

CURRICULUM VITAE

JEREBSOVA MARINA, Ph.D.

Associate Professor
Department of Microbiology
College of Medicine
Howard University

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A. Education

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Leningrad Nuclear Physics Institute, Russia	PhD	1994	Biophysics
Leningrad Polytechnic Institute, Russia	MS	1987	Biophysics
Leningrad Polytechnic Institute, Russia	BA	1985	Physics

B. Major Research Interests

Mechanisms, risk factors and biomarkers of renal disease in Sickle Cell Disease. Role of RON kinase signaling in SCD- associated nephropathy.

Mechanisms, risk factors and biomarkers of vascular injury in HIV-associated nephropathy and lung disease. Role of HIV-1 Tat and Nef proteins in the development of renal and lung injury

Renal and intestinal capillary permeability and its role in the bleeding pathology and bacterial sepsis. Angiogenic growth factors and heparin-like drugs synergy in the induction of bleeding complications

C. Positions and Honors

Positions and Employment

2020- present	Associate Professor Department of Microbiology, College of Medicine, Howard University, Washington, DC
2014-2020	Assistant Professor Department of Microbiology, College of Medicine, Howard University, Washington, DC
2005-2014	Assistant Research Professor of Pediatrics, Department of Pediatrics, GWU and Children's National Medical Center, Washington, DC
1999- 2004	Research Associate, Center III, Children's National Medical Center, Washington, DC
1995-1999	Research Associate, Midlantic Research Institute, Washington, DC
1994-1995	Research Associate, Department of Biochemistry, GWU, Washington, DC
1987-1994	1994 Ph.D Student, Leningrad Nuclear Physics Institute, Russia

Professional Memberships

2023 – present American Physiology Society, member

2019 - present American Society of Hematology, member
 2019 – present American Society of Microbiology, member
 2011 – present District of Columbia Center for AIDS Research (DC D-CFAR), member
 2011-2013 American Federation for Medical Research, Member
 1999-2002 American Society of Gene Therapy. Member

Honors

2016 Howard University Research Symposium Faculty Award
 2011 Children’s National Medical Center Faculty Award for a Poster Presentation, Washington, D.C.
 2011 American Federation for Medical Research, Basic and Translational Research. Faculty Award
 2004 Children's Research Institute Fellowship Award for Academic Achievements in Basic Research
 1987 Summa Cum Laude M.S. St. Petersburg State Technical University, Russia

D. Research Support

Current Research Support

1. **The role of HGFL in sickle cell disease nephropathy.** 1SC1HL150685-01A1 \$1,000,000 9/19/19-07/31/23
 Role: PI.

Completed Research Support

1. **Impaired Pulmonary Macrophage Migration In HIV-Tg Mouse Model of Lung Injury.**
 DC CFAR Pilot Award Project \$50,000 3/1/17-2/28/19
 Role: PI
2. **Biomarkers for early detection of chronic kidney disease in Sickle Cell Disease Patients**
 Center for Hemoglobin Research in Minorities (CHaRM) Pilot Project. \$30,000 March 2017-December 2018
 Role: PI
3. **Pathogenesis of HIV-HUS in Children** May 2010-April 2013
 5 RO1 HL055605-12 (PI- P.E. Ray) NIH, NHLBI
 Role: Investigator
4. **Basic FGF low affinity receptors in HIVAN** September 2010- August 2013
 5 R01 DK049419-13 (PI- P. E.Ray) NIH, NIDDKD
 Role: Investigator
5. **Role of heparin binding growth factors in vascular leakage and fatal bleeding.** October 2009-September 2013 5RO1 HL102497-03 (PI- P.Ray) NIH, NHLBI
 Role: Investigator
6. **Role of Capillary Permeability in the Pathogenesis of HIVAN Foundation.** June 2006- May 2007. National Kidney Foundation of DC
 Role: PI
7. **Role of Cationic Proteins in the Development of HIV-1 Associated Nephropathy.** December 2005 – November 2006
 Children’s Research Institute Pilot grant
 Role: PI

E. Teaching Activities

Course that I am teaching/have taught in Howard (2014-2023)

1. Howard University, Department of Microbiology, Biology of Pathogens I. 231-300 (Fall 2014-2022). Lecturer.
2. Howard University, College of Nursing, Microbiology in Health and Disease. 903-103 (Fall 2014-2017). Lectures, wet laboratory. **Course Coordinator.** Fall 2018- 2022
3. Howard University, Department of Microbiology, Virology-1. 231-307 (Spring 2015-2022). Lecturer, virology wet laboratory.

