Medical Education Technology
Anuradha Khanna, MD, Director

- Interactive 3D Surgical Training Solutions
  - TruVision 3D Surgical System
  - 3D Classroom and Education Center
- On-line Ophthalmic Pathology
  - E-Learning Program
  - National Data Base
- Cataract Surgical Assessment Tool
  - Video Performance Review
  - Skills Refinement
- Loyola Leischner Institute for Medical Education
- LUMC Advanced Procedure and Education Center (APEC)
  - Surgical Training
  - Resident Education
  - Practicing Ophthalmologists

Cornea and Ocular Surface Diseases
Bruce Gaynes, OD, PharmD
Omer Iqbal, MD

- Dry Eye Disease
- Floppy Eyelid Syndrome
- Graft vs Host Disease (GVHD)
- Corneal Disease
  - Keratoconus, Proteomics
  - Corneal Transplantation
- Genetics of Rare Disease
  - Steven ’s Johnson Syndrome
  - Pellucid Marginal Degeneration
- Corneal Stem Cell Transplantation
- Ocular Surface Imaging
  - Ocular Blood Flow
- Topical Pharmacology/Drug Delivery
- Quality of Life (QOL) Assessments

Glaucome and Neurodegenerative Diseases
Evan Stubbs, PhD
Simon Kaja, PhD

- Cellular & Molecular Mech. of Glaucome
  - TGF-β2, ET-1 & AH Outflow Dynamics
  - Pressure-Induced Injury to RGC Neurons
  - siRNA Therapeutics
- Diabetic Neuropathy and Retinopathy
- Autoimmune Neuropathy
  - Autoreactive leukocyte Trafficking
  - siRNA Therapeutics
- Neuro-protectants
  - Polyphenols
  - Crucifer Isothiocyanates (Sulforaphane)
- Ocular Pharmacology
  - Elapid Analgesics
  - Sulodxide Therapeutics
- Proteomics

Research Collaborative Programs
Evan Stubbs, PhD, Director
Kimberly Bergen, Research Coordinator

Patient Care Outcomes Research (PCOR)
Ronald Price
Francis Weaver

- Chicago PCORI
  - NIH Funded Grant
- Loyola Clinical Research Database (CRDB)
  - Macular Degeneration
  - Diabetic Retinopathy
  - Glaucome
  - Obstructive Sleep Apnea
- Hines VA Information Resource Center (VIREC)
- CHE-Trinity Data Mining Program