

2023
Inaugural
DANIEL M. ALBERT
Lecture

OVERCOMING CHALLENGES TO PHOTORECEPTOR CELL REPLACEMENT

**DAVID
GAMM**



MD, PHD

PROFESSOR, DEPARTMENT OF
OPHTHALMOLOGY AND VISUAL SCIENCES

RRF EMMETT A. HUMBLE DISTINGUISHED
DIRECTOR, MCPHERSON EYE RESEARCH
INSTITUTE

SANDRA LEMKE TROUT CHAIR
IN EYE RESEARCH

Since the advent of human pluripotent stem cell (hPSC) technology at UW-Madison in the late 1990s, researchers and companies have sought to produce cells, including photoreceptors, capable of replacing those lost in the course of neurodegenerative diseases. Methods to generate photoreceptors from hPSCs have advanced greatly at UW-Madison, with recent evidence showing that these cells – particularly cones – are structurally and functionally authentic. Dr. Gamm will discuss the development, current status, and future path of this technology, which holds much promise to improve vision in individuals with retinal blinding disease.

**THURSDAY
OCT**

26

Health Sciences Learning Center
RECEPTION

3:00PM
Atrium

LECTURE

4:00PM
Room 1325