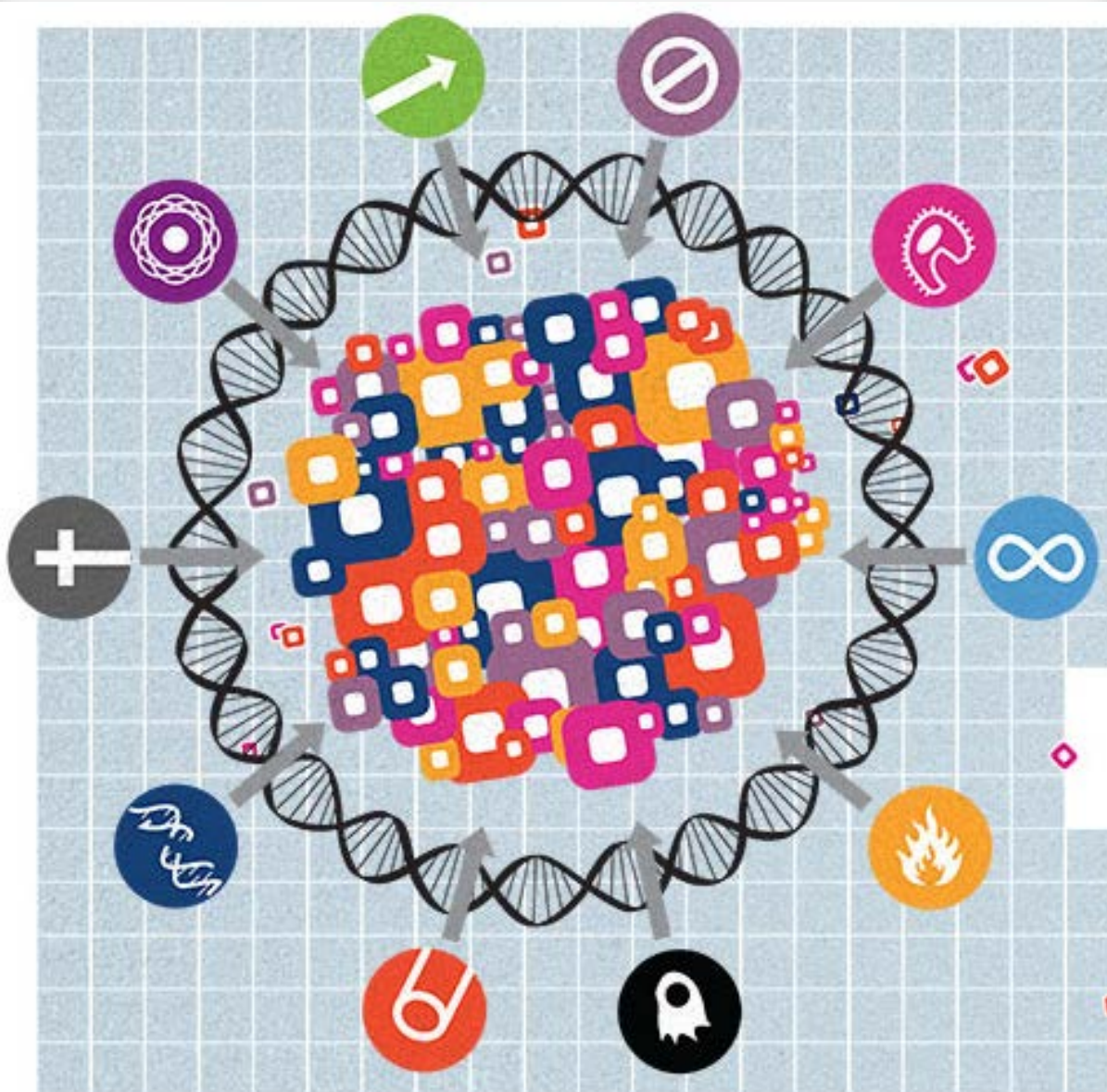


# • The Cancer Biology Program

## Top 10 Program Features

Anschutz Medical Campus 2023-2024



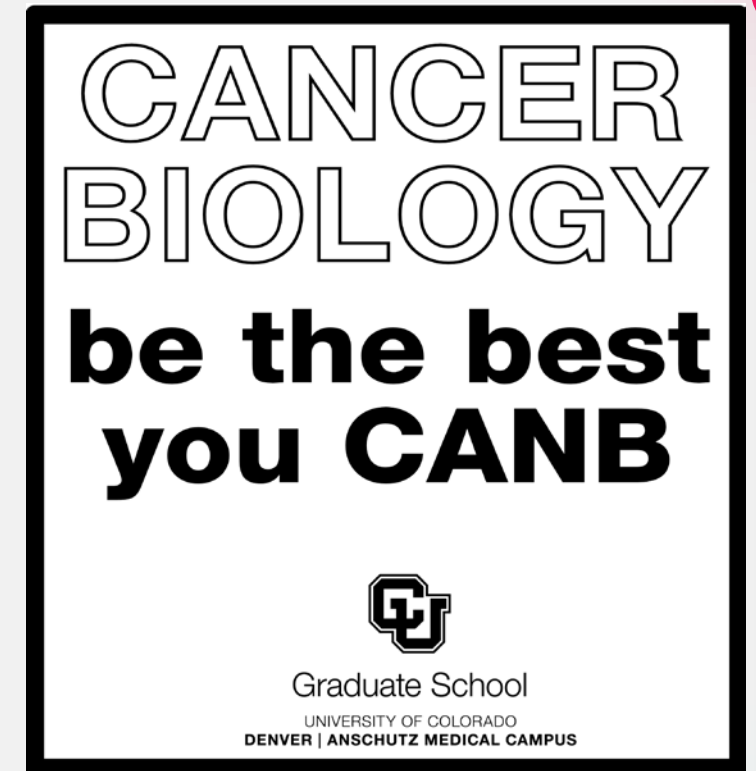


# Cancer Biology Top 10 Program Features



# 1. We have an amazing CANB community!

- SAB: Student Advisory Board
  - Established in 2017
  - A board of students representing years 2-5+ and BSP and MSTP students
  - Acts as a liaison between students and faculty, making sure both student and faculty needs are met
    - Monthly coffee and happy hours
  - Curriculum development, program direction
  - Representative at faculty steering meetings
- Round Table
  - Student led meetings for scientific discussions and student collaborations
    - “Safe Space” without faculty
    - Rotation practice talks with senior students
    - Comps practice
    - Journal clubs





## 2. CANB students are highly successful in receiving individual funding

- Over 50% of our students secure individual fellowship funding during the graduate school tenure
- These opportunities include support from:
  - NIH/NCI (F30/F31, F99-K00)
  - NIH T32 Fellowships
    - Cancer Biology Program
    - Lung – Head and Neck Program
    - Otolaryngology
  - Colorado Clinical and Translations Sciences Institute TOTTS Program (CCTSI)
  - RNA Bioscience Initiative RNA Scholars
  - NSF GRFP
  - Others
  - \*Fellowships are not required!



