

VII PhD Forum Molecular Sciences

18 June 2019 | Aula I, Department of Chemistry

08:30 – 08:35	Welcome	LEONARD PRINS
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Session 1. Chair: Giulia Marafon

08:35 - 09:15	Prof. GIOVANNI BOTTEGONI School of Pharmacy University of Birmingham (UK)	IN SILICO POLYPHARMACOLOGY
09:15 - 09:35	LUCA MENILLI	PBL (PSORALENS + BLUE LIGHT): HOW BLUE LIGHT ACTIVATES FUROCOUMARIN DERIVATIVES TRIGGERING TUMOR CELL APOPTOSIS
09:35 – 09:55	NICOLA DENGGO	WATER-BASED SUSTAINABLE APPROACHES TO METAL SULFIDE NANOPARTICLES: SYNTHESIS, PROPERTIES, AND APPLICATIONS
09:55 – 10:15	ENRICO MARGIOTTA	MOLECULAR MODELLING OF ADENOSINE RECEPTORS LIGANDS AND HALOGEN BONDS

10:15 – 10:45	COFFEE BREAK & POSTER SESSION (AULA STUDIO)	
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10:45 – 10:55	CDSM PhD-Award 2019 Ceremony	
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Session 2. Chair: Nicola Dengo

10:55 – 11:15	FEDERICO DE BIASI	NANOPARTICLE-ASSISTED NMR CHEMOSENSING: TOWARD MICROMOLAR DETECTION OF ANALYTES
11:15 – 11:35	DANIELE ROSA-GASTALDO	PSYCHOACTIVE DRUGS DETECTION: FROM NANOPARTICLE-ASSISTED NMR CHEMOSENSING TO COLORIMETRIC SUPRAMOLECULAR SENSORS
11:35 – 11:55	Joanna CZĘŚCIK	PHOSPHODIESTER CLEAVAGE BY FUNCTIONALIZED GOLD NANOPARTICLES
11:55 – 12:15	ENRICO ZANFORLIN	A SPONTANEOUSLY BLINKING PROBE FOR THE DETECTION OF PHOSPHATASE ACTIVITY IN LIVE CELLS AND CELLULAR LYSATES
12:15 – 12:35	DAVIDE CARRARO	VANADIUM-CATALYZED AEROBIC C-C BOND OXIDATIVE CLEAVAGE: FROM SIMPLE MODELS TO LIGNIN DEPOLYMERIZATION
12:35 – 12:55	WILLIAM LAURENT DENIS	UNRAVELING THE VANADIUM-CATALYZED C-C CLEAVAGE OF VICINAL DIOLS AND ITS EXTENSION TO GREEN AQUEOUS ALTERNATIVES

12:55 - 13:45	LUNCH & POSTER SESSION (AULA STUDIO)	
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Session 3. Chair: Elisa Vettorato

13:45 – 14:25	Prof. NICOLAS GIUSEPPONE Université de Strasbourg Institut Charles Sadron - CNRS	TRIARYLAMINE BASED SUPRAMOLECULAR POLYMERS: STRUCTURES, DYNAMICS, AND FUNCTIONS
14:25 – 14:45	GIULIA MARAFON	TURNING ON SUPRAMOLECULAR INFORMATION IN INTRINSICALLY PHOTO-RESPONSIBLE FOLDAMERS
14:45 – 15:05	LUCA BELLUCCI	LUMINESCENT SILICA OBTAINED VIA SMART GRAFTING OF LANTHANIDES N,N-DIALKYL CARBAMATO COMPLEXES
15:05 – 15:25	WENWEN FEI	METAL DOPING OF AU ₂₅ (SR) ₁₈ : INSIGHTS AND HINDSIGHTS

15:25 – 15:55 COFFEE BREAK & POSTER SESSION (AULA STUDIO)

Session 4. Chair: Daniele Rosa-Gastaldo

15:55 – 16:15	LUCIA MORILLAS BECERRIL	SYNTHESIS OF MULTIFUNCTIONAL TARGETED ORMOSIL NANOPARTICLES FOR DRUG DELIVERY TO CANCER STEM CELLS
16:15 – 16:35	ELISA VETTORATO	TRANSDERMAL DELIVERY OF NATURAL BIOACTIVE MOLECULES WITH ETHOSOMES
16:35 – 16:55	CAMILLA CRISTOFARI	DNA AND RNA SECONDARY STRUCTURES: OVERLAPPING OR DIVERGENT ANTICANCER TARGET
16:55 – 17:15	SHAH MASOOD AHMAD	FILLING THE STRUCTURE-REACTIVITY GAP: IN SILICO MULTISCALE APPROACHES TO RATIONALIZE THE DESIGN OF MOLECULAR CATALYSTS (STREGA))
17:15 – 17:35	YANCHAO LYU	INTERACTION OF AUNPs WITH AMINES FROM SIMPLE MOLECULES TO PEPTIDES

17:35 – 17:40 CLOSURE CLAUDIA SISSI

POSTER SESSION (AULA STUDIO)

ILARIA ARTUSI	AN EXTRACELLULAR SERINE PROTEASE FROM STAPHYLOCOCCUS AUREUS PROTEOLITICALLY ACTIVATES PROTHROMBIN AND TRIGGERS BLOOD COAGULATION: IMPLICATIONS IN SEPTIC THROMBOSIS
LUCA BABETTO	A MODULAR MOLECULAR MODEL FOR LN(III) TEMPERATURE-SENSING COMPLEXES
JONATHAN CAMPEGGIO	A MULTISCALE APPROACH TO CHEMICAL REACTION RATES
ALICE CARLOTTO	MESOCATES VS HELICATES IN QUADRUPLE-STRANDED LUMINESCENT LN ³⁺ CAPSULES
CATERINA CARRARO	REVISITING CLASSICS: SYNTHESIS, ALKYLATING PROPERTIES AND CELLULAR ACTIVITY OF A NEW SET OF BIFUNCTIONAL 3-CHLOROPIPERIDINES AS POTENTIAL ANTICANCER AGENTS
ALBERTO CATTAZZO	STUDY OF POLYMERS DERIVED FROM RENEWABLE RESOURCES FOR LEATHER FINISHING
SUSHMITHA CHANDRABHAS	NUCLEOTIDE SPECIFIC FORMATION OF VESICULAR NANOREACTORS UNDER DISSIPATIVE CONDITIONS
RUI CHEN	LIGHT-CONTROLLED WRITING/ERASING OF IMAGES USING MULTIVALENT NANOSYSTEMS
MARCO DALLA TIEZZA	THE OXIDATIVE STEP IN THE CATALYTIC MECHANISM OF GLUTATHIONE PEROXIDASES: INSIGHTS FROM QUANTUM CHEMISTRY
ANDREA DE NADAI	SYNTHESIS AND CHARACTERIZATION OF NEW FLUORESCENT RED EMISSIVE PROBES FOR THE RATIO-METRIC DETERMINATION OF CALCIUM IN LIVING CELLS
FRANCESCA FERRARI	OPTIMIZATION OF A NMR AND IN-SILICO FRAGMENT BASED DRUG DISCOVERY APPROACH FOR THE BCL-2 PROTEIN FAMILY
CLAUDIA HONISCH	EVALUATION OF SMALL MOLECULES INTERACTION WITH WATER SOLUBLE LENS PROTEINS
MARIAFRANCESCA HYERACI	STUDY INTO MOLECULAR TARGETS OF NEW METAL COMPLEXES
ANDREA LONGHI	<i>COMPLEXES OF HOMO- AND HETERODITOPIC NHC LIGANDS: EQUILIBRIA IN SOLUTION AND LUMINESCENCE STUDIES</i>
JAVIER MATEOS LOPEZ	NAPHTHOCROMENONES - A NEW CLASS OF CROSS-BORDER LIGHT ABSORBING PHOTOREDOX CATALYSTS

YANCHAO LYU	INTERACTION OF AuNPs WITH AMINES FROM SIMPLE MOLECULES TO PEPTIDES
PIERPAOLO PRAVATTO	TUNNELING SPLITTING AND KRAMERS RATE OF ACTIVATED PROCESSES
ANDREA ROSSA	DESIGN AND SYNTHESIS OF NEW PAPTP DERIVATIVES FUNCTIONALIZED WITH PEPTIDES TO OVERCOME THE BLOOD-BRAIN BARRIER
FEDERICO SPOLAORE	STRUCTURAL AND MORPHOLOGICAL INVESTIGATION OF DIFFERENTLY SIZED AND SHAPED COLLOIDAL PT AND PD NANOPARTICLES
TOMMASO TEDESCHINI	STUDY AND DEVELOPMENT OF NEW PEG-BASED ANTIBODY-DRUG CONJUGATES FOR ANTICANCER THERAPY
MARIANNA TOSATO	<i>POLYAZA-MACROCYCLES WITH HANGING SULFIDE SIDE-ARMS AS NOVEL POTENTIAL BIFUNCTIONAL CHELATORS FOR 111AG</i>
CHRISTIAN VACCARIN	DEVELOPMENT OF NOVEL HDAC-TKI INHIBITORS FOR CANCER TREATMENT
MIRKO VANZAN	A MULTISCALE COMPUTATIONAL APPROACH TO INVESTIGATE SMALL GOLD NANOCCLUSERS OPTICAL FEATURES IN SOLUTION
ALESSANDRO ZUGNO	SYNTHESIS OF COIL-COLIDED DOMAIN OF SYNPHILIN-1 BY PEPTIDE HYDRAZIDES NATIVE CHEMICAL LIGATION