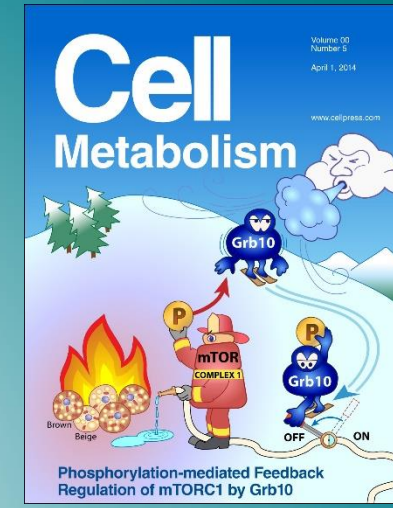
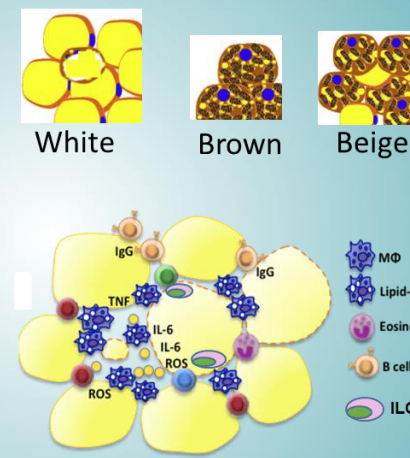


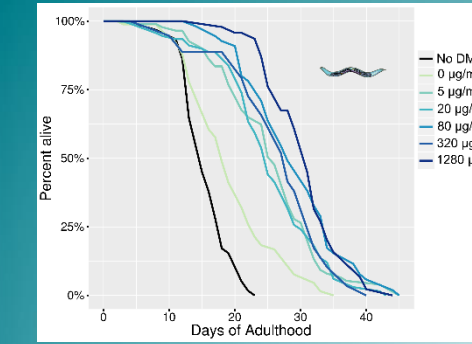
Accepting Graduate Students

Liu Lab: Obesity and Diabetes

Adipose tissue
Immuno-metabolism



McCormick Lab: Delaying onset of Age-related Diseases
<https://www.labmccormick.org>



Combining biochemistry, molecular biology, and genetics with data science and machine learning

Meilian Liu, Ph.D.
Assistant Professor

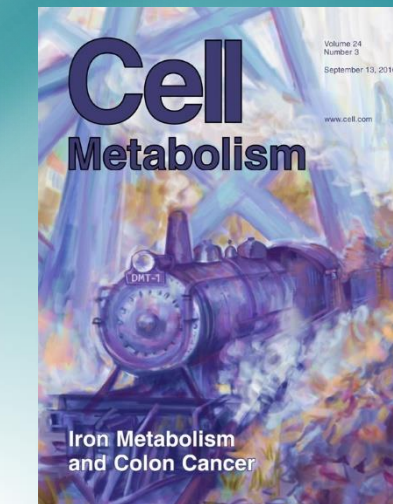
Mark McCormick, Ph.D.
Assistant Professor

Xiang Xue, Ph.D.
Assistant Professor

Curt Hines, Ph.D.
Assistant Professor

Karlett Parra, Ph.D.
Professor and Chair

Xue Lab: Micronutrients and Colon Cancer



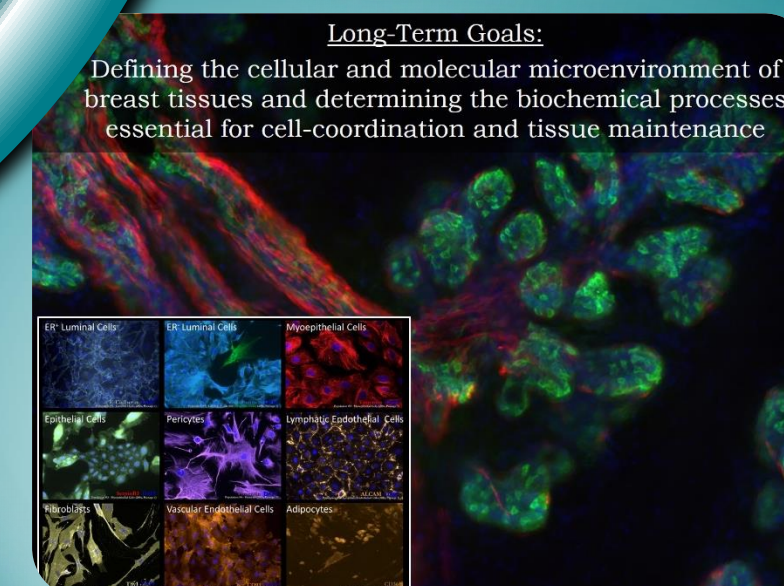
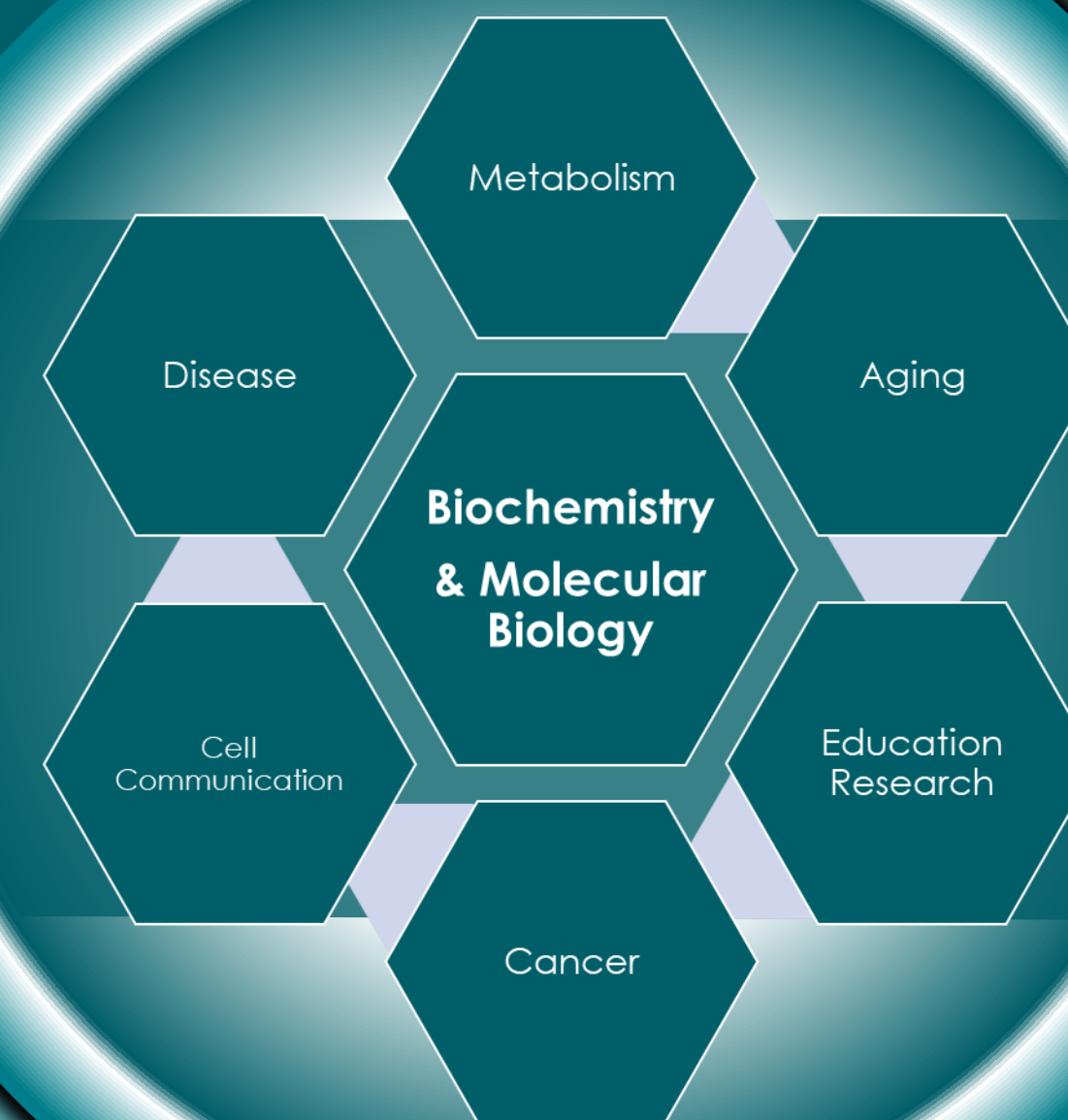
- Why are micronutrients essential for cancer cell growth?
- How is mitochondrial metabolism and stress activated pathways involved in colon cancer?
- What role does hypoxia signaling have in intestinal inflammation and colorectal cancer?

