

# Foundations in Cancer Therapeutics: Commercialization



**Foundations in Cancer Therapeutics: Commercialization, August 15-19, TAMU Institute of Biosciences and Technology Rm 1119**

Mon, August 15	Tues, August 16	Wed, August 17	Thurs, August 18	Fri, August 19
<p>9:00 Course overview</p> <p>9:30 Trainee Elevator Pitch Introductions</p> <p><b>10:00</b> Overview of Cancer Therapeutics Commercialization <b><u>Sarah Hein</u></b>, TMCi ACT</p> <p><b>10:30</b> Round table discussion</p> <p><b>10:50</b> Break</p> <p><b>11:05</b> Understanding the disease, need, target population, and market <b><u>Phil Jones</u></b>, MDA Institute for Applied Cancer Science (IACS)</p> <p><b>11:35</b> Round table discussion</p> <p><b>12:00</b> Lunch</p> <p><b>1:00</b> Big Picture Careers panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Rick Silva</u></b>, TAMU</li> <li><input type="checkbox"/> <b><u>Larry Hope</u></b>, MDA</li> <li><input type="checkbox"/> <b><u>Carla Kantara</u></b> Caris Life Sciences</li> <li><input type="checkbox"/> <b><u>Enrique Gomez</u></b>, TMCi ACT</li> </ul>	<p>9:30 Coffee and discussion: Takeaways from previous day</p> <p><b>10:00</b> Do I really have a lead and what are the end-game development goals? <b><u>Phil Jones</u></b>, IACS</p> <p><b>10:30</b> Round table discussion</p> <p><b>10:50</b> Break</p> <p><b>11:05</b> Strategies for when to file invention disclosure and patent, and when to license <b><u>Wei Wan</u></b>, TAMU</p> <p><b>11:35</b> Round table discussion</p> <p><b>12:00</b> Lunch</p> <p><b>1:00</b> Commercialization strategies: start a biotech vs outlicense from Academia <b><u>Andrew Strong</u></b>, Hogan Lovells</p> <p><b>1:40</b> Round table discussion</p> <p><b>2:00</b> Tech Strategy Careers Panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>John Shultz</u></b>, HMRI</li> <li><input type="checkbox"/> <b><u>Andrew Strong</u></b>, Hogan Lovells</li> <li><input type="checkbox"/> <b><u>Wei Wan</u></b>, TAMU</li> </ul>	<p>9:30 Coffee and discussion: Takeaways from previous day</p> <p><b>10:00</b> Funding strategies for drug development <b><u>Suzanne Tomlinson</u></b>, GCC</p> <p><b>10:30</b> Round table discussion</p> <p><b>10:50</b> Break</p> <p><b>11:05</b> Funding Careers Panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Shahila Christi</u></b>, Portal Ventures</li> <li><input type="checkbox"/> <b><u>Rima Chakrabarti</u></b>, KDT Ventures</li> <li><input type="checkbox"/> <b><u>Stan Watowich</u></b>, Ridgeline Therapeutics, UTMB</li> <li><input type="checkbox"/> <b><u>Michael Heffernan</u></b>, Fannin Innovation</li> </ul> <p><b>12:00</b> Lunch</p> <p><b>1:00</b> Preclinical studies/IND-enabling studies/IND <b><u>Diana Chow</u></b>, UH</p> <p><b>1:40</b> Round table discussion</p> <p><b>2:00</b> Preclinical Careers Panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Jeff Larson</u></b>, Tvardi</li> <li><input type="checkbox"/> <b><u>Huan Xie</u></b>, TSU</li> <li><input type="checkbox"/> <b><u>Jason Bock</u></b>, Cell Therapy Manufacturing Center</li> <li><input type="checkbox"/> <b><u>Mick Soth</u></b>, IACS, MDA</li> <li><input type="checkbox"/> <b><u>Wenshe Liu</u></b>, TAMU</li> </ul>	<p>9:30 Coffee and discussion: Takeaways from previous day</p> <p><b>10:00</b> Clinical Trials <b><u>Sujatha Sridhar</u></b>, UTH</p> <p><b>10:30</b> Round table discussion</p> <p><b>10:50</b> Break</p> <p><b>11:05</b> Clinical Trials Careers Panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Dina Aziz</u></b>, MDA</li> <li><input type="checkbox"/> <b><u>Sheila Ryan</u></b>, BCM</li> <li><input type="checkbox"/> <b><u>Amy Hazen</u></b>, UTHealth</li> </ul> <p><b>12:00</b> Lunch</p> <p><b>1:00</b> NDA and Post approval <b><u>Mansoor Khan</u></b>, TAMU</p> <p><b>1:40</b> Round table discussion</p> <p><b>2:00</b> Regulatory and Marketing Careers Panel</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Mansoor Khan</u></b>, TAMU</li> <li><input type="checkbox"/> <b><u>Connie Coulomb</u></b>, Biopharma Capital</li> <li><input type="checkbox"/> <b><u>Sahar Paz</u></b>, Own Your Voice Strategy</li> </ul>	<p>9:30 Coffee and discussion: Takeaways from previous day</p> <p><b>10:00</b> Houston Therapeutics Landscape <b><u>Tom Luby</u></b>, TMCi ACT</p> <p><b>10:30</b> Trainee elevator pitch presentations</p> <p><b>11:15</b> Break</p> <p><b>11:30</b> Houston Biotech Showcase</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><u>Fannin Innovation</u></b>, <b><u>Christine Luk</u></b></li> <li><input type="checkbox"/> <b><u>IACS Pharmacology</u></b> <b><u>Lisa Mustachio</u></b> <b><u>Medicinal Chemistry</u></b> <b><u>Edith Nagy</u></b></li> <li><input type="checkbox"/> <b><u>Hope Biosciences</u></b> <b><u>Hosu Kim</u></b>, <b><u>Christopher Lewsi</u></b>, <b><u>Nader Lotfi</u></b></li> <li><input type="checkbox"/> <b><u>Hummingbird Bioscience</u></b> <b><u>Leah DiMascio</u></b></li> <li><input type="checkbox"/> <b><u>Ridgeline Therapeutics</u></b> <b><u>Stan Watowich</u></b></li> <li><input type="checkbox"/> <b><u>Salaris Pharmaceuticals</u></b> <b><u>Aundrietta Duncan</u></b>, <b><u>Annie Yan</u></b></li> <li><input type="checkbox"/> <b><u>TMC Innovation</u></b> <b><u>Ahmed AlRawi</u></b></li> </ul> <p><b>12:00</b> Lunch and Networking</p>



