

# Basics to Work with Extracellular Vesicles

## University of Tartu 2-5 December 2019

<b>Day 1 (December 2<sup>nd</sup>): EV purification</b>	
9.00-9.20	<b>Welcoming and Introduction</b> <i>Alireza Fazeli</i>
9.20-10.45	<b>Lecture 1</b> Minimum requirements for publishing EV studies - <i>Janeli Viil</i>
10.45-11.00	<i>Coffee break</i>
11.00-12.00	<b>Lecture 2</b> Methods for EV purification - <i>Getnet Balcha Midekessa and Danilo Mladenović</i>
12.00-12.40	<i>Lunch</i>
12.40-14.40	<b>Workshop 1</b> Introduction to Size Exclusion-High Performance Liquid Chromatography (SEC-HPLC) and Tangential Flow Filtration (TFF) - <i>Getnet Balcha Midekessa, Danilo Mladenović and Keerthie Dissanayake</i>
14.40-14.50	<i>Coffee break</i>
14.50-17.00	<b>Workshop 2</b> EV purification from follicular fluid samples - <i>Mohammad Mehedi Hasan and Qurat Ul Ain Reshi</i>
<b>Day 2 (December 3<sup>rd</sup>): Nanoparticle Tracking Analysis (NTA)</b>	
9.00-10.00	<b>Lecture 3</b> Introduction to Zetaview NTA - <i>Sascha Raschke</i>
10.00-11.00	<b>Workshop 3</b> EV size and concentration measurements with NTA - <i>Keerthie Dissanayake</i>
11.00-11.10	<i>Coffee break</i>
11.10-13.00	<b>Workshop 4</b> EV zeta-potential measurements with NTA - <i>Getnet Balcha Midekessa</i>
13.00-14.00	<i>Lunch</i>
14.00-15.00	<b>Lecture 4 (guest lecture)</b> <i>Malene Møller Jørgensen</i>
15.00-15.10	<i>Coffee break</i>
15.10-17.10	<b>Workshop 5</b> NTA data analysis - <i>Freddy Lättekivi</i>
<b>Day 3 (December 4<sup>th</sup>): EV validation methods and further applications</b>	
9.00-10.15	<b>Lecture 5</b> Transmission Electron Microscopy (TEM) - <i>Aneta Andronowska</i>
10.15-11.30	<b>Lecture 6</b> High-resolution microscopy and its potential applications in EV research - <i>Sergei Kopantsuk</i>
11.30-11.40	<i>Coffee break</i>
11.40-12.10	<b>Lecture 7</b> RNA extraction from EVs - <i>Kasun Godakumara</i>
12.10-13.00	<b>Workshop 6 (part 1)</b> RNA extraction from EVs - <i>Kasun Godakumara</i>
13.00-13.40	<i>Lunch</i>
13.40-17.00	<b>Workshop 6 (part 2)</b> RNA extraction from EVs - <i>Kasun Godakumara</i>
<b>Day 4 (December 5<sup>th</sup>): Questions and Answers</b>	
	Entertainment