Summer Hayek, Ph.D.
Research Assistant Professor

Sherman Garver, Ph.D.
Assistant Professor

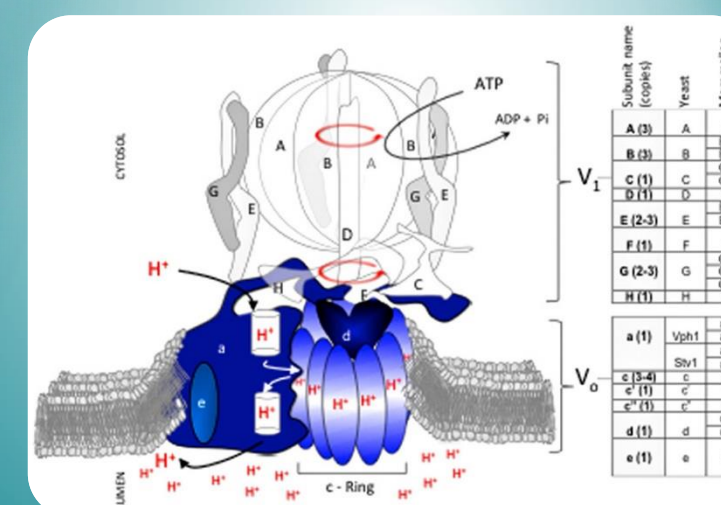
Robert Orlando, Ph.D.
Associate Professor

Raj Shah, Ph.D.
Professor



Long-Term Goals:

Defining the cellular and molecular microenvironment of breast tissues and determining the biochemical processes essential for cell-coordination and tissue maintenance



Investigating molecular mechanisms that regulate V-ATPase proton pumps and downstream consequences of V-ATPase proton transport inhibition in fungi (*S. cerevisiae*, *C. albicans*), cancer cell lines and primary cells.

Parra Lab: V-ATPase Physiology

Natalie Adolphi, Ph.D.
Associate Professor

Andy Hu, Ph.D.
Associate Professor

Martina Rosenberg, Ph.D.
Assistant Professor

Raj Shah, Ph.D.
Professor

Hines Lab: Microenvironment of Breast Tissues and Tumors
www.breastcancerlab.com

Marcy Osgood, Ph.D.
Associate Professor

Robert Orlando, Ph.D.
Associate Professor

Biochemistry and Molecular Biology



THE UNIVERSITY of
NEW MEXICO



SCHOOL of MEDICINE

Key Techniques and Methods

- Metabolic Profiling
- RNA Sequencing
- Mass Spectrometry
- CRISPR Genome Editing
- Confocal Imaging
- Animal Models
- Patient-Derived Xenografts
- Yeast Models
- Primary Human Cell Culture
- Advanced Flow Cytometry
- Histology & Immunostaining
- Single Cell Techniques
- ...And more!

The Department of Biochemistry was established in August, 1964 as one of the UNM School of Medicine's founding departments. In 1969, the Department was tasked with providing undergraduate biochemistry instruction at UNM.

The undergraduate program, implemented in 1984, attracts many of the university's best students, and provides graduate students opportunities to develop their teaching skills.

In 1996, the dean of the School of Medicine reorganized the departments of Anatomy, Biochemistry, Cell Biology, Microbiology, Physiology and Pharmacology to strengthen programmatic research. The four resulting basic science departments, including the present Department of Biochemistry and Molecular Biology, were formally established on July 1, 1997.

Faculty research interests include metabolism and metabolic disease, cancer biology and therapeutics, and biochemistry education research.