

Termeh Shakery

MSc Student

Rady Faculty of Health Sciences

University of Manitoba

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[Linkedin](#) 

Education

M.Sc. Medical Microbiology and Infectious Diseases

Present

University of Manitoba, Winnipeg, Canada

Thesis: Vaginal Microbiome dynamics as Biological Variable of HPV Clearance among Female Sex workers in Nairobi, Kenya.

B.Sc. Animal Biology

2022

University of Guilan, Rasht, Iran

First Rank Holder in Program

Awards and Scholarships

Graduate Student Merit Award (GSMA) – \$500

to be granted in Fall 2026

HSGSA External Training Subsidy – \$200

2026

CAHR Travel Awards for Professional Development – \$2500

2026

Dr Forough Khadem Memorial Award – \$1000

2025

Research Manitoba Master's Studentship Award - \$20,000

2025 – 2026

Faculty of Graduate Studies Travel Award - \$750

2025

Rady Faculty of Health Sciences Graduate Studentship Award - \$40,000

2025 – 2027

Graduate Student Knowledge into Action Award - \$100

2024

VADA Program Studentship - \$9,000 - *Declined due to overlap with another scholarship*

2023

Research Manitoba Master's Studentship Award - \$16,000 - *Declined due to overlap another Scholarship*

2023

Rady Faculty of Health Sciences Graduate Studentship Award - \$28,000

2023 – 2024

International Graduate Student Entrance Scholarship - ~ \$8,000

2023

National Undergraduate Full Scholarship - Tuition Waiver

2017 – 2022

Research Experience

Research Focus

Vaginal and Gut Microbiome, HPV Clearance, Cervical Cancer

Research Skills

Microbiome & Sequencing: 16S rRNA gene sequencing, microbiome data processing

Bioinformatics & Data Analysis: R (data wrangling, visualization), longitudinal and cross-sectional analysis

Molecular & Cell Biology: DNA/RNA extraction, qPCR, cell culture, Western blot

Research Projects

Graduate Research Assistant

McKinnon Lab, University of Manitoba

2023 – Present

- **Vaginal Microbiome Dynamics and HPV Clearance in Female Sex Workers (Nairobi, Kenya)**
Master's thesis project.
Lead longitudinal and cross-sectional analyses of vaginal microbiome composition as a biological correlate of HPV clearance.
Performed end-to-end amplicon sequencing bioinformatics, statistical analysis, and data visualization in R.
Contributed to wet-lab work including DNA extraction and molecular assays.
Two manuscripts in preparation for submission.
- **Vaginal microbiome profiles during topical artesunate treatment for CIN2/3 in women living with HIV**
Collaborative project with Dr. Chemtai Mungo (UNC College of Medicine), Chapel Hill, NC, USA
Conduct vaginal microbiome bioinformatic and statistical analyses for a longitudinal cohort.
Contributed to DNA extraction and microbiome data processing.
One manuscript in preparation.
- **Multi-site Study of Adolescent Girls and Young Women (MAGY): HIV Vaccines and Antibody-Based Prevention**
Several collaborative organizations and investigators from Uganda, Zambia, Nairobi and South Africa
Responsible for vaginal microbiome bioinformatics and analysis of the study.
Contributing to at least one planned manuscript in the upcoming year.
- **Impact of Early Antiretroviral Therapy on Tissue-Resident Memory CD4+ T Cells in the Gastrointestinal Tract**
Collaborative Project with Dr. Alexandra Schuetz (Walter Reed Army Institute of Research), Bangkok, Thailand
Conducted gut microbiome analysis to support immunological findings.
One manuscript currently under review.

Undergraduate Research Assistant

Safari Lab, University of Guilan

2020 – 2022

- Conducted in vitro cell culture and molecular biology experiments investigating stem cell-based therapeutic approaches in gynecological cancers.
- Contributed to experimental design, data collection, and analysis.
- Co-authored two peer-reviewed publications in breast and prostate cancer research.

- Contributed to a clinical retrospective study examining plasma-enriched platelet infusion and live birth outcomes in patients with implantation failure.
- Contributed to data curation and data analysis.
- Co-authored one peer-reviewed publication.

