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, Kontinkangas 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
12.00-13.00  Lunch Break

13.00-13.10  Sponsor time: Exosome analyzer (CytoFlex), Berner, Beckman Coulter Life Sciences

13.10-13.40  Purification of high-quality extracellular vesicles (preliminary title)
    Dr. Maija Puhka, University of Helsinki

13.40-14.10  NMR characterization of dynamics and size distribution of exosomes
    Prof. Dr. Ville Telkki, University of Oulu

14.10-14.40  Coffee Break

14.40-15.10  Imaging methods for extracellular vesicles
    Docent Dr. Kirsi Rilla, University of Eastern Finland

15.10-15.40  Extracellular vesicles derived from milk and other natural sources (preliminary title)
    Dr. Sirja Viitala, Natural Resources Institute, Finland

15.40-16.10  Extracellular vesicles as intercellular messengers in brain diseases
    Prof. Dr. Tarja Malm, University of Eastern Finland

Day 2, Tuesday 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  Genomics of extracellular vesicles
    Docent Dr. Genevieve Bart, University of Oulu

10.30-11.00  Coffee Break

11.00-11.30  Microbiomic extracellular vesicles and clinical perspective of EVs (preliminary title)
    Docent Dr. Justus Reunanen and Docent Dr. Terhi Tapiainen, University of Oulu

11.30-12.00  Nanoscale vehicles in the highway of blood, extracellular vesicles delivering messages
    Docent Dr. Saara Laitinen, Blood services, Finnish Red Cross, Helsinki

12.00-13.00  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