PhD Program in Nanotechnology University of Trieste

ANNUAL WORKSHOP 21/01/2020 - 23/01/2020 PROGRAMME

Room 3B, 3rd floor Building H3

Participation to the Annual Workshop is mandatory

Tuesday, 21^{rst} January

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9:00-9:30	OPENING	. !:	. (.) 515	
				School in Nanotechnology
	Roberto Di Lenarda			
	Giovanni Comeili –	Director	of the Physics De	epartment of the University of Trieste
CHAIR: PAOI	LA POSOCCO			
09:30-10:30	Cecilia Blasetti			
	Elettra –Sincrotrone	Trieste S	SCpA	
	From the lab to the d		•	find my way
10:30-10:50	Break			
CHAIR: VANI	MILLICHI			
CHAIR: VAINI	PhD student	Cycle	Supervisor	Title
10:50-11:10	Marco Beltrami	34	O. Sbaizero	Nanostructuring multilayer ceramic coatings for wood cutting
10.50-11.10	Marco Deltrami	34	O. Sbaizero	tools
11:10-11:30	Erik Betz-Güttner	34	M. Lazzarino	Terahertz sensing with golay cells microarray device
11:30-11:50	Davide Busatto	34	G. Toffoli	A novel approach for the treatment of pancreatic ductal
				adenocarcinoma adopting anti-Glypican 1 polymeric
				nanoparticles loaded with chemotherapeutic agents
11:50-12:10	Martina Conti	34	M. Lazzarino	Nanomechanics structures for the detection and study of cells
12:10-12:30	Mario Daka	34	L. Pasquato	Synthesis, nanocharacterization and applications of
				nanoparticles and nanomaterials with controlled properties
12:30-12:50	Federica Di Cintio	34	G. Toffoli	Nanoparticles anti-GPC1 loaded with chemotherapy drug in
-				glioblastoma multiforme (GBM) treatment
12:50-15:00	Lunch			
CHAIR: LORE	EDANA CASALIS			
	PhD student	Cycle	Supervisor	Title
15:00-15:20	Simone Di Noja	34	M. Prato	Synthesis, properties and applications of nanocarbonaceous
				systems
15:20-15:40	Alessandro	34	V. Sergo	Design, nanofabrication and characterization of
	Esposito			nanostructured metal surfaces as substrates for SERS for
				bioanalytic analyses and study of their behavior at the nano-
				biointerface
15:40-16:00	Marcello Ferrara	34	P. Fornasiero	Smart nanostructured electrocatalysts for carbon dioxide reduction
16:00-16:20	Arianna Gazzi	34	M. Prato	Immunocompatibility and biomedical applications of new
		J . 1		nanocarbons
16:20-16:40	Break			

CHAIR: ALOI	S BONIFACIO			
	PhD Student	Cycle	Supervisor	Title
16:40-17:00	Ahmed Alsadig Ahmed Mohammed	34	L. Casalis	Targeted peptide-functionalized PEG coated gold nanoparticles and their influence on cell mechanical properties: application to cancer treatment
17:00-17:20	Monica Mossenta	34	G. Toffoli	Development of a drug delivery therapy strategy through polymeric nanoparticles with an anti-GPC3 antibody coating and chemotherapic loading to treat hepatocellular carcinoma
17:20-17:40	Cristian Soncini	34	M. Pedio	Advanced characterization of molecular thin films grown onto 2D systems
17:40-18:00	Chiara Stocco	34	Z. M. Arnez	Nanofiber polymeric scaffold for slow and steady release of VEGF and ECs to induce efficient angiogenesis and healing in a mouse model of hind limb ischemia

Wednesday, 22nd January

og:30-9:50 Francesco Amato 33 M. Prato Synthesis, characterization and applications of cananodots og:50-10:10 Alice Battistella 33 M. Development of a micro-fluidic oocyte sorter based Lazzarino oocyte mechanical properties, for the improvement in vitro fertilization process 10:10-10:30 Matteo Cibinel 33 V. Lughi Natural based thermal insulator nanocomposite 10:30-10.50 Fernandes Do Rego 33 D. Cojoc Investigating label-free markers at nanoscale for cells using 10:50-11:10 Sara Fiori 33 C. Africh N-doped graphene on Ni(111): Growth and reactiv 11:10-11:30 Break CHAIR: MARCO LAZZARINO PhD student Cycle Supervisor Title 11:30-11.50 Lorenzo Marsili 33 G. Toffoli Thermoresponsive chitosan and poly-n-vinylcapromicrogels for drug embedded chemoembolization 11:50-12:10 Mauro Prisca 33 P. Macor Preclinical development of targeted nanoparticles innovative therapeutic and diagnostic tool for turn angiogenesis-dependent diseases 12:10-12:30 Timur 33 S. Rubini Growth of ordered nanowire arrays containing manangenesis-dependent diseases 12:30-12.50 Beatrice Senigaliesi 33 P. Parisse Biophysical and biomolecular analysis of EVs and interaction with target cells 12:50-15:00 Lunch CHAIR: CRISTINA AFRICH 15:00-16:00 Dragan Mihailović Institut Jožef Stefan and University of Ljubljana New emergent nanomaterials along the time axis 16:00-16:20 Break CHAIR: DAN COJOC PhD student Cycle Supervisor Title 16:20-16:40 Domenico Tierno 33 S. Bonin Comprehensive characterization and effective		PhD student	Cycle	Supervisor	Title
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interaction with target cells 12:50-15:00 Lunch CHAIR: CRISTINA AFRICH 15:00-16:00 Dragan Mihailović Institut Jožef Stefan and University of Ljubljana New emergent nanomaterials along the time axis 16:00-16:20 Break CHAIR: DAN COJOC PhD student Cycle Supervisor Title 16:20-16:40 Domenico Tierno 33 S. Bonin Comprehensive characterization and effective	12:10-12:30		33	S. Rubini	Growth of ordered nanowire arrays containing magnetic inserts
CHAIR: CRISTINA AFRICH 15:00-16:00 Dragan Mihailović	12:30-12.50	Beatrice Senigaliesi	33	P. Parisse	Biophysical and biomolecular analysis of EVs and their interaction with target cells
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16:20-16:40 Domenico Tierno 33 S. Bonin <i>Comprehensive characterization and effective</i>			Cycle	Supervisor	Title
combinatorial targeting of high-arade serous ovar	16:20-16:40		•	•	