Publications

Peer-reviewed Publications

1. Vimonpatranon, S., Ssemaganda, Phuang-Ngern, Y., Sajjaweerawan, C., Saetun, P., **Shakery, T., et al.** (2026). Impact of Early Antiretroviral Therapy on Tissue Resident Memory CD4+ T Cells in the Gastrointestinal Tract. *The Journal of Infectious Diseases*.
DOI: [10.1093/infdis/jiag358](https://doi.org/10.1093/infdis/jiag358)
2. Mehrafza, M., Raoufi, A., Hosseinzadeh, E., **Shakery, T., et al.** (2022). The effect of intrauterine infusion of plasma enriched platelet on live birth rate in patients with implantation failure: a retrospective uncontrolled study. *Journal of Obstetrics, Gynecology and Cancer Research*.
DOI: [10.30699/jogcr.7.6.518](https://doi.org/10.30699/jogcr.7.6.518)
3. **Shakery, T.,** Safari, F. (2021). Downregulation of Pinkbar/pAKT and MMP2/MMP9 expression in MDA-MB-231 breast cancer cells using hAMSCs secretome. *Cells Tissues Organs*.
DOI: [10.1159/000520370](https://doi.org/10.1159/000520370)
4. Safari, F., **Shakery, T., et al.** (2021). Evaluating the effect of secretome of human amniotic mesenchymal stromal cells on apoptosis and epithelial–mesenchymal transition in prostate cancer cells. *Cell Biochemistry and Function*.
DOI: [10.1002/cbf.3654](https://doi.org/10.1002/cbf.3654)

Manuscripts In Preparation

5. **Shakery, T.,** Akinlabi, O., et al. Longitudinal Analysis of Vaginal Microbiome Signatures and HPV Persistence in High-Risk Kenyan Female Sex Workers.
6. **Shakery, T.,** Akinlabi, O., Nguyen, K., et al. Associations Between Vaginal Microbiome Composition and HPV Prevalence: Insights from a Cross-Sectional Study in Female Sex Workers.
7. Mungo, C., **Shakery, T., et al.** Vaginal microbiome profiles during topical artesunate treatment for CIN2/3 in women living with HIV.
8. Ssemaganda, A., **Shakery, T., et al.** Baseline epidemiology of the MAGY cohort: sexually transmitted infections, genital inflammation, and vaginal microbiome composition among adolescent girls and young women in East Africa.

9. Ssemaganda, A., **Shakery, T.**, *et al.* Epidemiological correlates of HPV clearance among female sex workers in Nairobi, Kenya.

Conference Presentations

Shakery, T., Akinlabi, O., *et al.*

Longitudinal Analysis of Vaginal Microbiome profiles and HPV Prevalence in Nairobi, Kenya.

Poster presentation (abstract accepted)

EUROGIN 2026 (March 18-21), Vienna, Austria

Teaching and Mentorship Experience

2025 (Jun – Aug)

Department of Biological Sciences, University of Manitoba

Ta/Demo/Tutor/Sem Leader - BIOL 1030 (CUPE TA)

Course Name: Biological Diversity, Function and Interactions (3 Credits)

2025 (Jan – Apr)

PINE*, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - MBIO 1220 (CUPE TA)

Course Name: Essentials of Microbiology (3 Credits)

Department of Biological Sciences, University of Manitoba

Ta/Demo/Tutor/Sem Leader 1 - BIOL 2210 (CUPE TA)

Course Name: The Chordates (3 Credits)

Ta/Demo/Tutor/Sem Leader 1 - BIOL 3500 (CUPE TA)

Course Name: Genetics 2 (3 Credits)

Access Program, Extended Education, University of Manitoba

Ta/Demo/Tutor/Sem Leader 1 - BIOL 1010 (CUPE TA)

Course Name: Biological Diversity and Interaction (3 Credits)

Ta/Demo/Tutor/Sem Leader 1 - MBIO 3410 (CUPE TA)

Course Name: Molecular Biology (3 Credits)

Ta/Demo/Tutor/Sem Leader 1 – MBIO 1220 (CUPE TA)

Course Name: Essentials of Microbiology (3 Credits)

