

ANNUAL WORKSHOP

21/01/2020 - 23/01/2020

PROGRAMME

Room 3B, 3rd floor Building H3
Participation to the Annual Workshop is mandatory

Tuesday, 21st January

9:00-9:30 **OPENING**
Alberto Morgante – Coordinator of the PhD School in Nanotechnology
Roberto Di Lenarda – Rector of the University of Trieste
Giovanni Comelli – Director of the Physics Department of the University of Trieste

CHAIR: PAOLA POSOCCO

09:30-10:30 **Cecilia Blasetti**
Elettra –Sincrotrone Trieste SCpA
From the lab to the office: how PhD helped me find my way

10:30-10:50 **Break**

CHAIR: VANNI LUGHI

	PhD student	Cycle	Supervisor	Title
10:50-11:10	Marco Beltrami	34	O. Sbaizero	<i>Nanostructuring multilayer ceramic coatings for wood cutting tools</i>
11:10-11:30	Erik Betz-Güttner	34	M. Lazzarino	<i>Terahertz sensing with golay cells microarray device</i>
11:30-11:50	Davide Busatto	34	G. Toffoli	<i>A novel approach for the treatment of pancreatic ductal adenocarcinoma adopting anti-Glypican 1 polymeric nanoparticles loaded with chemotherapeutic agents</i>
11:50-12:10	Martina Conti	34	M. Lazzarino	<i>Nanomechanics structures for the detection and study of cells</i>
12:10-12:30	Mario Daka	34	L. Pasquato	<i>Synthesis, nanocharacterization and applications of nanoparticles and nanomaterials with controlled properties</i>
12:30-12:50	Federica Di Cintio	34	G. Toffoli	<i>Nanoparticles anti-GPC1 loaded with chemotherapy drug in glioblastoma multiforme (GBM) treatment</i>

12:50-15:00 **Lunch**

CHAIR: LOREDANA CASALIS

	PhD student	Cycle	Supervisor	Title
15:00-15:20	Simone Di Noja	34	M. Prato	<i>Synthesis, properties and applications of nanocarbonaceous systems</i>
15:20-15:40	Alessandro Esposito	34	V. Sergo	<i>Design, nanofabrication and characterization of nanostructured metal surfaces as substrates for SERS for bioanalytic analyses and study of their behavior at the nano-biointerface</i>
15:40-16:00	Marcello Ferrara	34	P. Fornasiero	<i>Smart nanostructured electrocatalysts for carbon dioxide reduction</i>
16:00-16:20	Arianna Gazzi	34	M. Prato	<i>Immunocompatibility and biomedical applications of new nanocarbons</i>

16:20-16:40 **Break**

CHAIR: ALOIS BONIFACIO

	PhD Student	Cycle	Supervisor	Title
16:40-17:00	Ahmed Alsadig Ahmed Mohammed	34	L. Casalis	<i>Targeted peptide-functionalized PEG coated gold nanoparticles and their influence on cell mechanical properties: application to cancer treatment</i>
17:00-17:20	Monica Mossenta	34	G. Toffoli	<i>Development of a drug delivery therapy strategy through polymeric nanoparticles with an anti-GPC3 antibody coating and chemotherapeutic loading to treat hepatocellular carcinoma</i>
17:20-17:40	Cristian Soncini	34	M. Pedio	<i>Advanced characterization of molecular thin films grown onto 2D systems</i>
17:40-18:00	Chiara Stocco	34	Z. M. Arnez	<i>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</i>

Wednesday, 22nd January

CHAIR: PAOLO MACOR

	PhD student	Cycle	Supervisor	Title
09:30-9:50	Francesco Amato	33	M. Prato	<i>Synthesis, characterization and applications of carbon nanodots</i>
09:50-10:10	Alice Battistella	33	M. Lazzarino	<i>Development of a micro-fluidic oocyte sorter based on oocyte mechanical properties, for the improvement of the in vitro fertilization process</i>
10:10-10:30	Matteo Cibinel	33	V. Lughi	<i>Natural based thermal insulator nanocomposite</i>
10:30-10:50	Lima Maria Augusta Do Rego Barros Fernandes	33	D. Cojoc	<i>Investigating label-free markers at nanoscale for cancer cells using</i>
10:50-11:10	Sara Fiori	33	C. Africh	<i>N-doped graphene on Ni(111): Growth and reactivity</i>
11:10-11:30	Break			