- 13 postdoctoral fellows (CTTP and IDDD)
- >40 speakers (academic and industry)
- ~ 150 auditing virtually

**Expand your network!**



Merck Course taught by Dr. Zhiqiang An, UTHealth  
August 14-18, 2023

**Sample Topics:**

- Target Identification
- Target Validation
- Lead Identification
- Lead Optimization
- Biologics
- Intro to Vaccines
- Vaccine Classification and Manufacturing
- Vaccine Development and Safety Monitoring
- Formulation Activities
- Drug Metabolism and Pharmacokinetics
- Nonclinical Safety Assessment
- Clinical Development
- Phase 1-3 Trials
- New Drug Application and FDA Review and Approval Process
- Importance of Patient Diversity in CTs
- Who Regulates?
- Drug Labeling
- Global Regulatory Strategy

# Postdoc Survey 200+ Postdocs

## Drug Disc./Dev. Training

- Drug screening
- Drug optimization
- Preclinical development
- Commercialization

## Specialized Technologies

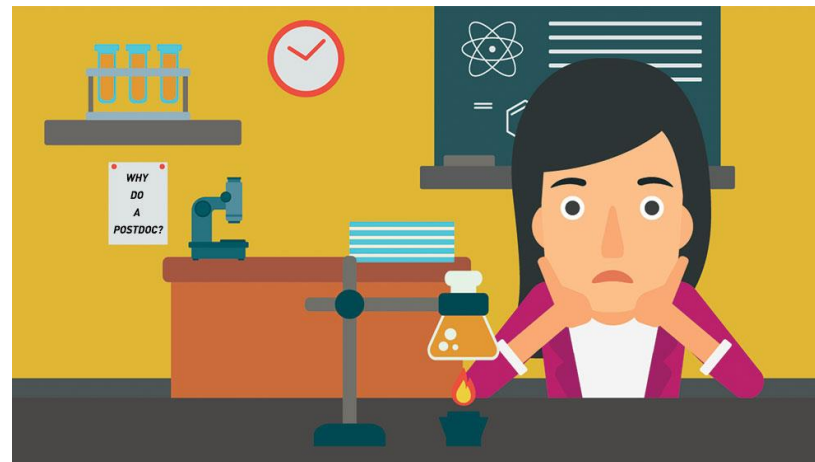
- High end computational programs
- Mass Spec
- Flow Cytometry
- Drug screening
- ADME and PK/PD

## Collaboration opportunities

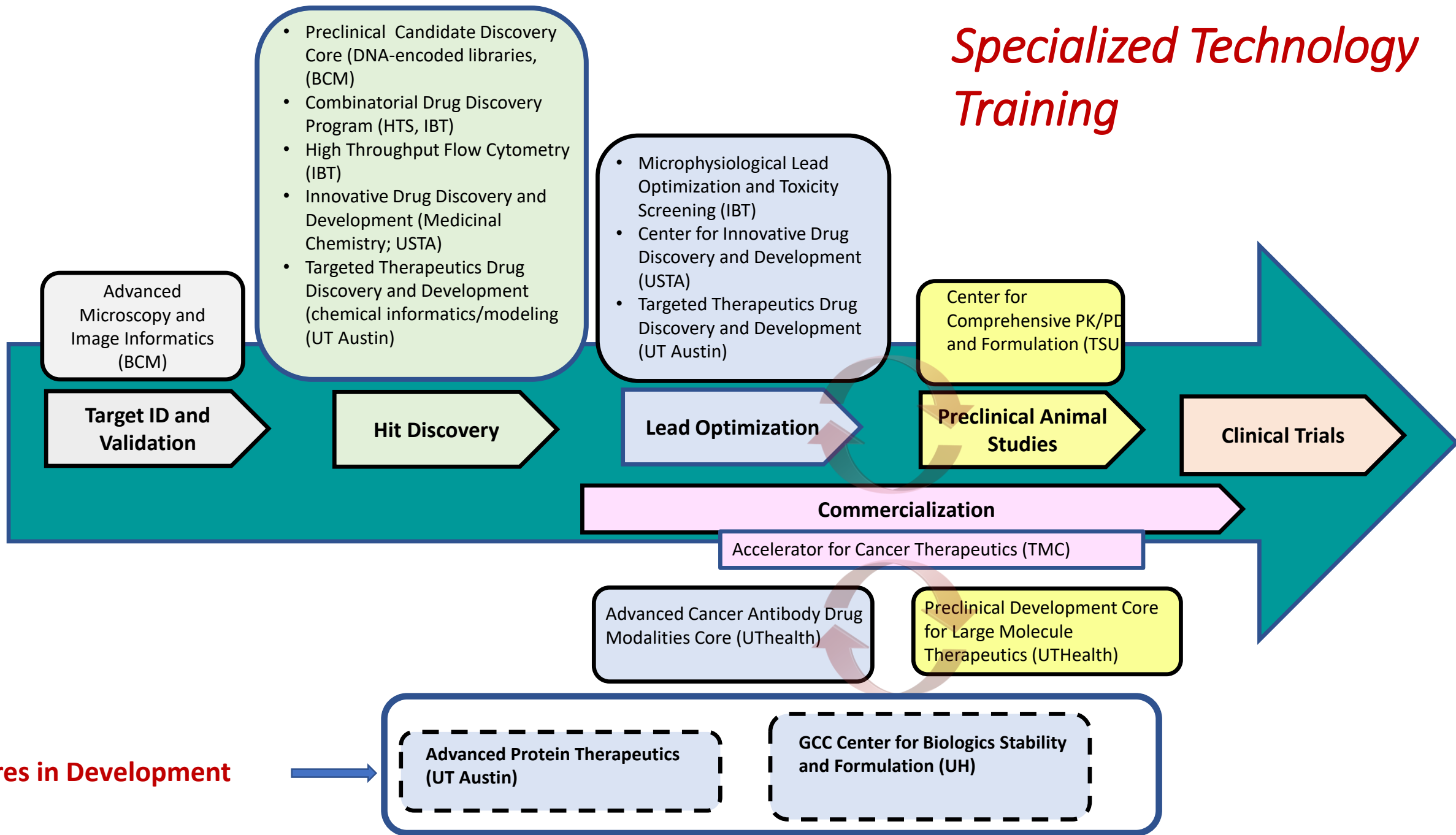
- Biotech/pharma executives
- Physicians treating cancer
- Clinical trial coordinators
- Postdocs without PI

