For this lecture the students will each give a talk on an autoimmune disease or Immunoproliferative diseases that they pick randomly out of a hat. They will either do it as a presentation or case study format, their choice.

Autoimmune Diseases:

Adrenal: Addison's disease – *Cortisol in serum and ACTH*

Digestive system: IBD- Ulcerative colitis and Crohn's disease - *UC=pANCA?*

Musculoskeletal: Myasthenia Gravis - *Acetylcholine receptor binding and blocking antibody by RIA*

Nervous system: Multiple sclerosis – *Oligoclonal banding*

Pancreas: Type I and Type II diabetes – *Insulin Autoantibodies, IA-2, Insulin and C-Peptide*

Pulmonary and Renal system: Goodpasture's disease – *Autoantibodies against the glomerular basement membrane (GBM) not performed in our lab*

Systemic: Sjogren's syndrome - *(ENA)*

Systemic: SLE – *ANA (EIA and IFA), DNA, and Crithidia*

Systemic: Rheumatoid arthritis - *CCP*

Vascular/clotting system: Antiphospholipid syndrome - *Cardio (IgG, IgM, IgA) and Beta2 (IgG, IgM)*

Immunoproliferative diseases:

Plasma cell disorders: Multiple Myeloma - *SPE and MPA (Serum protein electrophoresis and Monoclonal Protein analysis)*

Plasma cell disorders: Waldenstrom Macroglobulinemia - *MPA*

**Tests done in Immunology Lab*