



Michael Olivier, PhD, Director, and Laura A. Cox, PhD, Associate Director

Mission

Our mission is to develop and support innovative, collaborative, multi-disciplinary research programs to understand the transition of normal physiology to dysregulated disease processes at the molecular level. The detailed understanding of these changes will advance our ability to improve long-term health outcomes of our patients and to develop novel innovative treatment and lifestyle modification strategies.



Leadership

Directors



Leadership Team



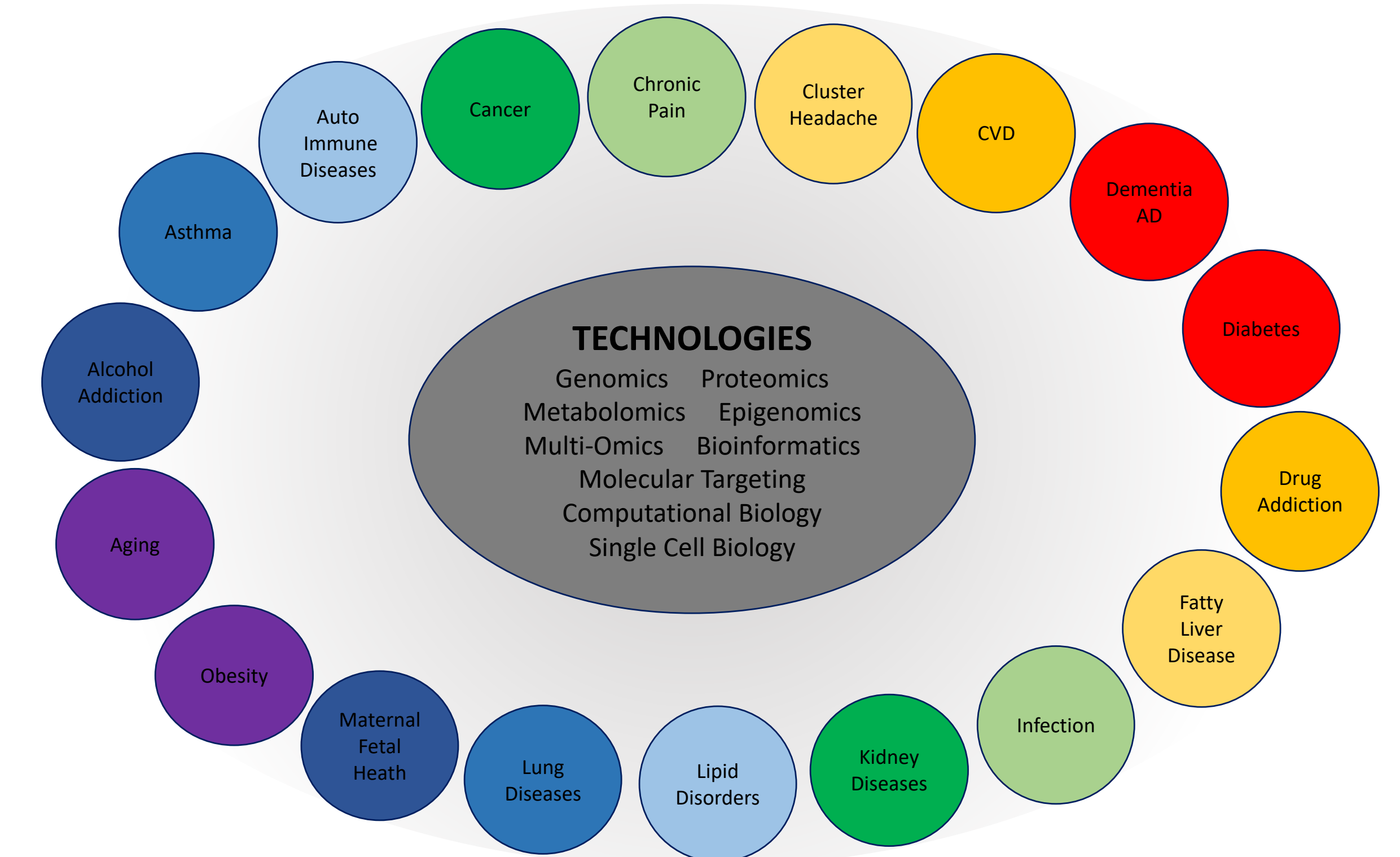
Membership

In 2022, Center faculty were principal investigators on extramural research grants totaling **\$37,775,650**. Center faculty co-authored 220 peer-reviewed scientific research publications in 2022.

