

XXVII SCHOOL OF PURE AND APPLIED BIOPHYSICS

Extracellular vesicles: from biophysical to translational challenges

VENICE - Palazzo Franchetti - February 6-10, 2023

Program at a glance

	MONDAY 6	TUESDAY 7	WEDNESDAY 8	THURSDAY 9	FRIDAY 10
	(08:30) REGISTRATION				
09:00	WELCOME (Manno)	BERGESE	MARGOLIS	WAUBEN	VADER
09:30	BUZAS	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:00					
10:30	Coffee Break	BERTI	BUSATTO	CASALIS	BUSSOLATI
11:00	DIASPRO	LUNCH	Sponsor session	LUNCH	Conclusive remarks (BONGIOVANNI)
11:30	LUNCH				
12:00	NIEUWLAND	BASSEREAU	FREE AFTERNOON	KASHKANOVA	
12:30	Coffee Break & Thought exchange supported by Posters	Coffee Break & Thought exchange supported by Posters		Coffee Break & Thought exchange supported by Posters	
13:00	SILVA-BRUN	STRUNK		AROSIO	
13:30	Tales of the day	Tales of the day		Tales of the day	
14:00					
14:30					
15:00					
15:30					
16:00					
16:30					
17:00					
17:30					
18:00					
18:30					
				(20:00) SOCIAL DINNER	

- (i) EVs colloidal and surface properties
- (ii) EVs characterization by biophysical techniques
- (iii) EVs versus other (synthetic and extracellular) nanoparticles
- (vi) EVs manipulation and engineering

Program

Sunday – February 5th

> 14:00 – 20.00 Check-in at the hotel

Monday – February 6th

08:30 – 9.00 REGISTRATION

09:00 – 09.30 OPENING and WELCOME - Mauro Manno (IT)

09:30 – 11:00 **Edit Buzas (HU)** Current trends in Extracellular Vesicles Biology

11:00 – 11.30 **Coffee Break**

11:30 – 13.00 **Alberto Diaspro (IT)** Multimodal optical microscopy at the Nanoscale: from fluorescence to label-free imaging

13:00 – 14.00 LUNCH

14:00 – 15:30 **Rienk Nieuwland (NL)** Rigor and standardization in extracellular vesicle research

15:30 – 16.30 **Coffee break & Thought exchange supported by poster**

16:30 – 18.00 **Amanda Silva-Brun (FR)** EVs from bioproduction to biotherapy, bridging research and innovation

18:00 – 18:30 Tales of the day

Tuesday – February 7th

09:00 – 10:30 **Paolo Bergese (IT)** EV by the numbers

10:30 – 11.00 **Coffee Break**

11:00 – 12.30 **Debora Berti (IT)** EVs as colloids: the chemical physics and the related experimental tool

12:30 – 13.30 LUNCH

13:30 – 15:00 **Patricia Bassereau (FR)** Some general physical principles for vesicle generation from biomembranes and lipid/protein sorting

15:00 – 16.30 **Coffee break & Thought exchange supported by poster**

16:30 – 18.00 **Dirk Strunk (AU)** EV corona reloaded

18:00 – 18:30 Tales of the day

Wednesday – February 8th

09:00 – 10:30 **Leonid Margolis (USA)** Extracellular vesicles and viruses: close relatives or enemies?

10:30 – 11.00 **Coffee Break**

11:00 – 12.30 **Sara Busatto (USA)** Lipoproteins as key components of the tumor-derived extracellular vesicle interactome

12:30 – 12.50 **Sponsor session** Sponsored speech by **Lumicks**

FREE AFTERNOON

Thursday – February 9th

09:00 – 10:20	Marca Wauben (NL)	Flow cytometric analysis of single Extracellular Vesicles: a rocky road towards the analysis of vesicle subsets and heterogeneity
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10:20 – 11.10	Coffee Break & Poster session
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11:10 – 12.30	Loredana Casalis (IT)	Atomic Force Microscopy as a multi-parameter technique for EVs quantitative analysis: from high-resolution structure to EVs biomechanics
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12:30 – 13.30	LUNCH
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14:00 – 15:20	Anna Kashkanova (DE)	Label-free microscopy in EV characterization
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15:20 – 16.40	Coffee break & Thought exchange supported by poster
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16:40 – 18.00	Paolo Arosio (CH)	EVs isolation and detection: new tools by microfluidics and phase separation
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18:00 – 18:30	Tales of the day
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20:00 –	SOCIAL DINNER
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Friday – February 10th

09:00 – 10:20	Pieter Vader (NL)	Extracellular Vesicle-mediated RNA Delivery: from Mechanistic Insights towards Therapeutic Applications
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10:20 – 10.50	Coffee Break
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10:50 – 12.10	Benedetta Bussolati (IT)	Diagnostic and therapeutic applications for tissue repair: From Stem Cell to Biofluid EVs
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12:10 – 12.30	Conclusive remarks -	Antonella Bongiovanni (IT)
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