

OGAN K. KUMOVA, PHD

Washington, DC · ogankumova.com · [linkedin.com/in/ogankumova](https://www.linkedin.com/in/ogankumova)

PROFESSIONAL SUMMARY

Science policy and program management professional with over a decade of experience in federal and academic settings. Proven ability to lead complex expert committee processes, manage multi-stakeholder deliverables on compressed timelines, and translate scientific evidence into actionable policy recommendations. Background spans vaccine safety oversight at the National Academies, postdoctoral research at the FDA, biomedical research administration, and higher education. Adept at strategic communication, cross-functional coordination, and building consensus across federal agencies, academic institutions, and public stakeholders.

CORE COMPETENCIES

Program & Project Management | Vaccine Safety Policy | Federal Regulatory Affairs | Stakeholder Engagement | Expert Committee Leadership | Scientific Writing & Editing | Evidence Synthesis & Review | Budget & Resource Coordination | Curriculum & Training Development | Cross-Sector Collaboration

PROFESSIONAL EXPERIENCE

Program Officer, Vaccine Safety

February 2023 – Present

National Academies of Sciences, Engineering, and Medicine, Washington, D.C.

- Directs full lifecycle management of expert committee studies on vaccine safety and adverse events, from scope development and expert recruitment through consensus report production and dissemination.
- Served as primary editor for two major federal reports: Evidence Review of the Adverse Effects of COVID-19 Vaccination (2024) and Vaccine Risk Monitoring and Evaluation at the CDC (2025), National Academies Press.
- Coordinates across federal agency sponsors (CDC, FDA), committee members, external reviewers, and internal staff to deliver rigorous, on-time evidence reviews.
- Manages project timelines, meeting logistics, stakeholder communication, and deliverable quality control across parallel workstreams.
- Synthesizes complex biomedical literature to support policy-relevant conclusions for non-specialist audiences including congressional staff and public health officials.

ORISE Research Fellow (Postdoctoral)

October 2020 – February 2023

U.S. Food and Drug Administration, Silver Spring, MD | Supervisor: Margaret C. Bash, MD, MPH

- Executed independent research program within the NIH-U19 Gonorrhea Vaccine Cooperative Research Center, coordinating with multi-institutional team members across FDA, academia, and NIH.
- Designed and managed murine immunization studies evaluating liposome- and OMV-based *Neisseria* vaccines, including experimental planning, data collection, analysis, and regulatory-grade documentation.
- Contributed to grant reporting and multi-site collaborative coordination.

Laboratory Manager

December 2014 – August 2015

Drexel University College of Medicine, Philadelphia, PA

- Managed daily operations, budget, ordering, equipment compliance, and personnel supervision for an active immunology research laboratory.
- Coordinated onboarding and training for rotating graduate students and research staff.

Laboratory Technician II

December 2012 – December 2014

Drexel University College of Medicine, Philadelphia, PA

- Supported research operations and regulatory compliance in an active infectious disease research laboratory.

EDUCATION

Doctor of Philosophy in Microbiology & Immunology

2015 – 2020

Drexel University College of Medicine, Philadelphia, PA | GPA: 4.0

Minor: Health Administration

Master of Science in Infectious Diseases

2013 – 2015

Drexel University College of Medicine, Philadelphia, PA | GPA: 3.97

Bachelor of Science in Biochemistry & Bachelor of Science in Bioinformatics

2005 – 2009

University of the Sciences in Philadelphia, PA | Minor in Mathematics

EDITORIAL & POLICY OUTPUTS

Vaccine Risk Monitoring and Evaluation at the CDC. Editor. National Academies Press, 2025.

Evidence Review of the Adverse Effects of COVID-19 Vaccination. Editor. National Academies Press, 2024.

SELECTED PEER-REVIEWED PUBLICATIONS

Kumova OK*, Galani IE, Rao A, Johnson H, Triantafyllia V, Matt SM, Pascasio J, Gaskill PJ, Andreakos E, Katsikis PD, Carey AJ. Severity of neonatal influenza infection is driven by type I interferon and oxidative stress. *Mucosal Immunology*. 2022;15(6):1309–1320. PMID: 36352099.

Matthias KA, Connolly KL, Jerse AE, Kumova OK, et al., Bash MC. Evaluation of immunization route in induction of vaccine-mediated anti-gonococcal immune responses in a murine model of ascending infection. *Journal of Infectious Diseases*. 2025;232(5):e765–e777. PMID: 40971931.

Kumova OK*, Fike AJ, Thayer JL, Nguyen LT, Mell JC, Pascasio J, Stairiker C, Leon LG, Katsikis PD, Carey AJ. Lung transcriptional unresponsiveness and loss of early influenza virus control in infected neonates is prevented by intranasal *Lactobacillus rhamnosus* GG. *PLoS Pathogens*. 2019;15(10):e1008072. PMID: 31603951.

Full publication list available upon request. 15 peer-reviewed articles total.

ADDITIONAL EXPERIENCE

Adjunct Faculty & Curriculum Developer – Rowan University, Drexel University, Philadelphia University (2010–Present): developed multiple courses; taught across in-person, hybrid, and asynchronous platforms. Demonstrates adaptability and communication skills essential for training, outreach, and public engagement roles.

Museum Educator – Franklin Institute Science Museum (2003–2020): delivered public science programming and developed educational curricula, building skills in translating technical content for broad audiences.