- 75 faculty members from 24 departments, sections and institutes (14 clinical departments and sections)
- 44% women, 30% early career faculty



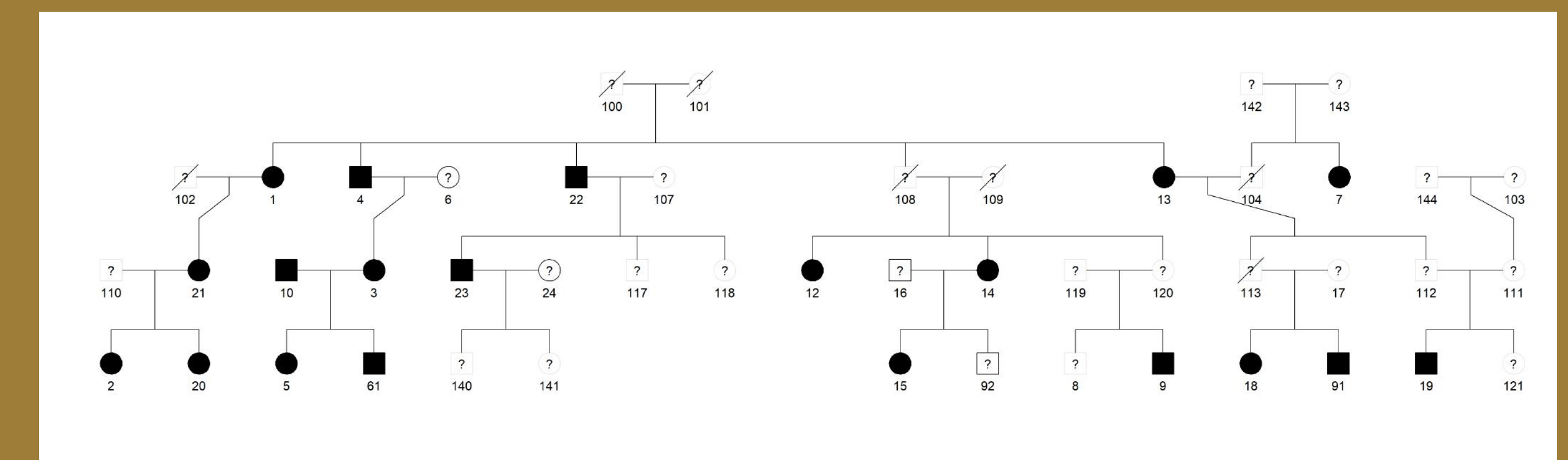
Areas of Research



Research Spotlight

Genetic Cause of Cluster Headache
Dr. R. Wells, Principal Investigator
Dr. K. Zimmerman, Dr. M. Olivier, Co-Investigators

- Study of a patient family with severe cluster headache
- Affected individuals have severe paralyzing episodes, affecting their normal quality of life



- Sample collection and DNA sequencing of family members helped identify a mutation that likely causes the severe headache, and can be used to diagnose patients at risk
- Search for novel treatment options is underway

Education and Training Programs



- **Summer Research Internship Program** for College and High School students (9 weeks)
- **Center Seminar Series**
- Center faculty lead 4 **Graduate (PhD and MS) Programs**
- **Training Courses (OMICS 101)** for faculty and staff
- **Research Planning and Grant Writing** support
- **Early career faculty mentoring**



2022
Summer
Interns