The discovery of new disease genes (1 ECTS)

Organizer(s)  
Dr. Muhammad Ansar, PhD  
Head of the Eye genetics group  
Jules-Gonin Eye Hospital Lausanne, Ophthalmology Department of UNIL

Content of course sessions  
- Session 1: Introduction of Mendelian genetics, mode of inheritance and high throughput sequencing technologies.  
- Session 2: Classification and interpretation of genetic variations  
- Session 3: Identification of disease causative variants in known as well as in candidate genes  
- Session 4: Gene discovery protocol: Problem 1 (example of a neurological disorder)  
- Session 5: Gene discovery protocol: Problem 2 (example of a retinal disorder)

Course dates  
Session 1: Friday, April 29, 2022 (14h00 – 17h00)  
Session 2: Friday, May 20, 2022 (14h00 – 17h00)  
Session 3: Friday, May 27, 2022 (14h00 – 17h00)  
Session 4: Friday, June 03, 2022 (14h00 – 17h00)  
Session 5: Friday, June 10, 2022 (14h00 – 17h00)

Course materials  
Scientific articles to be discussed during the tutorial will be provided to participants before the first session. Students are supposed to read all articles to actively participate in the discussions in session 2-5. Starting from session 2, a pair of participants must prepare an oral presentation on the article provided.

Location  
Life Streaming on Zoom: https://unil.zoom.us/j/96259626655  
Meeting ID: 962 5962 6655  
Password: 290422

Please keep your camera on as the course is targeting interactions, and you might be asked questions throughout the course.

Evaluation  
Personal preparation: yes  
Personal presentations: yes  
Final test: no  
Evaluation of participants by the teacher: yes

Registration  
The course is limited to 12 participants. Register until April 10, 2022 by writing a mail to lndscourses@gmail.com (with your supervisor in copy) and stating the course title as subject.