## Extracellular vesicles – a novel source of disease biomarkers

**Date:** Thursday, 7<sup>th</sup> of December 2017 (8.30-15h)

**Location:** University of Ljubljana, Faculty of Medicine, Institute of Biochemistry, Vrazov trg 2, Ljubljana

## Workshop programme:

workshop pr	opiumme.
8.30 - 8.50	Coffee break
8.50 – 9.00	Opening address:
	Prof. Dr. Ksenija Geršak, Vice Dean of Science and Research (UL, MF)
	<u>Prof. Dr. Ana Plemenitaš</u> , Head of the Institute of Biochemistry (UL, MF, IBK)
Session 1	Extracellular vesicles as novel intercellular communicators in health and disease
9.00 – 9.40	The role of extracellular vesicles in spreading an intercellular stress response
	( <u>Dave Carter, Oxford Brookes University, UK</u> )
9.40 - 10.00	Intracellular localization and release of Nef.GFP from human microglia in culture
	(Matjaž Stenovec, UL, MF, PAFI)
10.00 - 10.20	Mechanism of activation and role of partially oxidized extracellular vesicles in chronic inflammatory
	diseases (Mateja Manček Keber, KI)
10.20 - 10.30	Isolation of fungal extracellular vesicles, the potential host-pathogen messengers
	(Tilen Konte, UL, MF, IBK)
10.30 - 11.10	Coffee break
Session 2	Extracellular vesicle concentration and size profile as potential biomarkers of disease
11.10 - 11.30	Characterization of extracellular vesicles by Nanoparticle Tracking Analysis and Dynamic Light
	Scattering (Tom Dennison, LKB, Malvern)
11.30 - 11.50	Asymmetrical flow field-flow fractionation as a tool for characterization of bioparticles
	(Simona Sitar, KI)
11.50 - 12.20	Concentration of extracellular vesicles by flow cytometry in patients with Charcot neuroarthropathy
	and mastocytoma ( <u>Veronika Kralj Iglič, UL, ZF</u> )
12.20 - 12.40	Atomic Force Microscopy analysis of extracellular vesicles (Pietro Parisse, INSTM-ST Unit, Italy)
12.40 - 13.40	Buffet lunch sponsored by LKB and Malvern
Session 3	Extracellular vesicle microRNAs as potential biomarkers of disease
13.40 – 14.00	Comparison of approaches for isolating extracellular vesicles from plasma
	(Metka Lenassi, UL, MF, IBK)
14.00 - 14.20	Circulating cell-free and exosomal miRNAs as potential biomarkers for leaky HIV reservoirs
	(Jana Ferdin, UL, MF, IBK)
14.20 - 14.40	Next-generation sequencing of extracellular vesicle small RNA in type 1 diabetes
	( <u>Tine Tesovnik, UL, MF, UMC</u> )
14.40 - 15.00	CRISPR/Cas9 delivery by extracellular vesicles for genome editing and therapeutic transcriptional
	regulation ( <u>Duško Lainšček, KI</u> )