorporation of Cleveland Clinic Faculty into CWRU
 graduate program: Spring, 1994.
 Committee to review MS program in Biomedical Ethics: March, 1994.
 Member of Pharmacology Training Program, 1992-2000.
 University Review Committee for Searle’s Scholars Candidate: 1992.
 University Review Committee for Pew Scholars Candidate: 1991, 1992.
 Genetics Tenure and Promotions Committee: 1990-1994.
 Acting Chairman, Department of Genetics: 1990-1992.
 Search Committee for Genetics Chairperson: 1990-1992
 Advisory Committee, Center for Inherited Disorders of Energy Metabolism, 1990-1992.
 Director, Genetics Transgenic Facility, 1988-2000.
 Organizer, Genetics Department Seminars: 1986-1988.
 Organizer, Genetics Department Retreats: 1985, 1986, 1991.
 Cell and Molec. Biol. Training Grant Steering Committee, 1990-2000.
 Developmental Biology Training Grant Steering Committee, 1990-2000.
 School of Medicine Committee: Equity in Professional Affairs, 1990-1991.
 Departmental Committee on Equity in Professional Affairs, 1989-1992.
 University Lecture Committee, 1988-1992.
 University Animal Users Committee, 1989-2000.
 Biomedical Scientist Training Program Committee, Member of Planning Committee, Genetics
 Representative on Admissions Committee, 1988 – 1990, 1992 – 1998.
 Year I Comprehensive Exam Committee: Cell & Develop. Biol. 1985-1993.
 Subject Committee Chairperson, Cell and Developmental Biology Committee, 1985-1992.
 Genetics Graduate Committee, 1984 -1990 (chairman, 1988-1990), 1992-1994, 1996-1998.

Professional Service outside University:

2015: Chair, External Review for Laboratory of Genetics, Reproduction and Development,
 INSERM-CNRS, University of Clermont-Ferrand, France

2015 – date: Institute of Medicine Committee on the State of the Science in Ovarian Cancer Research

2015: External Review, University of Michigan School of Medicine

2015: External Review, Hospital for Sick Kids Developmental Biology Program

2015: External Review, University of Michigan Department of Genetics

2013 - date: Member, NIH Council of Councils

2013: Institute of Medicine Committee on the Independent Review and Assessment of the Activities of the NIH Recombinant DNA Advisory Committee (RAC)

2013 – date: FASEB Science Policy Committee – Genetics Society of America Representative

2013: University of Colorado Biochemistry Department Review

2012-date: Board of Directors, Triangle Universities Center for Advance Studies, Research Triangle Park, NC

2011-2012: Vice-Chair, Institute of Medicine Committee on Review of the California Institute for Regenerative Medicine.

2011-2014: Damon Runyon Fellowship Review Committee (Chair 2013-2014).

2011-date: Board of Directors, David Murdoch Research Institute.

2011-2013: Chair, Scientific Advisory Board, CanEurCre, Genome Canada.

2010: Member of the International Selection Committee for the Franklin Institute's Bower Prize in Genomics.

2010-2011: Search Committee member for the CEO/Director of the Jackson Laboratory.

2009-date: Senior Editor, *Genetics*.

2009-date: Stem Cell Working Group of the Advisory Committee for the Director of NIH.

2008-2013: COBRE advisory committee, Kansas University Medical Center.

2007-date: Life Sciences Research Foundation, Peer Review Committee.

2006-2009: National Academies Human Embryonic Stem Cell Research Advisory Committee.

2006-date: External Advisory Committee, Cornell University Center for Vertebrate Genomics.

2004-2005: National Academies Committee on Establishing Guidelines for Human Embryonic Stem Cell Research (resulted in published guidelines adopted by most research universities in this country and elsewhere).

2005-2009: Scientific Advisory Board, Pleiades Promoter Project, Genome Canada.

2004-2007: Scientific Advisory Board, ProNAi, Inc.

2004-2009: Advisory Board for the Induced Mutant Resource of the Jackson Laboratory.

2004-2006: Elected member of the Board of Directors, The Genetics Society of America.

2004-2007: Finance Committee, The Genetics Society of America.

2005-2009: Associate Editor, *Genetics*.

2005-2010: Member, Board of Trustees of The Jackson Laboratory.

2003-2010: Board of Scientific Overseers (2005-2010: Chair), The Jackson Laboratory.

2002-2005: Organizing Committee for Mouse Molecular Genetics Meetings, alternating between Cold Spring Harbor and Heidelberg.

2002-2003: North Carolina Department of Health and Human Services task force on Genomics and Public Health.

2001-2004: Mouse Genome Database oversight committee.

2001-2011: Board of Directors, PPD Inc.

2001-date: Internal Coordinating Committee, NIH Mouse Mutant Regional Resource Centers.

2000- 2006: NIH External Advisory panel for NICHD Mouse Mutagenesis Programs.

2000- 2006: Elected Member of the Board of Directors, The Society for Developmental Biology.

2000, 2001: Ad Hoc Member of Council, National Institute of Child Health and Human Development.

2000: External Advisor for Developmental Biology Program at Children's Hospital of Philadelphia.

1999-2001: Elected Member of the Secretariat of the International Mammalian Genome Society.

1999: Scientific Advisor: UCSF/UC Berkeley mutagenesis program.
 1998: Scientific Advisor, Moffitt Cancer Center, Tampa, Florida.
 1998-1999: External Advisory Committee, Roswell Park Cancer Center.
 1998: External Advisor, Genetics Program, Northwestern University Medical School.
 1997-1998: co-Director, Cold Spring Harbor course *Molecular Embryology of the Mouse*.
 1995-1996: co-Instructor, Cold Spring Harbor course *Molecular Embryology of the Mouse*.
 1995-2000: External Advisory Committee, Reproductive Center, University of Kansas Medical Center.
 1994-2000: Member, Research Allocations Committee, American Heart Association, Ohio Affiliate.
 1993- 1998: External Advisory Committee, Gene Therapy Center, University of California, San Francisco, P.I.: Y.W. Kan.
 1991-1993: Mouse Chromosome 7 Committee (co-chair, 1992-1993).
 1989: NIH Advisory Committee: Mouse Genome Initiative.

Review Panels:

Damon Runyon Fellowship Review Committee, 2011-2014.
 Life Sciences Research Foundation, Peer Review Committee, 2007-date.
 National Human Genome Research Institute - Genetic Disease Research Branch site visit committee, September 19-20, 2006.
 National Human Genome Research Institute, Special Emphasis Panel (Chair), Mouse Knockout Lines and Related Phenotypic Data. June 16, 2005.
 Ad Hoc reviewer for March of Dimes, National Science Foundation, Medical Research Council of Canada, Human Frontier Science Program, Netherlands Research Council, Wellcome Trust, BBS Research Council-United Kingdom.
 Intramural review, National Institute of Mental Health, Unit on Neurogenetics, February 27, 1996.
 Study section for predoctoral/postdoctoral training grants in genetics. The study section met three times a year in Bethesda. In addition, some programs were site visited. The site visits in which I was involved:
 --Yale University, Postdoctoral, 10/97.
 --University of Wisconsin, Predoctoral, 5/95.
 --University of Colorado, Boulder, Predoctoral, 9/94, Chairman.
 --Cornell University, Ithaca, Predoctoral, 9/94.
 --University of California, Berkeley, 5/94, Chairman.
 --University of California, Irvine, Predoctoral, 5/94.
 --Stanford University, Predoctoral, 10/93, Chairman.
 --Harvard University, Postdoctoral, 6/93, Chairman.
 --Washington University, Predoctoral, 10/92, Chairman.
 --Rockefeller University, Predoctoral, 10/92.
 --University of Michigan, Predoctoral, 5/91, Chairman.
 --University of Minnesota, Predoctoral, 10/91, Chairman.
 --North Carolina State University, Predoctoral, 9/91, Chairman.
 --University of Wisconsin, Postdoctoral, 5/91.
 --University of Washington, Seattle, Postdoctoral, 5/91.
 --University of California, San Francisco, Predoctoral, 9/90.
 --University of Wisconsin, Predoctoral, 5/90.
 NIH Study Section: Genetic Basis of Disease 1990-1995 (Chair, June 1993 to June 1995).
 DOE external review team: Genomic Instability Program, Laboratory of Radiobiology, University of California, San Francisco, March 13, 1995.
 NIH Study Section: "Predoctoral fellowships for minority graduate students", July 7-9, 1993.

NIH review team, Controlling Mechanisms in Mammalian Reproduction, Wistar Inst. & Univ. of Pennsylvania, Sept. 29, 1993.

NIH site visit team, Thomas Jefferson Cancer Institute Program Project Virology and Cancer Genetics, July 22-24, 1992.

NIH Director's Meeting with IRG Chairpersons, invited participant, Bethesda, January 17, 1991.

NIH Study Section: RFA entitled "Predoctoral fellowships for minority graduate students", July 15-17, 1991.

NIH Study Section: Ad Hoc Member, Population Research Council, March 7-8, 1991.

NIH Site visit team, University of Wisconsin Reproductive Biology Center, November 1-2, 1990.

NIH Study Section: Ad Hoc Member, Mammalian Genetics, 6/14-6/16, 1990.

NIH Study Section: RFA on Role of Proto-oncogenes in Mammalian Develop, February 6, 1990.

NIH site visit team, University of Connecticut Health Center Program Project Grant "Craniofacial Development: Genetic Regulation", January 29-30, 1990.

NIH site visit team, University of California, San Francisco Program Project Grant "Biology of the Implanting Embryo", November 3-4, 1989.

NIH site visit team, Princeton Program Project Grant "Molecular Genetics of Gametogenesis and Embryogenesis", April 5-7, 1989.

NIH Study Section: RFA on Genetics of Cell Lineages during Mammalian Development, November 21, 1988.

NIH Study Section: RFA on Genetic Approaches for Studying Gametogenesis, October 22-23, 1987.

NIH site visit team, Wistar Inst. Program Project Grant "Controlling mechanisms in mammalian reproduction & early development", April 22-24, 1987.

Ad Hoc reviewer:

Nature, Science, Cell, Current Biology, Development, Nature Genetics, Nature Cell Biology, PNAS, Dev. Cell, Molec. Cell, Genes & Development, PLoS Genetics, PLoS Biology, Genetics, EMBO Journal, Human Molecular Genetics, Developmental Biology, Biology of Reproduction, Genomics, Developmental Dynamics, Developmental Genetics, BioEssays, Gene

Conference Organizer:

- MMRRC 10th Annual Meeting, March 18-19, 2013, Chapel Hill, NC.
- 20th International Congress of Genetics, July 12-17, 2008, member – organizing committee.
- Genetics Society of America, "Model Systems and Human Disease" San Diego, Jan. 2006.
- Organizer: Federation of International Mouse Resources/Mutant Mouse Regional Resource Centers annual meeting, Bethesda, Oct 9-12, 2005.
- Frontiers in Genetics and Medicine, UNC, December 2004.
- Mouse Molecular Genetics:
 - EMBL, Heidelberg, September 2005.
 - Cold Spring Harbor Laboratory, September 2004.
 - EMBL, Heidelberg September 2003.
 - Cold Spring Harbor Laboratory, August 2002.
- 2002 UNC Faculty Retreat: Social Genomics.
- Society for Developmental Biology Southeast meeting, May 23-25, 2001.
- 2001 UNC Faculty Retreat: Computational meets Experimental Science.
- 50 year celebration of the UNC-Medical Center, April, 2002.
- Pew Scholars Alumni Meeting, Puerto Vallarta, Mexico, January 2, 2000.
- Developmental Biology Retreat, Case Western Reserve University, 1998, 1999.
- Pew Scholars Alumni Meeting, Puerto Rico, March 15-20, 1995.
- "Development of Transgenic Animal Resources", NIH, Bethesda, MD, November 13-14, 1990.

- "Model Systems for Studying Development", Markey Center for Developmental Genetics
Symposium, Case Western Reserve University, October, 5-7, 1989.



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

CAROL L. FOLT
Chancellor

103 SOUTH BUILDING
CAMPUS BOX 9100
CHAPEL HILL, NC 27599

T 919.962.1365
F 919.962.1647
carol.folt@unc.edu

Mail Ballot

Board of Trustees

February 18, 2016

Attached for your review and approval is a memo concerning the terms of appointment and compensation for Terry Magnuson as Vice Chancellor for Research. This mail ballot will be approved as part of the Consent Agenda at the Full Board meeting on Thursday, March 24, 2016.

The undersigned votes as follows with respect to the recommendation proposed in Chancellor Folt's memorandum dated February 18, 2016.

Approve Disapprove

Appointment and compensation for Terry Magnuson as
Vice Chancellor for Research

☐☐

Signature_____

Printed Name_____

Date_____

Please fax to TJ Scott at (919) 962-1647 or email at tj_scott@unc.edu

This mail ballot was approved by majority vote on February 18, 2016 by: Dwight Stone, Haywood Cochrane, Chuck Duckett, Lowry Caudill, Julia Grumbles, Kelly Hopkins, Bill Keyes, Allie Ray McCullen, Ed McMahan, Hari Nath, and Houston Summers.



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

CAROL L. FOLT
Chancellor

103 SOUTH BUILDING
CAMPUS BOX 9100
CHAPEL HILL, NC 27599

T 919.962.1365
F 919.962.1647
carol.folt@unc.edu

MEMORANDUM

TO: Members of the Board of Trustees
FROM: Carol L. Folt
RE: Mail Ballot
DATE: February 26, 2016

You have authorized my office to poll you by mail concerning personnel matters which require attention by the Board. Accordingly, we are transmitting to you herewith personnel actions as follows:

EPA Faculty Compensation & Tenure Actions	Attachment A
EPA Non-Faculty Compensation Actions	Attachment B

Please mark and return the enclosed mail ballot indicating whether or not you agree with the actions proposed. Thank you.

The University of North Carolina at Chapel Hill
EXECUTIVE SUMMARY
Board of Trustees
February 25, 2016

Attachment A

Appendix A

No.	College/Division	Name	Dept./School	Current Rank	New Rank	Tenure Request Reason	Effective Date	Salary
Personnel Actions								
New Appointments without Tenure								
1	Health Affairs	Kevin Brown	Otolaryngology/HNS	Clinical Associate Professor	Associate Professor		2/26/2016	\$262,500.00
2	Health Affairs	Pengda Liu	Biochemistry & Biophysics	Nominated Research Assistant Professor	Assistant Professor		3/1/2016	\$110,000.00
3	Health Affairs	Robert McGinty	Eshelman School of Pharmacy	N/A	Assistant Professor		7/1/2016	\$120,000.00
4	Health Affairs	Patricia Miguez	Operative Dentistry	Nominated Clinical Assistant Professor	Assistant Professor		3/1/2016	\$125,000.00
5	Health Affairs	Hudson Santos	Nursing	Nominated Research Assistant Professor	Assistant Professor		3/1/2016	\$80,000.00
6	Health Affairs	Rishma Shah	Orthodontics	N/A	Assistant Professor		7/1/2016	\$167,000.00
Addition of Joint Appointment without Tenure								
0								
Promotion to Full Professor								
1	Health Affairs	Eric Elbogen	Psychiatry	Associate Professor	Professor		4/1/2016	\$131,670.00
2	Academic Affairs	Eileen Parsons	School of Education	Associate Professor	Professor		7/1/2016	\$91,993.00
3	Health Affairs	David Wohl	Medicine	Associate Professor	Professor		3/1/2016	\$229,752.00
Reappointment to the same Rank								
1	Health Affairs	Michael Emanuele	Pharmacology	Assistant Professor	Assistant Professor		3/1/2017	\$111,180.00
2	Health Affairs	Juan Song	Pharmacology	Assistant Professor	Assistant Professor		9/1/2017	\$110,150.00
3	Academic Affairs	Kathleen Thomas	School of Law	Assistant Professor	Assistant Professor		7/1/2017	\$130,000.00
Designation/Reappointment to Departmental Chair								
0								
Designation/Reappointment to Distinguished Professorship								
0								
Actions Conferring Tenure								
Promotion Conferring Tenure								
1	Academic Affairs	John Coyle	Law	Assistant Professor	Associate Professor	Promotion based on scholarly competence with promise of continued substantial contributions to the discipline	7/1/2016	\$137,026.00
2	Academic Affairs	Catherine Kim	Law	Assistant Professor	Associate Professor	Promotion based on scholarly competence with promise of continued substantial contributions to the discipline	7/1/2016	\$134,526.00
3	Health Affairs	Michael Major	Cell Biology & Physiology/Pharmacology	Assistant Professor	Associate Professor	Promotion based on excellence in research	4/1/2016	\$142,600.00
4	Academic Affairs	Sriram Venkataraman	Kenan-Flagler Business School	Assistant Professor	Associate Professor	Promotion based on high quality research in marketing, teaching, and service	7/1/2016	\$182,000.00
5	Health Affairs	Michael Woods	Urology	Associate Professor	Associate Professor	Promotion based on excellence in clinical scholarship	10/1/2016	\$310,000.00
New Appointment Conferring Tenure								
1	Health Affairs	Shouu-Yih Lee	Health Policy & Management	Nominated Research Professor	Professor	Appointment based on excellence in research	3/1/2016	\$250,000.00
2	Health Affairs	Susan Smith	Nutrition	N/A	Professor	Appointment based on excellence in research	6/30/2016	\$170,000.00
Addition of Joint Appointment Conferring Tenure								
0								
Corrections								
0								

The University of North Carolina at Chapel Hill
EXECUTIVE SUMMARY
Board of Trustees
July 14, 2014

Appendix B

No.	College/Division	Name	School	Department	Rank	Reason	Requested Amount of Increase **	Percent of Increase **	June 30 Salary	Current Salary	New Salary	Effective Date
Compensation Actions <small>* Available funding for each action has been confirmed by the appropriate Department and School/Division management officials to support the proposed salary increase. Upon implementation, specific funding sources are reviewed and approved at the Department level, as well as by the applicable University Central financial offices, including the University Budget Office and the Office of Sponsored Research for grant funded salaries.</small>							** Based on cumulative increase(s) to 6/30 salary					
1	Health Affairs	Christopher Baggett	Public Health	Epidemiology	Research Associate	Increase due to new faculty appointment as Research Assistant Professor via external competitive event	\$22,000	36.67%	\$60,000	\$60,000	\$82,000	3/1/2016
2	Academic Affairs	Christopher Bingham	Business School		Professor	Increase due to new secondary administrative appointment as Area Chair of Strategy & entrepreneurship	\$42,500	21.52%	\$197,500	\$225,000	\$240,000	3/1/2016
3	Health Affairs	Mellicent Blythe	Social Work		Clinical Assistant Professor	Increase due to new additional duties in The Center for Child & Family Health, Inc	\$5,924	12.72%	\$46,576	\$47,576	\$52,500	3/1/2016
4	Health Affairs	Michelle Cueva	Medicine	Psychiatry	Post Doc Research Associate	Increase due to new faculty appointment as Research Assistant Professor via external competitive event	\$26,320	60.26%	\$43,680	\$43,680	\$70,000	3/1/2016
5	Academic Affairs	Jeffrey Hirsch	Law		Distinguished Professor	Increase based on equity with comparable Associate Dean appointments, current is below market rate	\$24,000	13.37%	\$179,542	\$179,542	\$203,542	3/1/2016
6	Health Affairs	James Kurz	Medicine	Physical Medicine Rehab	Clinical Associate Professor	Increase due to new additional duties in his work within the UNC NFLPA program	\$5,970	19.90%	\$30,000	\$30,000	\$35,970	3/1/2016
7	Academic Affairs	Holning Lau	Law		Professor	Increase due to new secondary administrative appointment as Director of LLM program	\$21,000	14.98%	\$140,168	\$148,668	\$161,168	3/1/2016
8	Health Affairs	Laura Linnan	Public Health	Health Behavior	Professor	Increase due to new secondary administrative appointment as Associate Dean for Academic Affairs	\$49,877	30.30%	\$164,623	\$171,629	\$214,500	3/1/2016
9	Health Affairs	Elizabeth Mayer-Davis	Public Health	Nutrition	Distinguished Professor/Chair	Increase based on additional duties in appointment as Department Chair	\$32,070	10.51%	\$305,000	\$331,070	\$337,070	3/1/2016
10	Health Affairs	Sarah Scarry	Pharmacy	Chemical Biology and Medicinal Chemistry	Post Doc Research Associate	Increase due to new faculty appointment as Research Assistant Professor via external competitive event	\$31,808	66.00%	\$48,192	\$48,192	\$80,000	2/22/2016
11	Health Affairs	Stephanie Wheeler	Public Health	Health Policy & Mgmt	Assistant Professor	Increase due to promotion to Associate Professor	\$13,667	11.18%	\$122,230	\$125,897	\$135,897	5/1/2016
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No.	College/Division	Name	Department/School	Rank	Reason	Total Monetary Value of Non-Salary Compensation	Duration of Non-Salary Compensation	Effective Date	End Date
Non-Salary Compensation Actions									
0	N/A	N/A	N/A		N/A	N/A	N/A	N/A	NA

The University of North Carolina at Chapel Hill

EXECUTIVE SUMMARY

Board of Trustees

July 14, 2014

Appendix C

No.	College/Division Name	Department/School	Rank	Description
For Information				
0	N/A	N/A	N/A	N/A

No.	College/Division	Name	Department/School	Rank	Reason	Requested	Percent of	Current	New Salary	Effective
						Increase	Increase	Salary		
Compensation Actions						Amount				Date
* Available funding for each action has been confirmed by the appropriate Department and School/Division management officials to support the proposed salary increase. Upon implementation, specific funding sources are reviewed and approved at the Department level, as well as by the applicable University Central financial offices, including the University Budget Office and the Office of Sponsored Research for grant-funded salaries.										

No.	College/Division	Name	Department/School	Rank	Reason	Total	Duration	Effective	End Date	
						Monetary	of Non-			
						Value of Non-	Salary			
						Salary	Salary			
						Compensatio	Compensa			
Non-Salary Compensation Actions										
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA

Compensation Actions

No	Last Name	First Name	College/Division	Department/School	Rank/Title	June 30 Salary	Proposed Salary	Requested Increase \$\$	Requested Increase %	Effective Date	Justification
1	Gerdts	Adam	Kenan-Flagler Business School	Kenan-Flagler Business School	Associate Dean	\$ 160,000	\$ 192,000	\$ 32,000	20.00	2/1/2016	12 - Other (must explain in comments) - Equity Adjustment: This recommended increase would provide pay equity with another employee at the same classification performing similar work (who has a salary of \$211,860). A \$16,000 increase was granted effective July 2015 during the Annual Raise Process. The requested salary results in a market index of 91% and creates no equity issues.
2	Mansfield	Kelly	School of Medicine	Lineberger Cancer Center	Director of Annual Giving, Development Operations and Pipeline Strategy	\$ 68,828	\$ 85,000	\$ 16,172	23.50	2/1/2016	2a - Increase in job duties or responsibilities; includes reclassification of branch/role: This proposed increase is related to a permanent increase in job duties or responsibilities. The current duties include providing strategic direction for the Cancer Center's direct-response fundraising program, working with the communications team to revamp the email newsletter, providing donor content as needed for the newsletter, maintaining the giving website, and identifying opportunities for using social media to promote annual giving and events fundraising. The new additional duties will include providing strategic development of a pipeline of major-gifts prospects for the campaign; supervising the recently-created position of Director of Annual Giving; and working in close coordination with the Senior Executive Director, the Director of Major Gifts, and the Assistant Director of Major Gifts to ensure that all fundraising goals are met at all levels in the organization. There are no comparable positions in the work unit. The employee meets the education and experience requirements for this classification with a Bachelor's degree in Business Administration and eight years of related experience.
3	Ballen	Martina	Athletics	Athletics-Business Office	Senior Associate Athletic Director & CFO	\$ 128,556	\$ 146,200	\$ 17,644	13.72	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to bring the employee up to the market rate of \$146,200. A \$12,856 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit. The requested salary results in a market index of 100%.
4	Millar	Anna	Kenan-Flagler Business School	Kenan-Flagler Business School	Director, Undergraduate Business Program	\$ 94,485	\$ 118,106	\$ 23,621	25.00	2/1/2016	12 - Other (must explain in comments) - Equity Adjustment: This recommended increase would provide pay equity with other employees at the same classification performing similar work (who have an average salary of \$137,499). A \$9,449 increase was granted effective July 2015 during the Annual Raise Process. The requested salary results in a market index of 89% and creates no equity issues.
5	Vogel	David	Kenan-Flagler Business School	Kenan-Flagler Business School	Director, Undergraduate Business Program	\$ 87,920	\$ 109,900	\$ 21,980	25.00	2/1/2016	12 - Other (must explain in comments) - Equity Adjustment: This recommended increase would provide pay equity with other employees at the same classification performing similar work (who have an average salary of \$139,140). An \$8,792 increase was granted effective July 2015 during the Annual Raise Process. The requested salary results in a market index of 82% and creates no equity issues.

The University of North Carolina at Chapel Hill - EXECUTIVE SUMMARY (EPA Non-Faculty) - Board of Trustees - February 2016 (Mail Ballot)

6	Dorrance	Albert	Athletics	Athletics-Women's Soccer	Head Women's Soccer Coach	\$ 137,620	\$ 160,000	\$ 22,380	16.26	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to align the employee's salary more closely with head coaches at comparable programs. Other schools considered were Florida State (\$200,000), Virginia (\$185,700), Florida (\$164,670), and UCLA (\$161,200). A \$13,762 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit.
7	Galvin	Derek	Athletics	Athletics - Gymnastics	Head Gymnastics Coach	\$ 80,897	\$ 100,000	\$ 19,103	23.61	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to align the employee's salary more closely with head coaches at comparable programs. Other schools considered were Auburn (\$185,000), Georgia (\$175,000), Alabama (\$160,000), West Virginia (\$100,000), and NC State (\$92,057). An \$8,000 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit.
9	Haney	Sarah	Athletics	Athletics - Women's Rowing	Head Women's Rowing Coach	\$ 66,669	\$ 90,000	\$ 23,331	35.00	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to align the employee's salary more closely with head coaches at comparable programs. Other schools considered were Virginia (\$125,000), California (\$120,000), Louisville (\$100,000), and Clemson (\$90,000). A \$6,667 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit.
10	Papa	Donna	Athletics	Athletics - Softball	Head Softball Coach	\$ 80,897	\$ 100,000	\$ 19,103	23.61	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to align the employee's salary more closely with head coaches at comparable programs. Other schools considered were Texas (\$175,000), Georgia (\$140,000), Louisville (\$132,635), South Carolina (\$133,236), and NC State (\$90,000). An \$8,000 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit.
11	Shelton	Karen	Athletics	Athletics - Field Hockey	Head Field Hockey	\$ 101,416	\$ 120,000	\$ 18,584	18.32	2/1/2016	12 - Other (must explain in comments) - Labor Market Adjustment: This request is based on labor market to align the employee's salary more closely with head coaches at comparable programs. Other schools considered were Maryland (\$167,770) and Connecticut (\$144,698). A \$10,142 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit.

The University of North Carolina at Chapel Hill - EXECUTIVE SUMMARY (EPA Non-Faculty) - Board of Trustees - February 2016 (Mail Ballot)

12	Wales	Jennifer	College of Arts and Sciences/Fine Arts and Humanities	PlayMakers Repertory	Associate Producer/Director of Education and Outreach	\$ 36,750	\$ 45,200	\$ 8,450	22.99	2/1/2016	<p>2a - Increase in job duties or responsibilities; includes reclassification of branch/role: This proposed increase is related to a permanent increase in job duties or responsibilities. The current duties include directing the PlayMakers Repertory's theater programming for K-12 students; facilitating class visits, talks, and lecture demonstrations; and assisting the Associate Artistic Director in other community-outreach programs and general duties for the theater as assigned. The new additional duties will include responsibility for leading post-show discussion programming, organizing and coordinating programs with community partners and PlayMakers staff members, overseeing the Summer Youth Conservatory, working with the program's faculty members to implement the curriculum, managing the overall budget, and serving as the primary liaison to the UNC community and outside organizations in order to enhance and fulfill PlayMakers' educational mission. A \$3,638 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit. The requested salary represents the minimum of the pay band for this class of work and results in a market index of 73%. The employee meets the education and experience requirements for this classification with a Master's degree in Fine Arts and six years of related experience.</p>
13	Wilkie	Deanna	School of Public Health	Advancement	Director of Annual Giving and Alumni Affairs	\$ 71,435	\$ 85,000	\$ 13,565	18.99	2/1/2016	<p>2a - Increase in job duties or responsibilities; includes reclassification of branch/role: This proposed increase is related to a permanent increase in job duties or responsibilities. The current duties include generating a large volume of renewable gifts under \$25,000 from the School's 17,000 alumni and other donors; planning, designing, organizing, and implementing all aspects of the Annual Giving program; and facilitating volunteer recruitment, training, and management. The new, additional duties will include managing all aspects of alumni affairs; serving as the primary Advancement office liaison with the School's Alumni Association; developing key messages and communications vehicles for alumni engagement; maintaining contact with individual, department-specific alumni committees and boards; and working with the Donor Relations and Stewardship Manager to ensure that processes and communications involving donors are timely and appropriate. A \$7,072 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions in the work unit. The employee meets the education and experience requirements for this classification with a Bachelor's degree in Journalism and 11 years of related experience.</p>
14	Cabell	Anne	School of Medicine	Lineberger Cancer Center	Research Project Director	\$ 65,800	\$ 75,000	\$ 9,200	13.98	2/1/2016	<p>2a - Increase in job duties or responsibilities; includes reclassification of branch/role: This proposed salary adjustment is related to a permanent increase in job duties or responsibilities. The current duties include managing the development of project deliverables; working as part of a team to create technological solutions that meet researchers' requirements; and overseeing the functional design of a project which uses technology to translate traditional, evidence-based behavioral interventions into effective, web-based interventions in the fields of obesity and cancer research. The new additional duties will include supervising a total of eight IT and research staff members. A \$6,514 increase was granted effective July 2015 during the Annual Raise Process. There are no comparable positions within the work unit. The employee meets the education and experience requirements for this classification with a Master's degree in Public Health and four years of related experience.</p>

The University of North Carolina at Chapel Hill - EXECUTIVE SUMMARY (EPA Non-Faculty) - Board of Trustees - February 2016 (Mail Ballot)

15	Rousset	Dina	Kenan-Flagler Business School	Kenan-Flagler Business School	Associate Director	\$ 81,245	\$ 93,275	\$ 12,030	14.81	2/1/2016	12 - Other (must explain in comments) - Equity Adjustment: This proposed increase provides equity with other employees at the same classification performing similar work. An \$8,125 increase was granted effective July 2015 during the Annual Raise Process. The requested salary is commensurate with another similarly situated employee (whose salary also is \$93,275) and creates no equity issues.
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Non-Compensation Actions

No	Last Name	First Name	College/Division	Department/School	Rank/Title	June 30 Salary	Proposed Salary	Requested Increase \$\$	Recquested Increase %	Effective Date	Justification
1	N/A	N/A	N/A	N/A	N/A						

Information Only - Competitive Recruitment Actions approved by President

No	Last Name	First Name	College/Division	Department/School	Rank/Title	June 30 Salary	Proposed Salary	Requested Increase \$\$	Requested Increase %	Effective Date	Justification
1	Simpson	Cheryl	College of Arts & Sciences/Fine Arts and Humanities	PlayMakers Repertory	Education Manager	\$ 34,000	\$ 81,800	\$ 47,800	140.59	01/01/16	1b - External Competitive Event - Employee applies for an externally recruited job vacancy, is selected competitively, and changes jobs to a different position - This is a promotion resulting from an open, competitive, internal recruitment in which there were 17 applicants, and three candidates were interviewed. In the current position (Student Services Specialist - Contributing), the duties include working with undergraduate Biomedical Engineering students on course assignments, assisting the Director of Undergraduate Studies with various administrative assignments, and working with the undergraduate program's review board. In the new role (Director of Departmental Initiatives), the duties will include managing departmental strategic planning activities, developing departmental position statements, managing the accreditation process, working with faculty members to plan and develop content and procedures, and assisting the department chair with departmental fundraising. There are no comparable positions within the work unit. The requested salary represents the minimum of the range for this category of work and results in a market index of 77%. The employee meets the education and experience requirements for this classification with a Ph.D. in Higher Education Administration and 17 years of related experience.
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THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

CAROL L. FOLT
Chancellor

103 SOUTH BUILDING
CAMPUS BOX 9100
CHAPEL HILL, NC 27599

T 919.962.1365
F 919.962.1647
carol.folt@unc.edu

Mail Ballot

Board of Trustees

February 26, 2016

Chancellor Carol Folt submits for your review and approval the EPA Faculty and EPA Non-Faculty salary and compensation actions as recommended for February 2016. This mail ballot will be approved as part of the consent agenda at the Full Board meeting on Thursday, March 24, 2016.

The undersigned votes as follows with recommendation to these proposed actions as presented by the Chancellor.

	Approve	Disapprove
EPA Faculty Salary Increases and Tenure Promotions (Attachment A)	<input type="checkbox"/>	<input type="checkbox"/>
	Approve	Disapprove
EPA Non-Faculty Compensation Actions (Attachment B)	<input type="checkbox"/>	<input type="checkbox"/>

Signature_____

Printed Name_____

Date_____

Please fax to TJ Scott at (919) 962-1647 or email at tj_scott@unc.edu

This mail ballot was approved by majority vote on March 1, 2016 by: Dwight Stone, Haywood Cochrane, Chuck Duckett, Julia Grumbles, Kelly Hopkins, Bill Keyes, Allie Ray McCullen, and Houston Summers

Vocabularies of Vulnerability



human.animal.blackness



Sylvia Harris,
jockey (2011)

“Me, I have two rituals. I chant, and then, before I mount the horse, I breathe him in. I know it sounds a little *Horse-Whisperer*-ish, but when I breathe in a horse, it’s as if we are kindred souls. We are one.”

accident, then love

worlds

From now on it seems impossible to remain in the inner certitude of him who perceives: seen from without perception glides over the things and does not touch them. At most one will say, if one wishes to admit the perception's own perspective upon itself, that each of us has a private world: these private worlds are "worlds" only for their titulars; they are not the world.

Merleau-Ponty, *The Visible and the Invisible*

nakedness

The animal looks at us, and we are naked before it.

Thinking perhaps begins there.

-- Jacques Derrida, *The Animal that Therefore I Am*

(racial) contracts

Thus, in effect, on matters related to race, the Racial Contract prescribes for its signatories an inverted epistemology, an epistemology of ignorance, a particular pattern of localized and global cognitive dysfunctions (which are psychologically and socially functional), producing the ironic outcome that whites will in general be unable to understand the world they themselves have made.

-- Charles Mills, *The Racial Contract*

the known world

**Where else but in this disorganized world would
such an encounter be possible?**

-- Toni Morrison, *A Mercy*

diversity

[M]odernity has cost existence its diversity, has drained the earth's capacity to maintain life Modernity sustains . . . the disappearance of animals as a constant state.

-- Akira Lippit, *Electric Animal*

precarity

**[A]rguments of agency and urgency . . .
extend from imperiled bodies**

-- Lauren Berlant, "Slow Death"

Fenridge, October 2013



sovereignty

The animal is a necessary reminder of the limits of the human; its historical and ontological contingency; of the precariousness of the human as a state of being, a condition of sovereignty, or an ideal of self-regulation.

-- Elizabeth Grosz, *Becoming Undone. Darwinian Reflections on Life, Politics and Art*

sovereignty redux

[the] romance of sovereignty . . . rests on the belief that the subject is the master and the controlling author of his or her own meaning

-- Achille Mbembe, "Necropolitics," translated by Libby Mientjes

alternative assemblages

[T]he concepts of bare life and biopolitics, which have come to dominate contemporary . . . [scholarship], are in dire need of recalibration if we want to understand the workings of and abolish our extremely uneven global power structures defined by the intersections of neoliberal capitalism, racism, settler colonialism, immigration, and imperialism . . .

-- Alex Weheliye, *Habeas Viscus*

management

But what were these lessons, and what exactly did [Michael] Vick admit? Perhaps much like the dogs he raised, fought, and killed, he learned to bare his teeth only when told.

-- Megan Glick, “Animal Instincts: Race, Criminality, and the Reversal of the ‘Human’”

perishment

“So,” Topps [the Atlas Insurance Agent] said as he finalized everything, “there will be no protection at this time on the perishment of your human property.” “Perishment,” or natural death, was a word the people at Atlas used very often and no one used it more than the widowed Topps, who saw himself as one day ascending to an important position at the home office in Hartford, Connecticut and looking down over the land and dispensing wisdom learned from years toiling in the wilderness of the uninsured. The word perishment had been thought up by a man at the Hartford office to try to convey the fragility of human life, especially that of slaves, and to try to get across to a customer the utter need for Atlas’s policies on those lives, slave or otherwise.

