Immunomodulatory Natural Products

Research emphasis:
Travis’ research is focused on evaluating the effects of *Echinacea purpurea* extracts on macrophage and mast cell activity *in vitro*. In addition, he is investigating the anti-inflammatory activity of small, fatty acid-like molecules called alkylamides, which are produced by *E. purpurea* and have been found to inhibit cytokine and chemokine production. His work in this area has led to the investigation of applying alkylamides for the treatment of inflammation associated with allergies.

Applications:
- Innate immunology
- Inflammation
- Natural product evaluation
- Pharmaceutical discovery

Research Strengths:
- Cell-based assays
- Protein quantification and analysis
- Calcium imaging
- Cell viability and toxicity measurement

Publications and Abstracts:


