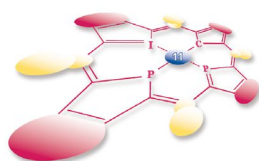


PROGRAM of PRESENTATIONS

11th INTERNATIONAL
CONFERENCE
ON PORPHYRINS &
PHTHALOCYANINES
ICPP-SPP.ORG



ICPP-11
VIRTUAL MEETING
28 JUNE - 3 JULY 2021

PROGRAM of PRESENTATIONS

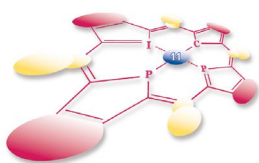
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11th INTERNATIONAL
CONFERENCE
ON PORPHYRINS &
PHTHALOCYANINES
ICPP-SPP.ORG



ICPP-11
VIRTUAL MEETING
28 JUNE - 3 JULY 2021

Scope of the Conference

All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of pre-recorded Oral presentations and PDF Poster presentations visible two weeks before and for two weeks after the full six-day period of the meeting. During these 6 days, LIVE one hour long Zoom™ symposia sessions for live flash talks and questions and answers by the symposia organizers and speakers. Four scientists will be honored by Lifetime Achievement Awards in 2021 and three JPP/SPP Young Investigator Awards will also be presented at the meeting. All awards will be accompanied by highlighted one hour pre-recorded award lectures.

Organized by Society of Porphyrins and Phthalocyanines (SPP)

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Ravindra Pandey

Roswell Park Comprehensive Cancer Center
Buffalo, NY, USA

Co-chair

Francis D'Souza

University of North Texas
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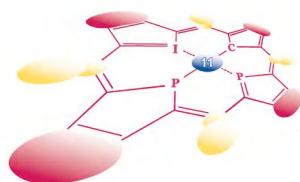
Karl Kadish

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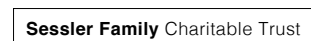
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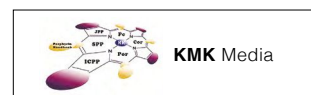
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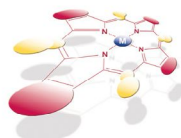
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PORPHYRIN SCIENCE BY WOMEN

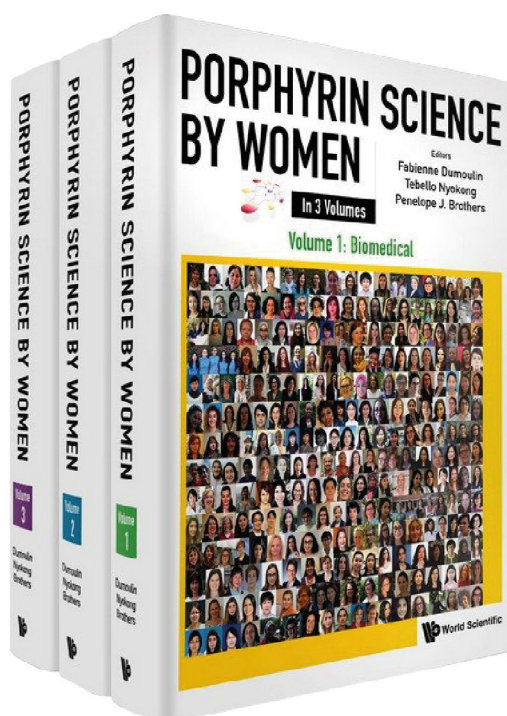


In 3 Volumes

Editors

Fabienne Dumoulin
Tebello Nyokong
Penelope J. Brothers

This is a reprint three volume set with a thematic organization of the articles of the four Women in Porphyrin Science special issues published in the Journal of Porphyrins and Phthalocyanines in 2019. All the articles were carefully arranged by the volume editors and Karl Kadish, the Journal of Porphyrins and Phthalocyanines Editor-in-Chief, in order to provide a comprehensive coverage of each topic. Volume 1 covers the biomedical aspects, applications and uses of BODIPY's, porphyrins, phthalocyanines and related derivatives, mainly for photodynamic therapy. Volume 2 covers the synthesis, characteristics and properties of these compounds, while Volume 3 is on topics related to materials, sensors, energy and catalysis. These state-of-the-art articles are contributed by women. This book will strongly contribute to the visibility of women in the field of porphyrin science.