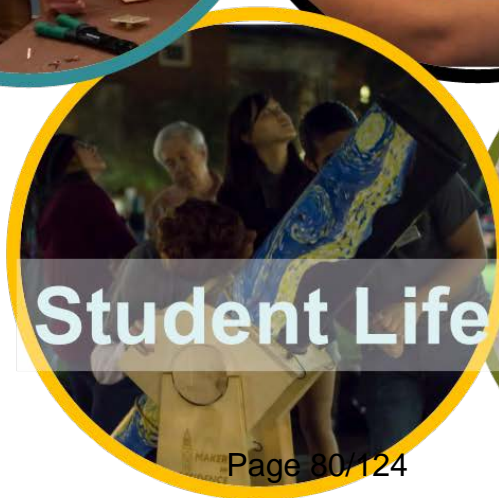
--Edward P. Jones, *The Known World*

human, animal, blackness



BEAM

BE A MAKER





Making: Science, Entrepreneurship and the Transformation of the University

Prof. Richard Superfine

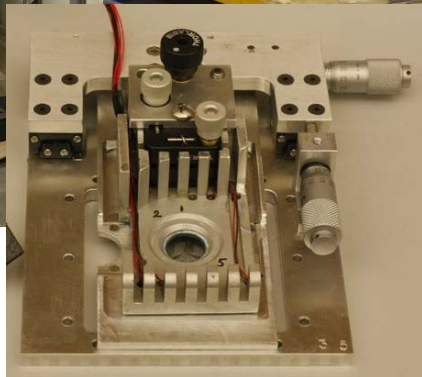
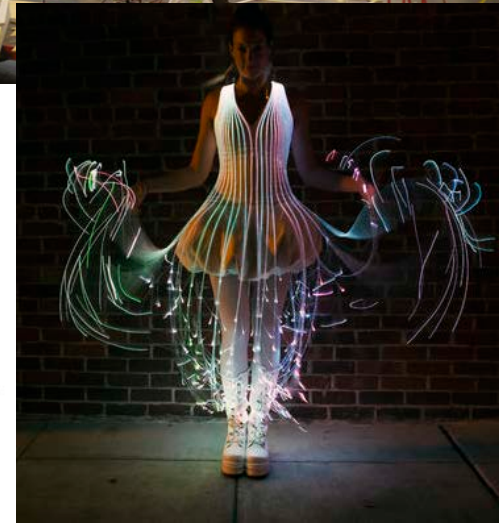
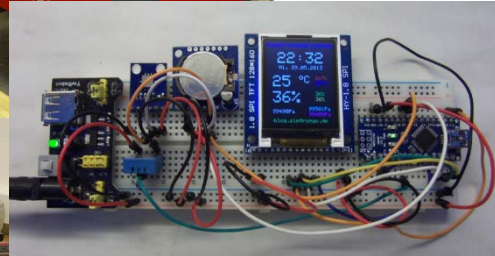
Taylor-Williams Distinguished Professor

Physics & Astronomy/Applied Physical Sciences

University of North Carolina at Chapel Hill

What is Making?

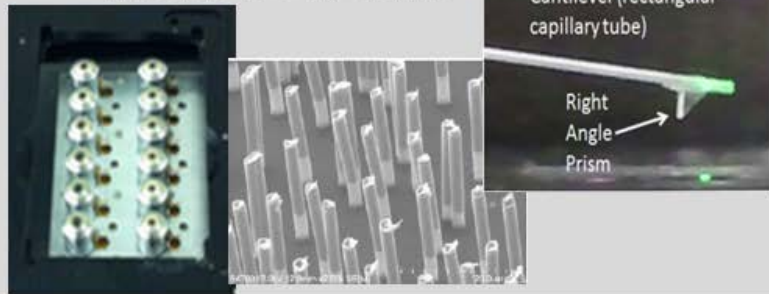
- Where Mind meets Matter
- Ideas Achieve Impact



CISMM

NIH National Resource for Forces in Biology

1. Force Microscope Technologies Richard Superfine



TRDs



2. Molecular Force Tools

Klaus Hahn



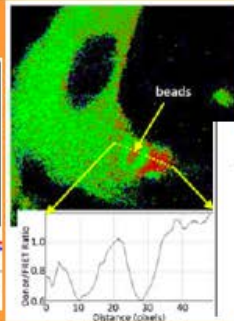
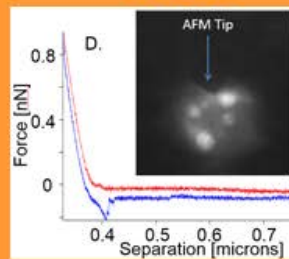
Lung



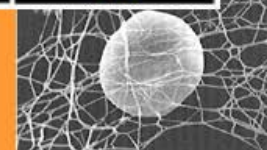
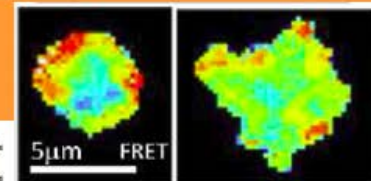
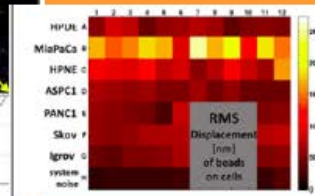
COLLABORATION CLUSTERS

Thromboses

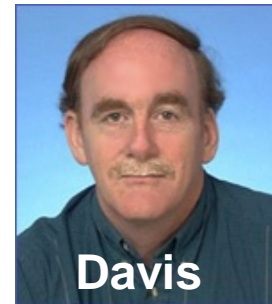
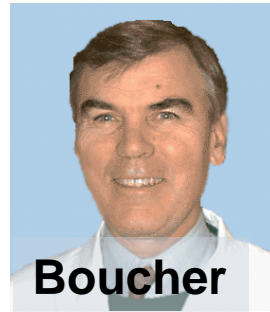
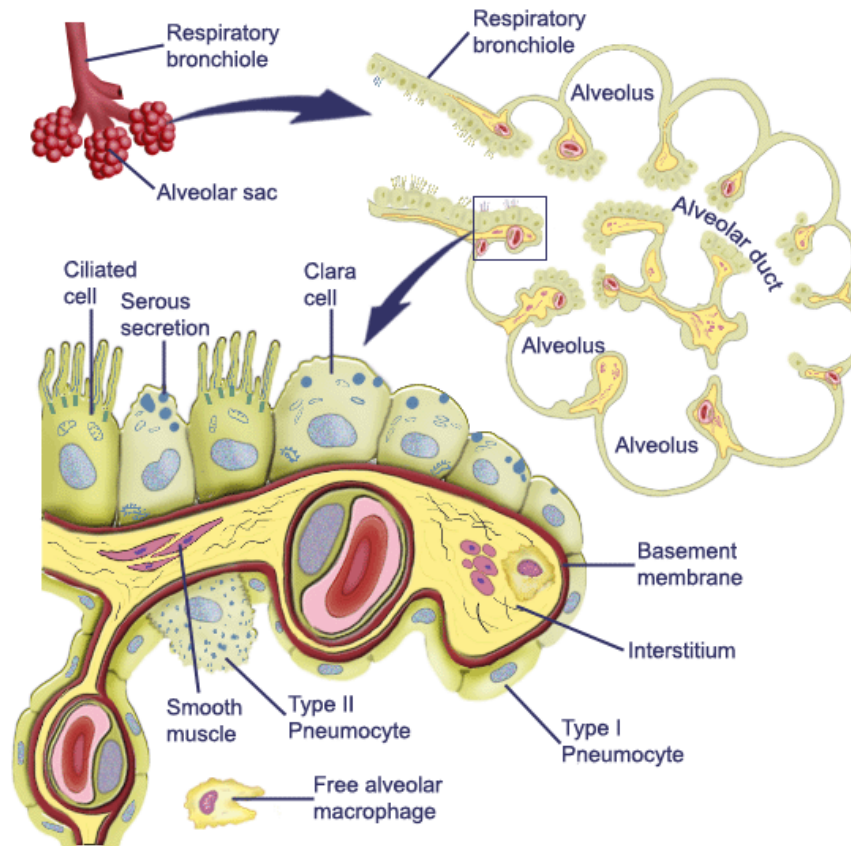
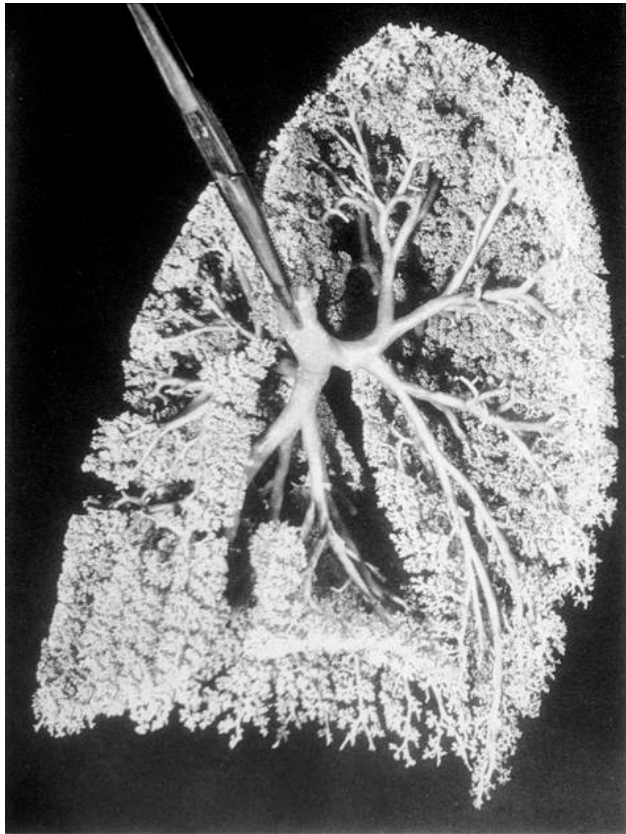
Cells



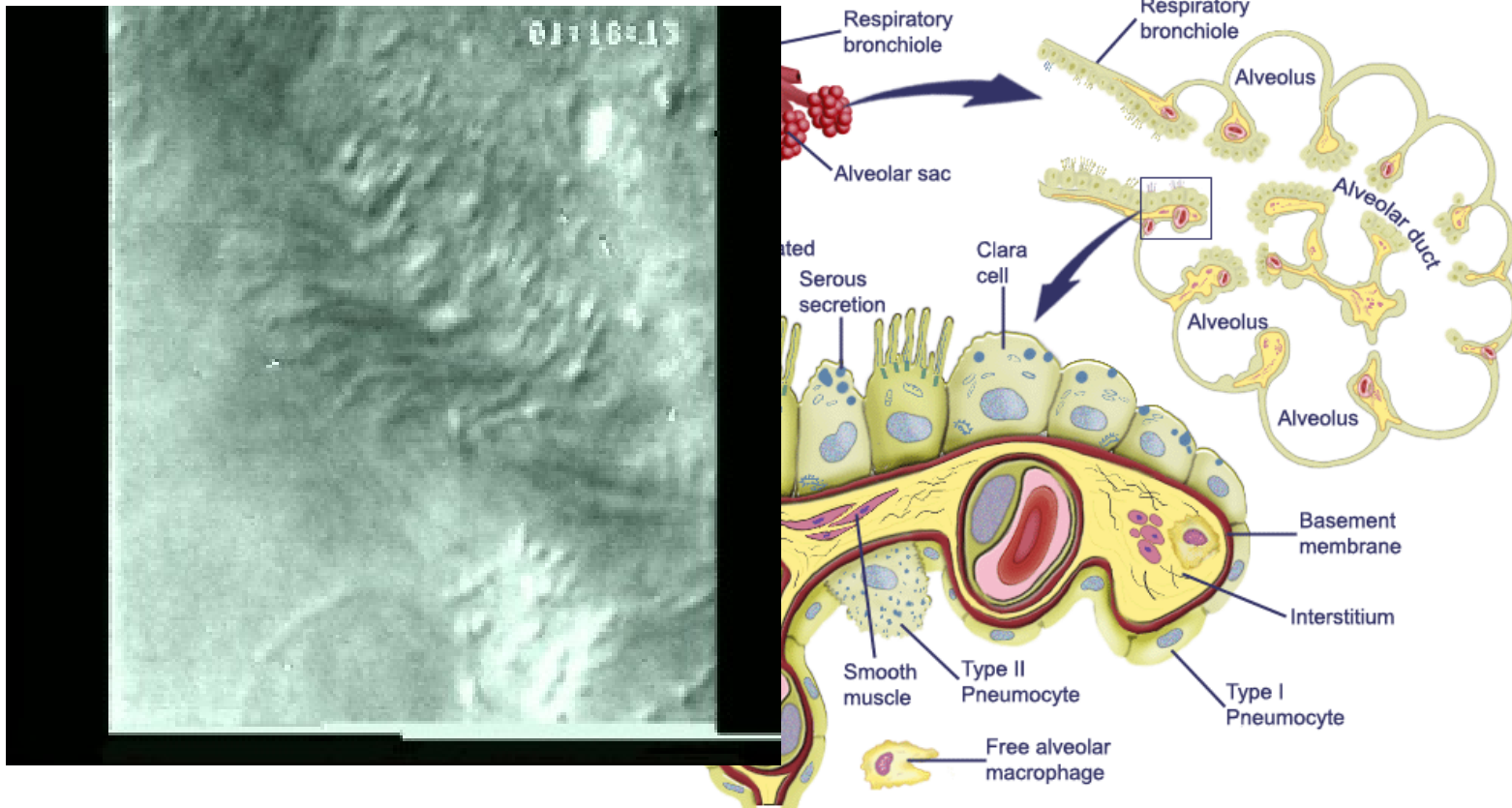
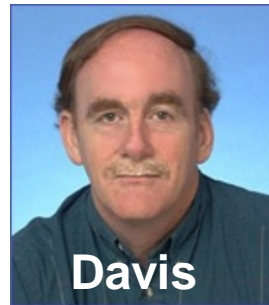
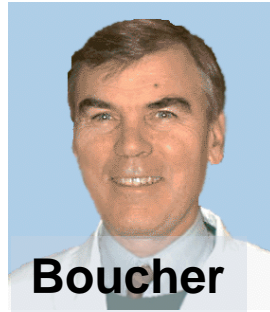
Cancer



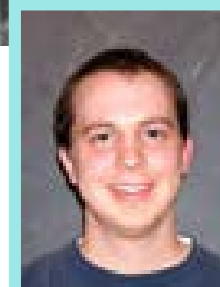
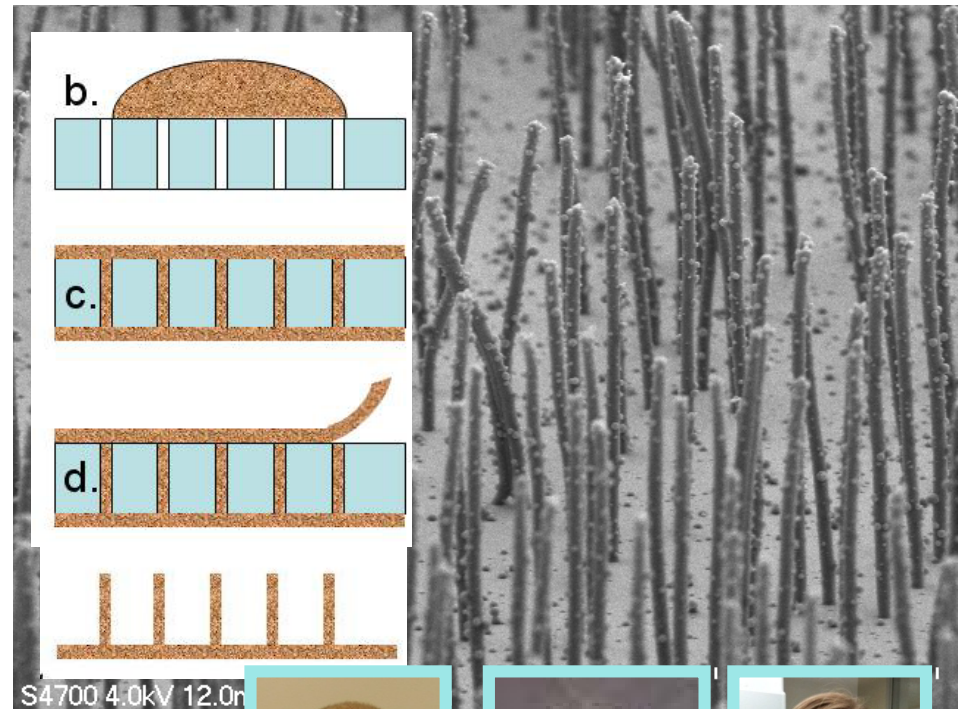
The Lung and Mucus Clearance Essential for Health



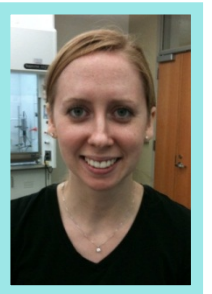
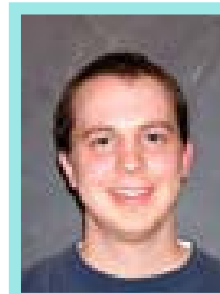
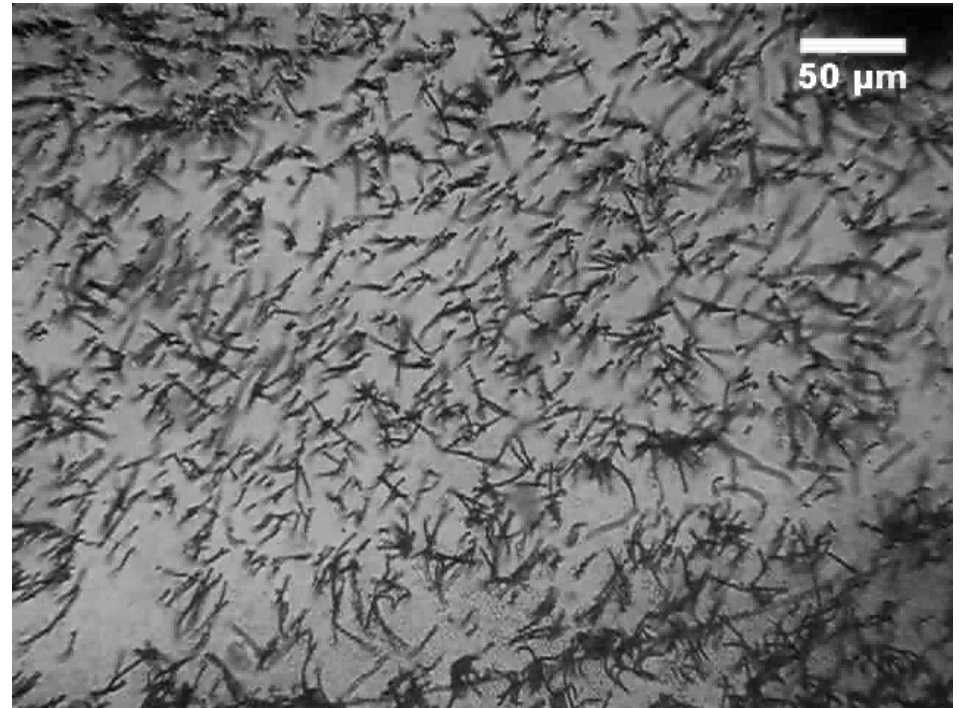
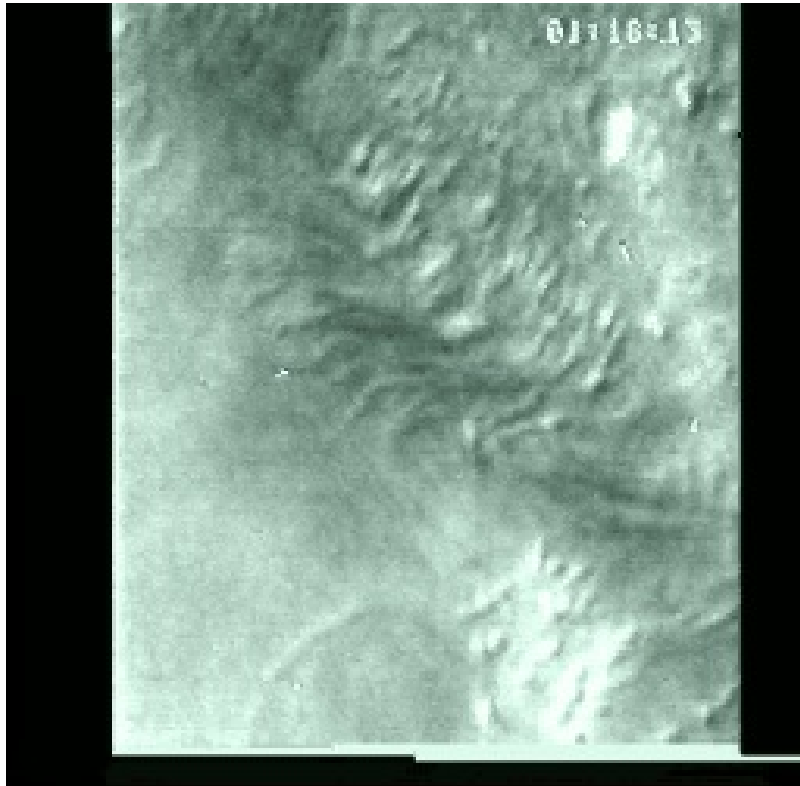
The Lung and Mucus Clearance Essential for Health



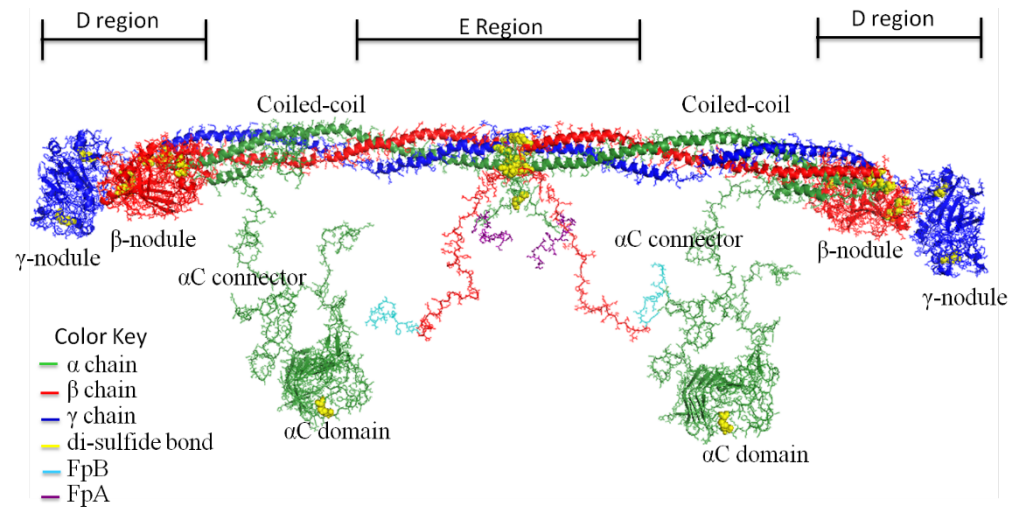
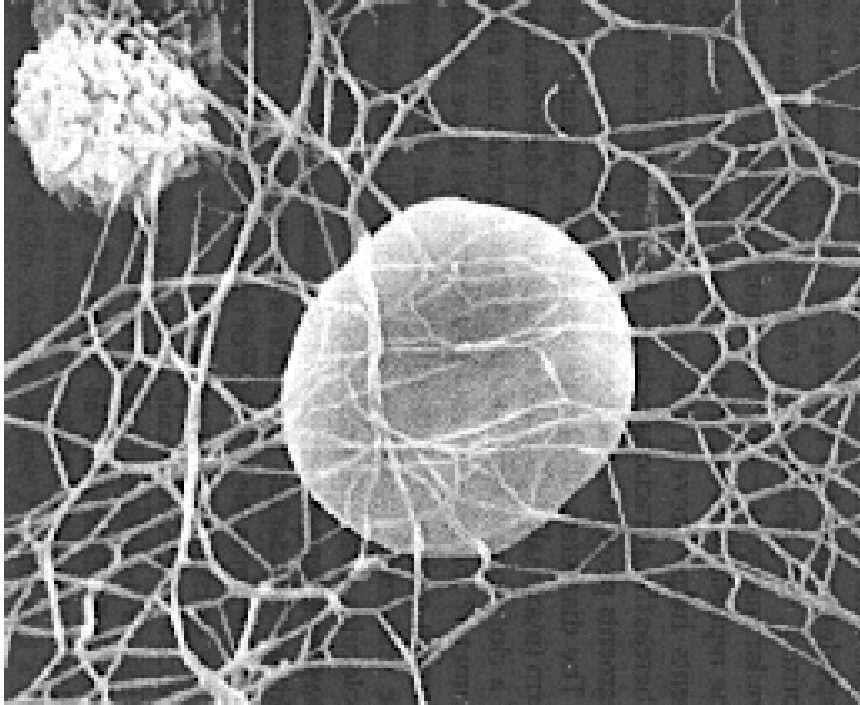
Making: Engineered Cilia



Making: Engineered Cilia

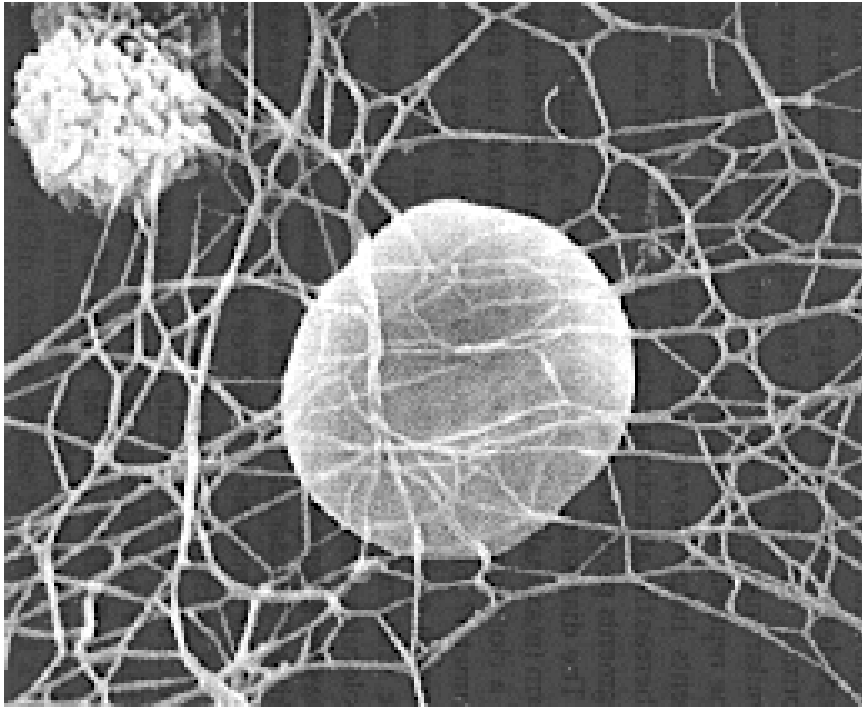


Thromboses: Blood Clots



Thromboses:

Making: Instrumentation - nanoManipulator

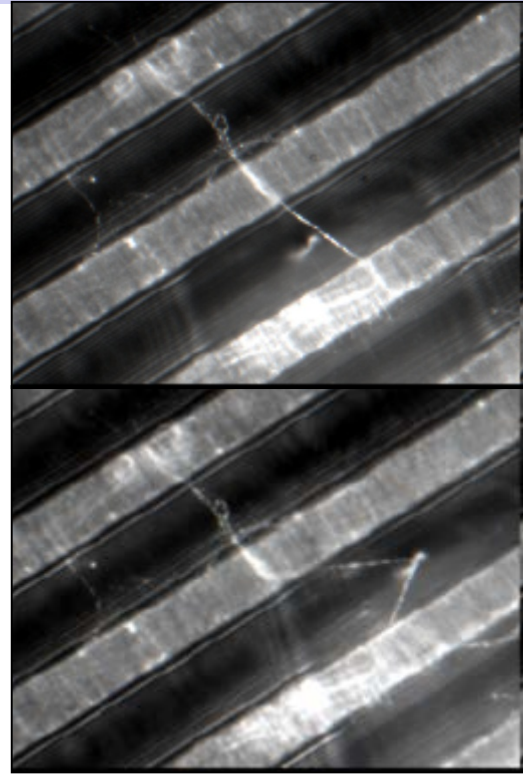
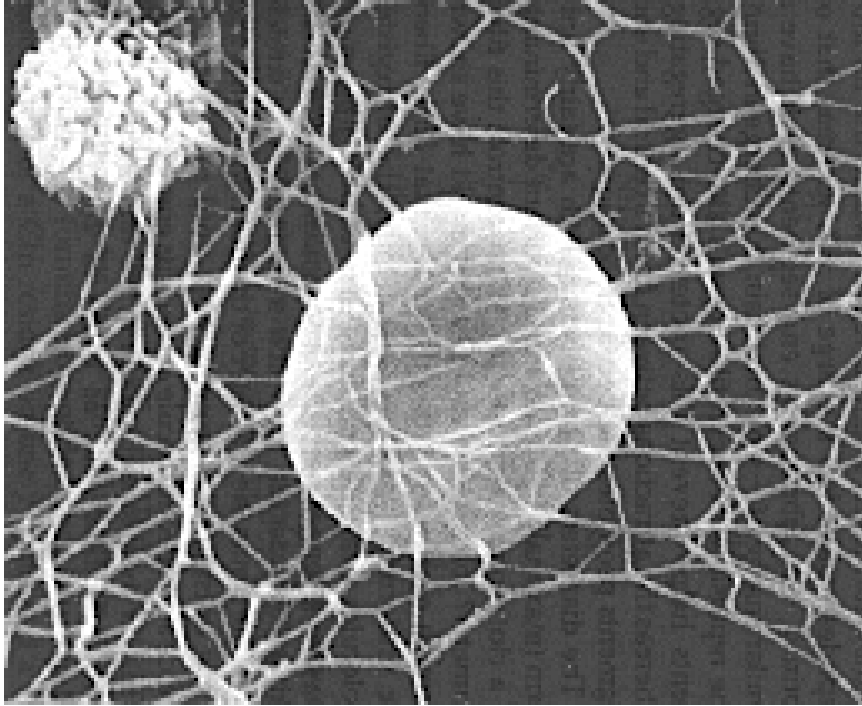


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Thromboses:

Making: Instrumentation - nanoManipulator

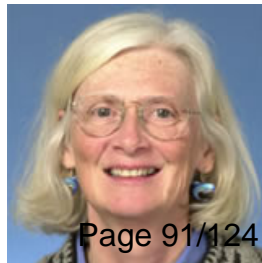
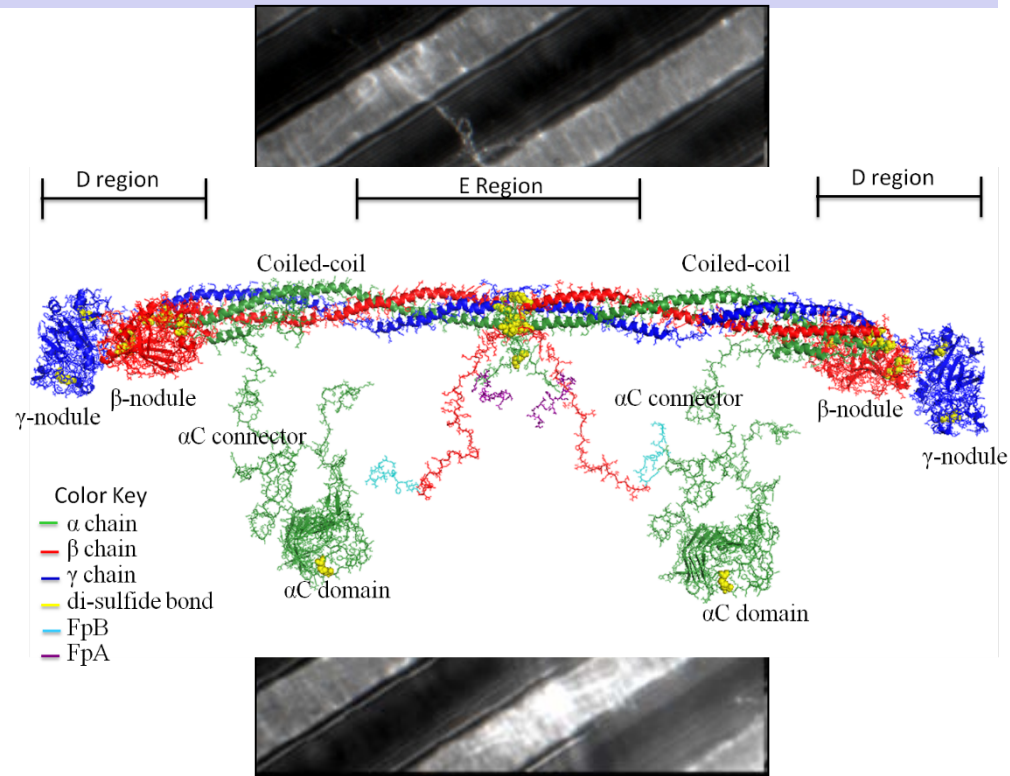
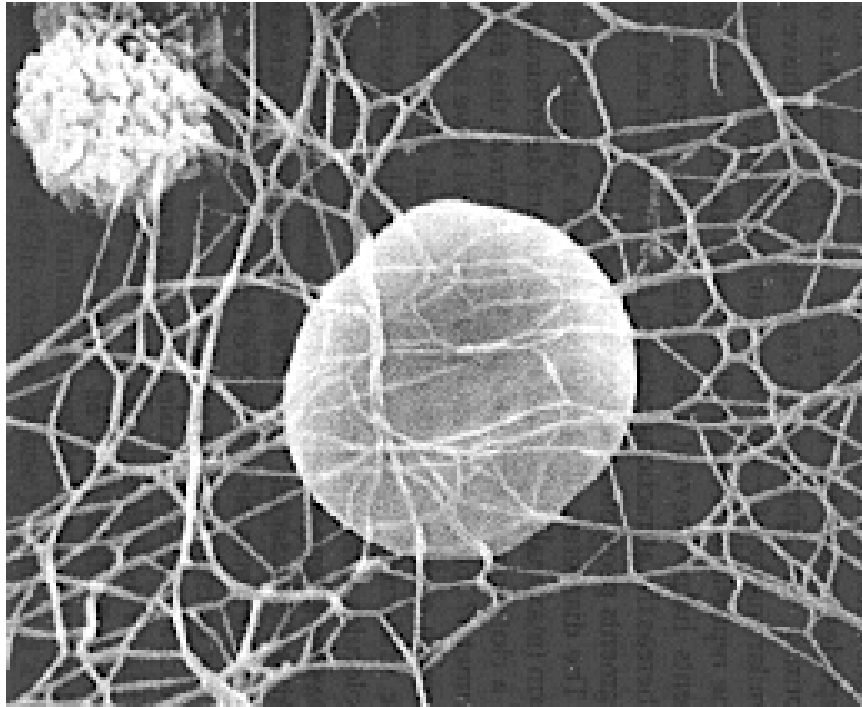


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Thromboses:

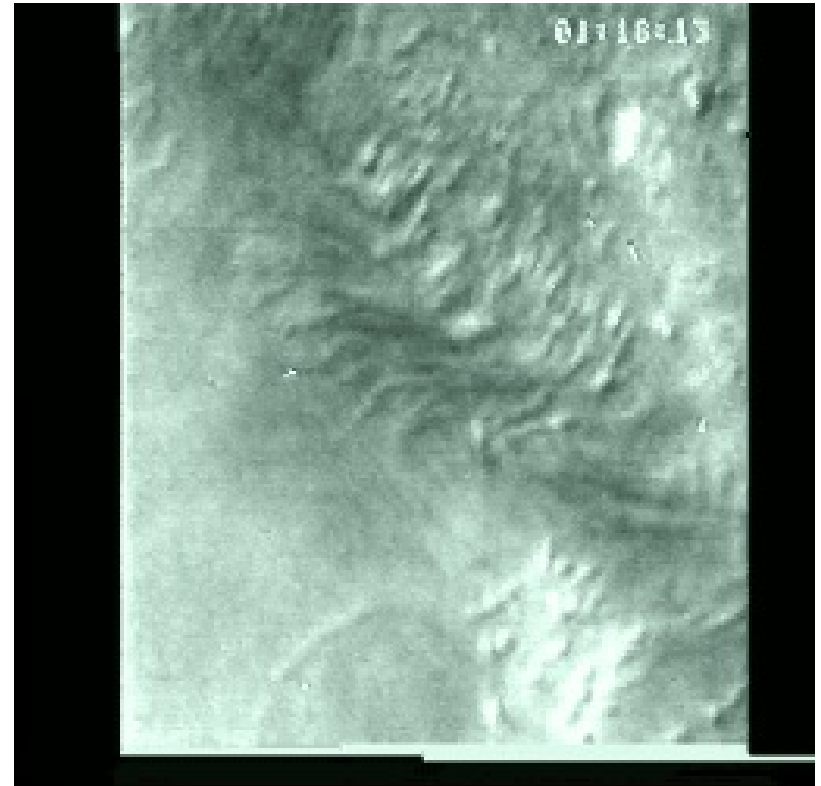
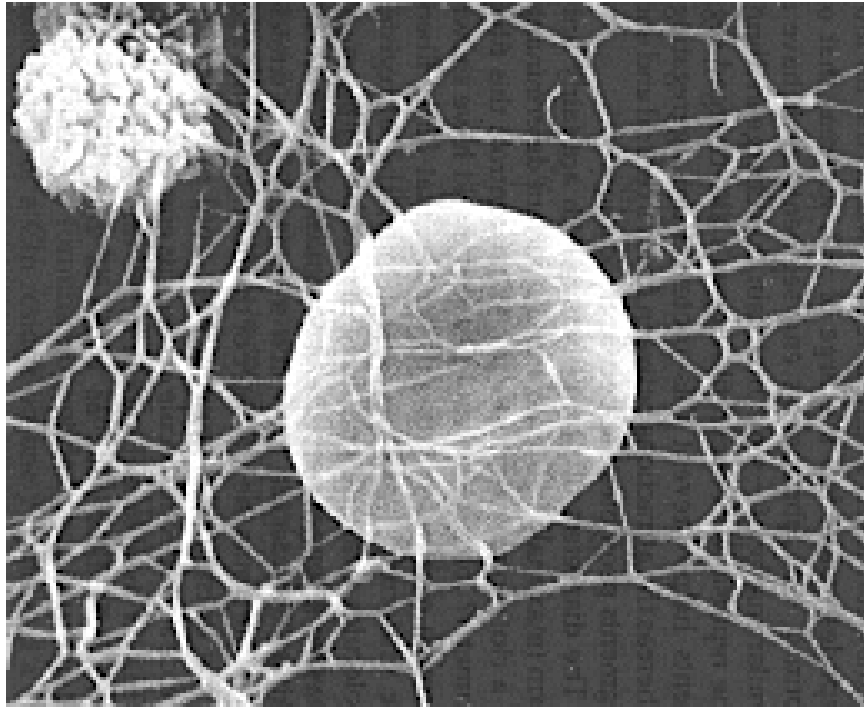
Making: Instrumentation - nanoManipulator



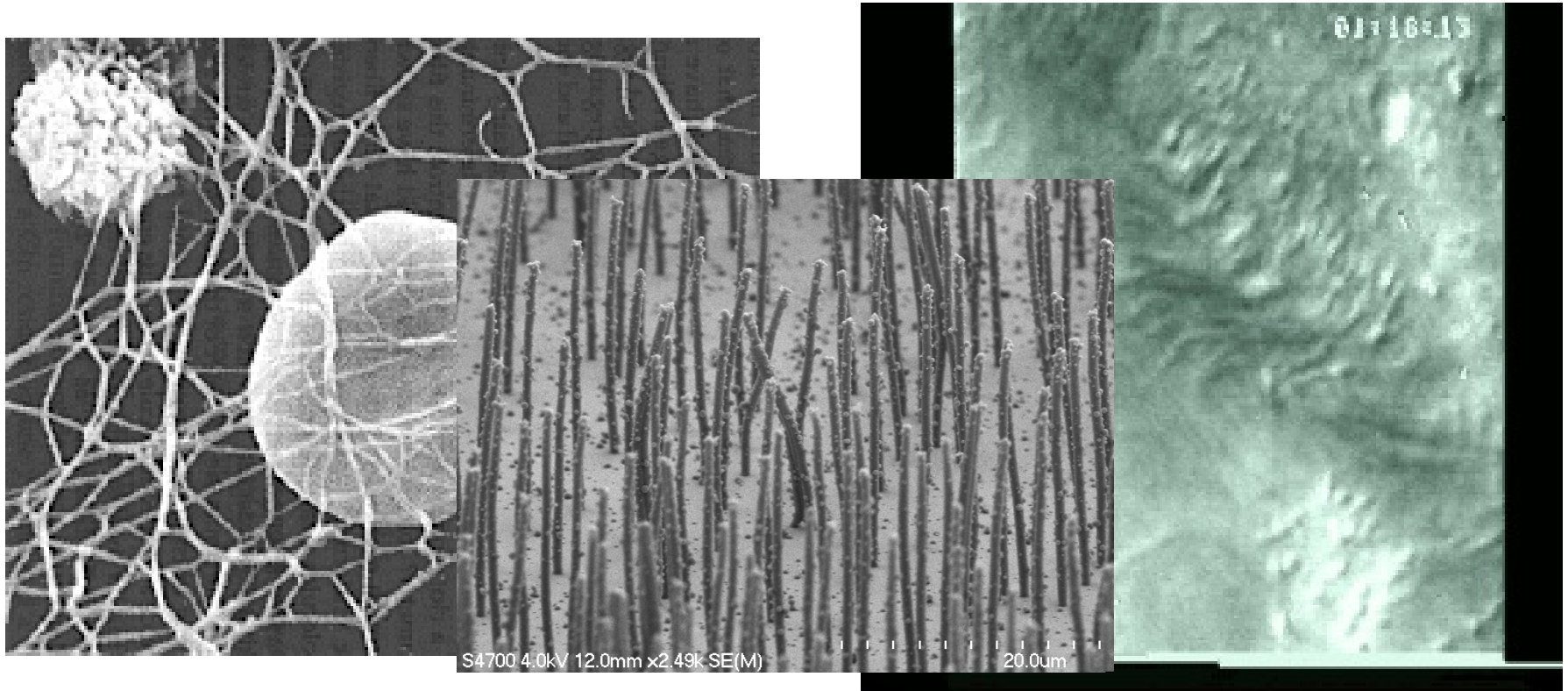
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Cross Fertilization: Mucus Clearance and Clotting?



Cross Fertilization: Engineered Cilia for Advanced Diagnostics



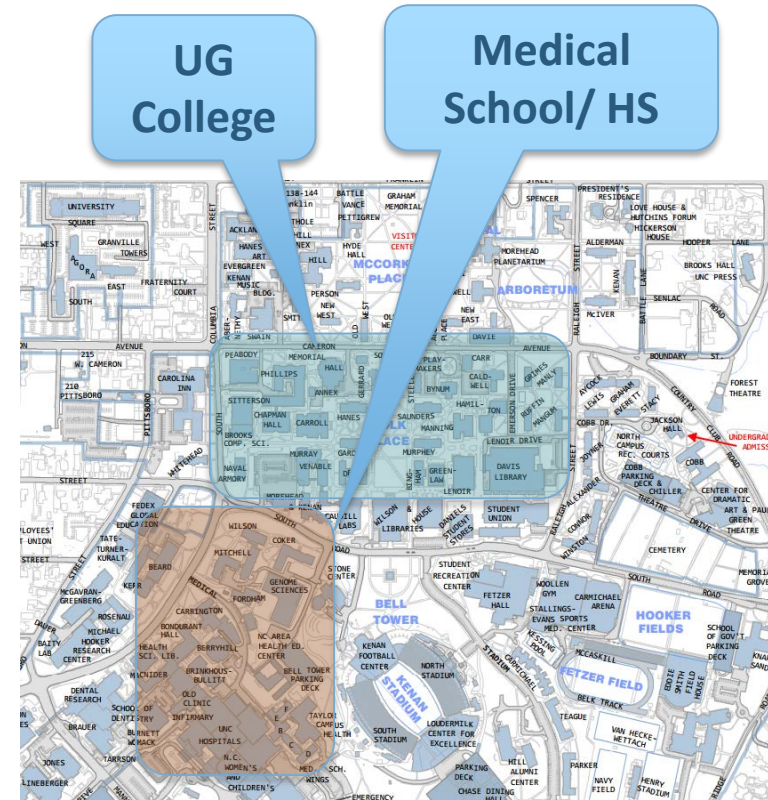
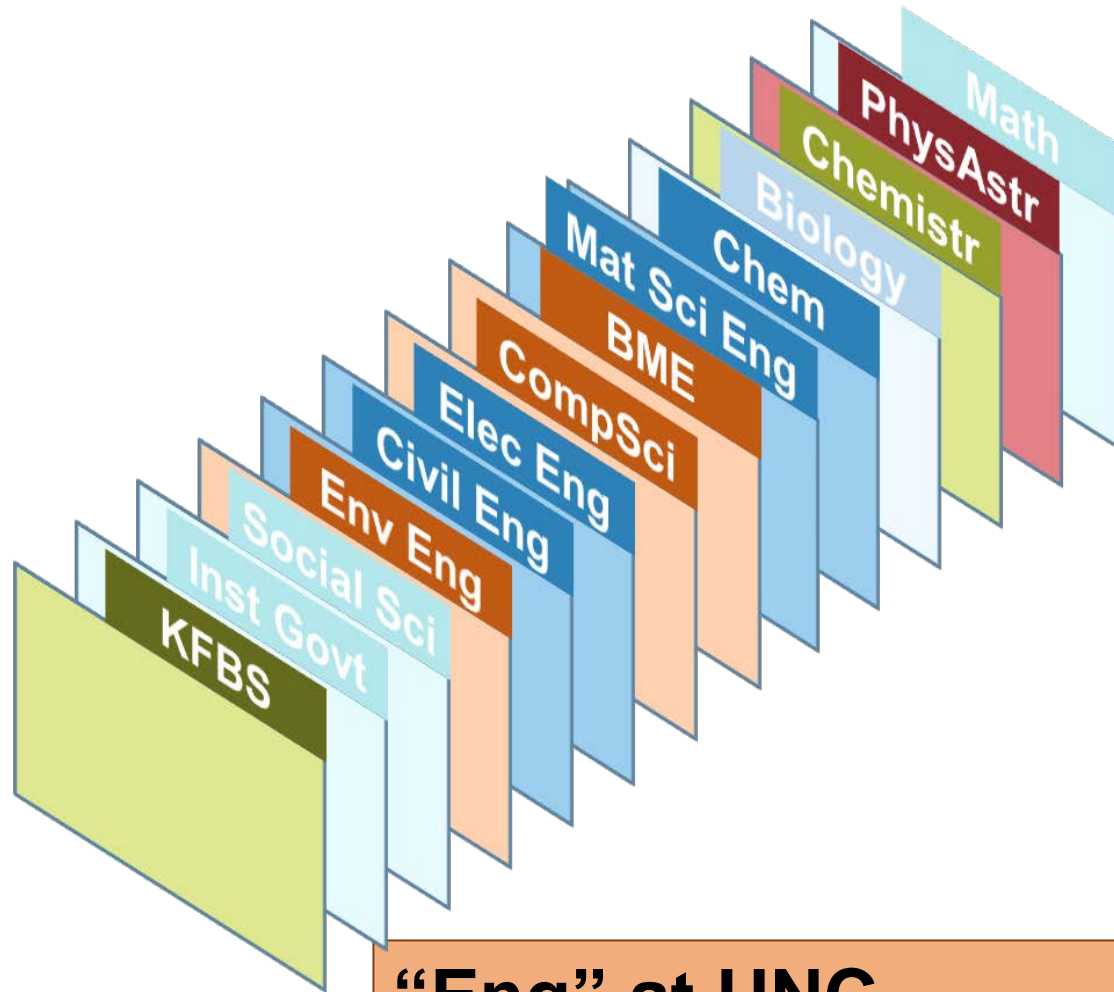
UNC – Goals and Needs

*How can we attract the best people:
students, Faculty and researchers, to UNC?*

Students: Where can I grow and launch my career?

Faculty/Researchers: Where can I find great students and a culture of innovation?

What does the outside world see?: Arts/Humanities/UG ... and a Med School

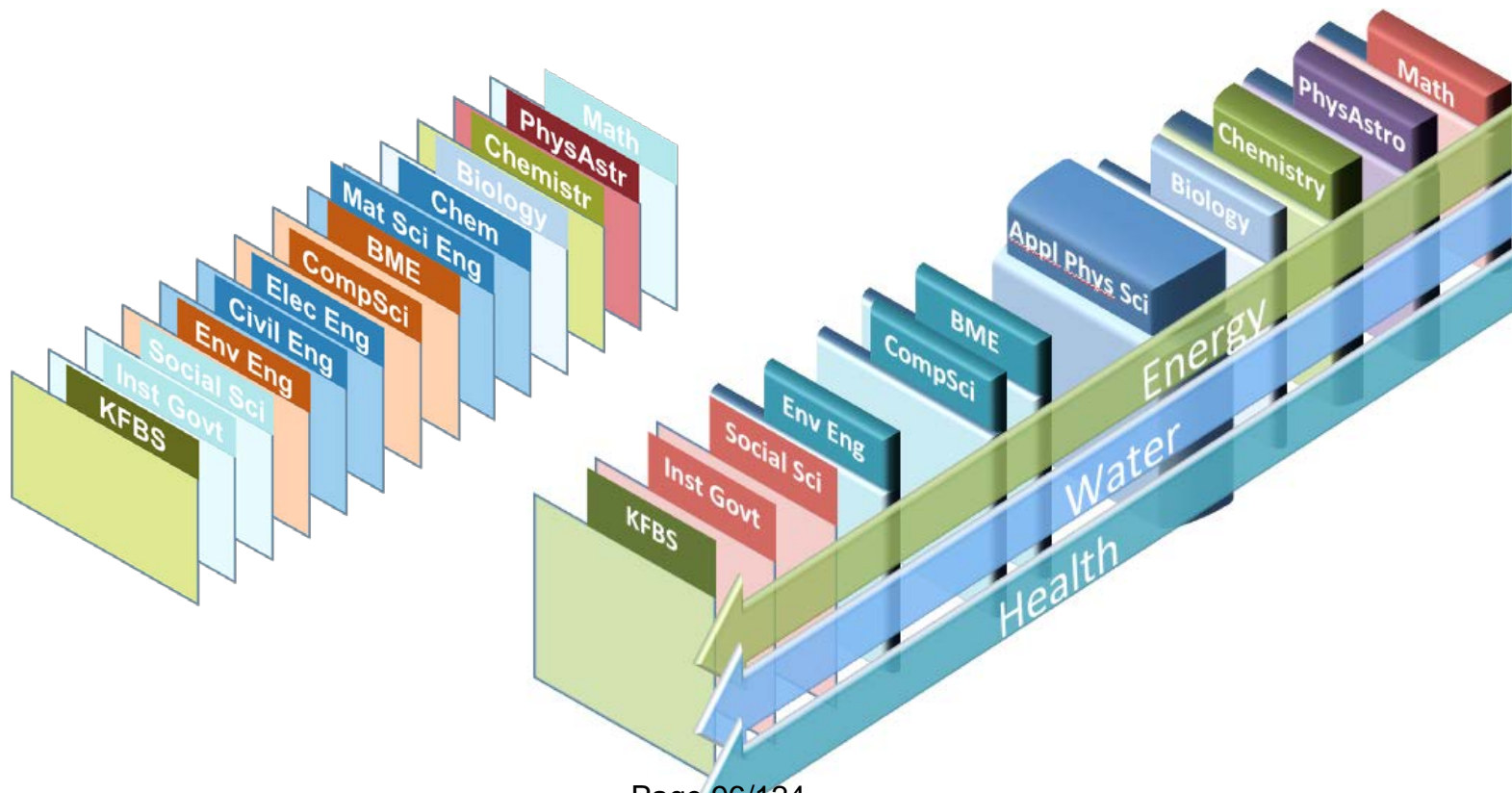


“Eng” at UNC

Missing at UNC

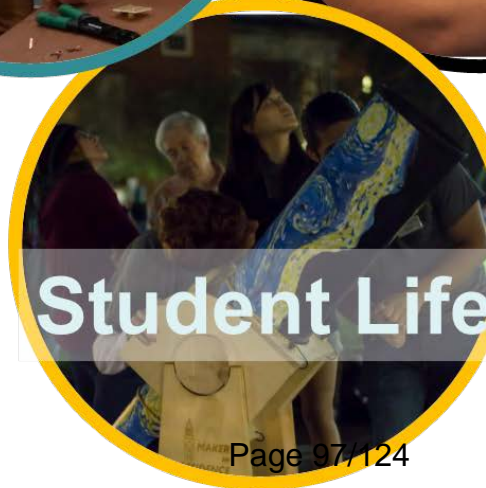
What does the outside world see?: Arts/Humanities/UG and Med School

How do we change this? APS, BME and Culture



BEAM

BE A MAKER

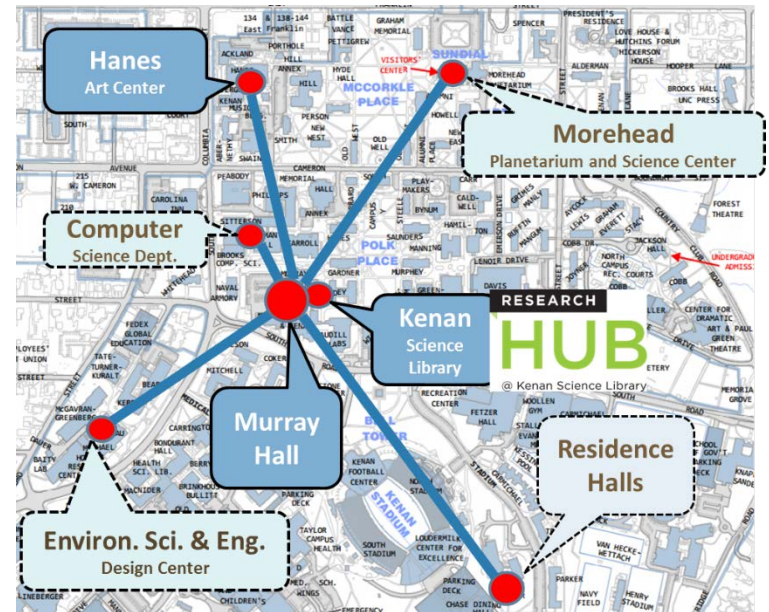


The Vision

Recreation Center



B E A M

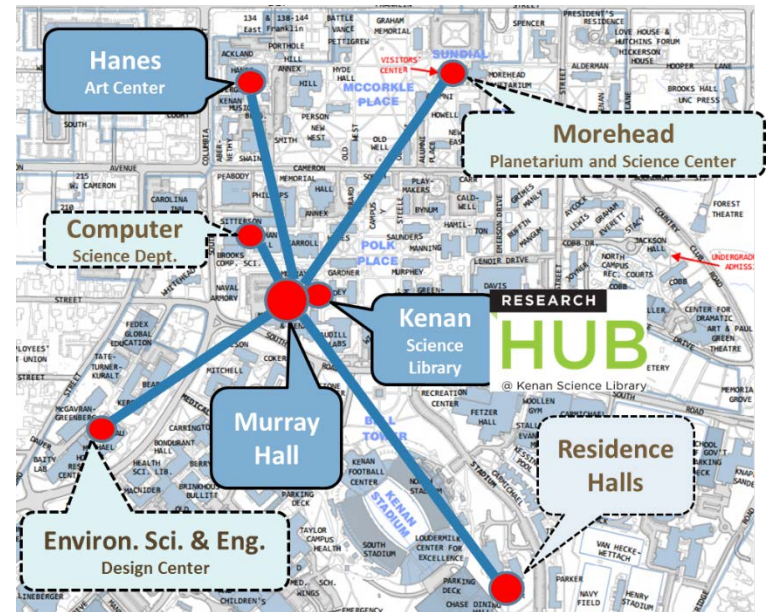


Library System



BeAM Spaces

BeAM



Mission and Vision

National Model Program

Vision:

Every UNC Tar Heel will:

Take a risk, Make a difference, Be A Maker.

Mission:

Cultivate and empower a UNC community and culture to imagine, design and create things that solve, fascinate and inspire.