# 3. We have a CANB program-specific T32 training grant

- A T32 is a mark of a mature, high quality program as recognized by the NIH
  - Exemplifies rigor and success past students have had in our program
- Integrated training community with both pre- and post-docs
  - 5 Pre-doc slots
- Annual T32 Symposia held in addition to weekly RIP Talks
- Numerous Training Opportunities for Scientific and Career Advancement
  - CABTRAC – Cancer Biology Training Consortium Conference
  - Workshops and Short Courses
  - Career Panels
  - Much more



# 4. We partner with the CU Cancer Center!

- This partnership includes:
  - Joint Cancer Biology program seminar series
  - Funding (Seminars and programming)
  - Jointly sponsor workshops (Animal Models, Proteomics)



University of Colorado Cancer Center

SYMPOSIUM SERIES



# 5. We have a CANB Annual retreat!

- One day or over night retreat for all CANB Students, Post-docs and Faculty.
- Network with Distinguished Invited Keynote Speakers:
- 2024: Dr. Bill Muller (McGill University): **Oncogene-Mediated Signaling in Genetic Engineered Mouse Models of Human Breast Cancer**
- Receive feedback from CANB students/faculty during poster and oral presentations
- Attend career panel featuring academia, industry, science writing.
- Wellness session
- Patient Advocates



# 6. First year Cancer Biology Curriculum

- Journal Club

- Student led with a faculty advisor. Once weekly.

- Core Topic Classes

- Cancer Biology

- Pathobiology of Cancer (Early January)

- ~Two weeks, every day

- Cancer Biology and Grant Writing in Cancer Biology Joint Course

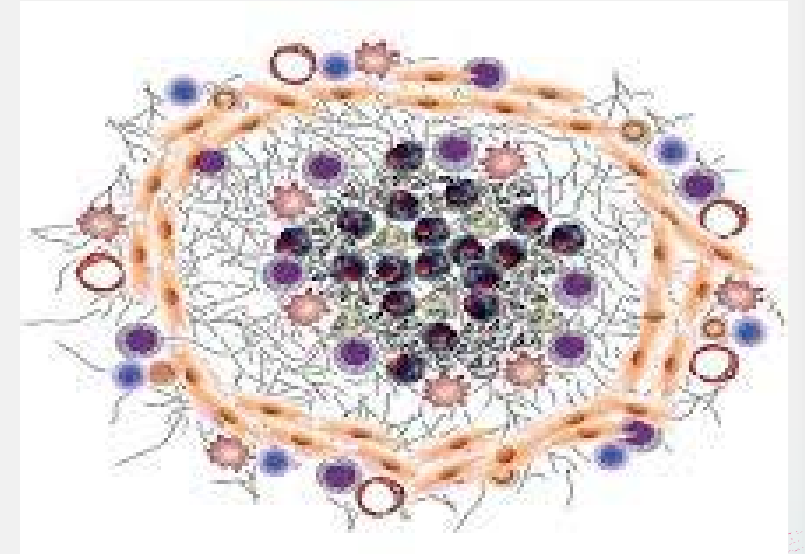
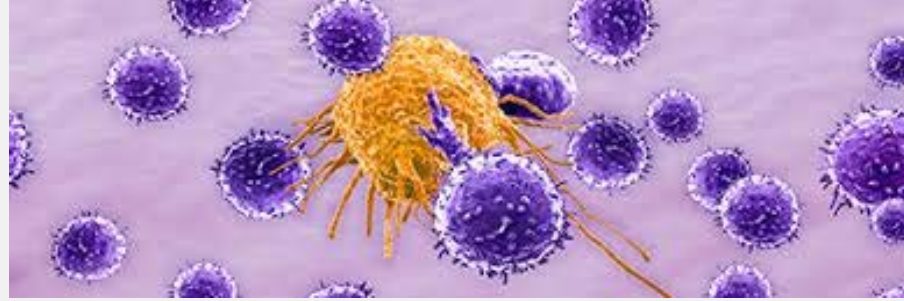
- 3 Blocks on different CANB Themes,
- 30 min lecture by a Professor
- Journal club discussion
- A short take home assessment at the end of each block
- Grant writing: Learn how to write all components of a grant and develop a hypothesis.





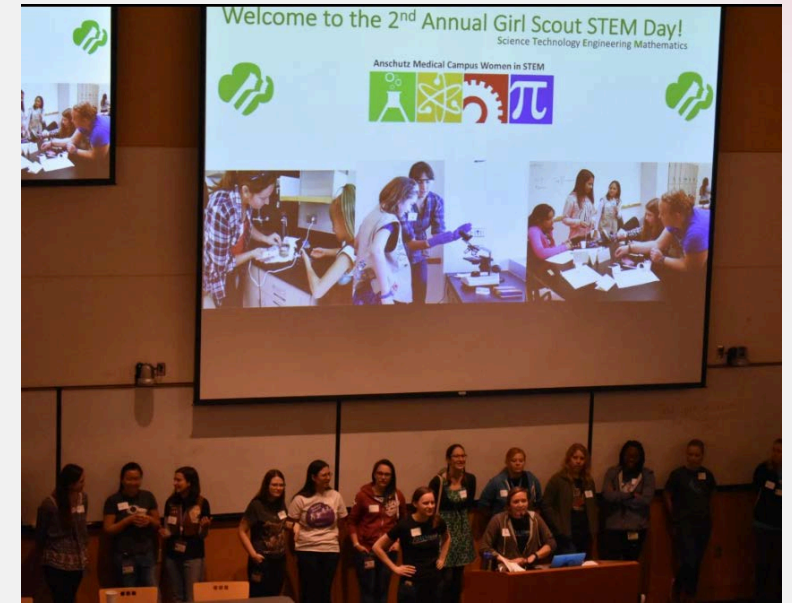
# 7. We sponsor unique special topics short courses

- Proteomics for Cancer Research
- Cancer Immunology
- From Cells to humans: Understanding complexities of study design, data collection and analysis
  - A biostats course that was turned into a full semester long biostats course
- Animal Models in Cancer
- Tumor Microenvironment
- Current topics in Translational Research
- Preclinical models (2024)



# 8. We give back to our community

- SACNAS and CUPS Summer Academy
- The Summer Academy is a 1-week long program that teaches different biology topics and hands-on lab activities to high school students. Importantly, this program serves to provide role models to high schoolers from underrepresented backgrounds and empower them to pursue careers in STEM.
- Brent's Place – Block Party Planning Committee
  - Plan yearly fundraising event for organization that provides clean, safe housing for children and adults undergoing immunosuppressive treatments
- Project Bridge
  - Focuses on scientific communication and contacting elected officials and community members about scientific issues
- Girl Scout STEM day
- Aurora Science & Tech Middle School Science Fair