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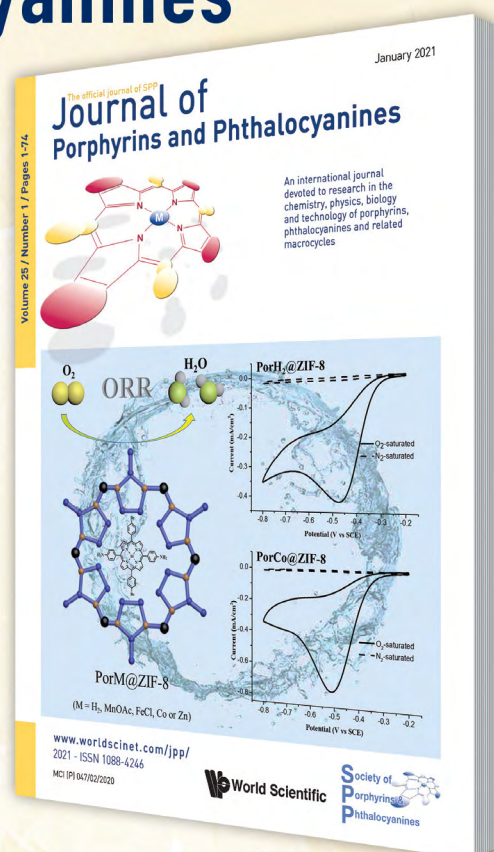
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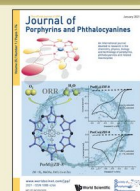
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— edited by —

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University of Houston, USA

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Louisiana State University, USA

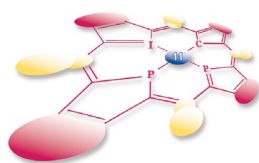
Roger Guilard

Université de Bourgogne, France

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SPECIALIZED SYMPOSIA

Scheduled Live Zoom Sessions	9
List of Specialized Symposia	10

PRE-RECORDED ORAL PRESENTATIONS and their FLASH TALK LIVE ZOOM SCHEDULE

Monday June 28, 2021	13
Tuesday June 29, 2021	22
Wednesday June 30, 2021	29
Thursday July 01, 2021	36
Friday July 02, 2021	43
Saturday July 03, 2021	52