## Career Development

- Presentation/persuasive skills
- Scientific and Grant writing
- Work-life balance
- Website development



# Specialized Technology Training





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*Networking events for trainees to interact with each other and biotech and pharmaceutical executives and scientists*





# Elevator Pitches





UPCOMING  
EVENTS

# IDDD Round Table Workshops

*Monthly series (2<sup>nd</sup> Thursday) of dialogues, seminars, and workshops to advance drug discovery, development, and commercialization*

## Drug development

- Effective discovery approaches
- Drug re-purposing
- Structure-based drug optimization
- Monoclonal antibody development
- Biologics
- Pharmacogenomics
- ADME (lead evaluation & optimization)
- Formulation
- IND-enabling studies



## Strategic considerations

- Target Product Profile
- Intellectual property
- Starting a biotech company
- Managing a biotech company
- SBIR/STTR grants
- VC and angel investors
- Persuasive presentations
- Pharma partnerships
- Clinical trial design

# Diversity, Disparities and Community Engagement in Healthcare

*New 1-day workshop on the importance of engaging underrepresented minorities in healthcare research*

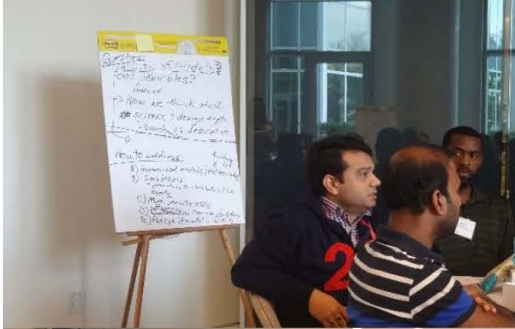
## Topics include:

- Educational pipeline and scientific research workforce diversity
- History and Ethics: Ethnic minority representation in drug development
- Community-based organization panel
- Dynamics of community-based participatory research in engaging ethnic minorities in drug development and healthcare
- Multiprong approach to closing health disparity gaps
- Impact of engaging ethnic minorities in clinical trials
- New strategies

*Launch date September 13, 2022*







October 17

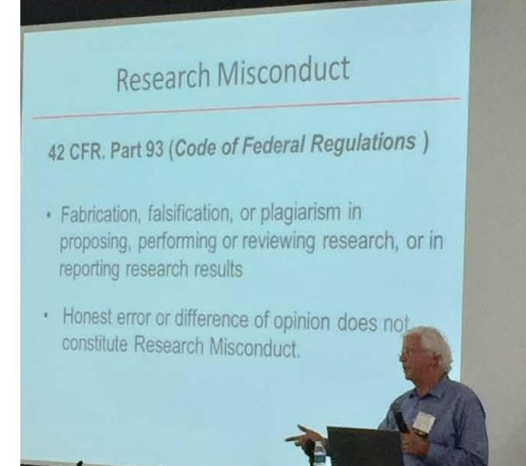
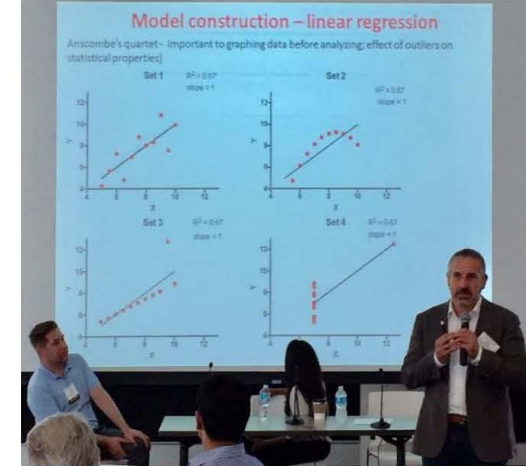


