

Molecular Genetic Pathology Fellowship Program

Department of Pathology and Microbiology

Molecular Diagnostics

is playing an increasingly important role in medicine, aiding in the diagnosis, prognosis and treatment of multiple diseases. Molecular testing is vital to the ultimate goal of precision medicine, which allows a physician to tailor the best treatment to an individual's condition, reducing side effects and costs. The **UNMC Molecular Diagnostics Laboratory** is a comprehensive clinical laboratory offering tests in all areas of molecular diagnostics, including hematopathology, oncology, infectious disease, inherited conditions, pharmacogenetics, disease associations, histocompatibility, and identity testing.



UNIVERSITY OF
Nebraska
Medical Center

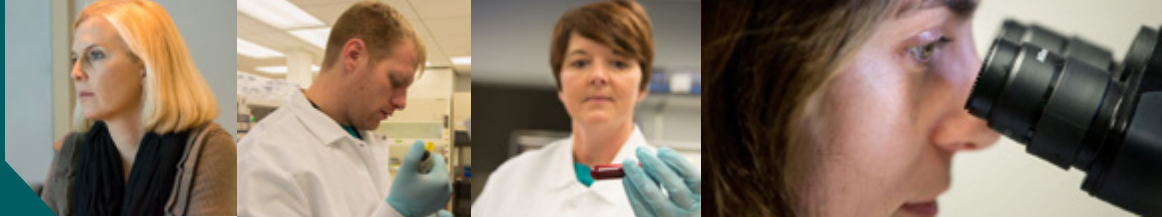
Department of Pathology and Microbiology
983135 Nebraska Medical Center
Omaha, NE 68198-3135
402.559.7726 or 402.559.7212 | Fx 402.559.6018

unmc.edu/pathology



unmc.edu/pathology

Program Details



The University of Nebraska Medical Center (UNMC) Department of Pathology and Microbiology is pleased to offer a one year Accreditation Council for Graduate Medical Education fellowship in Molecular Genetic Pathology beginning July 1. This fellowship will offer comprehensive exposure to all areas of molecular diagnostics and molecular pathology including those in solid tumor oncology, hematopathology, inherited diseases, infectious diseases, human identity testing, and histocompatibility.

The Molecular Diagnostics Laboratory, Human Genetics Laboratory, and UNMC perform over 30,000 tests a year utilizing various technologies including next generation sequencing, gene expression profiling, cytogenomic arrays, FISH, real-time PCR, reverse-transcriptase PCR, pyrosequencing, PCR/fragment analysis and various multi-analyte platforms. The fellow will also have the opportunity to rotate in the clinical microbiology laboratory and Nebraska Public Health Laboratory to learn about the role of molecular technologies in the epidemiology of infectious diseases and biopreparedness. The fellow will benefit from interactions with over 10 faculty members who are nationally known in the fields of molecular diagnostics, oncology, genetics and inherited diseases, infectious diseases and histocompatibility.

UNMC, and its hospital partner, Nebraska Medicine, are home to the NCI-Designated Fred & Pamela Buffett Cancer Center, Munroe-Meyer Institute for Genetics and Rehabilitation, Lied Transplant Center, Michael F. Sorrell Center for Health Science Education and Nebraska Public Health Laboratory, which will provide enhanced experiences in molecular diagnostics.

For more information: unmc.edu/pathology

Application Process

Applicants need to submit a complete application package. The package includes the CAP standardized fellowship application form, a curriculum vitae, personal statement, United States Medical Licensing Examination summary sheet showing parts 1, 2, & 3, AP/CP board certification (if applicable), Dean's letter, medical school transcript, medical school diploma and three letters of recommendation. The personal statement should include a brief overview of the applicant's interest, related experiences, and long term career goals. The three letters of recommendation should include one letter from the current Program Director, and two from other physicians or graduate advisors who know the applicant well. International graduates must also submit a copy of a valid Educational Commission for Foreign Medical Graduates (ECFMG) certificate.

EMAIL APPLICATION TO

Kim Martin
Residency/Fellowship Coordinator
kimberly.martin@unmc.edu | 402.559.7726

Molecular Diagnostic Faculty

Allison Cushman-Vokoun, MD, PhD, Associate Professor
Director, Molecular Genetics Fellowship
Medical Director, Molecular Diagnostic Laboratory
acushman@unmc.edu

Paul D. Fey, PhD, D(ABMM), Professor
Vice Chair, Research
Director, Nebraska Medicine Clinical Microbiology Lab

Timothy C. Greiner, MD, Professor
Director, Hematopathology

Scott Koepsell, MD, PhD, Associate Professor
Director, Transfusion Medicine

Weiwei Zhang, PhD, Assistant Professor
Clinical Bioinformaticist

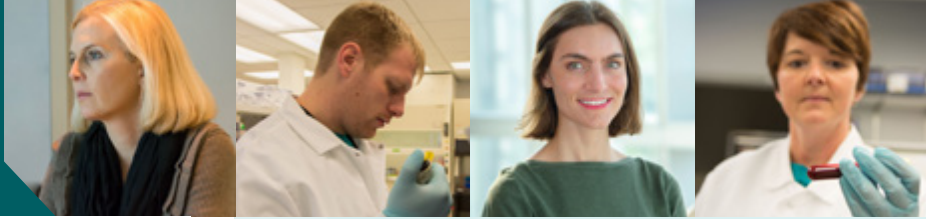
Jesse Cox, MD, PhD, Assistant Professor
Director, Molecular Forensics

Tareq Qdaisat, MBBS, Assistant Professor
Molecular Genetic Pathology, Neuropathology

Sahara Cathcart, MD, Assistant Professor
Molecular Genetic Pathology, Neuropathology



Program Details



The University of Nebraska Medical Center (UNMC) Department of Pathology and Microbiology is pleased to offer a one year Accreditation Council for Graduate Medical Education fellowship in Molecular Genetic Pathology beginning July 1. This fellowship will offer comprehensive exposure to all areas of molecular diagnostics and molecular pathology including those in solid tumor oncology, hematopathology, inherited diseases, infectious diseases, human identity testing, and histocompatibility.

The Molecular Diagnostics Laboratory, Human Genetics Laboratory, and UNMC perform over 30,000 tests a year utilizing various technologies including next generation sequencing, gene expression profiling, cytogenomic arrays, FISH, real-time PCR, reverse-transcriptase PCR, pyrosequencing, PCR/fragment analysis and various multi-analyte platforms. The fellow will also have the opportunity to rotate in the clinical microbiology laboratory and Nebraska Public Health Laboratory to learn about the role of molecular technologies in the epidemiology of infectious diseases and biopreparedness. The fellow will benefit from interactions with over 10 faculty members who are nationally known in the fields of molecular diagnostics, oncology, genetics and inherited diseases, infectious diseases and histocompatibility.

UNMC, and its hospital partner, Nebraska Medicine, are home to the NCI-Designated Fred & Pamela Buffett Cancer Center, Munroe-Meyer Institute for Genetics and Rehabilitation, Lied Transplant Center, Michael F. Sorrell Center for Health Science Education and Nebraska Public Health Laboratory, which will provide enhanced experiences in molecular diagnostics.

For more information: unmc.edu/pathology

Application Process

Applicants need to submit a complete application package. The package includes the CAP standardized fellowship application form, a curriculum vitae, personal statement, United States Medical Licensing Examination summary sheet showing parts 1, 2, & 3, AP/CP board certification (if applicable), Dean's letter, medical school transcript, medical school diploma and three letters of recommendation. The personal statement should include a brief overview of the applicant's interest, related experiences, and long term career goals. The three letters of recommendation should include one letter from the current Program Director, and two from other physicians or graduate advisors who know the applicant well. International graduates must also submit a copy of a valid Educational Commission for Foreign Medical Graduates (ECFMG) certificate.

EMAIL APPLICATION TO

Anna Nordhagen
Fellowship Coordinator
anna.nordhagen@unmc.edu | 402.559.7212

Kim Martin
Residency/Fellowship Coordinator
kimberly.martin@unmc.edu | 402.559.7726

Molecular Diagnostic Faculty

Allison Cushman-Vokoun, MD, PhD, Associate Professor
Director, Molecular Genetics Fellowship
Medical Director, Molecular Diagnostic Laboratory
acushman@unmc.edu

Paul D. Fey, PhD, D(ABMM), Professor
Vice Chair, Research
Director, Nebraska Medicine Clinical Microbiology Lab

Timothy C. Greiner, MD, Professor
Director, Hematopathology

Scott Koepsell, MD, PhD, Associate Professor
Director, Transfusion Medicine

Weiwei Zhang, PhD, Assistant Professor
Clinical Bioinformaticist

Jesse Cox, MD, PhD, Assistant Professor
Director, Molecular Forensics

Tareq Qdaisat, MBBS, Assistant Professor
Molecular Genetic Pathology, Neuropathology

Sahara Cathcart, MD, Assistant Professor
Molecular Genetic Pathology, Neuropathology

