



Dr. Makedonka Mitreva

Associate Professor

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Dr. Makedonka Mitreva is an Associate Professor in both the departments of Medicine and of Genetics and serves as Assistant Director of the McDonnell Genome Institute at Washington University School of Medicine. She received a PhD from the Wageningen University in the Netherlands in 2001. Dr. Mitreva has served on various national and international study sections as a grant proposal reviewer ~20 times, is an associate editor of PLoS NTD, and has published over 140 original research papers and 20 book chapters and/or invited review papers. Her research has been funded by various governmental and non-governmental funding agencies (including NIH, NIFA, USDA, NSF, BMGF).

Dr. Mitreva has two main threads to her research and both take advantage of next-generation 'omics and computational approaches to empower the study of infectious diseases and the human microbiome. Her first area of research focuses on neglected tropical diseases, especially helminth infections, and provides deeper understanding of molecular mechanisms involved in parasite invasion, metabolism and host dependent development, host-parasite interaction, genome evolution and resistance. In the long run, her studies aim at shortening the route for development of novel diagnostics, vaccines and anthelmintics. Her second area of research focuses on the human microbiome, and elucidates cross-kingdom interactions via structural and functional characterization of the microbiome, especially dysbiosis associated with infections. Both of these research threads are collaborative and as discoveries emerge will branch off into further research threads that will require yet novel interdisciplinary approaches, the goal being to improve global health.

Homepage ID: <https://infectiousdiseases.wustl.edu/faculty-staff/makedonka-mitreva/>

Homepage MGI: <http://genome.wustl.edu/people/individual/makedonka-mitreva/>

Google: <https://scholar.google.com/citations?user=OpKySvwAAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Makedonka_Mitreva

LinkedIn: <https://www.linkedin.com/in/makedonka-mitreva-45a0514?trk=hp-identity-photo>