

SUMMER SCHOOL PROGRAM

Life Is Chiral: biological and chemical fundamentals and novel approaches In Chiral recognition “Licorice”

Sunday June 26, 2022

18:30	20:00	Student Registration and welcome cocktail	
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Monday June 27, 2022

8.00	8.30	Student Registration	
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8.30		Institutional Greetings	
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Chirality and Nanotechnologies

9:00	10:30	<i>Multiscale Chirality and Complexity of Inorganic Nanostructures</i>	Prof. Nicholas Alexander Kotov Department of Chemical Engineering, University of Michigan, Ann Arbor, MI 48109, USA.
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10:30	11:00	Coffee Break
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11:00	12:30	<i>Gold Nanoparticles and Nanostructures with Plasmonic Chirality</i>	Prof. Luis Liz-Marzán CIC biomaGUNE, Basque Research and Technology Alliance (BRTA), Donostia- San Sebastian 20014, Spain.
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12:30	13:30	Lunch
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1. Synthesis and characterization of chiral substances

13:30	15:00	<i>Intrinsically chiral carbon nanodots: synthesis, properties and applications</i>	Prof. Maurizio Prato Department of Chemical and Pharmaceutical Sciences, INSTM UdR Trieste, University of Trieste, Trieste, Italy.
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15:00	16:30	<i>Extracting Pure Circular Dichroism from Hierarchically Structured Magic Cluster Films</i>	Prof. Richard D. Robinson Department of Material Science and Engineering, Cornell University, Ithaca, New York, USA.
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Tuesday June 28, 2022

2. Synthesis and characterization of chiral substances

09:00	10:30	<i>Molecular Engineering of Porphyrinoids as Receptors, Catalysts, and Sensors</i>	Prof. Mathias O. Senge School of Chemistry, Chair of Organic Chemistry Trinity Biomedical Sciences Institute Trinity College Dublin, The University of Dublin 152–160 Pearse Street, D02 R590 Dublin2 (Ireland).
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10:30	11:00	Coffee Break
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11:00	12:30	<i>Supramolecular chirogenesis in porphyrin chemistry and chirality sensing: recent</i>	Prof. Victor V. Borovkov Department of Chemistry and Biotechnology, Tallinn University of
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		<i>developments and further prospects</i>	Technology (TalTech), 12618 Tallinn, Estonia.
12:30	13:30	Lunch	
1. Characterization approaches of chiral compounds			
13:30	15:00	<i>How HORIBA supports Chirality Analysis: Dedicated Systems and Applications</i>	Dr. Patrizio Barbini Horiba
15:30	16:30	<i>Symmetric and chiral macrocycles - hemicucurbiturils</i>	Prof. Riina Aav Department of Chemistry and Biotechnology, Tallinn University of Technology, Akadeemia tee 15, 12618 Tallinn, Estonia.
Wednesday June 29, 2022			
2. Characterization approaches of chiral compounds			
09:00	10:30	<i>From molecular to mesoscopic chirality for achieving large discrimination of circularly polarized light</i>	Prof. Lorenzo Di Bari Department of Chemistry and Industrial Chemistry Via Moruzzi 13, 56124 Pisa (Italy).
10:30	11:00	Coffee Break	
11:00	12:30	<i>Nanometric chiral platform for the induction of chiral properties to functional nanoparticles/molecules</i>	Prof. Reiko Oda Univ. Bordeaux, CNRS, Bordeaux INP, CBMN, UMR 5248, Pessac, France.
12:30	13:30	Lunch	
3. Characterization approaches of chiral compounds			
13:30	15:00	<i>JASCO Solutions for Chirality: Instruments and Applications</i>	Dr. Simone Ghidinelli Jasco Europe s.r.l.
15:00	15:15	Coffee Break	
15:15	16:45	<i>New multiple nuclei and ultra-high resolution Spinsolve benchtop NMRs for 1- and 2D NMR assisted structure verifications</i>	Dr Sanel Suljić and Dr Luca Bottalico Magritek GmbH, FKV Srl
20:00		Social Dinner	
Thursday June 30, 2022			
Chemical sensors			
09:00	10:30	<i>From Sensitive Materials to Chemical Sensors and Beyond</i>	Prof. Corrado Di Natale Department of Electronics Engineering, University of Rome "Tor Vergata", 00133 Rome, Italy.
10:30	10:45	Coffee Break	
10:45	12:15	<i>Porphyrins Through the Looking Glass: the Long Track for the Development of Chiral Layers</i>	Prof. Roberto Paolesse Department of Chemical Science and Technologies, University of Rome "Tor Vergata", 00133 Rome, Italy.
12:30	13:30	Lunch	