

Scientific program

Monday July 22, 2024	
08:30	Registration
09:00	Opening Ceremony Professor Artur M. S. Silva, President of ISHC, Vice-Rector of the Aveiro University Professor Armando J. D. Silvestre, Director of the Chemistry Department, University of Aveiro Professor Artur J. M. Valente, Director of the Chemistry Department, University of Coimbra Professor Teresa Pinho e Melo, President of ISHC Professor Joaquim Faria, President of SPQ
Chairperson	Chris Vanderwal & Artur Silva
09:15	PL1 <i>Catalysis via gold(I) carbenes</i> ; Antonio M. Echavarren
10:00	IL1 <i>A journey in gold catalysis towards diversity: from heterocycles to fragrances</i> ; Véronique Michelet
10:30	IL2 <i>Strategies towards the synthesis of polysubstituted oxacycles</i> ; Asunción Barbero
11:00	Coffee Break
Parallel Session 1 - Renato Araújo Auditorium (A)	
Chairperson	Fernanda Proença
11:30	OP1 <i>Easy access to functionalized sparteine derivatives via electrochemical cyanation in batch and in flow of quinolizidine alkaloids</i> ; Raquel M. Durão
11:45	OP2 <i>Enabling the synthesis of 3-aminopyridines via stepwise Kröhnke reaction</i> ; Telmo N. Francisco
12:00	OP3 <i>Reactivity studies of 3-bromochromone derivatives in conjugate addition reactions</i> ; Joana L. C. Sousa
12:15	OP4 <i>New reactions of sulfur-containing aryl benzyl ethers</i> ; R. A. Aitken
12:30	Lunch Break
Parallel Session 2 - Academic Act Room (B)	
Chairperson	Isabel Soares
11:30	OP5 <i>Development of tryptophan-derived fluorescent probes</i> ; Maria M. M. Santos
11:45	OP6 <i>Photodynamic therapy efficacy: Thioglycerol-modified photosensitizers target UM-UC-3 bladder cancer cells</i> ; Leandro M. O. Lourenço



12:00	OP7 <i>Synthesis of C-glycosylquinolones and evaluation of their anticancer activity</i> ; Pedro M. O. Gomes
12:15	OP8 <i>Probing benzimidazole-pyrazole chemical tools to target necroptosis</i> ; Flavia Iovane
12:30	Lunch Break
Chairperson	Victor Freitas
14:30	PL2 <i>On discovery and sensitivity in (photo)catalysis</i> ; Frank Glorius
15:15	IL3 <i>Tailoring molecular structures for dye-sensitized solar cells</i> ; Paula C. S. Branco
15:45	Coffee Break
Parallel Session 3 - Renato Araújo Auditorium (A)	
Chairperson	Nuno Candeias
16:15	OP9 <i>Targeting protein aggregation with hybrid quinoline-steroid compounds</i> ; Hélio M. T. Albuquerque
16:30	OP10 <i>Synthesis and photosensitizer activity of Ir(III) and Ru(III) complexes bearing β-modified porphyrin ligands</i> ; Nuno M. M. Moura
16:45	OP11 <i>The base-induced isomerization of the 2-amino-3-cyano chromene scaffold in dimethylsulfoxide</i> ; Fernanda Proença
17:00	Poster Session 1 – P1 to P34
18:30	End of the Day
Parallel Session 4 - Academic Act Room (B)	
Chairperson	Emília Sousa
16:15	OP12 <i>Total synthesis of (-)-agelastatin A from pyridine: Improving scalability</i> ; João R. Vale
16:30	OP13 <i>Pyrrrole as a scaffold for synthesis: Approaches to stemona alkaloids</i> ; Jason A Smith
16:45	OP14 <i>Divergent total syntheses of discorhabdins and aleutianamine</i> ; Hidetoshi Tokuyama
17:00	Poster Session 1 – P1 to P34
18:30	End of the Day

Tuesday July 23, 2024

Chairperson Alan Aitken & Teresa Pinho e Melo

09:00 **PL3** *Synthesis of native bacteriochlorophylls and analogues*; Jonathan S. Lindsey

09:45 **AL1 (ISHC Industrial Award)** *The LARGEST small molecule: Discovery and development of the PCSK9 inhibitor MK-0616*; Jeffrey T. Kuethe

10:30 **IL4** *Biomimetic spirocyclizations for the synthesis of indole alkaloids*; Romano Orrù

11:00 **Coffee Break**

Parallel Session 5 - Renato Araújo Auditorium (A)

Chairperson Maria Santos

11:30 **OP15** *Spirocyclic oxetanes via Paternò-Büchi reaction of cyclic ketones with maleic anhydride derivatives*; Susannah Coote

