Curriculum Vitae

Danmeng Li, MD, MSc

Education

2014 - 2016	University of Florida – Gainesville, Florida Master of Science in Epidemiology
2009 - 2012	Peking University – Beijing, China Master of Science in Psychiatry and Mental Health
2004 - 2009	Peking University – Beijing, China M.D. in Clinical Medicine

Employment History

2023 – present	Research Assistant Professor, Department of Infectious Diseases & Immunology, College of Veterinary Medicine, Gainesville, Florida
2019 - 2023	Research Scholar, Department of Infectious Diseases & Immunology, College of Veterinary Medicine, Gainesville, Florida
2016 - 2019	Laboratory Technician, Department of Pathology, Immunology and Laboratory Medicine, Division of Experimental Pathology, Gainesville, Florida
2012 - 2014	Therapeutic Area Physician, Research & Development Center, Medical Affairs Department, Xi'an Janssen Pharmaceutical Ltd., Beijing, China

Publications

1. Kim C, Tagmount A, Zhu Z, Wilson F, **Li D**, Ostrov DA, Barbazuk WB, Bacher R, Vulpe CD. Identification of functional genetic components modulating toxicity response to PFOS using genome-wide CRISPR screens in HepG2/C3A cells. Arch Toxicol (2026).

2. **Li D**, Viogt A, Nguyen CQ. Discover Potential New Epitopes through Post-Translational Modification in Sjögren's Disease. bioRxiv 2025.12.30.697079.

3. Yang X, Hung CN, Ybarra M, Villarreal M, Osmulski P, Gaczynska ME, Selvam C, **Li D**, Kho KL, Halff GA, Ostrov DA. Discovery of a novel STAT3 inhibitor: A potential application for pancreatic cancer treatment. Biomedicine & Pharmacotherapy. 2025 Oct 1;191:118487

4. Voigt A, Gupta S, Shen Y, Glenton P, **Li D**, Ostrov D, Bhattacharyya I, Nguyen CQ. Exploring MHC class II I-Ab blockade as a potential treatment for Sjögren's disease in the mouse model. ImmunoHorizons. 2025 Sep;9(9):vlaf030.

5. Li Y, Gibson A, Saeed HN, Tahboub MA, **Li D**, Ostrov DA, Krantz MS, Mallal SA, Alves E, Chopra A, Choo L. HLA-B Alleles with Shared Peptide Binding Specificities Define Global Risk of Cotrimoxazole-induced SCAR. medRxiv. 2025 May 28

6. Shen Y, Khatri B, Rananaware S, **Li D**, Ostrov DA, Jain PK, Lessard CJ, Nguyen CQ. Ancestral origins are associated with SARS-CoV-2 susceptibility and protection in a Florida patient population. Plos one. 2023 Jan 17;18(1):e0276700.

7. Brooks CL, Ostrov DA, Schumann NC, Kakkad S, **Li D**, Peña K, Williams BP, Goldfarb NE. 2.1 Å crystal structure of the Mycobacterium tuberculosis serine hydrolase, Hip1, in its anhydro-form (Anhydrohip1). Biochemical and Biophysical Research Communications, 2022; 630, 57-63.

8. Gupta S, **Li D**, Ostrov DA, Nguyen C. Epitope Mapping of Pathogenic Autoantigens on Sjögren's Syndrome-Susceptible Human Leukocyte Antigens Using in Silico Techniques. *Journal of Clinical Medicine*. 2022; 11(6):1690.

9. Gupta S, **Li D**, Ostrov DA, Nguyen C. Blocking I-Ag7 class II major histocompatibility complex by drug-like small molecules alleviated Sjögren's syndrome in NOD mice. *Life Science*. 2022; 288,120182

10. Ostrov DA, Bluhm AP, **Li D**, Khan JQ, Rohamare M, Rajamanickam K, K. Bhanumathy K, Lew J, Falzarano D, Vizeacoumar FJ, Wilson JA, Mottinelli M, Kanumuri SRR, Sharma A, McCurdy CR, Norris MH. Highly Specific Sigma Receptor Ligands Exhibit Anti-Viral Properties in SARS-CoV-2 Infected Cells. Pathogens. 2021; 10(11):1514.

11. Reznikov LR, Norris MH, Vashisht R, Bluhm AP, **Li D**, Liao YJ, Brown A, Butte AJ, Ostrov DA. Identification of antiviral antihistamines for COVID-19 repurposing. *Biochem Biophys Res* Commun. 2021; 538:173-179.

12. Nakkam N, Gibson A, Mouhtouris E, Konvinse KC, Holmes NE, Chua KY, Deshpande P, **Li D**, Ostrov DA, Trubiano J, Phillips EJ. Cross-reactivity between vancomycin, teicoplanin, and telavancin in patients with HLA-A∗32:01-positive vancomycin-induced DRESS sharing an HLA class II haplotype. *J Allergy Clin Immunol.* 2021;147(1):403-405.

13. Li Y, Phillips E, Dellinger A, Nicoletti P, Schutte R, **Li D**, Ostrov DA, Fontana R, Watkins PB, Stolz A, Daly AK, Aithal GP, Barnhart H, Chalasani N. and the Drug-induced Liver Injury Network. Human Leukocyte Antigen B*14:01 and B*35:01 Are Associated with Trimethoprim-Sulfamethoxazole Induced Liver Injury. *Hepatology*. 2021; 73: 268-281.

14. Huang Q, Chow IT, Brady C, Raisingani A, **Li D**, Ostrov DA, Atkinson M, Kwok WW, Kahn CR, Altindis E. Parabacteroides distasonis enhances Type 1 Diabetes autoimmunity via molecular mimicry. *BioRxiv*. 2020.10.22.350801.

15. Zhang X, Santos R, Debevec G, **Li D**, Schutte R, Pham K, Liu C, Ostrov DA, Giulianotti M. Identification of Small Molecules by Screening A Mixture-Based Scaffold Compound Library for Treatment of Alpha-1 Antitrypsin Deficiency. Biochem Biophys Res Commun. 2020;527(1):317-323.

16. Zhang X, Pham K, **Li D**, Schutte RJ, Gonzalo DH, Zhang P, Oshins R, Tan W, Brantly M, Liu C, Ostrov DA. A Novel Small Molecule Inhibits Intrahepatocellular Accumulation of Z-Variant Alpha 1-Antitrypsin In Vitro and In Vivo. Cells. 2019; 8(12):1586.

17. Zhang X, Pham K, **Li D**, et al. Targeting the Site Encoded by SERPINA1*E342K for Treating Alpha-1 Antitrypsin Deficiency-Associated Liver Diseases. *FEBS Lett*. 2019;593(14):1849-1862.

18. Schutte RJ, Sun Y, **Li D**, Zhang F, Ostrov DA. Human Leukocyte Antigen Associations in Drug Hypersensitivity Reactions. *Clin Lab Med*. 2018;38(4):669-677.

19. Biswas A, Jiang Y, **Li D**, Mehta HJ, Kaye F. The Prevalence of Rhesus-Negative Blood Group Among Patient with Small Cell Lung Cancer and Analysis of Its Effect on Overall Survival. *Front Oncol*. 2018; 8:358.

20. **Li D**, Mai V, Gerke T, Pinney SM, Yaghjyan L. Interactions of Family History of Breast Cancer with Radiotherapy in Relation to the Risk of Breast Cancer Recurrence. *J Breast Cancer*. 2017;20(4):333-339.

21. **Li DM**, Mi WF, Li LZ, Wang ZR, Wang YC, Zhang HY. Plasma Concentrations of Intramuscular Paliperidone Palmitate and the Relationship Between the Dose and Clinical Safety. Journal of Clinical Pharmacology, 2012, 28(8): 563-565. (Chinese)

22. **Li DM**, Zhang HY. Advance in Clinical Research of Paliperidone Palmitate. Chinese Journal of New Drugs, 2012, 21(4): 345-350. (Chinese)

Teaching Experience

VME5101	Comparative Biomedical Sciences and One Health	2025 Fall, 1 lecture
VME6933	IDI Seminar Series	2025 Fall, 1 lecture
VME6505	Autoimmune Disease	2025 Fall, 3 lectures

Presentations

1. Zhang XJ, **Li D**, Pham K, Liu C, Ostrov D. Functional high-throughput screening of drug-like small molecules for the treatment of alpha-1 antitrypsin deficiency. Florida Genetics Symposium 2017, poster #100.

2. **Li D**, Mai V, Gerke T, Yaghjyan L. Interactions of family history of breast cancer with radiotherapy in relation to breast cancer-free survival in a population-based breast cancer registry. 2016 College of Medicine Celebration of Research, poster #58.

3. **Li D**, Mai V, Gerke T, Yaghjyan L. Family History of Breast Cancer, Radiotherapy, and Breast Cancer Recurrence. 29th Annual PHHP Research Day, poster #G06.

Editorial and Reviewer Positions and Activities

2023 - Present	Editorial Board, Frontiers in Medicine
2022 - Present	Associate Editor, Anesthesia & Surgery Open Access Journal
2022 - Present	Journal review activities: Journal of Translational Medicine, Cell Proliferation, Psychiatry Research Case Reports, Cancers, Annals of Immunology & Immunotherapy, Frontiers in Pharmacology, Biomed Science Case Reports, Bioinspired, Biomimetic and Nanobiomaterials, Current Issues in Molecular Biology, Children, Journal of Clinical Medicine, Life, Global Translational Medicine, Epigenomes, Nutrients, Pathogens, Schizophrenia Research, Metabolites, Brain Sciences, Viruses, Genes, Pharmaceuticals, Tomography, Molecules

Mentorship

Undergraduate Research Volunteer Students

2025	Kenneth Kho
2024	Kenneth Kho, Gabriela Verez
2023	Kenneth Kho, Reed Berkowitz
2022	Reed Berkowitz, Whitney Albert, Mary Elizabeth
2018	Molly Kennedy, Stephanie Matcha

Ph.D. Student

2024	Zuqi Shen
2023	Max Glanz

Research Experience

2023/1/27-2027/11/30	PI: Dr. Clayton Mathews “Discovery and Roles of In Situ Islet Neoantigens in Human Type 1 Diabetes” National institutes of Health/NIDDK R01DK135081
2019/04/01-2024/03/31	PI: Dr. Cuong Nguyen “Mapping the T cell receptor/antigen complex and identifying the genetic-based treatment in Sjögren’s syndrome” National institutes of Health/NIDCR R01DE028544
2015/05/25 – 2019/05/15	PI: Dr. David Ostrov “Novel small molecules for alpha-1 antitrypsin deficiency” Florida Department of Health/James & Esther King Grant 5JK05

Skills and Techniques

Experimental: Plasmid transformation, Protein expression, Protein refolding, Protein purification, Crystallization trial setup and optimizing, Crystal Cryopreservation, ELISA, Gel electrophoresis, Liquid Chromatography, Cell culture and maintenance.

In Silico: X-ray diffraction data analysis, including Data quality assessment, Experimental phasing, Molecular replacement, Model building, Refinement and Validation. Protein Data Bank structure deposit, Molecular Docking, Generating publication quality image.

Software: Microsoft Office, SPSS, GraphPad Prism, AutoDock, PHENIX, PyMol, COOT.