

## The discovery of new disease genes (1 ECTS)

<b>Organizer(s)</b>	Dr. Muhammad Ansar, PhD Head of the Eye genetics group Jules-Gonin Eye Hospital Lausanne, Ophthalmology Department of UNIL
<b>Content of course sessions</b>	<ul style="list-style-type: none"><li>• Session 1: Introduction of Mendelian genetics, mode of inheritance and high throughput sequencing technologies.</li><li>• Session 2: Classification and interpretation of genetic variations</li><li>• Session 3: Identification of disease causative variants in known as well as in candidate genes</li><li>• Session 4: Gene discovery protocol: Problem 1 (example of a neurological disorder)</li><li>• Session 5: Gene discovery protocol: Problem 2 (example of a retinal disorder)</li></ul>
<b>Course dates</b>	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)
<b>Course materials</b>	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.
<b>Location</b>	Life Streaming on Zoom: <a href="https://unil.zoom.us/j/96259626655">https://unil.zoom.us/j/96259626655</a> 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.
<b>Evaluation</b>	Personal preparation: yes Personal presentations: yes Final test: no Evaluation of participants by the teacher: yes
<b>Registration</b>	The course is limited to 12 participants. Register until April 10, 2022 by writing a mail to <a href="mailto:indscourses@gmail.com">indscourses@gmail.com</a> (with your supervisor in copy) and stating the course title as subject.