Seyedehalaleh (Alaleh) Anvar

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EDUCATION

University of Florida
Ph.D., Biomedical Sciences Program, College of medicine – Cancer Biology 2022 – present

Mentors:

Dr. Lina Cui, Ph.D., Department of medicinal Chemistry.

Dr. Weizhou Zhang, Ph.D., Department of Pathology, Immunology and Laboratory Medicine.

Ferdowsi University of Mashhad, Iran 2010-2017
DVM

- Four years of basic science and three years of externship and internship in small and large animal internal medicine and surgery, Radiology, pharmacology, Pathology and hematology.
- Thesis defense with the topic of "Investigation of monocyte apoptosis in human colorectal cancer"

EXPERIENCE

Cui/Zhang labs – University of Florida August 2022 to present

GRADUATE RESEARCH ASSISTANT

Project: monitor therapy-induced senescence in order to investigate tumor growth and metastasis mechanisms, as well as guiding Senolytic therapies.

Lina Cui Lab - University of Florida August 2021 to August 2022

RESEARCH ASSISTANT

- Therapy-induced senescence:

Cellular senescence may be linked with recurrence of cancers after treatment. The project monitors the generation of senescence using novel imaging probes developed in the lab.

- Evaluating Novel Senescence and Heparanase probes in Vitro/Vivo:

Evaluating Novel small molecule probes, producing in Cui Lab, with in Vitro assays and in animal models.

- Senescence in immune system (Collaboration with Dr. Weizhou Zhang lab):

Regulatory T cells are linked with senescence. Using the probe molecules generated in the Cui lab, we are studying the role of senescence in the immune system.

- Senescence in age-related diseases (type 2 diabetes):

Senescence is implicated in many age-related diseases, and we have been evaluating the connection of senescence, CHGB gene expression and type 2 diabetes.

AstraZeneca Pharmaceutical Company, Iran **April 2018 to January 2021**

ONCOLOGY CARE SPECIALIST

Collaboration with Medical and Clinical Oncologist to support trial enrollments, provide program and protocol training and ensure that health care professionals have the most up to date information as the clinical development programs mature in Breast and Prostate Cancer. Monitoring the treatment protocol of BC and PC patients who were receiving Hormone.

AWARDS/HONORS

- The Best Employee Award in Middle East branch of AstraZeneca Company. 2019

TEACHING EXPERIENCE

- MATHEMATIC TEACHER

  Teaching mathematic as a private teacher and as a teacher assistant in several public high schools, Mashhad, Iran. **Aug 2015 – 2017**

PUBLICATIONS

1. Z Chen, Y Zhang, S Anvar, C Wu, J Liu, JZ Jiang, L Cui. NIR fluorescent probes for senescence imaging via tunable un situ labeling, in manuscript.
2. Z Maghsoudi, O., Shirazi, S. H., Abarkar, M., & Anvar, S. A. (2015). Standardization and modification techniques of platelet-rich plasma (PRP) preparation in rabbit. International Clinical Pathology Journal, 1.

CONFERENCE PROCEEDINGS

1. Zachary M. Rabinowitz, Jun Liu, S. Alaleh Anvar, Joyce Jiang, and Lina Cui *, "Activatable two-photon fluorogenic probe for real-time imaging of senescence", poster, UF scripps chemical biology and 5th UF drug discovery symposium (April 21 2023).
2. Zachary M. Rabinowitz, Jun Liu, S. Alaleh Anvar, Joyce Jiang, and Lina Cui *, "Activatable two-photon fluorogenic probe for real-time imaging of senescence", poster, ACS Spring 3023 (March 29 2023).
3. Zachary M. Rabinowitz, Jun Liu, S. Alaleh Anvar, Joyce Jiang, and Lina Cui *, "Activatable two-photon fluorogenic probe for real-time imaging of senescence", poster, UF College of Pharmacy 36th Annual Research Showcase, Gainesville, FL (Feb 7-8, 2023).
4. Zachary M. Rabinowitz, Jun Liu, Zixin Chen, S. Alaleh Anvar, Chao Cui, Ashton L. Sigler, and Lina Cui *, "Tuning the reactivity of molecular probes for enhanced in situ labeling." poster, UF College of Pharmacy 35th Annual Research Showcase, Gainesville, FL (Feb 7-8, 2022).

TRAININGS AND SKILLS

Flow cytometry (ACCURI C6) training, University of Florida. December 2021

Nikon Ti-E "Live Cell" Widefield Microscope (Motorized) training, UF. November 2021

PerkinElmer IVIS Spectrum Bioluminescent Imager training, UF. November 2021

Laboratory animal handling and injection, University of Florida. September 2021

Laboratory animal trainings (handling, Biomedical, Surgery and Pain management), ACS, October 2021

medical, marketing skills training at, Beirut, Lebanon, Headquarter office of AstraZeneca Company in Middle East. 17-29 September 2018

Competitive mindset, Tehran, Iran. 7-9 October 2018

Attended at Key account management (KAM) training at Istanbul, turkey. May 2018