List of communications

Plenary Lectures

PL1	Antonio M. Echavarren, *Catalysis via gold(I) carbenes*
PL2	Frank Glorius, *On discovery and sensitivity in (photo)catalysis*
PL3	Jonathan S. Lindsey, *Synthesis of native bacteriochlorophylls and analogues*
PL4	Edward A. Anderson, *Cycloisomerizations and cycloadditions in alkaloid total synthesis*
PL5	Berit Olofsson, *From solution to mechanochemistry - unlocking new modes of reactivity of hypervalent iodine reagents*
PL6	Rui Moreira, *Novel chemical tools to modulate cell death mechanisms*
PL7	Mamoru Tobisu, *New strategies toward the use of electronically unsaturated carbon species in organic synthesis*
PL8	Carlos R. D. Correia, *Tandem one-pot enantioselective Heck-Matsuda reactions for the construction of heterocyclic compounds*
PL9	Andrei K. Yudin, *Enthalpy-entropy compensation in heterocycle chemistry*

Award Lectures

AL1	Jeffrey T. Kuethe, *The LARGEST small molecule: Discovery and development of the PCSK9 inhibitor MK-0616*
AL2	Mark Lautens, *Thirty-seven years (and counting) of making and breaking heterocycles*
AL3	Ryan Shenvi, *Attempts to deliver on the promise of natural products*

Invited Lectures

IL1	Véronique Michelet, *A journey in gold catalysis towards diversity: from heterocycles to fragrances*
IL2	Asunción Barbero, *Strategies towards the synthesis of polysubstituted oxacycles*
IL3	Paula C. S. Branco, *Tailoring molecular structures for dye-sensitized solar cells*
IL4	Romano Orrù, *Biomimetic spirocyclizations for the synthesis of indole alkaloids*
IL5	William P. Unsworth, *Ring expansion approaches for the synthesis of functionalised macrocycles*
IL6	Adrian Dobbs, *Recent advances in organic electrochemistry for heterocycle synthesis*
IL7	Laurent El Kaïm, *Combining isocyanide based multicomponent reactions and complex cascades for the preparation of heterocycles*

IL8	Nuno R. Candeias, *Synthesis and bioactivity of heterocyclic phenol Mannich bases*
IL9	Gianluca M. Farinola, *Direct arylation and cross-dehydrogenative couplings of (hetero)arenes: sustainable routes to organic semiconductors for photovoltaics*
IL10	Andrew L. Lawrence, *Rethinking enantioconvergent reactions*
	Oral Presentations - Advances in synthetic methodologies
OP1	Raquel M. Durão, *Easy access to functionalized sparteine derivatives via electrochemical cyanation in batch and in flow of quinolizidine alkaloids*
OP2	Telmo N. Francisco, *Enabling the synthesis of 3-aminopyridines via stepwise Kröhnke reaction*
OP3	Joana L. C. Sousa, *Reactivity studies of 3-bromochromone derivatives in conjugate addition reactions*
OP4	R. A. Aitken, New reactions of sulfur-containing aryl benzyl ethers
OP15	Susannah C. Coote, *Spirocyclic oxetanes via Paternò-Büchi reaction of cyclic ketones with maleic anhydride derivatives*
OP16	Mitsuru Kitamura, *Development of a safe and efficient diazo-transfer reagent, IPrAP for phenols and aryl methyl ketones*
OP17	Antonio Carlos Bender Burtoloso, *Synthesis and functionalization of indoles with α-carbonyl sulfoxonium ylides: Expanding the synthetic toolbox*
OP18	Alexandre P. Felgueiras, *Synthesis of BODIPY dyes using flow chemical processes*
OP33	Marc Kimber, *Transition-metal-free synthesis of trisubstituted furans*
OP34	Shuji Akai, *Cross-dehydrogenative coupling reaction of 3-hydroxycarbazoles and indoles using a heterogeneous oxovanadium catalyst*
OP35	Willi M. Amberg, *Photo- and cobalt-catalyzed synthesis of heterocycles via cycloisomerization of unactivated olefins*
OP36	Junji Ichikawa, *Construction of fluorinated heterocyclic rings via [4 + 1] annulation with difluorocarbenes*
OP46	*Masahiko Seki, A new ketone synthesis via Cu(I)-accelerated regioselective coupling of thiopyridine ester with Grignard reagents: In quest of facile access to pharmaceuticals*
OP47	Joseph Gillions, *$B(C_6F_5)_3$-Catalyzed dehydrogenation of pyrrolidines*
OP48	Yutaka Ukaji, *Synthesis of heterocycles by fusion of 1,3-dipoles and carbene-type reagents*
	Oral Presentations - Heterocycles for biological applications
OP5	Maria M. M. Santos, *Development of tryptophanol-derived fluorescent probes*
OP6	Leandro M. O. Lourenço, *Photodynamic therapy efficacy: Thioglycerol-modified photosensitizers target UM-UC-3 bladder cancer cells*
OP7	Pedro M. O. Gomes, *Synthesis of C-glycosylquinolones and evaluation of their anticancer activity*