50% of all UG experience BeAM

50% of all research groups experience BeAM

Open 80 hours/week, each location



Learning

Goal: The next innovation in education: National Model

Targets: Host classes in BeAM spaces, impact classes everywhere, Take it to where they live = residence Halls



Kelly Hogan





Research

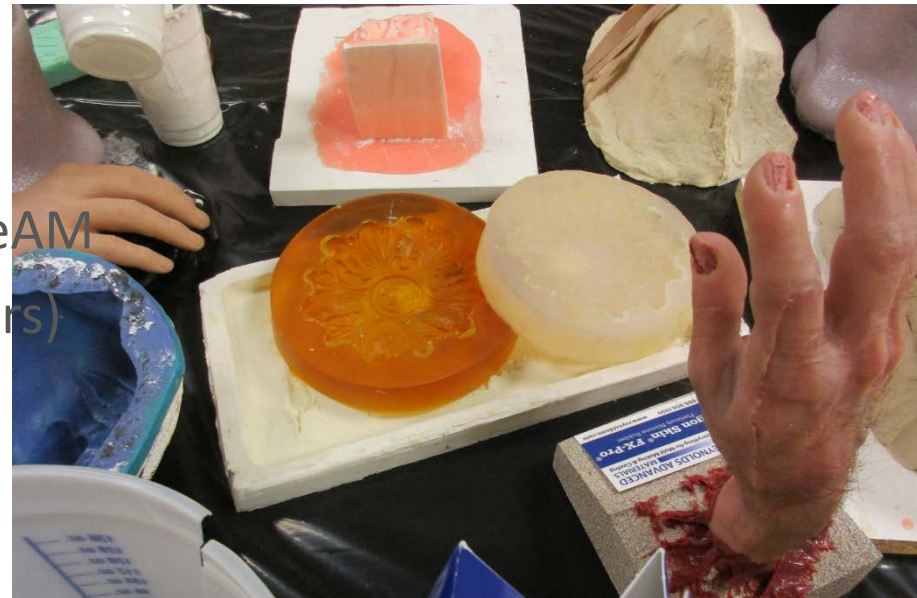


Goal:

Create Community of researchers

Target:

50% laboratory research groups use BeAM
15 advanced workshops/week (45 hours)





Entrepreneurship: Solve Complex Global Challenges

Culture and Community:

UNC Startups

Student led initiatives and companies

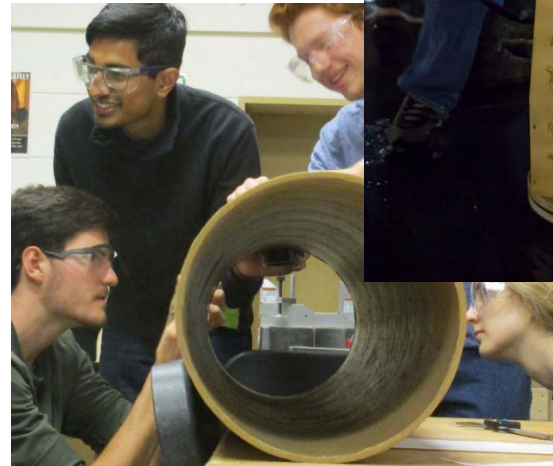
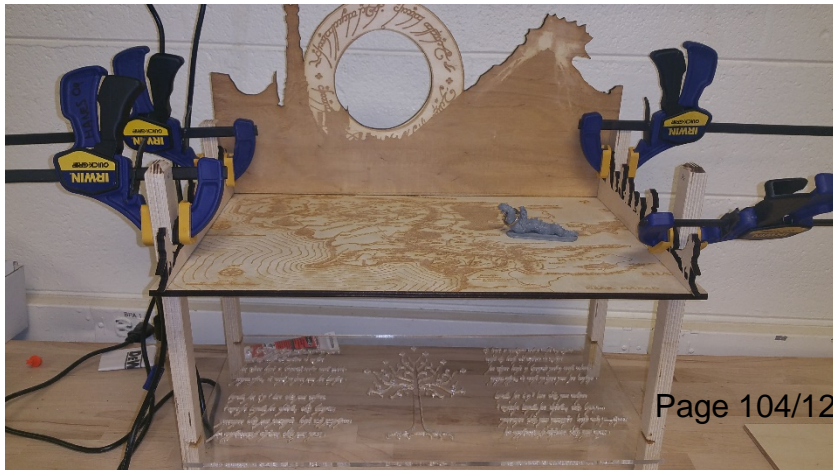
Connect Alumni and outside
community to UNC Brilliance



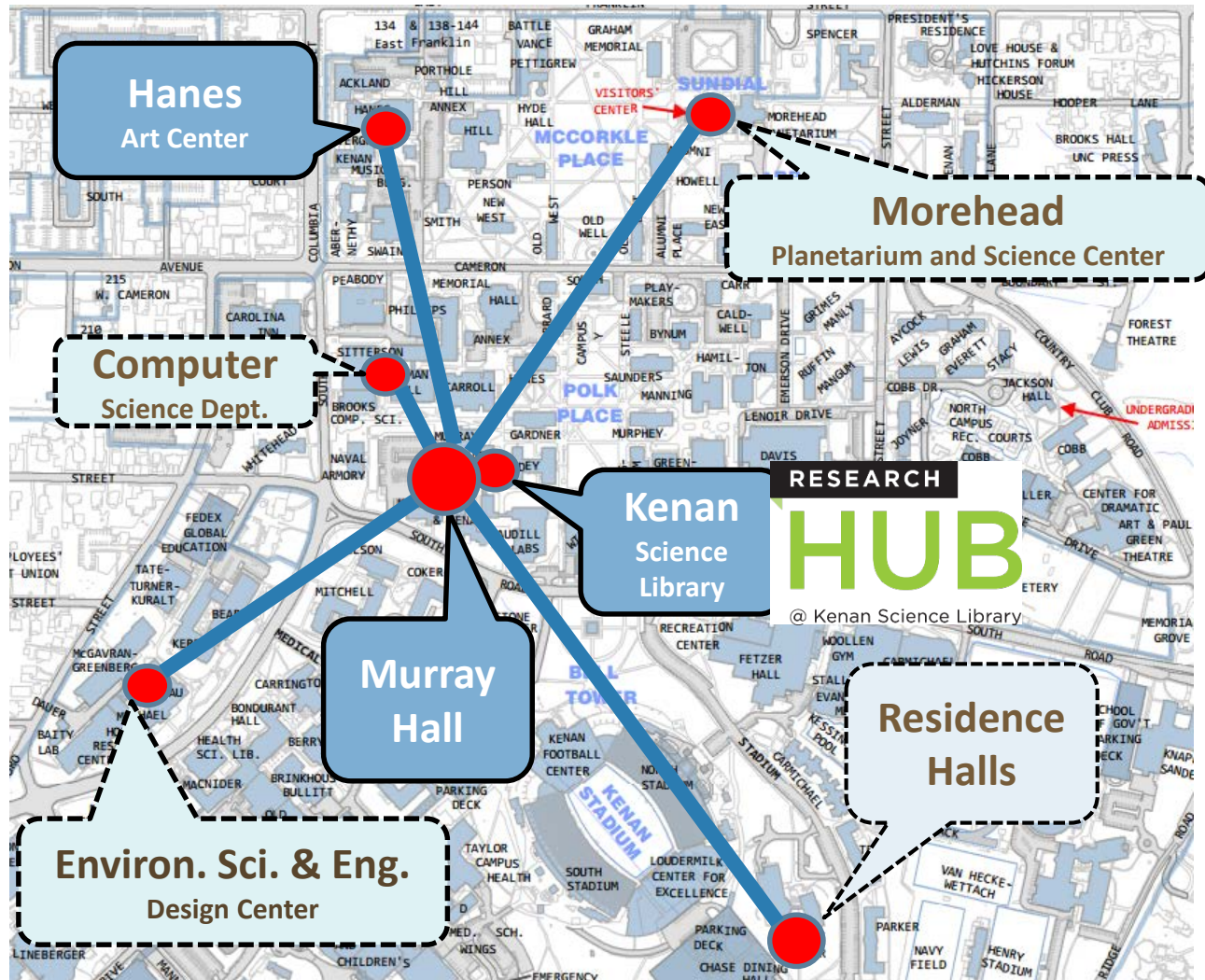
Student Life

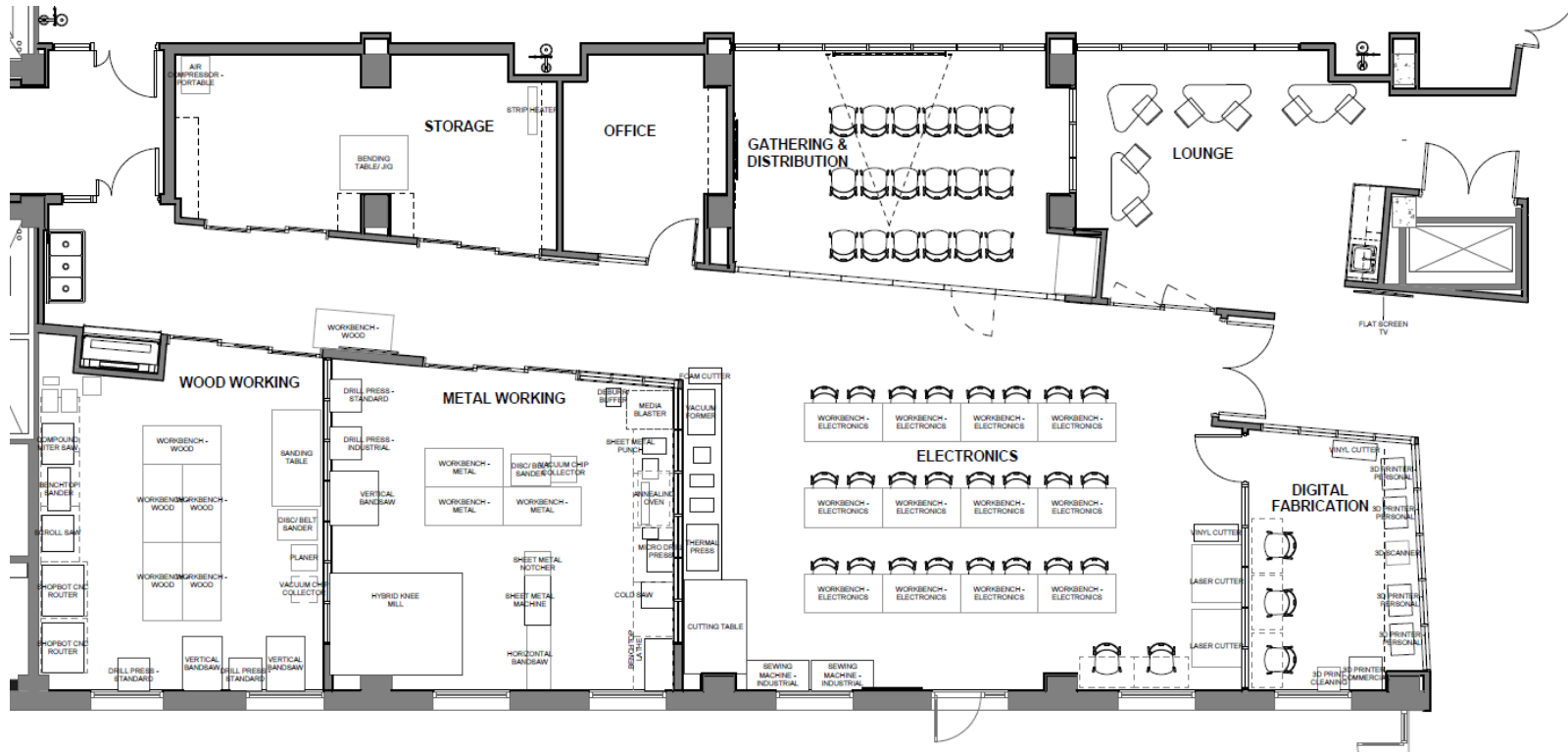
Vision: 50% of all Undergraduates will experience BeAM

Example: Maker in Residence Program



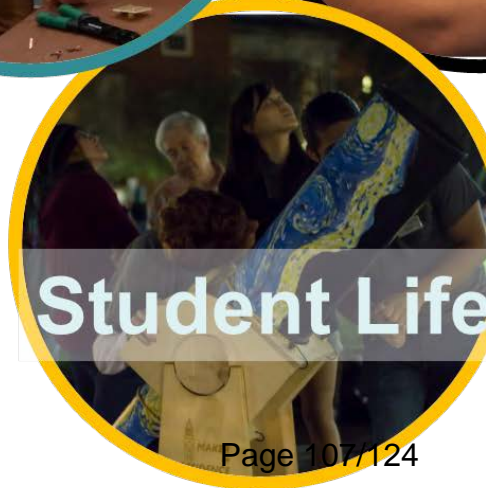
A
community
and culture of
innovation





BEAM

BE A MAKER



Framing Public Policies

Frank R. Baumgartner

Richard J. Richardson Distinguished Professor of Political Science

College of Arts & Sciences
Board of Trustees

March 24, 2016

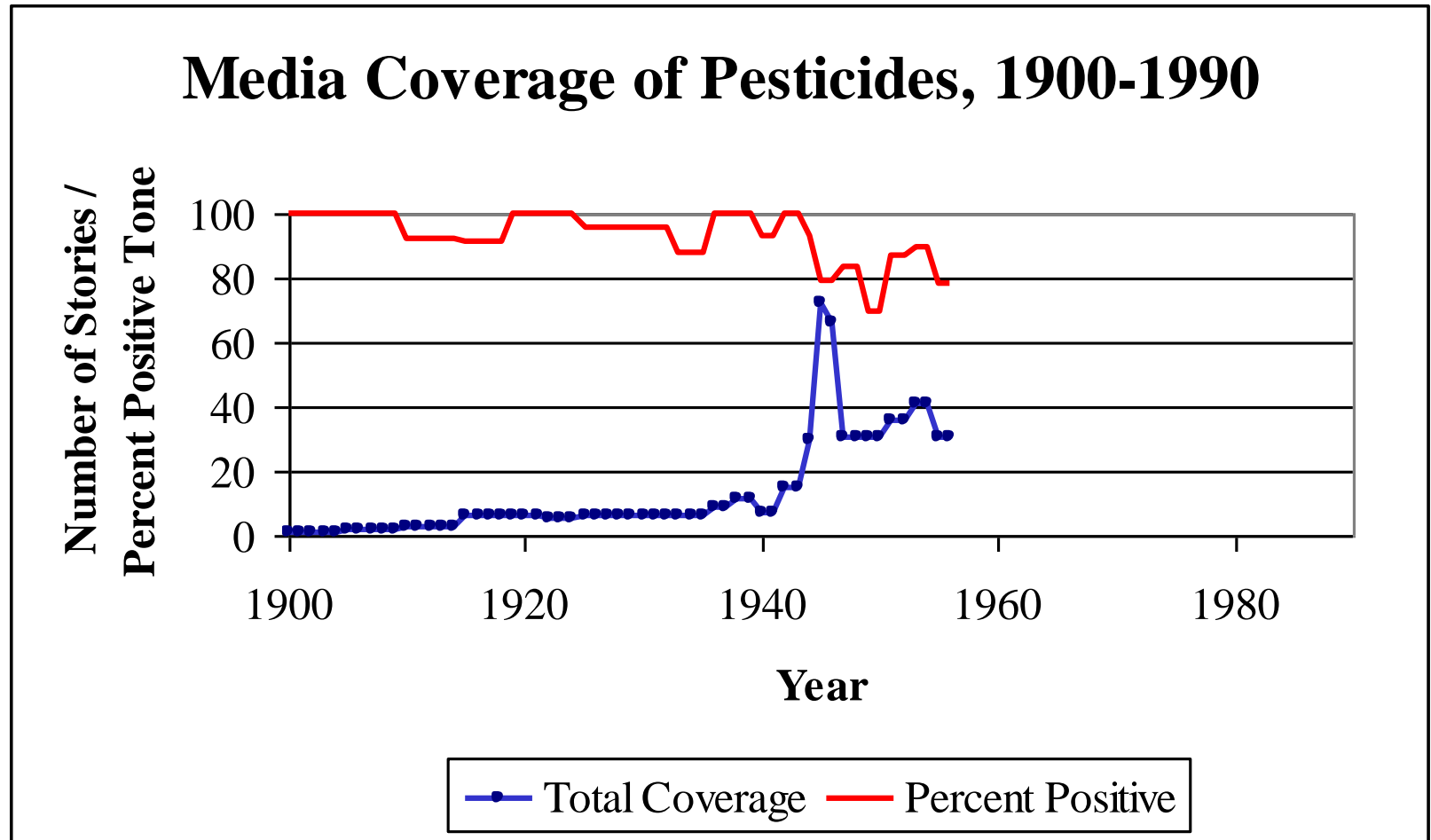


Some Background

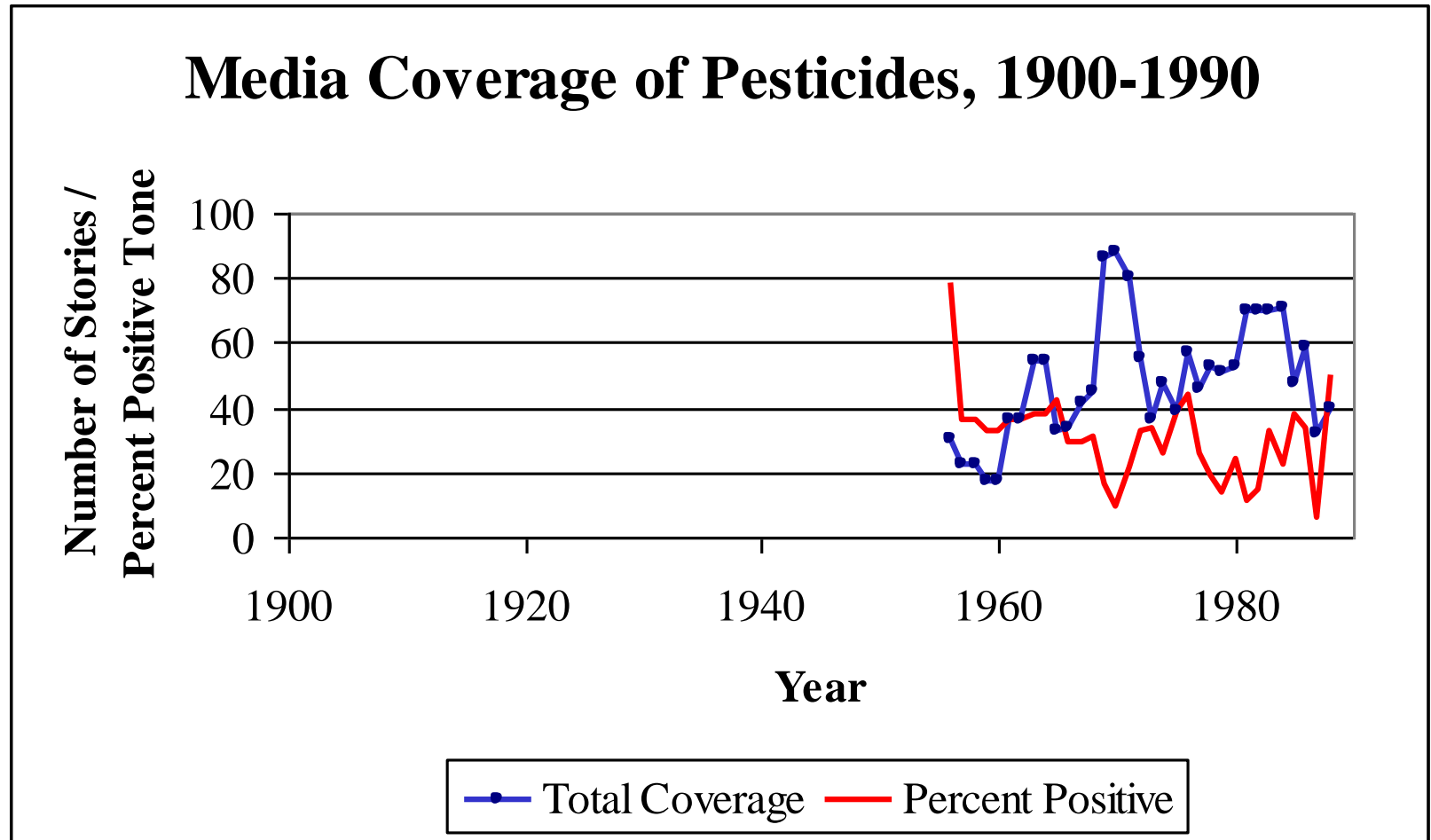
- Detroit public schools, local public university (University of Michigan), '80, '83, '86
- Faculty positions at the University of Iowa, Texas A&M, Penn State, finally here in 2009
- I teach everything from a huge lecture (265 students) on the death penalty to graduate seminars on agenda-setting, and framing.
- My research and my teaching are basically fused.
- I also hire a lot of students using the Richardson funds.