Microbiology Students' Club, Department of Microbiology, University of Manitoba

Undergraduate Mentor

Mentored undergraduate students on academic planning, research involvement, and graduate school preparation

2024 (Aug – Dec)

PINE, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - BIOL 1000 (CUPE TA)

Course Name: Foundations of Life (3 Credits)

Ta/Demo/Tutor/Sem Leader 2 - MBIO 1220 (CUPE TA)

Course Name: Essentials of Microbiology (3 Credits)

Microbiology Students' Club, Department of Microbiology, University of Manitoba

Undergraduate Mentor

*Mentored undergraduate students on academic planning, research involvement,
and graduate school preparation*

2024 (May – July)

PINE, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - MBIO 1220 (CUPE TA)

Course Name: Essentials of Microbiology (3 Credits)

Department of Biological Sciences, University of Manitoba

Ta/Demo/Tutor/Sem Leader 1 - BIOL 2500 (CUPE TA)

Course Name: Genetics 1 (3 Credits)

2024 (Jan – May)

PINE, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - BIOL 1412 (CUPE TA)

Course Name: Physiology Of the Human Body (3 Credits)

Ta/Demo/Tutor/Sem Leader 2 - MBIO 1220, PINE (CUPE TA)

Course Name: Essentials of Microbiology (3 Credits)

2023 (Aug – Dec)

Access Program, Extended Education, University of Manitoba

Ta/Demo/Tutor/Sem Leader 1 - BIOL 1000 (CUPE TA)

Course Name: Foundations of Life (3 Credits)

Ta/Demo/Tutor/Sem Leader 1 - BIOL 1020 (CUPE TA)

Course Name: Principles and Themes (3 Credits)

PINE, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - BIOL 1000 (CUPE TA)

Course Name: Foundations of Life (3 Credits)

2023 (May – July)

Department of Biological Sciences, University of Manitoba

Ta/Demo/Tutor/Sem Leader 3 - BIOL 2500 (CUPE TA)

PINE, College of Nursing, University of Manitoba

Ta/Demo/Tutor/Sem Leader 2 - BIOL 1412 (CUPE TA)

Course Name: Physiology of the Human Body (3 Credits)

** In Pathway to Indigenous Nursing Education (PINE) roles, served as both TA and Student Mentor supporting Indigenous learners beyond standard TA duties.*

Community & Volunteer Activities

Science Rendezvous Booth Captain , University of Manitoba	2025
Volunteer Outreach Presenter , Grad Share program, HSGSA, University of Manitoba	2025
Grad student Life Panelist , Microbiology Student Club (MiSC), University of Manitoba	2025
Harvest Manitoba Volunteer , Department of Medical Microbiology Student Council, University of Manitoba	2024
Social Events Organizing Committee , Prairie Infectious Immunology Network (PIIN)	2023
Guest Receptionist & Media Presenter , Yalda Event, Iranian Association of Manitoba	2022

Certifications & Specialized Training

International Infectious Disease and Global Health Training Program (IID&GHTP) Department of Medical Microbiology and Infectious Diseases, University of Manitoba, Winnipeg, MB	2023 – 2025
ComSciConCAN 2025 McMaster University, Hamilton, ON	2025
R for Data Wrangling George and Fay Yee Centre for Healthcare Innovation, University of Manitoba, Winnipeg, MB	2024
R for Data Visualization George and Fay Yee Centre for Healthcare Innovation, University of Manitoba, Winnipeg, MB	2024
Teaching Improvement Program (TIPs) University of Manitoba, Winnipeg, MB	2024
Introduction to Breast Cancer Yale University (Offered by Coursera)	2021
Workshop on DNA/RNA Extraction & PCR Training Safari Lab, Department of Biology, University of Guilan, Rasht, Iran	2020

Introduction to Biology of Cancer Johns Hopkin University (Offered by Coursera)	2020
Introduction to Reproduction Northwestern University (Offered by Coursera)	2020
Gene Cloning Institut Pasteur D'Iran's Summer School, Tehran, Iran	2019
Laboratory Animal Experimentation Institut Pasteur D'Iran's Summer School, Tehran, Iran	2019