OP8	Flavia Iovane, *Probing benzimidazole-pyrazole chemical tools to target necroptosis*
OP9	Hélio M. T. Albuquerque, *Targeting protein aggregation with hybrid quinoline-steroid compounds*
OP10	Nuno M. M. Moura, *Synthesis and photosensitizer activity of Ir(III) and Ru(III) complexes bearing β-modified porphyrin ligands*
OP11	Fernanda Proença, *The base-induced isomerization of the 2-amino-3-cyano chromene scaffold in dimethylsulfoxide*
OP19	Susana M. M. Lopes, *Cycloaddition and annulation reactions of steroidal heterodienes*
OP20	Patrícia I. C. Godinho, *3-Nitro-2H-chromenes: useful synthons for the preparation of potential antimicrobials targeting multi-drug resistant bacteria*
OP21	Olga Lopes, *Functionalized imidazolones as luminescent probes for biological imaging*
OP22	Vishnuprasad Ponnarassery Aravindakshan, *An efficient Lewis acid catalysed synthesis of benzimidazole, benzothiazole and benzothiazoline derivatives as building blocks for fluorescent image-guided surgery*
OP23	Daniela Malafaia, *Unveiling the potential of chromeno[3,4-b]xanthones as a disruptive scaffold for Alzheimer's disease*
OP24	Filipe M. P. Morais, *Boosting the photosensitizer efficiency of meso-tetraarylporphyrins towards bacterial strains by conjugation with triphenylphosphonium salts*
OP25	Pascale Moreau, *Synthesis of 1H-pyrrolo[3,2-g]isoquinolines as Haspin inhibitors*
OP41	Théo Frazier, *Synthesis and biological activities of diversely substituted indolopyrazolocarbazoles*
OP42	Daniela S. S. Teixeira, *Synthesis of tetrapyrrolic macrocycles as potential probes for Magnetic Resonance Imaging*
OP43	Naoya Kumagai, *Strategic applications of triquinoline derivatives as G4 ligands and PAH adsorbents*
OP44	Roberto Tallarita, *1,2,3,4,5-Pentathiepins: insights and developments into the molybdenum mediated synthesis of bio-active indolizine-based polysulfides*
OP45	Jens Frackenpohl, *New heterobicyclic FAT-inhibitors – Resistance-breaking and PFAS-free grass weed control solutions for sustainable agrochemistry*
Oral Presentations – Natural products chemistry	
OP12	João R. Vale, *Total synthesis of (-)-agelastatin A from pyridine: Improving scalability*
OP13	Jason A Smith, *Pyrrole as a scaffold for synthesis: approaches to stemona alkaloids*
OP14	Hidetoshi Tokuyama, *Divergent total syntheses of discorhabdins and aleutianamine*
Oral Presentations - Sustainable synthetic approaches to heterocycles	
OP29	Elisabetta Rosadoni, *Direct C-H functionalization of azoles through radical reactions*

