Method Course on Immunohistochemistry (1 ECTS), April 24-25, 2018

Venue: Biocenter Oulu histology lab 479B, Kontinkangas, Aapistie 5A, 90220 Oulu
Teachers: Karin Hederoth & Lotta Leveelahti, Histolab Products Oy
Organizers: Health and Biosciences Doctoral Programme, Biocenter Oulu Transgenic Mouse Core Facility, and Histolab Products Oy
Credits: 1.0 ECTS for field-specific studies in doctoral training
Enquiries: Dr. Reetta Vuolteenaho, reetta.vuolteenaho(at)oulu.fi
Registration: The course is limited to about 12 participants selected by application. Priority is given to doctoral students. **Online registration/application, deadline April 17.** All applicants will be notified on April 18.

This 2-day practical course includes short lectures on each step of the immunohistochemistry (IHC) protocol. Additionally, you get hands-on experience about the micropolymer detection method with human tissue samples. Micropolymer detection enables superior sensitivity and reduced background staining compared to the traditional avidin-biotin-based detection. In the course, we will this time perform simultaneous chromogenic multiplex staining on a paraffin section. Is it as easy as doing a single stain? Come and see!

The course participants will do single stainings using their own mouse tissue sections (3-4 slides) and their own primary antibody which has been tested for immunohistochemistry. The human tissue samples, secondary antibodies and reagents for double stainings will be provided by the organizers.

Apply online: [https://www.webropolsurveys.com/S/24D17892DA717B7B.par](https://www.webropolsurveys.com/S/24D17892DA717B7B.par)

Course programme

**Day 1 (9.00-15.00)**

9.00-10.00 Intro IHC + Pre-treatments + Blocking
10.00-10.15 Lab: Deparaffinisation and start pre-treatments
10.15-10.30 Break
10.30-11.00 Antibodies
11.00-11.15 Lab: Slides into TBS
11.15-11.45 Detection
11.45-12.00 Lab: Background blocking and application of antibody
12.00-13.00 Lunch break
13.00-13.15 Lab: Application of Probe
13.15-13.30 Chromogen + counterstaining + Mounting
13.30-13.45 Lab: Application of Polymer
13.45-14.15 Trouble shooting + Wrap Up
14.15-15.00 Lab: Application of Chromogen + Counter staining + Mounting + Check results

**Day 2 (9.00-12.45)**

09.00-09.20 Lab: : Deparaffinisation and start pre-treatments
09.20-10.00 Multiplex IHC
10.00-10.05 Lab: Slides into TBS
10.05-10.15 Break
10.15-10.30 Lab: Background blocking and application of antibody cocktail
10.30-11.00 Trouble shooting
11.00-11.10 Lab: application of polymer cocktail
11.10-11.40 Lunch break
11.40-12.00 Lab: Application of Chromogen
12.00-12.15 Questions and discussions
12.15-12.45 Counterstaining + Mounting + check results