2010 – 2011 STARS TOUR TOPICS

---

Anesthesiology

- Anesthesiology Simulation-Lab
- Anesthesiology and Pain Management -Lec
- Anesthesiology As A Career-Lec

Animal Resources

- How to Become a Veterinarian-Lec
  - Use of Animals in Research-Lec

Biochemistry

- Crystallography-Lab
- Drug Design and Development-Lec
- Chemistry/Hematology Lab
- Chemistry-Lab
- Protein Engineering-Lee/Lab
- Organic Chemistry-Lab/Lec
- NMR Spectroscopy-Lab
- Nuclear Transport-Lab
- Study of Gene Regulation-Lab
- Study on Transgenic Animals-Lab

Health Professions

- Biomedical Communications-Lec
- Emergency Medical Education-Lec
- Medical Laboratory Sciences-Lec
- Nursing-Lec
- Nutrition Science-Lee/Lab
- Physical therapy-Lab/Lec
- Physician Assistant-Lec
- Prosthetics/Orthotics-Lab/Lec
- Child Life Specialist-Lec
- Respiratory Therapy-Lee
- Paramedic-Lee
- Medical Careers-Lee

Biomedical Technology & Research

- Gel Electrophoresis-Lab
- Gene Therapy-Lee/Lee
- Graduate research & education-Lee
- PCR (polymerase chain reaction)-Lab
- Transgenic Animals-Lab
- DNA Micro Array-Lab/Lee
- DNA Sequencing-Lee
- Biomedical Inventions-Lab
- BioInformatics-Lab

Cardiovascular System

- Echocardiograms-Lab
- Cardiology Lab-Lab
- Cardiac Rehabilitation-Lab
- Heart Transplant-Lee
- Heart Transplant Patient Testimony-Lee
- Risk Factors for Cardiovascular Disease-Lee
- Stem Cell Biology-Lab
- Artificial Heart-Lec
- Muscle Regeneration & Repair-Lab
- Heart Disease-Lee
- Preventative Cardiovascular Health & Risk factors-Lee

Cancer/Oncology

- Leukemia-Lee
- Skin Cancer-Lee
- Anti-Angiogenesis Cancer Therapy-Lab
- Early Diagnosis of Cancer-Lee
- Childhood Cancers-Lee
- Cancer Genetics-Lee
- Natural Substances as Sources of
  - Cancer Treatments-Lee

Cell Biology

- Cytology-Lab
- Histology/Pathology-Lab
- Cytokine production in burn & trauma-Lab

---

Environmental Health & Safety

- Radiation in Research-Lee
- Radiation Safety, Radioactive Materials-Lee
- Lab Safety, Chemical Waste-Lee
- Fire and Life Safety-Lee

Genetics

- Gene Regulation – Lab
- Stem Cell Research-Lab/Lee
- Genetic Counseling-Lee
- Fruit Flies-Lee
- Behavior Genetics-Lee
- Human Molecular Genetics-Lee/Lab
- Genetics of Cholesterol Metabolism-Lab
- Genetics & Obesity-Lee
- Biochemical Genetics-Lee
- From Inheritance to Gene Therapy-Lee
- Genetically Related Diseases-Lee

Health

- Alcohol in Adolescence-Lee
- Teens Common Drug of Choice-Lee
- Sports Nutrition-Lee
- Allergy-Lee
- Nutrition & Exercise-Lee
- Sleep-Lee

Hospital Tours

- Parkland Memorial Hospital
  - Children’s Medical Center

Internal Medicine

- Hypertension Lab/Lee
- Osteoporosis, Metabolic Bone Disease
- Steroids
- Exercise physiology-Lab

Immunology

- General immunology-Lee
- Immunology in Ophthalmology-Lab
- Rheumatoid Arthritis-Lee
- Infection Control-Lee
- DNA Technology-Lab
- Flow Cytometry-Lee
  - T cells-Lab/Lee