POSTER PRESENTATIONS

(Arranged by symposium)	62
-------------------------------	----

Author index	79
--------------------	----

ICPP-11 Virtual Meeting - 28 June - 3 July 2021 Specialized Symposia

Scheduled LIVE Zoom Sessions

9

ICPP-11 VIRTUAL MEETING 28 JUNE - 3 JULY 2021		06:45 13:45 20:45	07:00 - 08:00 - Central time USA 14:00 - 15:00 - Central EUROPE 21:00 - 22:00 - JAPAN standard	08:00 - 09:00 - Central time USA 15:00 - 16:00 - Central EUROPE 22:00 - 23:00 - JAPAN standard	09:00 - 10:00 - Central time USA 16:00 - 17:00 - Central EUROPE 23:00 - 00:00 - JAPAN standard	10:00 - 10:15 17:00 - 17:15 00:00 - 00:15
Monday 28 June	ZOOM ROOM 1	Opening Ceremony Hosted by Karl Kodali, Ravi Pandey & Francis D'Souza	6. N-confused and other "mis-linked" porphyrins and porphyrinoids organized by Hiroyuki Furuta	4. Corroles (synthesis and applications) organized by Daniel Gryko & Roberto Paolisse	8. Porphycenes and other porphyrin isomers organized by Jacek Walk	
	ZOOM ROOM 2		9. Exotic porphyrins and related systems covering the pi-expanded porphyrins and modified porphyrinoid systems organized by Chang-Hee Lee	13. Hückel, Möbius, Baird and 3-Dimensional aromaticity/ antiaromaticity in porphyrinoids organized by Jonathan Sessler	17. Optical, electrical & optoelectronic phenomena in porphyrins & phthalocyanines organized by Ángela Sastre-Santos & Fernando Fernández-Lázaro	
	ZOOM ROOM 3		40. Heme proteins and synthetic analogues organized by John Dawson & Takashi Hayashi		41. Catalysis in natural and biosynthetic heme proteins organized by James Kincaid & Anabella Ivancich	
Tuesday 29 June	ZOOM ROOM 1		5. Exotic coordination chemistry of porphyrinoid systems organized by Penny Brothers & Bernard Boltral	3. BODIPY Dyes organized by Francis D'Souza		47. Introduction & flash talk of SPP/JPP Young Investigator Winners: Rui Cao, Marina Kulimova and Pui-Chi Lo Introduced by Worwo Ham, Harry Anderson and Dennis Ng
	ZOOM ROOM 2		31. Charge, spin, energy, and atom transport in molecular and nanoscale systems organized by Michael Thierian	21. Chirality and spatially pre-organized multi-porphyrinoids organized by Victor Borovkov & Nathalie Sollandé		
	ZOOM ROOM 3		46. Theory and spectroscopy organized by Martin J. Stillman & Nagao Kobayashi	44. Chemistry and biology of corrinoids and related compounds organized by Felix Zelder & Dorota Gryko		
Wednesday 30 June	ZOOM ROOM 1		11. Novel pyrrolic macrocycles and chromophores organized by John Mack & Zhen Shen	18. Porphyrin-based chemical sensors organized by Marcel Bouvet & Corrado di Natale		47. Introduction & flash talk of Lifetime Achievement Winners: Dongho Kim and Tabela Nyokong Introduced by Jonathan Sessler and Lindokuhle Nene
	ZOOM ROOM 2		30. Catalytic chemical transformations by metalloporphyrins organized by Emma Gallo	26. From light harvesting to charge separation and charge transport organized by Francis D'Souza & Dirk Guldi		
	ZOOM ROOM 3		32. Porphyrin derivatives for medical/biological applications organized by Claude P. Gros	39. Antimicrobial photodynamic therapy organized by Reza Ghiladi		
Thursday 1 July	ZOOM ROOM 1		20. Self-assembly of tetrapyrroles in biomaterials organized by Francesca Giuntini & Athanasios Coustoules	23. Porphyrinoid biohybrid materials for light management applications organized by Andres de la Escosura Navazo		47. Introduction & flash talk of Lifetime Achievement Winners: Tayyaba Hasan and Brian Hoffman Introduced by Ravi Pandey and Anabella Ivancich
	ZOOM ROOM 2		27. Porphyrinoids for solar cells organized by Hiroshi Imahori & Hong Wang	28. Photo- and electro-catalytic processes organized by Zeev Gross		
	ZOOM ROOM 3		37. Tumor targeting agents for (multi)modal imaging and theranostics organized by Franck Denat & Jonathan Lovell	38. Molecular-targeted photomedicine for precision therapy organized by Bryan Q. Spring		
Friday 2 July	ZOOM ROOM 1		7. Natural porphyrinoid pigments organized by Bernhard Kräutler & Franz-Peter Morfordts	2. Synthesis and properties of phthalocyanines and related compounds organized by Tomas Torres, Andrew Carmidge, Geema de la Torre & Miguel Garcia-Iglesias		
	ZOOM ROOM 2		15. Radicals in porphyrins and related compounds organized by Satoru Hiroto	12. Advances in the chemistry of porphyrazines (substituted & annulated) organized by Pavel Sluzhkin & Petr Zimcik	14. Chiral aspects of porphyrin supramolecular chemistry organized by Nina Berova & Roberto Purrello	
	ZOOM ROOM 3		34. Porphyrinoids-based nanoparticles for health organized by Fabienne Dumoulin & Vincent Sol	35. Photodynamic therapy: Basic sciences and clinical research organized by Anu Puri & Ravi Pandey	36. Translational research and NIH funding opportunities organized by David Kessel	
Saturday 3 July	ZOOM ROOM 1		1. SubPcs, SubPzs, SubPors and related contracted porphyrinoids organized by M. Saïme Rodriguez-Morgade & Soji Shimizu	19. Porphyrin and biomolecules: a long-lasting friendship organized by Alessandro D'Urso	22. Self-assembled systems and materials based on porphyrinoids organized by M. Victoria Martínez-Díaz & Giovanni Bollari	Closing Ceremony Hosted by Karl Kodali, Ravi Pandey & Francis D'Souza
	ZOOM ROOM 2		10. NIR-responsive porphyrinoids organized by Jichan Wu, Yoshihiro Matano & Hiroko Yamada	24. Porphyrinoids for water splitting organized by Nicolas Boischer	29. Biomimetic solar conversion organized by Ally Auzanloo & Fabrice Odobel	
	ZOOM ROOM 3		45. Bio-inspired electrocatalysis for energy and environment: Heme vs non-heme - Best of both worlds organized by Abhishek Dey	51. Contributed talks CHARACTERIZATION, CATALYSIS & MATERIALS Chaired by Daniel Leznoff and John Mack	50. Contributed talks SYNTHESIS II Chaired by Daniel Leznoff and John Mack	52. Contributed talks BIO & BIOMEDICAL Chaired by Daniel Leznoff and John Mack

