Health and Bioscience Doctoral Programme (HBS-DP) Course on
“Secreted Extracellular Nano-Micro Vesicles In Health And Diseases”

Time: December 9-10, 2019
Place: Leena Palotie Hall 101A, Aapistie 5A, Kotinkangas campus, University of Oulu
Study credits: 0.5 ECTS
Registration: open until 05.12.2019

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Course programme
Day 1, Monday 9th, Leena Palotie Hall 101A, Aapistie 5A

09.00-09.30 Coffee served
09.30-09.45 Welcome opening remarks
   Prof. Dr. Seppo Vainio, University of Oulu
09.45-10.30 New nanotechnologies for molecular analyses of tumor-derived extracellular vesicles
   Assistant Prof. Dr. Hyungsoon Im, Harvard Medical School, Harvard University, USA
10.30-11.00 Coffee Break
11.00-11.30 Extracellular vesicles in evolution and disease; A theoretical perspective
   Prof. Dr. Seppo Vainio, University of Oulu
11.30-12.00 Biogenesis and secretion of extracellular vesicles
   Docent Dr. Anatoliy Samoylenko, University of Oulu
11.30-12.00  Genomics of extracellular vesicles
   Docent Dr. Genevieve Bart, University of Oulu

12.00-13.00  Lunch Break

13.00-13.30  Purification of high-quality extracellular vesicles (preliminary title)
   Dr. Maija Puhka, University of Helsinki

13.30-14.00  NMR characterization of dynamics and size distribution of exosomes
   Prof. Dr. Ville Telkki, University of Oulu

14.00-14.30  Imaging methods for extracellular vesicles
   Docent Dr. Kirsi Rilla, University of Eastern Finland

14.30-15.00  Coffee Break

15.00-15.30  Extracellular vesicles derived from milk and other natural sources (preliminary title)
   Dr. Sirja Viitala, Natural Resources Institute, Finland

15.30-16.00  Extracellular vesicles as intercellular messengers in brain diseases
   Prof. Dr. Tarja Malm, University of Eastern Finland

Day 2, Monday 10th, Leena Palotie Hall 101A, Aapistie 5A

9.00-9.30  The use of extracellular vesicles in drug delivery
   Prof. Dr. Marjo Yliperttula, University of Helsinki

9.30-10.00  Engineered exosomes for novel gene therapy
   Docent Dr. Mikko Turunen, University of Eastern Finland

10.00-10.30  Coffee Break

10.30-11.15  Microbiomic extracellular vesicles and clinical perspective of EVs (preliminary title)
   Docent Dr. Justus Reunanen and Docent Dr. Terhi Tapiainen, University of Oulu

11.15-11.45  Nanoscale vehicles in the highway of blood, extracellular vesicles delivering messages
   Dr. Saara Laitinen, Blood services, Finnish Red Cross, Helsinki

11.45-13.00  Lunch Break

13.00-13.30  Developing microfluidic applications for the EVs (preliminary title)
   Prof. Dr. Jussi Hiltunen, Technical Research Centre of Finland (VTT), Oulu

13.30-14.00  Extracellular vesicles in induction of nephrogenesis
   Early stage researcher/Doctoral candidate, Naveed Ahmad, University of Oulu