OP30	Gabriela A. Corrêa, *Green aromatic epoxidation with an iron porphyrin catalyst for functionalization of renewable xylene, quinoline, and acridine*
OP31	M. Manuel B. Marques, *One-pot bimetallic catalyzed synthesis of N-heterocycles*
OP32	Gavin J. Miller, *Biocatalytic nucleobase diversification of 4'-thionucleosides: access to purines and pyrimidines from a common precursor*
	Oral Presentations – Heterocycles in materials science
OP26	Samuel Guieu, *Luminescence of pyridines bearing an intramolecular hydrogen bond*
OP27	R. P. Chaudhary, *Excited state intra-molecular proton transfer (ESIPT) studies of 2-(benzo[d]thiazol-2-yl)naphthalen-1-ol system: experimental and theoretical approach*
OP28	João Sarrato, *Asymmetric diketopyrrolepyrroles bearing furan rings for Dye-Sensitized Solar Cells*
	Oral Presentations – Stereoselective synthesis
OP37	Benjamin R Buckley, *Small ring heterocycles as efficient mediators for dearomatization*
OP38	Brigitte Bibal, *Stereoselective oxidative dearomatizations of functionalized anthracenes*
OP39	Haoxiang Zhu, *Isothiourea-catalysed acylative dynamic kinetic resolution of tetra-substituted morpholinone and benzoxazinone lactols*
OP40	Georg Manolikakes, *Rapid assembly of complex 3D heterocycles from simple enamide building blocks*
	Poster Presentations - Stereoselective synthesis
P1	Yoshifumi Yuasa, *The synthesis of optically-active erythro-methylphenidate by diastereoselective hydrogenation using Ru-BINAP complex catalyst*
P2	Katharina Röser, *Chiral quaternary ammonium salt-catalyzed enantioselective addition reactions of hydantoins*
	Poster Presentations - Sustainable synthetic approaches to heterocycles
P3	Maria-João R.P. Queiroz, *Synthesis of tetracyclic lactones by Rh(III)-catalyzed C-H activation/ cycloaddition of thieno[2,3-b]quinoline-2-carboxylic acid and alkynes*
P4	Ana L. Cardoso, *Mechanochemical transformations of furans: sustainability meets diversity*
P5	Kamil Świątek, *Access to coxib precursors via selective iodination of 1-aryl-3-trifluoromethylpyrazoles*
P6	Inesa Zagorskytė, *Glycerol-1,2-carbonate: an efficient reagent for the N-glycerylation of pyrazolecarboxylates*
	Poster Presentations - Advances in synthetic methodologies
P7	Nina Wang, *A facile method to synthesize fluorescent diketopyrrolopyrrole derivatives by nucleophilic aromatic substitution*
P8	Artjoms Ubaidullajevs, *Synthesis of fused heterocycles by a novel 1,2-silyl shift – Friedel–Crafts domino process*
P9	Kohei Watanabe, *Generation of heteroatom radical species by visible light irradiation to trioxatriangulene derivatives*

P10	Carina J. N. Caires, *Photocatalytic transformation of quinic acid*
P11	M. J. Verganista, *Iron-catalyzed synthesis of isoindingos by hydrogen borrowing*
P12	Dheirya Kalpesh Sonecha, *Approaches to the parent 1,4- and 1,2-thiazines and 1,2-oxazine*
P13	Joana R. M. Ferreira, *Enamide synthesis through a Chan–Evans–Lam reaction as a platform for the synthesis of N-heterocycles*
P14	João Castro, *Catalytic activation of pinacol-derived chlorosilane for hydride transfer*
P15	Melani J. A. Reis, *Oxidative nucleophilic substitution: a promising approach to porphyrins bearing N-donor moieties*
P16	Hiroaki Ishida, *Synthetic studies on tetrahydrofuro[2,3-d]oxazoles and oxazoles by [2+2+1] cyclization with hypervalent iodine(III)*
P17	Alfredo Vázquez, *C-4 Functionalization of isoquinolines via a free radical approach*
P18	Matteo Martina, *One pot direct arylation-cyclization reaction induced by infrared irradiation*
P19	Maria I. L. Soares, *Phosphine-catalyzed umpolung γ-addition of iminochromanes to allenes: Synthesis of functionalized 2H-chromenes*
P20	Yoshiji Takemoto, *A Benzophenothiazine/boronic acid hybrid photocatalyst for the SET-initiated cyclization of α,β-unsaturated carboxylic acids*
P21	João C. S. Simões, *Novel trans-A2B2 porphyrins: from oxime meso-substituted dipyrromethanes to functionalized macrocycles*
P22	Yusuke Yoto, *Metal-free heterocycle synthesis from aryl cyclic diketones by fluorinative cut-to-fuse strategy*
P23	Tomáš Hodík, *Chalcogen bonding in asymmetric organocatalysis*
P24	Shuji Yasuike, *Synthesis of 3-arylquinoxalinones via palladium-catalyzed C–H arylation with triarylantimony difluorides*
P25	Tomoka Tsuda, *Metal-free coupling of diaryliodonium(III) salt with fluoroalkoxy boronate — New synthesis of fluoroalkoxy (hetero)arenes*
P26	Taeho Bae, *Metal-free new synthesis of benzisoxazolones with diaryliodonium salts*
P27	Kazuho Ban, *Development of various deuterated alkylating reagents using D_2O for drug discovery*
P28	Mio Matsumura, *Synthesis and properties of nobel dibenzo[b,h]carbazoles and dinaphtho[2,3-b,2',3'-d]phospholes*
P29	Masato Kawakubo, *Synthesis of novel monosubstituted pyridoimidazoisoquinoliniums via a silver-catalyzed intramolecular cyclization and their application for live cell imaging*
P30	Ranjini Laskar, *γ-Amino alcohols via EnT-enabled brook rearrangement*
P31	Takayuki Yakura, *A conformationally rigid highly reactive hypervalent iodine catalyst: 8-Iodoisoquinolinone (IB-lactam)*
P32	Dae Young Kim, *One-pot synthesis of 2-amino-4H-chromenes via electrochemical C−H oxidation and cyclization sequences of 2-alkyl phenols*