11:45 **OP16** *Development of a safe and efficient diazo-transfer reagent, IPrAP for phenols and aryl methyl ketones*; Mitsuru Kitamura

12:00 **OP17** *Synthesis and functionalization of indoles with α -carbonyl sulfoxonium ylides: Expanding the synthetic toolbox*; Antonio Carlos Bender Burtoloso

12:15 **OP18** *Synthesis of BODIPY dyes using flow chemical processes*; Alexandre P. Felgueiras

12:30 **Lunch Break**

Parallel Session 6 - Academic Act Room (B)

Chairperson Mário Simões

11:30 **OP19** *Cycloaddition and annulation reactions of steroidal heterodienes*; Susana M. M. Lopes

11:45 **OP20** *3-Nitro-2H-chromenes: useful synthons for the preparation of potential antimicrobials targeting multi-drug resistant bacteria*; Patrícia I. C. Godinho

12:00 **OP21** *Functionalized imidazolones as luminescent probes for biological imaging*; Olga Lopes

12:15 **OP22** *An efficient Lewis acid catalysed synthesis of benzimidazole, benzothiazole and benzothiazoline derivatives as building blocks for fluorescent image-guided surgery*; Vishnuprasad Ponnarassery Aravindakshan

12:30 **Lunch Break**



Chairperson	Adrian Dobbs & Pedro Góis
14:30	PL4 <i>Cycloisomerizations and cycloadditions in alkaloid total synthesis</i> ; Edward Anderson
15:15	IL5 <i>Ring expansion approaches for the synthesis of functionalised macrocycles</i> ; William P. Unsworth
15:45	Coffee Break
Parallel Session 7 - Renato Araújo Auditorium (A)	
Chairperson	Vera Silva
16:15	OP23 <i>Unveiling the potential of chromeno[3,4-b]xanthenes as a disruptive scaffold for Alzheimer's disease</i> ; Daniela Malafaia
16:30	OP24 <i>Boosting the photosensitizer efficiency of meso-tetraarylporphyrins towards bacterial strains by conjugation with triphenylphosphonium salts</i> ; Filipe M. P. Morais
16:45	OP25 <i>Synthesis of 1H-pyrrolo[3,2-g]isoquinolines as Haspin inhibitors</i> ; Pascale Moreau
17:00	Poster Session 2 – P35 to P68
18:30	End of the Day
Parallel Session 8 - Academic Act Room (B)	
Chairperson	Augusto Tomé
16:15	OP26 <i>Luminescence of pyridines bearing an intramolecular hydrogen bond</i> ; Samuel Guieu
16:30	OP27 <i>Excited state intra-molecular proton transfer (ESIPT) studies of 2-(benzo[d]thiazol-2-yl)naphthalen-1-ol system: Experimental and theoretical approach</i> ; R. P. Chaudhary
16:45	OP28 <i>Asymmetric diketopyrrolepyrroles bearing furan rings for Dye-Sensitized Solar Cells</i> ; João Sarrato
17:00	Poster Session 2 – P35 to P68
18:30	End of the Day



Wednesday July 24, 2024

Chairperson Frederick Luzzio

09:00 **PL5** *From solution to mechanochemistry - unlocking new modes of reactivity of hypervalent iodine reagents*; Berit Olofsson

09:45 **IL6** *Recent advances in organic electrochemistry for heterocycle synthesis*; Adrian Dobbs

10:15 **IL7** *Combining Isocyanide based multicomponent reactions and complex cascades for the preparation of heterocycles*; Laurent El Kaïm

10:15 **Chemistry Europe**

11:00 **Coffee Break**

Parallel Session 9 - Renato Araújo Auditorium (A)

Chairperson Diana Cláudia Pinto

11:30 **OP29** *Direct C-H functionalization of azoles through radical reactions*; Elisabetta Rosadoni

11:45 **OP30** *Green aromatic epoxidation with an iron porphyrin catalyst for functionalization of renewable xylene, quinoline, and acridine*; Gabriela A. Corrêa

12:00 **OP31** *One-pot bimetallic catalyzed synthesis of N-heterocycles*; M. Manuel B. Marques

12:15 **OP32** *Biocatalytic nucleobase diversification of 4'-thionucleosides: access to purines and pyrimidines from a common precursor*; Gavin J. Miller

12:30 **Lunch Break**

14:30 **Excursion**

Parallel Session 10 - Academic Act Room (B)

Chairperson Marta Pineiro

11:30 **OP33** *Transition-metal-free synthesis of trisubstituted furans*; Marc Kimber

