

Fulei Wuchu

fwuchu@umich.edu

EDUCATION

University of Michigan, Ann Arbor

Jan 2021 – present

PhD in Biomedical Engineering, GPA: 4.0/4.0

Supervisor: Deepak Nagrath, PhD, Associate Professor

Research areas: cancer immunometabolism, cellular senescence

The Hong Kong Polytechnic University

Sep 2016 – Sep 2020

BSc. in Biomedical Engineering, GPA: 4.0/4.0

University of Pennsylvania

Aug 2019 – Dec 2019

Exchange in Department of Bioengineering, School of Engineering and Applied Science

GPA: 3.93/4.0

University of Cambridge, Pembroke-King's Program

Jul 2018 – Aug 2018

"Divided we Stand": Gender, Norms and Sexuality Grade: A-

Materials Science: The Essential Evolution of Materials Grade: A

The Behavioral Ecology of Animals and Humans Grade: A

PUBLICATION AND PRESENTATION

- Achreja, A., Yu, T., Mittal, A., Choppara, S., Animasahun, O., Nenwani, M., ... & Nagrath, D. (2022). Metabolic collateral lethal target identification reveals MTHFD2 paralogue dependency in ovarian cancer. *Nature Metabolism*.
- Wuchu, F., Ma, X., Que, Y., & Ruan, Y. C. (2022). Biphasic regulation of CFTR expression by ENaC in epithelial cells: the involvement of Ca²⁺-modulated cAMP production. *Frontiers in Cell and Developmental Biology*.
- Rupp, B., Ball, H., Wuchu, F., Nagrath, D., & Nagrath, S. (2022). Circulating tumor cells in precision medicine: challenges and opportunities. *Trends in Pharmacological Sciences*.
- Glassman, D., Kim, M., Badal, S., Spradlin, M., Animasahun, O., Jeon, J. H., ... & Sood, A. (2022). What's next after bevacizumab resistance? Targeting metabolic vulnerabilities in ovarian cancer. *Gynecologic Oncology*.
- Wuchu, F., Weber, A., Yan, C., & Wen, C. (2019). BMI-related subchondral bone microstructural changes in knee osteoarthritis: overloading or metabolic disturbance?. *Osteoarthritis and Cartilage*.

TEACHING AND TUTORING

Graduate Student Instructor | Appointed by lecture instructor

Jan 2022 – Apr 2022

Department Tutor | Appointed by Program Leader

Sep 2018 – Apr 2019

- Answered questions (academic or other) from students from my department

HONORS AND AWARDS

- UG Summer Research Abroad Sponsorship 2019
- Wong Tit-shing Student Exchange Scholarship 2019
- Funding for International Exchange 2019
- Mathematical Contest in Modeling Honorable Mention 2019

- Department of Biomedical Engineering Scholarship for Hall Residents 2019
- Summer Abroad Subsidy 2018
- V.K. Hsu & Sons Foundation Ltd. Scholarship 2017

EXTRA-CURRICULAR ACTIVITIES AND LEADERSHIP

R&D Project | Project Leader Sep 2017 – May 2019

KNEEXERCISE-East meets West knee orthosis and monitoring system for knee osteoarthritis

- Awardee of FYP+ Scheme 2018-2019, Hong Kong X Foundation
- Proof of Concept Cash Award
- Proof of Concept Funding
- Entered final round of JOS Awards Hong Kong 2017-2018 Happy Aging and Innovative Healthcare Solution

University Chinese Mainland Student Basketball Team | Team Member Sep 2016 – May 2019

- 2019 First runner-up of Hong Kong Inter-university Basketball Competition for Mainland Students
- 2018 First runner-up of Hong Kong Inter-university Basketball Competition for Mainland Students
- 2017 Champion of Hong Kong Inter-university Basketball Competition for Mainland Students

English Reading Club, English Language Center | President Apr 2017 – Apr 2018

- Led a committee with six people and organized activities related to English reading for the whole university

SELECTED COMMUNITY SERVICES

- Helped under-privileged children with their homework in Assemblies of God Living Spring Church, Hong Kong Oct 2018 – Sep 2018
- Built solar power system in rural area in Cambodia Jun 2018
- Voluntary teaching in rural area in Guizhou, China May 2017
- Served as a voluntary English tutor for under-privileged children in The Salvation Army, Yaumatei Integrated Service for Young People, Hong Kong Feb 2017 – Mar 2017