4. Howard University, College of Dentistry, Dental Microbiology.16172-DENT-112-01 (Spring 2016-2023). Lecturer, wet laboratory.
5. Howard University, College of Medicine, Molecules & Cells - Unit 2. Lecturer, Wet Lab exercises and Small Group Seminars (Fall 2015-2022)
6. Howard University, College of Medicine, OS-1, OS-5 and OS-6. Small Group Seminars. (Spring 2015-2023). Facilitator.
7. Howard University, College of Medicine, Cell Biology. Spring 2023. Lecturer.
8. Microbiology Department Journal Club. Coordinator (2014-2018)
9. Center for Sickle Cell Disease Journal Club Member (2014-2023)

F. Mentoring activities

Dissertation Advisor

1. Yousef Alrajhi. Department of Microbiology, January 2020- November 2022

Member of Dissertation Committee

1. Fatima Alhakami. Department of Genetics and Human genetics. September 2021- May 2023
2. Nowah Afangbedji. Department of Physiology and Biophysics. 2018 - November 2022
3. Awadh Alanazi, Department of Microbiology. September 2019 - April 2020
4. Kotou Sagare. Department of Biology. October 2019-June 2020
5. Elena Afia Adjei, Department of Genetics and Human Genetics, October 2014-April 2016

Pre-doctoral trainees supervising

1. Sarah Balarinwa. Undergrad student, Department of Biology Howard University, September 2021- April 2022
2. Kehinde Oriwo. Undergrad student, College of Nursing and Allied Health. September- November 2022
3. Harold Dorsey. Medical student. May - July 2020. American Society of Hematology MMSAP award.
4. Julencia Curtis. Medical student. May-July 2019
5. Ammanuel Taye, Medical student, May-July 2018
6. Nathan Smith, Medical student, May-July 2018
7. Naveen Ghuman, Medical student, May-July 2017
8. Simran Soni, Medical student, May- July 2017
9. Ornela Rutagarama, Medical student, August 2017- June 2018
10. Victoria Brooks, Graduate student, Microbiology Department, Fall 2016
11. Charlee McLean, Undergraduate student, January- June 2017
12. Gillian Lee, Medical Student, HU, Summer Internship June-July 2016
13. Maram Almohaywi, Graduate Student, Department of Microbiology, June 2016
14. Heran W. Gebreyesus, Medical student, HU June 2016
15. Nowah Afangbedji, BS Undergrad student summer Internship, July- September 2015

High School Student Mentor

1. **Kavita Pandya** Gretchen Whitney High School, 16800 Shoemaker Ave, Cerritos, CA 90703
June- August 2021; June- August 2022
2. **Tharindi Jayadilake** – Montgomery Blair High School, 51 University Blvd E, Silver Spring, MD 20901,
June-August 2021

June-August 2022

CFAR Diversity, Equity, and Inclusion Pipeline Initiative (CDEIPI) Mentor Program

February – April 2022

Leader - Provost Anthony K. Wutoh, Program Director - Mark Burk

1. **Lauryn Mills** Annadale High School, 4700 Medford Dr., Annandale VA
2. **Alejandro Alexander** Undergrad, Department of Biology, Howard University

G. Service Activities

Department, College and University Committees

1. Department of Microbiology Research Committee, Member (2014-2023)
2. Department of Microbiology APT Committee, Member (2020-20223)
3. Department of Microbiology Research Seminars, Coordinator (2014-2018)
4. Howard University IACUC committee, Member (2015-2023)
5. Howard University College of Medicine Admission Committee, Member (2017-2023)

Volunteering

1. Howard University Research Symposium. April 27-28, 2023.
Activity: Judge
2. Howard University Research Symposium. April 12, 2019.
Activity: Judge
3. FIS Cross-Country World Cup Finals, Quebec, Canada, March 21-24, 2019
Activity: course marshal
4. Olympic Games 2016, Rio de Janeiro, Brazil, August 5-14, 2016
Activity: timing and scoring team
5. World Police and Firefighters Games, Fairfax, VA, June 23-July 5, 2015
Activity: accreditation, medal ceremony, translation service
6. Howard University Research Day. April 10, 2014
Activity: Judge
7. National Science Olympiad Atlanta, GA, May 2009
Activity: Team mentor
8. McLean High School Science Olympiad team 2009-2012
Activity: Team Mentor
9. National Science Olympiad Washington, DC, May 2008
Activity: accreditation, event proctor, team mentor
10. Long Fellow Middle School Science Olympiad team 2008-2009
Activity: Team mentor