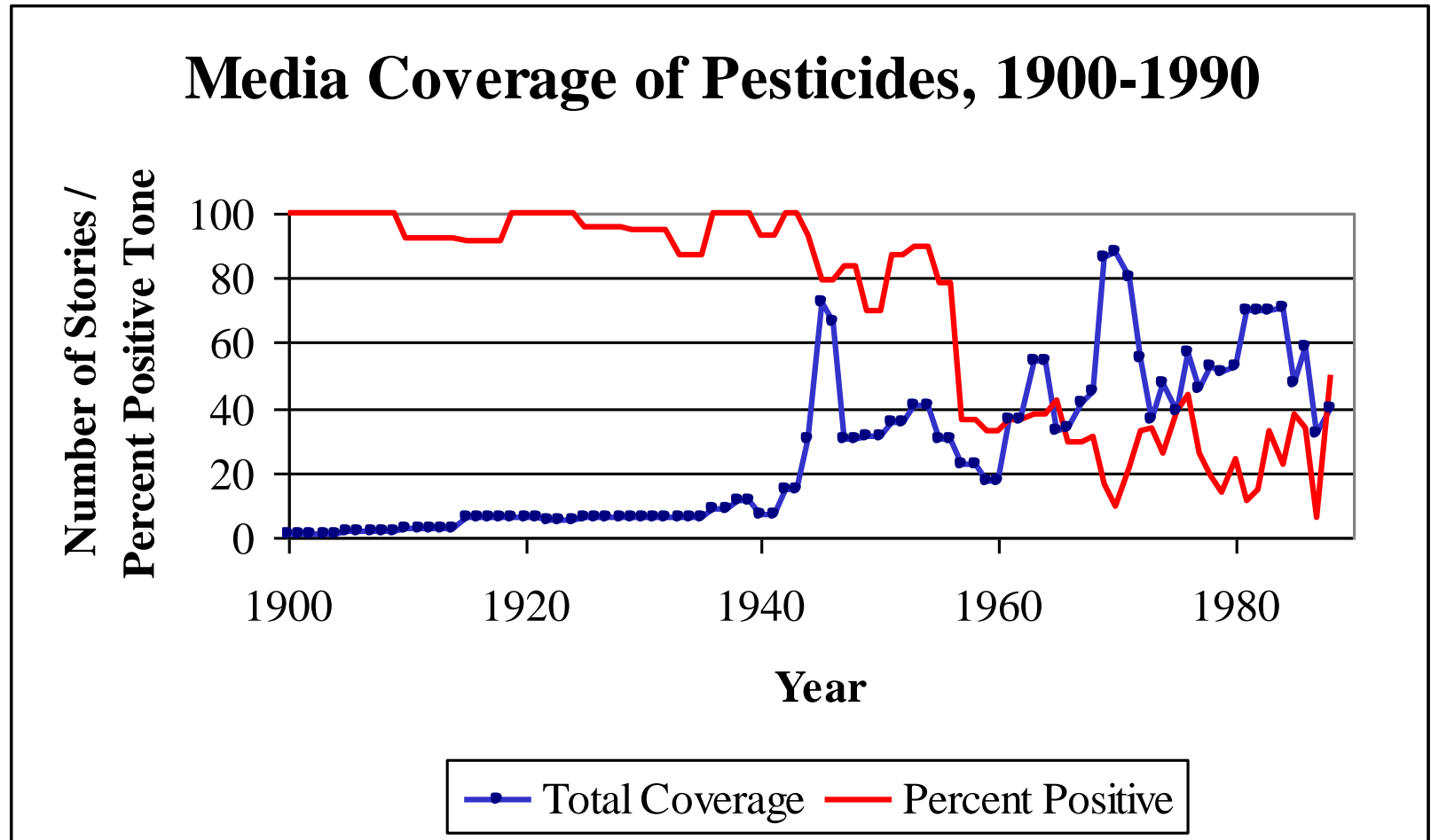
Pesticides: Looking good after World War Two



Pesticides: No longer such good news after 1956



Pesticides: From green revolution to nobody's baby

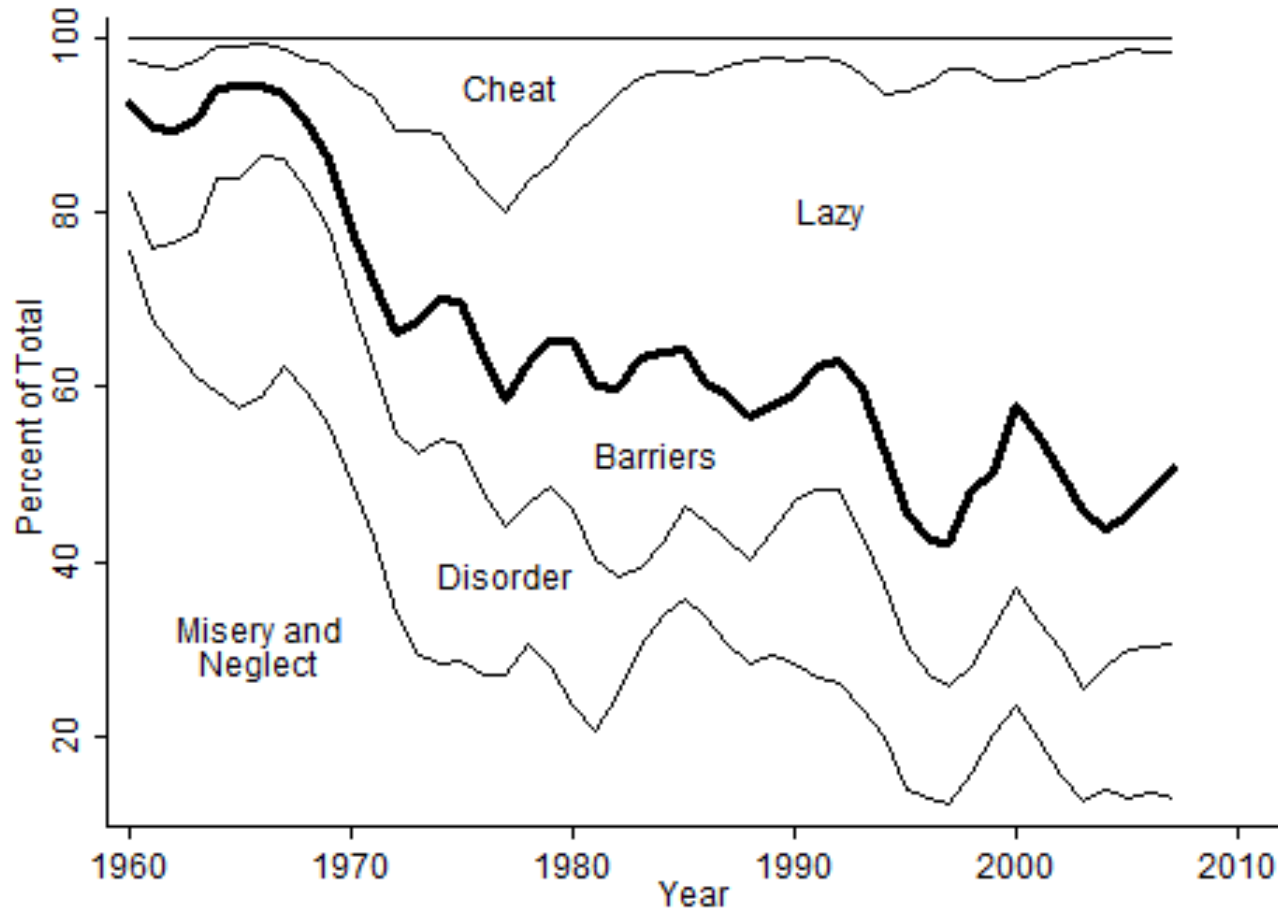


Can We Use Framing Data to Predict Policy Changes?

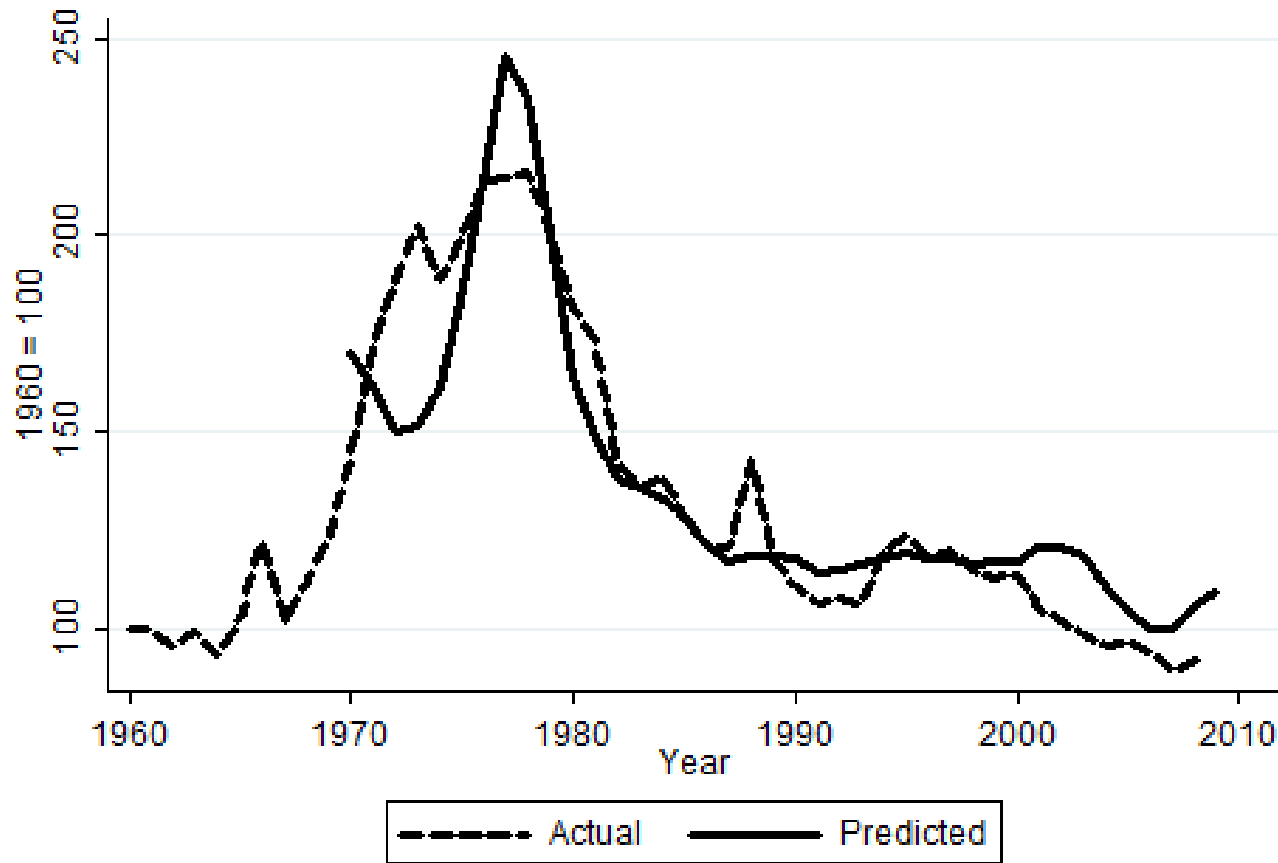
- Poverty and Spending on Anti-Poverty Programs
- Traffic Stops and Police Reforms
- Death Penalty: As the Debate shifts, opinion moves.
- NC Death Penalty: Reforms generate lower use, but prosecutors differ dramatically from state averages



Poverty Coverage: From Generous to Stingy



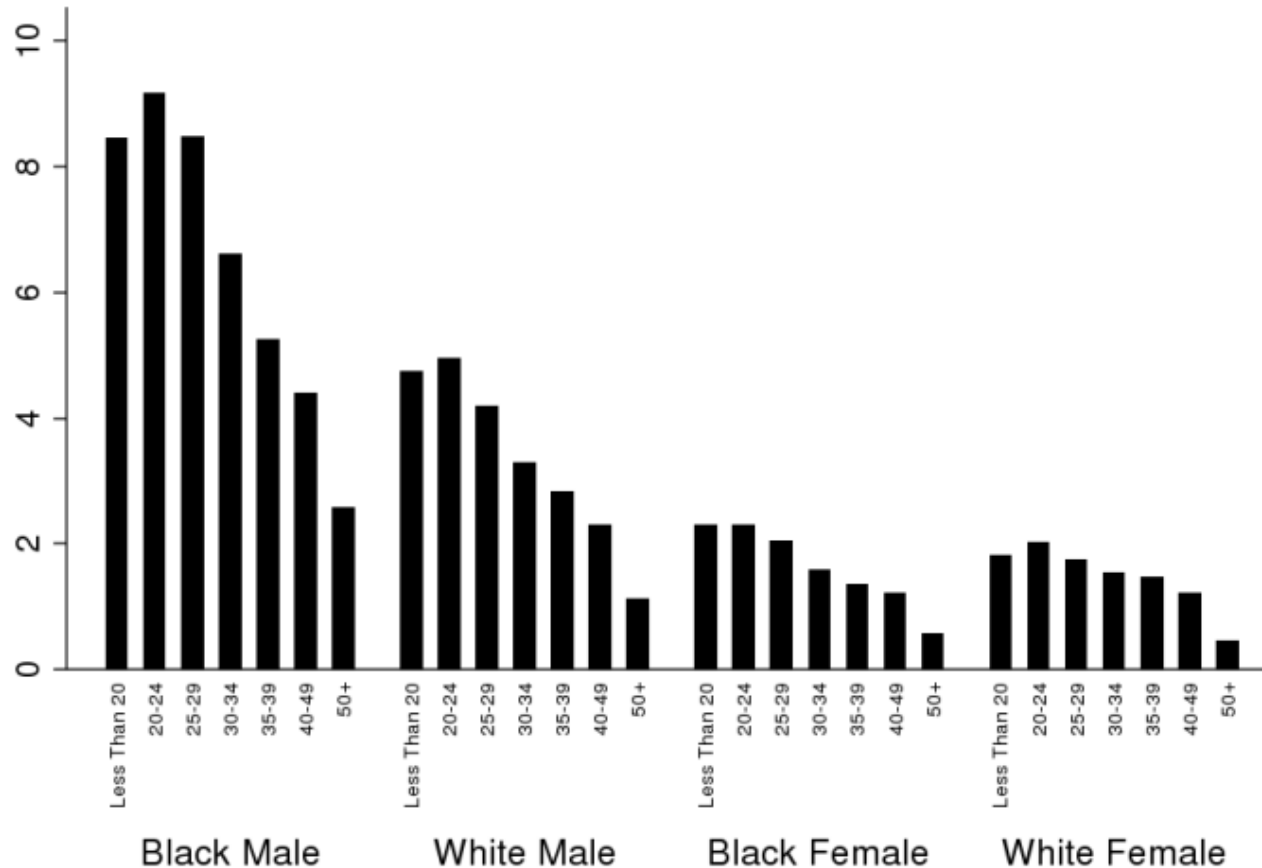
The Frame Predicts Spending 10 years Later



Adj. $R^2 = .82$



Odds of Search, following a Traffic Stop

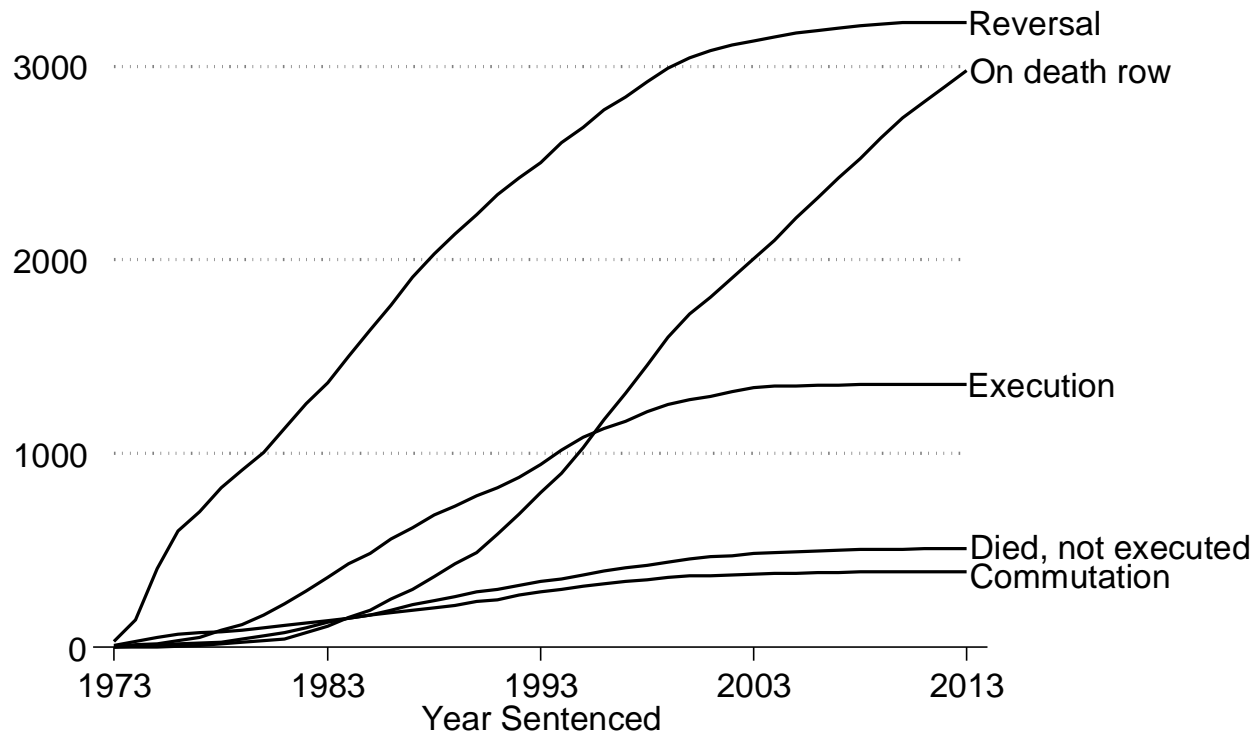


Based on 15,992,305 traffic stops from 2002 through 2013, and 511,813 searches. Overall rate of search: 3.20 percent.



Odds of Execution, Given a Death Sentence

The outcomes of death sentences

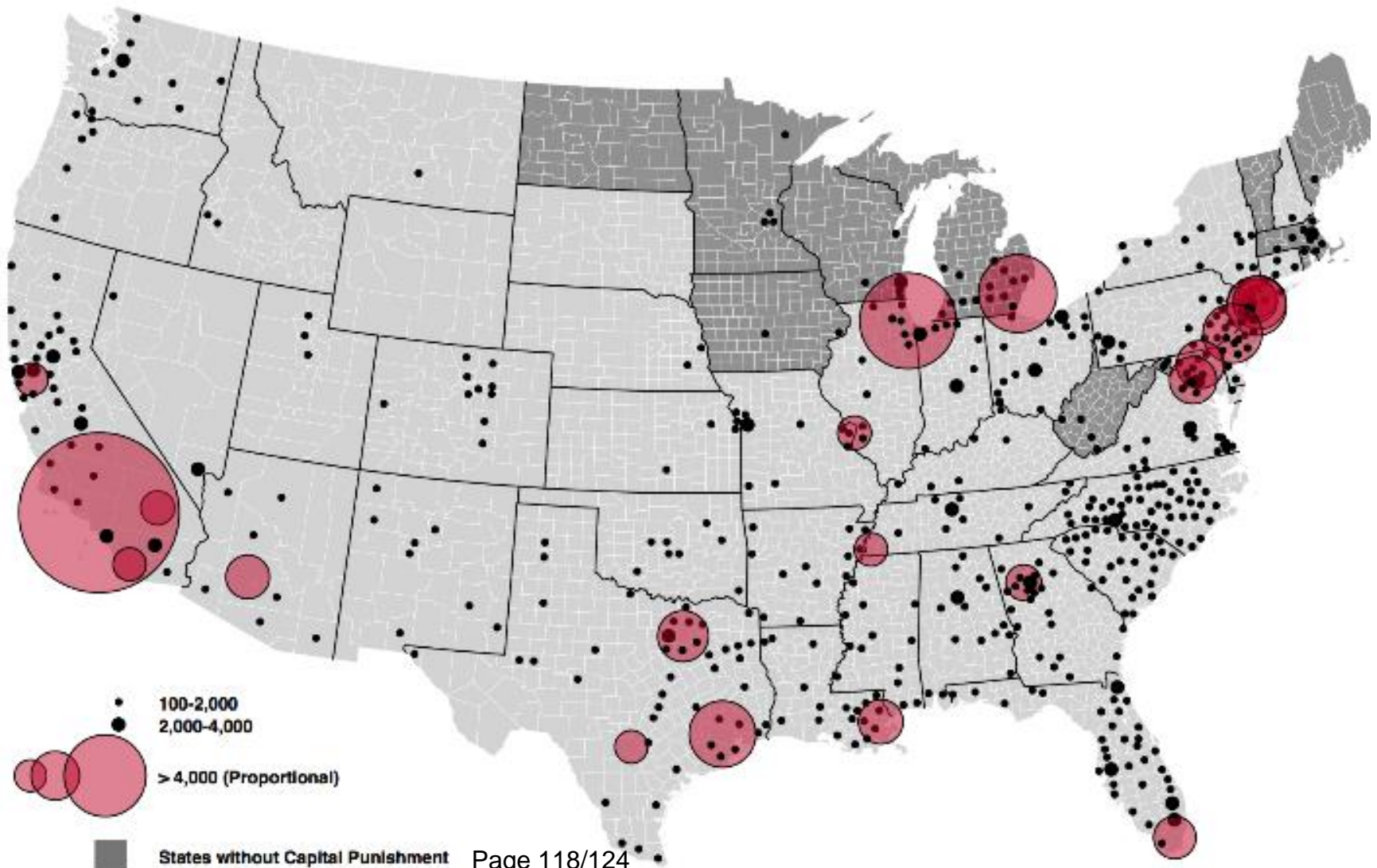


Data from Bureau of Justice Statistics Capital Punishment Series.



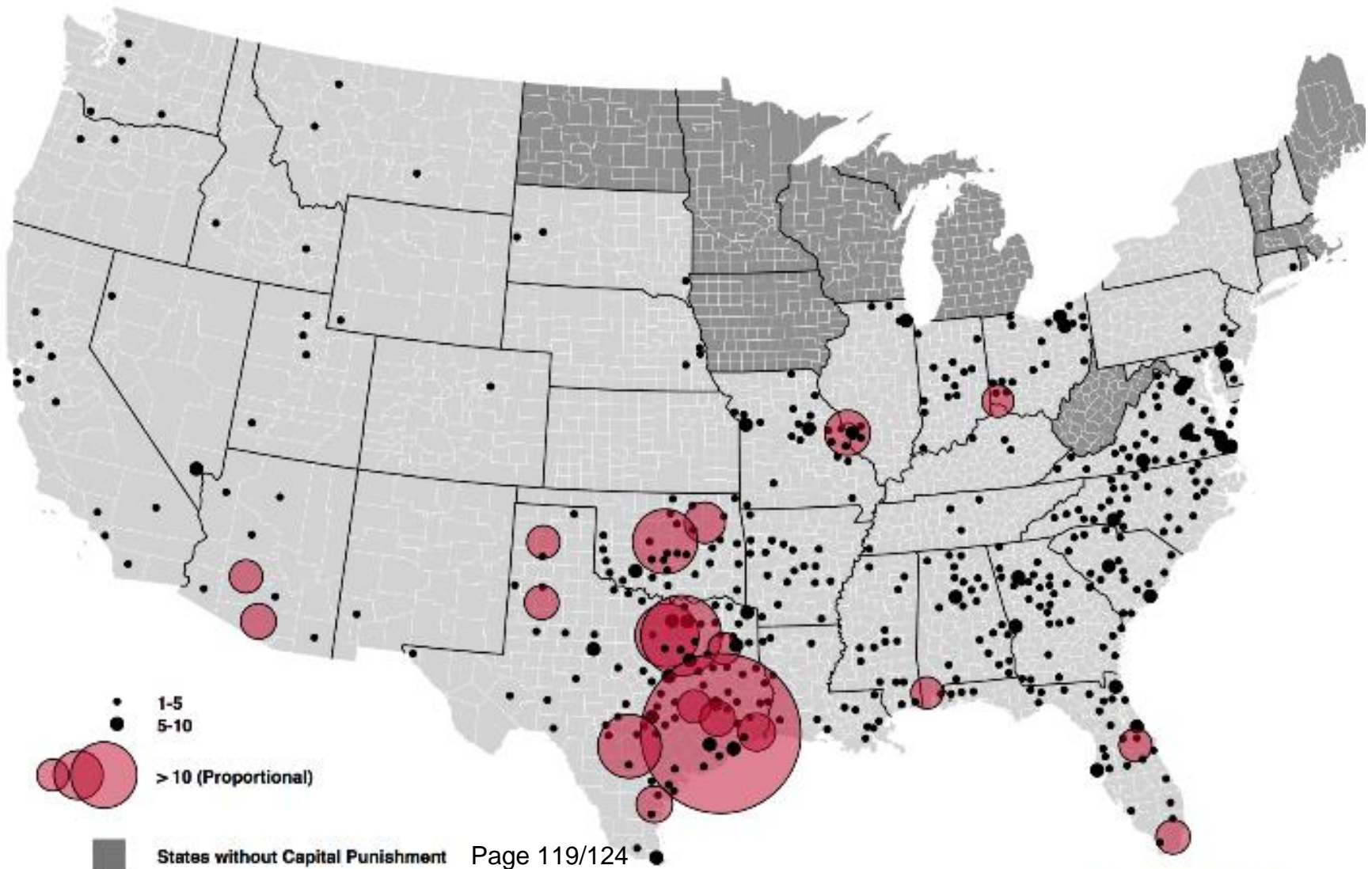
Homicides: LA, Chicago, Detroit, Phila-NY

Total Number of Homicides by County (1984 - 2012)

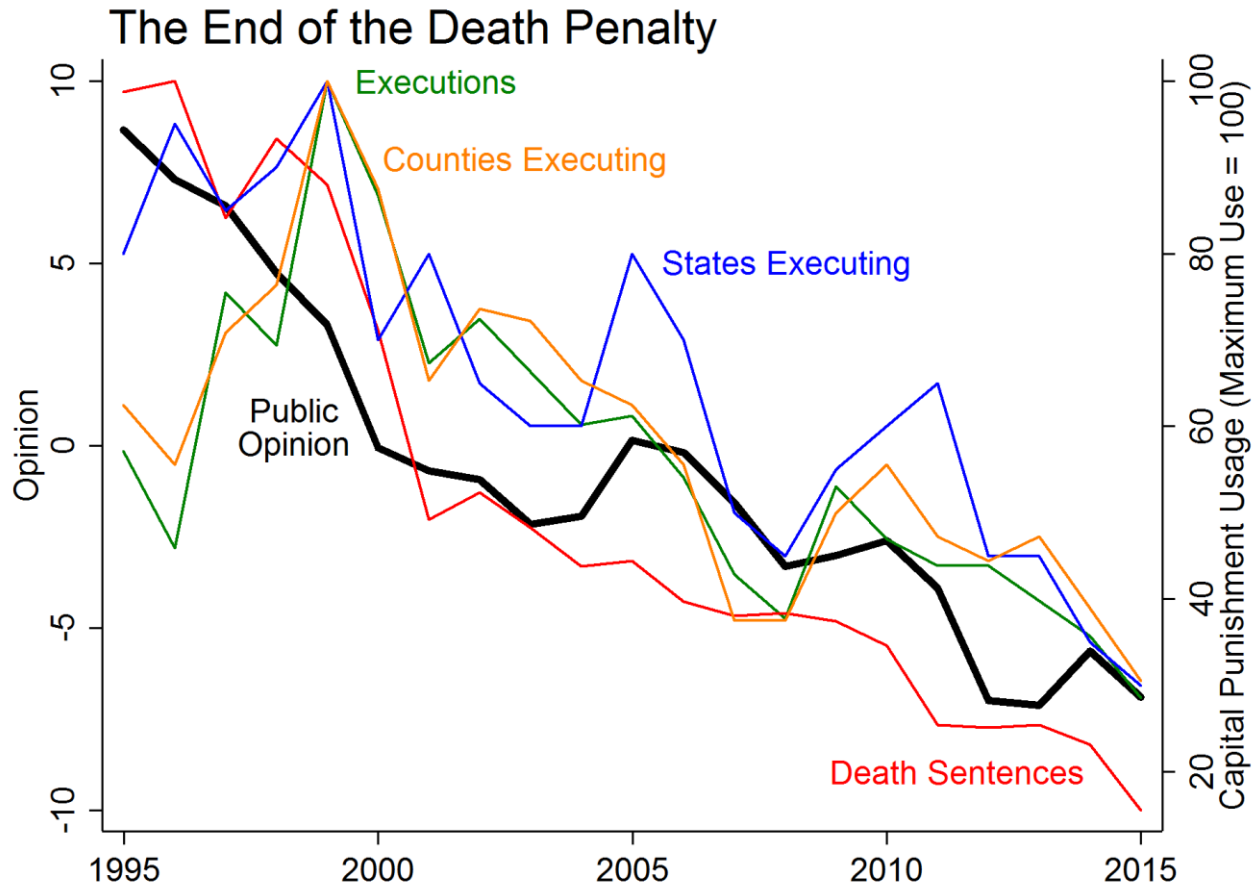


Executions: Houston, Dallas, Oklahoma

Total Number of Executions (1977-2014)

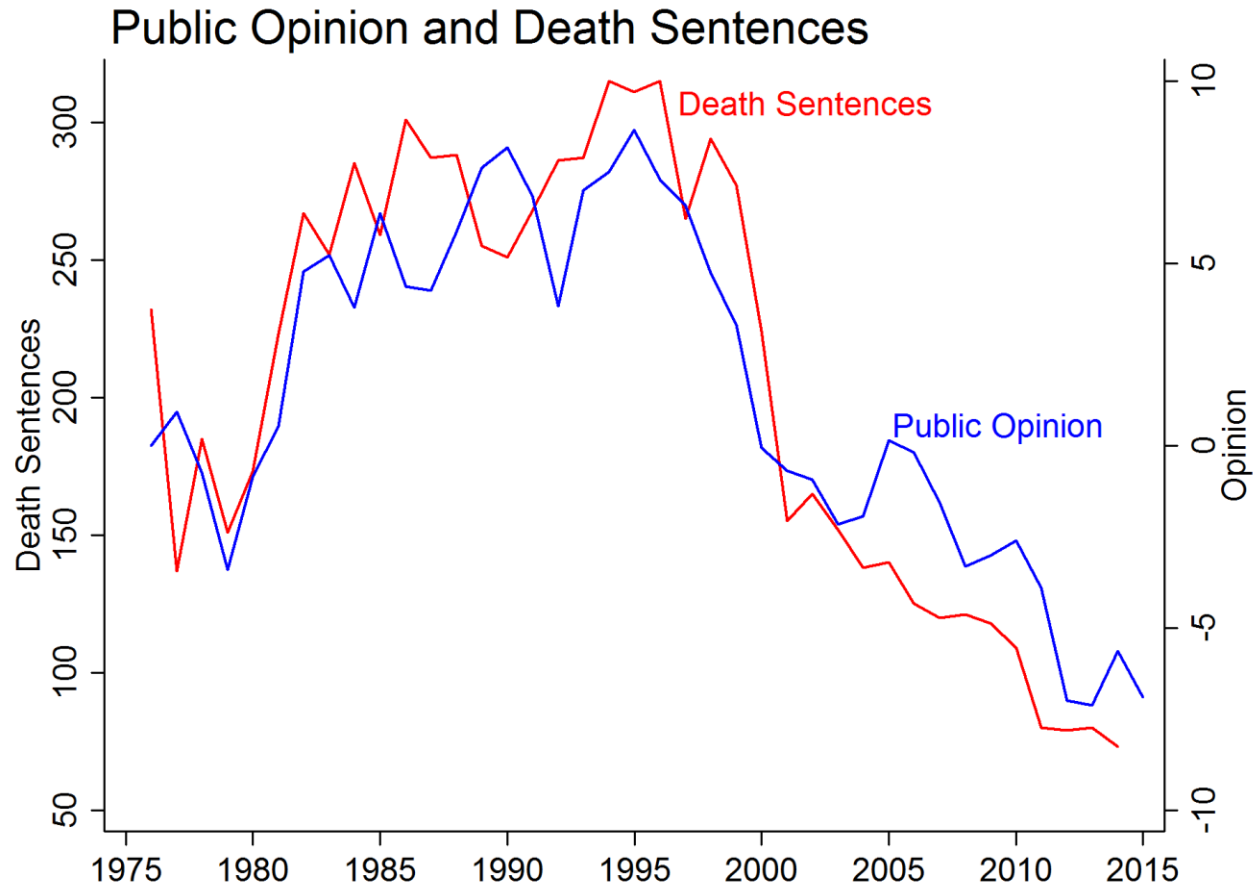


Increased Geographic Concentration



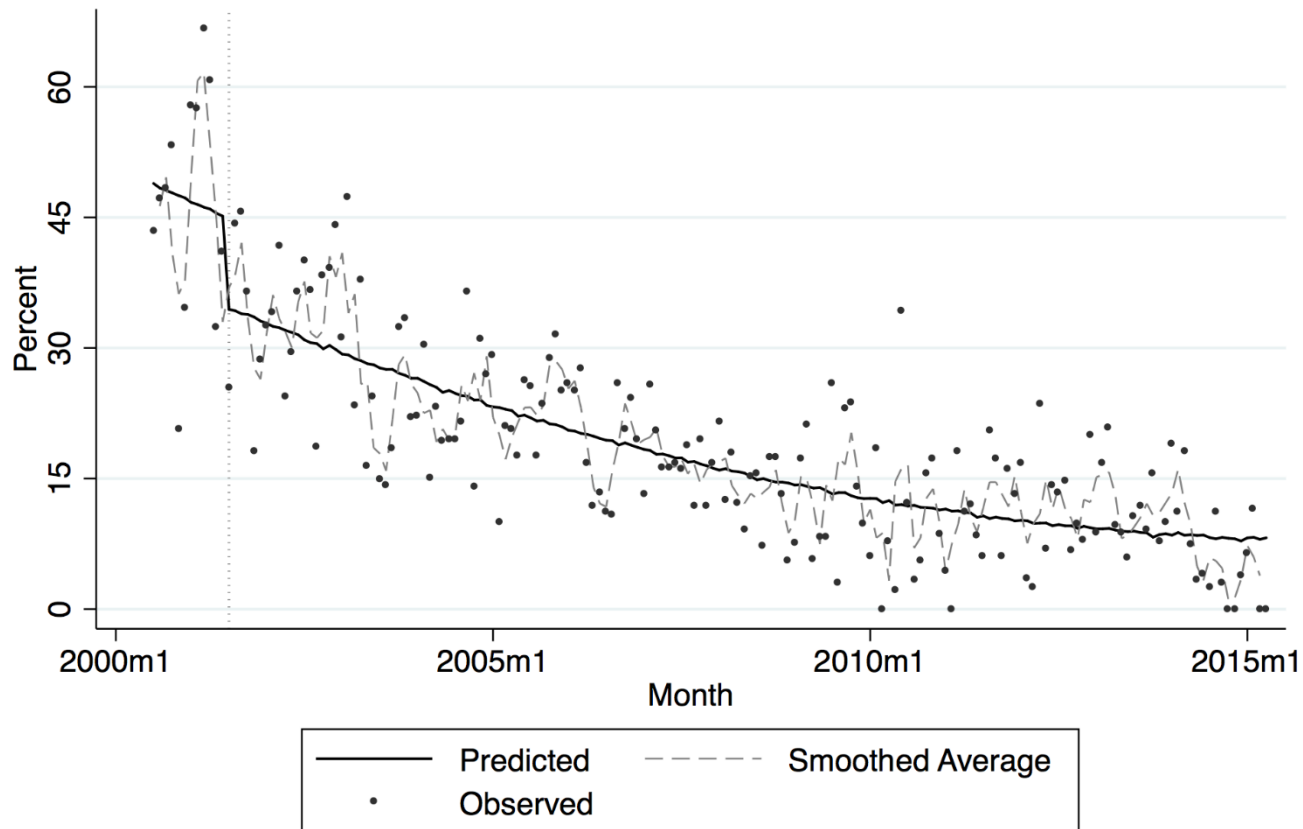
THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Public Opinion and Death Sentences



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Declining Capital Prosecution in NC



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All of this was co-authored with UNC students

- “Framing the Poor” – Max Rose ‘11
- “Driving While Black” – Kelsey Shoub (ABD) and Derek Epp (PhD ‘15)
- Death Penalty Reversal Rates – Anna Dietrich, ‘14
- Death Penalty Opinion – Emily Williams, ‘17 and Kaneesha Johnson, ‘16
- Death Penalty Geographic Concentration – Woody Gram, ‘15, Arvind Krishnamurthy, ‘17, Colin Wilson, ‘16, Kaneesha Johnson, ‘16
- Decline of NC Capital Prosecutions – Marty Davidson, ‘16



Thank you for the opportunity
to work with students like this!

Frank Baumgartner
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Professor of Political Science
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