P33	Phillip S. Grant, *Remote proton elimination: C–H activation enabled by distal acidification*
P34	Andreas S. Kalogirou, *Chemistry and applications of non S-oxidised 4H-1,2,6-thiadiazines*
	Poster Presentations - Heterocycles in materials science
P35	Luis Cruz, *Pyranoflavylium-based dyes: from rational synthesis towards fabrication of new smart biomaterials for food applications*
P36	Georgia A. Zissimou, *Phthalonitrile Blatter radical*
P37	Preeti, *N- Heterocyclic imines on the metal surfaces: binding modes and interfacial charge transfer*
	Poster Presentations – Natural products chemistry
P38	Abdullah S. Alshetaili, *Novel embelin-loaded transniosomes for topical delivery: comprehensive exploration of in vitro, ex vivo and dermatokinetic assessment for anti-cancer activity*
P39	Rui Pereira, *Bis-flavones: a novel scaffold for flavonoid chemistry*
P40	Frederick A. Luzzio, *Acyliminium route to a combined isoindoline-indolizidine scaffold: routes to a pseudonatural product?*
P41	Anas Alkayal, *Towards the synthesis of a natural compound as a potential anti-mesothelioma agent JBIR-101*
	Poster Presentations – Heterocycles for biological applications
P42	Patrícia Correia, *Structural, chromatic, and photodynamic properties of amino-based flavylium dyes: Development of hydrogel formulations for skin therapy*
P43	Catarina I. V. Ramos, *Efficient G-quadruplex DNA stabilization by triphenylposphonium porphyrin conjugates*
P44	Gonçalo F. Oliveira, *Synthesis and photophysical properties of bis(4-aminophenyl)diketopyrrolopyrrole derivatives*
P45	Mubarak A. AlAmri, *NMR fragment-based screening for design of WNK signaling pathway inhibitors targeting OSR1 protein kinase C-terminal domain*
P46	João A. Pacheco, *Exploring the anti-inflammatory potential of alkylaminophenols: integrating computational and experimental approaches for lead optimization*
P47	Vera L. M. Silva, *Exploring diarylpyridines and styrylisoxazoles: Promising cholinesterase inhibitors for neurological disorders*
P48	Teodora Aleksandrova, *Angular-substituted [1,4]thiazino[3,4-a]isoquinolines as potential DPP-IV inhibitors*
P49	Aleksandar Pashev, *Synthesis of aryl-substituted benzo[a]quinolizidine derivatives and evaluation of their DPP-IV inhibitory activity*
P50	Daniela S. N. Branco, *Novel tetrahydroquinoline derivatives against Glioblastoma Multiforme*
P51	Lúcia Melo, *Development of new amyloid probes with donor-acceptor-donor architectures*
P52	Catarina M. Correia, *Synthesis of 1,3,5-trisubstituted and 1,3,4,5-tetrasubstituted pyrazoles: Methods and potential applications*

P53	Bruna D. P. Costa, *Photodynamic therapy of endometrial cancer: Improving the properties of corrole photosensitizers by exploring fluorine effects*
P54	Fahad Alkhathami, *Synthesis of the cis- and trans-3-fluoro analogues of febrifugine and halofuginone*
P55	Ricardo Ribeiro, *Synthesis of marine-derived cyclopeptides though an emerging alternative to conventional peptide cyclization*
P56	M. Amparo F. Faustino, *Boosting bacterial photodynamic inactivation via the synergistic effect of potassium iodide and cationic zinc(II) phthalocyanine*
P57	Iago C. Vogel, *Quinic acid-flavonoid fusion: a promising approach for α-glucosidase inhibition*
P58	Maria Emília Sousa, *Synthesis of marine-derived compounds as prospective substance P antagonists for the management of inflammatory pruritic skin conditions*
P59	Joseph O'Sullivan, *The synthesis of chromogenic and fluorogenic substrates and their potential application in diagnostics*
P60	Maria Graça P. M. S. Neves, *New thiazoloindazole conjugates: synthesis, molecular docking studies and biological evaluation*
P61	Darren William Gardner, *Chromogenic enzyme substrates based on [2-(nitroaryl)ethenyl]pyridinium and quinolinium derivatives for the detection of nitroreductase activity in clinically important microorganisms*
P62	Carlos F. M. Silva, *Synthesis of novel potential FMN riboswitch inhibitors*
P63	Ricardo M. Carvalho, *Novel spiropenicillanates via formal [2+1] cycloaddition of 6-alkylidenepenicillanates with sulfur ylides*
P64	Américo J. S. Alves, *Novel sulfoxide- and sulfone-spiropenicillanates with potential broad-spectrum antiviral activity*
P65	Basmah Almohaywi, *Anticancer evaluations of iodoquinazoline as dual inhibitors of $EGFR^{WT}$ and $EGFR^{T790M}$: design, synthesis, ADMET and molecular docking*
P66	Diana C. G. A. Pinto, *Structure-activity study of 2-benzylchromone derivatives as monoamine oxidase inhibitors*
P67	Artem Chayka, *Quest to discover allosteric inhibitors of SARS-CoV-2 RNA-dependent RNA polymerase*
P68	Pavel Kraina, *Structural modifications and biological evaluation of human purine nucleoside phosphorylase inhibitors*