Hybrid nanoparticles for theranostics: design, synthesis and characterization

Thursday, 23rd January

CHAIR: TATI	ANA DA ROS						
	PhD student	Cycle	Supervisor	Title			
09:50-10:10	Eros Azzalini	32	S. Bonin	Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis			
10:10-10:30	Roberto Costantini	32	A. Cossaro	Probing singlet fission with chemical selectivity			
10:30-10:50	Maria Cristina Cringoli	32	S. Marchesan	A spike of sulphur in self-assembling tripeptides			
10:50-11:10	Alessandro D'Elia	32	M. Coreno	Photoexcitation of nanostructured materials and precursors			
11:10-11:30	Break						
CHAIR: SILVI	A RUBINI						
	PhD student	Cycle	Supervisor	Title			
11:30-11:50	Franco Furlani	32	S. Paoletti	Molecular properties of chitosan and its derivatives and their potential for biomedical applications			
11:50-12:10	Ilaria Zanoni	32	A. Costa	Design and characterization of nanomaterials for monitoring their biological reactivity			
12:10-12:30	Federico Berton	31	R. Di Lenarda	Bioresorbable engineered membranes for guided bone regeneration with antimicrobial properties			
12:30-14:30	Lunch						
CHAIR: LUCI	A PASQUATO						
		Horst-Günter Rubahn University of Southern Denmark, PCAM chairman NanoSYD: from new technologies to innovation					
14:30-15:30	University of Sout	hern Denn		nan			
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14:30-15:30 15:30-15:50	University of Sout NanoSYD: from no	hern Denn		nan			
14:30-15:30 15:30-15:50	University of Sout NanoSYD: from no Break	hern Denn		Title			
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14:30-15:30 15:30-15:50 CHAIR: ALBE	University of South NanoSYD: from not Break ERTO MORGANTE PhD student Tereza	chern Denn ew technolo Cycle	Supervisor	Title Avalanche photodiodes for X-ray detectors based on			
14:30-15:30 15:30-15:50 CHAIR: ALBE 15:50-16:10	University of Sout NanoSYD: from no Break ERTO MORGANTE PhD student Tereza Steinhartova Margherita	chern Denn www.technolo Cycle 31	Supervisor G. Biasiol	Title Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors Application of nanotechnology to the diagnosis and			
14:30-15:30 15:30-15:50 CHAIR: ALBE 15:50-16:10 16:10-16:30	University of Sout NanoSYD: from no Break ERTO MORGANTE PhD student Tereza Steinhartova Margherita Tofanelli	Cycle 31 31 MMASINI" DE VITA" A	Supervisor G. Biasiol G. Tirelli	Title Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors Application of nanotechnology to the diagnosis and			
14:30-15:30 15:30-15:50 CHAIR: ALBE 15:50-16:10 16:10-16:30 16:30-16:50	University of Sout NanoSYD: from no Break ERTO MORGANTE PhD student Tereza Steinhartova Margherita Tofanelli Break "FERNANDO TO "ALESSANDRO IO "BEST CAREER" CLOSING REMAI	Cycle 31 31 MMASINI' DE VITA'' A AWARD	Supervisor G. Biasiol G. Tirelli ZAWARD	Title Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors Application of nanotechnology to the diagnosis and treatment of the oral and oropharyngeal cancer			
14:30-15:30 15:30-15:50 CHAIR: ALBE 15:50-16:10 16:10-16:30 16:30-16:50 16:50-17:10	University of Sout NanoSYD: from no Break ERTO MORGANTE PhD student Tereza Steinhartova Margherita Tofanelli Break "FERNANDO TO "ALESSANDRO I"BEST CAREER" CLOSING REMAI Alberto Morgant	Cycle 31 31 MMASINI' DE VITA" A AWARD RKS e – Coordin	Supervisor G. Biasiol G. Tirelli AWARD WARD	Title Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors Application of nanotechnology to the diagnosis and			