

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

- Venue:** Biocenter Oulu histology lab 479B, Kontinkangas, Aapistie 5A, 90220 Oulu
Teachers: Karin Hederöth & 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>

Course programme

Day 1 (9.00-15.00)

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

Day 2 (9.00-12.45)

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