Symposia	Theme	Zoom Room
01 - 08	AWARD LECTURES & CEREMONIES	ZOOM ROOM 1
	SYNTHESIS	ZOOM ROOM 1
09 - 17	CHARACTERIZATION & PROPERTIES	ZOOM ROOM 1 ZOOM ROOM 2
18 - 23	MATERIALS	ZOOM ROOM 1 ZOOM ROOM 2
24 - 31	CATALYSIS & ENERGY	ZOOM ROOM 2
32 - 39	BIOMEDICAL APPLICATIONS	ZOOM ROOM 3
40 - 45	BIOCHEMISTRY	ZOOM ROOM 3
46	THEORY & MODELLING	ZOOM ROOM 3

I. SYNTHESIS (8 symposia)

- 1. SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids**
Organized by M. Salome Rodriguez-Morgade & Soji Shimizu
- 2. Synthesis and Properties of Phthalocyanines and Related Compounds**
Organized by Tomas Torres, Andrew Cammidge, Gema de la Torre & Miguel Garcia-Iglesias
- 3. BODIPY Dyes**
Organized by Francis D'Souza
- 4. Corroles (Synthesis and Applications)**
Organized by Daniel Gryko & Roberto Paolesse
- 5. Exotic Coordination Chemistry of Porphyrinoid Systems**
Organized by Penny Brothers & Bernard Boitrel
- 6. N-confused and Other «Mis-Linked» Porphyrins and Porphyrinoids**
Organized by Hiroyuki Furuta
- 7. Natural Porphyrinoid Pigments**
Organized by Bernhard Kräutler & Franz-Peter Montforts
- 8. Porphycenes and Other Porphyrin Isomers**
Organized by Jacek Waluk

II. CHARACTERIZATION & PROPERTIES (8 symposia)

- 9. Exotic Porphyrins and Related Systems' Covering the Pi-Expanded Porphyrins and Modified Porphyrinoidsystems**
Organized by Chang-Hee Lee
- 10. NIR-Responsive Porphyrinoids**
Organized by Jishan Wu, Yoshihiro Matano & Hiroko Yamada
- 11. Novel Pyrrolic Macrocycles and Chromophores**
Organized by John Mack & Zhen Shen
- 12. Advances in the Chemistry of Porphyrazines (Substituted and Annulated)**
Organized by Pavel Stuzhin & Petr Zimcik
- 13. Hückel, Möbius, Baird and 3-Dimesional Aromaticity/Antiaromaticity in Porphyrinoids**
Organized by Jonathan Sessler
- 14. Chiral Aspects of Porphyrin Supramolecular Chemistry**
Organized by Nina Berova & Roberto Purrello
- 15. Radicals in Porphyrins and Related Compounds**
Organized by Satoru Hiroto
- 17. Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines**
Organized by Ángela Sastre Santos & Fernando Fernandez Lazaro

III. MATERIALS (6 symposia)

- 18. Porphyrin-Based Chemical Sensors**
Organized by Marcel Bouvet & Corrado di Natale
- 19. Porphyrin and Biomolecules: A Long-Lasting Friendship**
Organized by Alessandro D'Urso & Eugen Stulz
- 20. Self-Assembly of Tetrapyrroles in Biomaterials**
Organized by Francesca Giuntini & Athanassios G. Coutsolelos
- 21. Chirality and Spatially Pre-Organized Multi-Porphyrinoids**
Organized by Victor Borovkov & Nathalie Sollandie
- 22. Self-Assembled Systems and Materials based on Porphyrinoids**
Organized by M. Victoria Martinez-Diaz & Giovanni Bottari
- 23. Porphyrinoid Biohybrid Materials for Light Management Applications**
Organized by Andres de la Escosura Navazo