Advancing Chicanos/Hispanics  
& Native Americans in Science

PROJECT BRIDGE  
connecting science and community

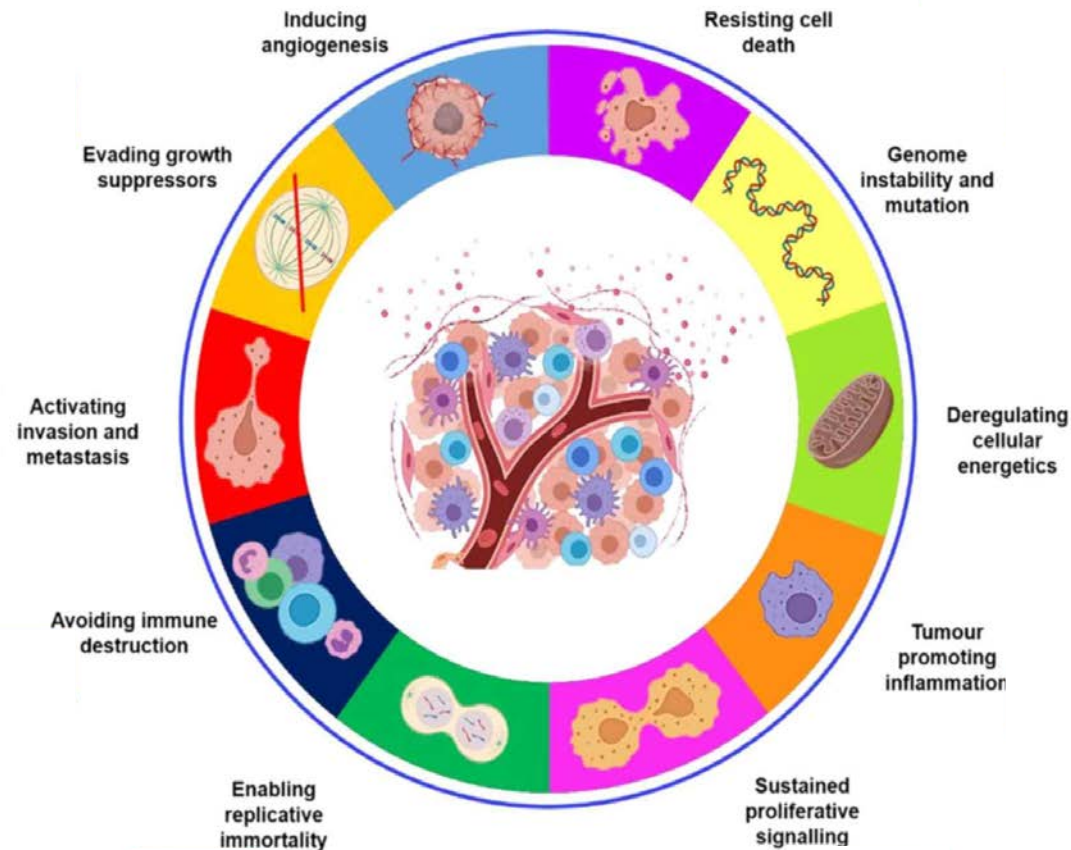


# 9. CANB Graduates are highly competitive for a wide variety of scientific jobs

- Postdocs at top tier institutions
  - NCI Medical Centers, Harvard, UCSF, St. Jude Children's Hospital, Huntsman Cancer Institute, Vanderbilt, Duke, NIDCR, Duke University, and more!
- Research scientists in pharmaceutical and biotech companies
  - Roche Biotechnology, BioFire Diagnostics, ChromaDex, Sartorius, Loxo, Abbott, Novartis, Cogent
- Academic faculty
  - CU Anschutz, University of Alaska, University of Texas MD Anderson Cancer Center
- Medical Science Liaisons
- Scientific writing and editing



# 10. We study diverse topics in basic and translational biology



*Molecular and Cell biology*

- Proliferation
- Apoptosis, senescence
- Migration, invasion

*Pharmacology*

*Immunology*

*Tumor microenvironment*

*Big Data/Bioinformatics*



# Thank You

- Visit our website for more information on the program, students and CANB faculty:  
<https://www.cuanschultz.edu/graduate-programs/cancer-biology>



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