

**Project 3.14. A new approach of vision restoration based on modified Rabies virus tracing technique**

**Supervisor:** Prof. dr hab. Maciej Wojtkowski/Co-supervisor: Dr Andrzej Foik

**ICP PAS Group:** Ophthalmic Biology Group  
International Centre for Translational Eye Research (ICTER)  
Institute of Physical Chemistry of the Polish Academy of Sciences

**www:** <https://www.icter.pl/>

**Background:**

The International Center for Translational Eye Research (ICTER) led by Prof. Maciej Wojtkowski is a multi-investigator center for eye research with the use of the latest advancements in optics, engineering, chemistry, biophysics, and biology to support progress in understanding the etiology and development of treatment for human blinding diseases. Further information on the research priorities and current expertise of our Center can be found at <http://www.icter.pl>. Ophthalmic Biology Group led by Dr. Andrzej Foik, one of the five research groups within ICTER, focuses on genetic engineering, electrophysiology, and imaging.

**Aim:**

The goal of the research conducted by dr Foik's Ophthalmic Biology Group is to describe visual information processing in the visual system before and after plasticity that happens due to disease or vision recovery. Efforts of the research group will be focused on the development of new gene therapies to inhibit processes leading to vision loss.

**Requirements:**

- Master degree in biology, biotechnology and related;
- ability to work in a team and manage projects;
- strong work dedication, work ethics, discipline and independence;
- good problem-solving skills and creativity;
- proficiency in English, both spoken and written;
- MS Office (additional skills in graphic programs or Matlab/Python will be an asset).