11:45 **OP34** *Cross-dehydrogenative coupling reaction of 3-hydroxycarbazoles and indoles using a heterogeneous oxovanadium catalyst*; Shuji Akai

12:00 **OP35** *Photo- and cobalt-catalyzed synthesis of heterocycles via cycloisomerization of unactivated olefins*; Willi M. Amberg

12:15 **OP36** *Construction of fluorinated heterocyclic rings via [4 + 1] annulation with difluorocarbenes*; Junji Ichikawa

12:30 **Lunch Break**

14:30 **Excursion**



Thursday July 25, 2024

Chairperson Emília Sousa

09:00 **PL6** *Novel chemical tools to modulate cell death mechanisms*; Rui Moreira

09:45 **AL2 (E. C. Taylor Senior Award)** *Thirty-seven years (and counting) of making and breaking heterocycles*; Mark Lautens

10:30 **IL8** *Synthesis and bioactivity of heterocyclic phenol Mannich bases*; Nuno Candeias

11:00 **Coffee Break**

Parallel Session 11 - Renato Araújo Auditorium (A)

Chairperson Mário Simões

11:30 **OP37** *Small ring heterocycles as efficient mediators for dearomatization*; Benjamin R Buckley

11:45 **OP38** *Stereoselective oxidative dearomatizations of functionalized anthracenes*; Bibal Brigitte

12:00 **OP39** *Isothiourea-catalysed acylative dynamic kinetic resolution of tetra-substituted morpholinone and benzoxazinone lactols*; Haoxiang Zhu

12:15 **OP40** *Rapid assembly of complex 3D heterocycles from simple enamide building blocks*; Georg Manolikakes

12:30 **Lunch Break**

Parallel Session 12 - Academic Act Room (B)

Chairperson Amparo Faustino

11:30 **OP41** *Synthesis and biological activities of diversely substituted indolopyrazolocarbazoles*; Théo Frazier

11:45 **OP42** *Synthesis of tetrapyrrolic macrocycles as potential probes for Magnetic Resonance Imaging*; Daniela S. S. Teixeira

12:00 **OP43** *Strategic applications of triquinoline derivatives as G4 ligands and PAH adsorbents*; Naoya Kumagai

12:15 **OP44** *1,2,3,4,5-Pentathiepins: insights and developments into the molybdenum mediated synthesis of bio-active indolizine-based polysulfides*; Roberto Tallarita

12:30 **Lunch Break**



Chairperson	António Burtoloso & Carlos Afonso
14:30	AL3 (A. R. Katritzky Junior Award) <i>Attempts to deliver on the promise of natural products</i> ; Ryan Shenvi
15:15	IL9 <i>Direct arylation and cross-dehydrogenative couplings of (hetero)arenes: sustainable routes to organic semiconductors for photovoltaics</i> ; Gianluca Farinola
15:45	Coffee Break
Chairperson	António Burtoloso & Carlos Afonso
16:15	PL7 <i>New strategies toward the use of electronically unsaturated carbon species in organic synthesis</i> ; Mamoru Tobisu
Parallel Session 13 - Renato Araújo Auditorium (A)	
Chairperson	Asunción Barbero
17:00	OP45 <i>New heterobicyclic FAT-inhibitors – Resistance-breaking and PFAS-free grass weed control solutions for sustainable agrochemistry</i> ; Jens Frackenpohl
17:15	OP46 <i>A new ketone synthesis via Cu(I)-accelerated regioselective coupling of thiopyridine ester with Grignard reagents: In quest of facile access to pharmaceuticals</i> ; Masahiko Seki
17:30	End of the Day
Parallel Session 14 - Academic Act Room (B)	
Chairperson	Victor Freitas
17:00	OP47 <i>B(C₆F₅)₃-Catalyzed dehydrogenation of pyrrolidines</i> ; Joseph Gillions
17:15	OP48 <i>Synthesis of heterocycles by fusion of 1,3-dipoles and carbene-type reagents</i> ; Yutaka Ukaji
17:30	End of the Day

Friday July 26, 2024

Chairperson Augusto Tomé & Fernanda Proença

09:00 **PL8** *Tandem one-pot enantioselective Heck-Matsuda reactions for the construction of heterocyclic compounds*; Carlos R. D. Correia

09:45 **IL10** *Rethinking enantioconvergent reactions*; Andrew L. Lawrence

11:00 **Coffee Break**

11:30 **PL9** *Enthalpy-entropy compensation in heterocycle chemistry*; Andrei K. Yudin

12:15 **Closing Remarks, Oral & Poster Prizes**