# Rigor & Reproducibility Workshop

1<sup>st</sup> place winner of the AAMC 2017 Innovations in Research and Research Education Award



Association of American Medical Colleges





32<sup>nd</sup> Keck Annual  
Research Conference

# Structural Biology: Past, Present, and Future

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Friday, October 21

BioScience Research Collaborative, 6500 Main St.

## Speakers

- Edward Egelman, University of Virginia
- Youxing Jang, UT Southwestern
- Naoko Mizuno, NIH/NHLBI
- Gabrielle Rudenko, UT Medical Branch, Galveston
- Scott Stagg, Florida State University
- Tom Terwilliger, Los Alamos National Lab

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Plus 70 posters in biomedical informatics and data science, computational biology, molecular biophysics, integrative pharmacology, precision environmental health, antimicrobial resistance, infectious diseases, and cancer therapeutics

## Organizers

- Xiaodong Cheng, MD Anderson Cancer Center
- Irina Serysheva, UTHealth
- Mariah Baker, UTHealth
- Gundeep Kur, MD Anderson Cancer Center

Sponsored by Keck Center Training Programs  
and institutions of the Gulf Coast Consortia





- **2022**
- IDDD Foundations in Cancer Therapeutics: Commercialization, August 15-19
- #Pain2022 Workshop, Aug. 19
- IDDD Roundtable Workshop, Accelerator for Cancer Therapeutics, Sept. 8
- Diversity, Disparities and Community Engagement in Healthcare, Sept 13
- Diversity, Disparities and Community Engagement in Healthcare Research, September 13
- Jr. Faculty Professional Branding Workshop, September 15
- #Pain2022 Workshop, Sept. 16
- Mental Health Research Conference, September 21-22
- Regenerative Medicine Conference, October 12
- IDDD Roundtable ADME Extended Workshop, Oct. 13
- Rigor and Reproducibility, October 17
- Keck Annual Research Conference Structural Biology: Past, Present, and Future, October 21
- 3<sup>rd</sup> Annual Single Cell Omics Conference, October 26
- IDDD Roundtable Workshop Single Cell Omics, Nov. 10
- Cellular and Molecular Biophysics Workshop on AI and Machine Learning, November 15-16
- IDDD AI in Coding, Dec. 8
  
- **2023**
- Innovative Drug Discovery and Development Conference, May 9-10



# Elevator Pitches

- Tailor it to your audience
  - Conference
  - Job fair
  - Business meetings
- You may need more than one
- 2 minutes is not a hard and fast rule
- Write it down
- Practice
- Get feedback
- Revise and improve



# Cancer Therapeutics Training Program (CTTP)

Program Leadership Team



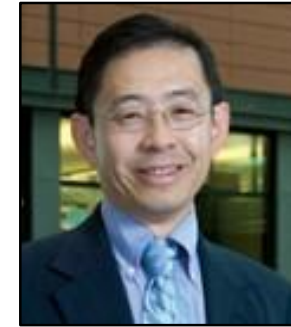
Peter  
Davies  
IBT / TAMU



Wenshe Liu  
TAMU



Suzanne  
Tomlinson  
GCC



Zhiqiang An  
UTHealth



Elizabeth Lawrence,  
GCC



Karen Ethun  
GCC