# Karalis Johnson Retina Center: Research Framework

**Vision:** To create a world without blindness from retinal degeneration.

## Advanced Optics & Imaging

- **Adaptive Optics Imaging:** Ram Sabesan, Ph.D., and Kasra Rezaei, M.D.
- **High-resolution OCT-Angiography:** Ricky Wang, Ph.D. Kathryn Peppe, M.D., Ph.D.

## Computational Ophthalmology

- **Outcome prediction using Big Data and Machine Learning:** Aaron Lee, M.D., M.Sc., and Cecilia Lee, M.D.

## Vision Restoration Research

- **Stem Cell Therapy:** Jennifer Chao, M.D., Ph.D. and Tom Reh, Ph.D.
- **Chemical Reanimation:** Russell Van Gelder, M.D., Ph.D.
- **Gene Therapy:** Jay Neitz, Ph.D. and Maureen Neitz, Ph.D.

## Accelerating the Therapeutic Pipeline

- **Early Clinical Discovery:** Jennifer Chao, M.D., Ph.D. Jim Hurley, Ph.D.

Additional investigators contributing to retinal research in the Karalis Johnson Retina Center include: Ethan Buhr, Ph.D., Sue Brockerhoff, Ph.D., Jim Hurley, Ph.D., Michael Manookin, Ph.D.