Our group is investigating a number of issues that relate to eye diseases which may have an immune or inflammatory basis to their pathogenesis. In addition, the group also studies eye development and aging. The World Health Organization estimates that over 45 M people are blind and 314 M people are visually impaired. The Ocular Immunology group has a number of active projects that are aimed at understanding common blinding diseases such as corneal infection, retinopathy of prematurity, and age-related macular degeneration. The research group sees itself as part of a larger global effort to understand these conditions - if we can help place one small piece in the larger jigsaw puzzle of medical research that will help future treatment of these conditions then we will have succeeded.

Research Projects

1. Are there antigen presenting cells in the normal brain parenchyma and retina?

2. Novel treatment protocols for human retinopathy of prematurity using a clinically relevant mouse model

3. Investigating perivascular macrophages in the ocular microenvironment

Selected significant publications:


