OPEN SESSION

FOR INFORMATION ONLY
(No formal action is requested at this time)

1. Review Chancellor’s Innovation Summit
   Dana McMahan, Professor of the Practice, UNC School of Media
   & Journalism
   Judith Cone, Interim Vice Chancellor for Commercialization &
   Economic Development

2. Student Startup Presentation - CommuniGift
   Thomas Doochin, UNC Student Class of 2016

3. Faculty Entrepreneur Presentation - Spyryx Biosciences
   Rob Tarran, Associate Professor of Cell Biology and Physiology
   Don Rose, Director of Carolina KickStart

4. Discussion on Process for Creating Next Strategic Document to Guide
   the Work
   Lowry Caudill, UNC Board of Trustees

*Some of the business to be conducted is authorized by the N.C. Open Meetings Law to be
conducted in closed session.
Connection & Transparency
The Ability To See Impact of Donations Mattered Most

- Millennials: 60%
- Baby Boomers: 33%
S. Zenteno Family

This family consists of mom, dad, and 2 children. Husband is the only person working in the household and wife is going to school. To be able to make ends meet family comes to the salvation army to...

Their Wishlist

Adopt This Family

Keesha B. Family

Low Income Family with three boys

Their Wishlist

Adopt This Family

Tandra S. Family

The parents of Kevin and Susana are unable to provide gifts for their kids this holiday season. They are from Raleigh, NC.

Their Wishlist

Adopt This Family
as many people came and helped a family compared to other platforms.
## Our Nonprofit Partners

<table>
<thead>
<tr>
<th>Existing</th>
<th>On Our Radar</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Salvation Army" /></td>
<td><img src="image" alt="Girl Scouts" /></td>
</tr>
<tr>
<td><img src="image" alt="Operation Homefront" /></td>
<td><img src="image" alt="Boy Scouts of America" /></td>
</tr>
<tr>
<td><img src="image" alt="Boys &amp; Girls Clubs of America" /></td>
<td><img src="image" alt="Volunteers of America" /></td>
</tr>
<tr>
<td><img src="image" alt="Orange County North Carolina" /></td>
<td><img src="image" alt="Boy Scouts of America" /></td>
</tr>
<tr>
<td><img src="image" alt="Baby2Baby" /></td>
<td><img src="image" alt="Big Brothers Big Sisters" /></td>
</tr>
<tr>
<td><img src="image" alt="Delaware Health and Social Services" /></td>
<td></td>
</tr>
</tbody>
</table>
Future Possibilities

- Holidays
- Dinner Parties (Social Gatherings for Charity)
- Weddings
- Baby Showers
- Bar/Bat Mitzvah
My Carolina Experience

What’s Been Incredible:

Where We Can Improve
The Commercialization of SPLUNC1-Derived Peptides for the Treatment of Cystic Fibrosis Lung Disease

Robert Tarran, PhD
About Me

• Associate Professor in Cell Biology & Physiology
• Based in Marsico Lung Institute
• Funding from NIH, Charities and from Pharma
• 21 years of experience in studying ion channels & lung disease (CF, COPD, Asthma)
• Ongoing consultant for CF Foundation, Pharma
About Spyryx Biosciences

• Formed as a UNC NEO Spin out LLC by Tarran/Rose in 2013
• Formed Spyryx Biosciences (C-corp) in Jan 2015
• Achieved ~$18,000,000 in Series A in April 2015 (Hatteras, Canaan, 5AM)
• Raised $500,000 in non-diluted funds from Cystic Fibrosis Foundation in July 2015
Spyryx Biosciences

Team

- Rob Tarran, PhD – Founder, Director, & Chair SAB
- John Taylor – CEO & Chairman
  - VP Corp Dev, Synageva BioPharma
  - VP BD, Javelin Pharmaceuticals
- Dale Christensen, PhD – Head of Product Development
  - CSO, Oncotide
  - VP, Research & Business Development, Cognosci

Some Local Advisors

- Scott Donaldson, MD - Assoc Professor, Pulmonary Diseases and Critical Care Medicine – UNC School of Medicine
- Tony Hickey, PhD - Program Director, Inhaled Therapeutics - Research Triangle Institute
  - Founder - Cirrus Pharmaceuticals and Oriel Therapeutics
- Lynn Smiley, MD - Former Chief Medical Officer, Inspire Pharmaceuticals
Our Peptides Increase Hydration in Diseased Airways

In Vitro CF Samples

Cystic Fibrosis

Cystic Fibrosis Treated with our Peptide

CF, Vehicle

CF, S18
The Way Forward?

- Idea
- Get Funded
- Discovery
- File Patents
- Commercialize
- Move Towards Product Approval
- Product Approval
Is There a Way Forward?

Idea

Write a Grant

Not Enough Data

Try to Commercialize

Form Company

File Patents

Speak to Big Pharma

Speak to Biotech

Speak to VCs

Need more Data

Patents Rejected

Resubmit

Need more Data

Get Funded

Discovery

They Like the Data!

Speak to more VCs
What Did UNC Do For Me?

- SoM Bridge Funding (between NIH Grants)
- Helped with patents (OTD)
- NEO/Don Rose
  - Education (my on the job MBA)
  - Networking
  - Financial/accounting/legal
  - Some $$$
- Supportive Center Director & Chair
- NCBC Funding ($300,000 over 2 years was also key)
SPLUNC1 Peptide Therapeutics
Replacement Strategy

Normal Lung: pH 7.0
- Splunc1 available inhibitory domain in normal pH

CF Lung: pH 6.5
- Splunc1 unavailable inhibitory domain in acidic pH of CF lung

CF: pH 6.5
- Splunc1 available inhibitory domain, isolated peptide independent of pH

Normal Mucus
- CFTR
- Cl⁻/HCO₃⁻
- Na⁺

Thickened, Dehydrated Mucus
- ENaC
- Na⁺

Isolated Peptide
- Splunc1