CHAIR: MARCO LAZZARINO

	PhD student	Cycle	Supervisor	Title
11:30-11.50	Lorenzo Marsili	33	G. Toffoli	<i>Thermoresponsive chitosan and poly-n-vinylcaprolactam microgels for drug embedded chemoembolization</i>
11:50-12:10	Prisca Mauro	33	P. Macor	<i>Preclinical development of targeted nanoparticles as innovative therapeutic and diagnostic tool for tumor and angiogenesis-dependent diseases</i>
12:10-12:30	Timur Nurmamytov	33	S. Rubini	<i>Growth of ordered nanowire arrays containing magnetic inserts</i>
12:30-12.50	Beatrice Senigaliesi	33	P. Parisse	<i>Biophysical and biomolecular analysis of EVs and their interaction with target cells</i>
12:50-15:00	Lunch			

CHAIR: CRISTINA AFRICH

15:00-16:00	Dragan Mihailović Institut Jožef Stefan and University of Ljubljana <i>New emergent nanomaterials along the time axis</i>			
16:00-16:20	Break			

CHAIR: DAN COJOC

PhD student	Cycle	Supervisor	Title
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16:20-16:40	Domenico Tierno	33	S. Bonin	<i>Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis</i>
16:40-17:00	Stefano Valente	33	L. Pasquato	<i>Hybrid nanoparticles for theranostics: design, synthesis and characterization</i>

Thursday, 23rd January

CHAIR: TATIANA DA ROS

	PhD student	Cycle	Supervisor	Title
09:50-10:10	Eros Azzalini	32	S. Bonin	<i>Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis</i>
10:10-10:30	Roberto Costantini	32	A. Cossaro	<i>Probing singlet fission with chemical selectivity</i>
10:30-10:50	Maria Cristina Cringoli	32	S. Marchesan	<i>A spike of sulphur in self-assembling tripeptides</i>
10:50-11:10	Alessandro D'Elia	32	M. Coreno	<i>Photoexcitation of nanostructured materials and precursors</i>
11:10-11:30	Break			

CHAIR: SILVIA RUBINI

	PhD student	Cycle	Supervisor	Title
11:30-11:50	Franco Furlani	32	S. Paoletti	<i>Molecular properties of chitosan and its derivatives and their potential for biomedical applications</i>
11:50-12:10	Ilaria Zanoni	32	A. Costa	<i>Design and characterization of nanomaterials for monitoring their biological reactivity</i>
12:10-12:30	Federico Berton	31	R. Di Lenarda	<i>Bioresorbable engineered membranes for guided bone regeneration with antimicrobial properties</i>
12:30-14:30	Lunch			

CHAIR: LUCIA PASQUATO

14:30-15:30 **Horst-Günter Rubahn**
University of Southern Denmark, PCAM chairman
NanoSYD: from new technologies to innovation

15:30-15:50 **Break**

CHAIR: ALBERTO MORGANTE

	PhD student	Cycle	Supervisor	Title
15:50-16:10	Tereza Steinhartova	31	G. Biasiol	<i>Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors</i>
16:10-16:30	Margherita Tofanelli	31	G. Tirelli	<i>Application of nanotechnology to the diagnosis and treatment of the oral and oropharyngeal cancer</i>

16:30-16:50 **Break**

16:50-17:10 "FERNANDO TOMMASINI" AWARD
"ALESSANDRO DE VITA" AWARD
"BEST CAREER" AWARD

17:10-17:20 **CLOSING REMARKS**

Alberto Morgante – Coordinator of the PhD School in Nanotechnology
Alessandro Baraldi – Delegate for Research and PhD of the University of Trieste