Medicine

- Lasers in medicine-Lee
- Medical students-Lee
- Bones & Osteoporosis-Lee
- Physical Medicine & Rehabilitation-Lab
- Musculoskeletal Rehabilitation-Lee
- Hypertension/Diabetes-Lee/Lab
- Obesity-Lee
- Pulmonary Diseases-Lee
- Anorexia & Bulimia-Lee
- Lupus-Lee
- Cystic Fibrosis-Lee
- CPR-Lee
- Sexually Transmitted Diseases-Lee
- HIV/AIDS Research-Lab/Lee
- Osteoporosis-Lab
- Digestive & Liver Disease-Lee
- Lung Transplant-Lee
- Sickle Cell Anemia-Lee
- Autism-Lee

Lab – Lab Visit
Lee - Lecture
### Microbiology
- Hepatitis A, B, C - Lec
- Flow Cytometry - Lab
- Tropical Medicine Research - Lec
- Micro-Organisms As Biological Weapons - Lec
- Vaccine for Hepatitis - Lec
- Hamburger E. Coli - Lab

### Molecular Biology
- Transgenic lab - Lab
- Using FISH to diagnose genetic diseases - Lab
- DNA micro arrays - Lab
- G-proteins - Lab
- Organ Development in Animals - Lab
- Nervous System Development - Lab

### Neurology
- Neuroimaging - Lec
- Neuroanatomy - Lec
- General Neurology - Lec
- Pediatric Neurology - Lec
- Parkinson’s Disease & Tremor - Lec
- Alzheimer’s Disease - Lab/Lec
- Multiple Sclerosis - Lec
- Neurology strokes; headaches, migraines - Lec
- Brain Research - Lab
- Neuromuscular Diseases - Lec
- Huntington Disease - Lab
- Neuro-rehabilitation - Lec
- Epilepsy Unit - Lab
- Nervous System Proteins - Lab
- Autoimmune Disease - Lab
- Lou Gehrig’s Disease - Lab
- Epilepsy Unit - Lab

### Obstetrics & Gynecology
- Premature Births/NICU - Lab/Lec
- Fetal Echocardiograms - Lab
- Labor & Delivery - Lab
- Maternal Fetal Medicine - Lec

### Orthopedics
- Sports related Knee Injuries - Lec

### Pathology
- Anatomy Lab/Willed Body - Lab
- Forensic pathology - Lec
- Cytology - Lab
- Chemical/Hematology - Lab
- Medical Technology - Lab
- DNA Fingerprinting - Lec
- Atherosclerosis - Lab
- Resistance to Antibiotics - Lec
- Cytogenesis - Lec
- Informatics - Lab

### Pediatrics
- General pediatrics - Lec
- Pediatric Emergency Medicine - Lec
- Pediatric Cardiology - Lec
- Pediatric Cancers - Lab/Lec
- Pediatric NICU - Lab (8 max)
- Pediatric Urology - Lab

### Pharmacology/Toxicology
- Effects of illicit drug use - Lec
- Making Proteins In Cell Signaling - Lab
- Forensic sciences - Lec
- How the Senses Work - Lec
- Insulin & Diabetes - Lec
- Toxicology - Lec
- Cellular communications signaling, G-proteins - Lec

### Psychiatry
- Neurodegenerative Disease - Elderly - Lec
- Clinical Psychology - Lec
- Adolescent Depression and/or Addictive Disorders - Lec
- Careers in Mental Health - Lec
- Antidepressant Drug Action - Lec
- Psychopharmacology - Lec

### Radiology
- Cyberknife
- General radiology - Lec
- Neuroimaging - Lec
- MRI center - Lab
- Cardiac Imaging - Lec
- Radiology Imaging - Lec/Lab
- CAT Scan - Lab
- PET - Lab

### Surgery
- Orthopedic surgery - Lec
- Laparoscopic surgical training - Lab
- Urologic surgery - Lab
- Oral & Maxillofacial Surgery - Lec
- Bone Marrow Transplants - Lec
- Plastic Surgery - Lec
- Trauma Surgery - Lec
- Injury Prevention - Lec
- Suture Lab
- Simulation Lab

### Urogenital System
- Hemodialysis - Lab
- Pediatric Urology - Lab
- Endocrinology - Lab
- Steroids - Lec
- Kidney Transplants - Lec
- Urinary Tract - Lab