IV. CATALYSIS & ENERGY (7 symposia)

24. Porphyrinoids for Water Splitting

Organized by Nicolas Boscher

26. From Light Harvesting to Charge Separation and Charge Transport

Organized by Francis D'Souza & Dirk Guldi

27. Porphyrinoids for Solar Cells

Organized by Hiroshi Imahori & Hong Wang

28. Photo- and Electro-Catalytic Processes

Organized by Zeev Gross

29. Biomimetic Solar Conversion

Organized by Ally Aukauloo & Fabrice Odobel

30. Catalytic Chemical Transformations by Metalloporphyrins

Organized by Emma Gallo

31. Charge, Spin, Energy, and Atom Transport in Molecular and Nanoscale Systems

Organized by Michael Therien

V. BIOMEDICAL APPLICATIONS (7 symposia)

32. Porphyrin Derivatives for Medical/Biological Applications

Organized by Claude P. Gros

34. Porphyrinoids-Based Nanoparticles for Health

Organized by Fabienne Dumoulin & Vincent Sol

35. Photodynamic Therapy: Basic Sciences and Clinical Research

Organized by Anu Puri & Ravi Pandey

36. Translational Research and NIH funding Opportunities

Organized by David Kessel

37. Tumor Targeting Agents for (Multi)modal Imaging and Theranostics

Organized by Franck Denat & Jonathan Lovell

38. Molecular-Targeted Photomedicine for Precision Therapy

Organized by Bryan Q. Spring

39. Antimicrobial Photodynamic Therapy

Organized by Reza Ghiladi

VI. BIOCHEMISTRY (4 symposia)

40. Heme Proteins and Synthetic Analogues

Organized by John Dawson & Takashi Hayashi

41. Catalysis in Natural and Biosynthetic Heme Proteins

Organized by James Kincaid & Anabella Ivancich

44. Chemistry and Biology of Corrinoids and Related Compounds

Organized by Felix Zelder & Dorota Gryko

45. Bio-Inspired Electrocatalysis for Energy and Environment: Heme vs Non-heme - Best of Both Worlds

Organized by Abhishek Dey

VII. THEORY & MODELLING (1 symposium)

46. Theory and Spectroscopy

Organized by Martin J. Stillman & Nagao Kobayashi

VIII. Award Lectures (1 symposium)

47. Award/Plenary Lectures

IX. Contributed talks (3 symposia) *Chaired by Daniel Leznoff and John Mack*

50. Synthesis II

51. Characterization, Catalysis and Materials

52. Bio and Biomedical

PRE-RECORDED
ORAL PRESENTATIONS
and their
FLASH TALK
LIVE ZOOM SCHEDULE

Monday 28 June 2021

6. N-Confused and Other "Mis-Linked" Porphyrins and Porphyrinoids

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Hiroyuki Furuta** - total duration : 60 minutes

Dong-Gyu Cho (Department of Chemistry and Chemical Engineering/Inha University, Incheon, Korea)

Meso-Fused Carbaporphyrins and their Derivatives

Hiroyuki Furuta (Department of Chemistry and Biochemistry, Kyushu University, Fukuoka, Japan), Takaaki Yamamoto, Masatoshi Ishida, Motoki Toganoh, Soji Shimizu

Tungsten(VI) Complexes of N-Fused Porphyrin

Iti Gupta (Department of Chemistry, IIT Gandhinagar, Gandhinagar, India), Vijayalakshmi Pandey

Thioglycosylated porphyrins: Potential theranostic agents for cancer

Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Kishore M V N, Jyotsna Bania, Narendra Nath Pati, Ishfaq Ahmad Bhat, Sipra Sucharita Sahoo, Sameeta Sahoo, Satish Kumar Bijigiri

Bronzaphyrins: [26]Hexaphyrin-(2.0.0.2.0.0) – Substituent Dependent Structural and Functional Attributes

Gokulnath Sabapathi (Indian Institute of Science Education and Research Thiruvananthapuram, Thiruvananthapuram, India), Arumugan Kalaiselvan, Ajay Jayaprakash, Sulfikarali Thondikkal

Carbazole and Di-m-phenylene Incorporated Macrocyclic Structures: Synthesis, Optical and Sensing Properties

Ji-Young Shin (Graduate School of Engineering, Nagoya University, Nagoya, Japan)

Nickel(II) Norcorrole (NiNc) Batteries

4. Corroles (Synthesis and Applications)

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Daniel Gryko & Roberto Paolesse** - total duration : **60 minutes**

Abhik Ghosh (Department of Chemistry, Tromsø, Norway)

Heavy Element Porphyrin Analogue Derivatives for Photodynamic Therapy and Solar Cells

Claude Gros (ICMUB (UMR CNRS 6302) Université Bourgogne Franche-Comté, Dijon, France), Stéphane Brandès, Valentin Quesneau, Jian Yang, Nicolas Desbois, Meddy Vanotti, Virginie Blondeau-Patissier

Porous Organic Polymers (POPs) based on cobalt corroles for the detection of carbon monoxide

Zeev Gross (Schulich Faculty of Chemistry, Haifa, Israel), Pinky Yadav, Jyoti Ray, Ira Saltsman, Sally Khoury, Atif Mahammed, Amir Mizrahi

Minimally Substituted Corroles and Sapphyrins: Synthesis and Coordination Chemistry

Karl Kadish (Department of Chemistry, Houston, USA), W. Ryan Osterloh, Valentin Quesneau, Nicolas Desbois, Stéphane Brandès, Virginie Blondeau-Patissier, Roberto Paolesse, Claude P. Gros

Electrochemistry of Mono- and Bis-CN Ligated Cobalt Corroles

Giuseppe Pomarico (Department of Molecular and Translational Medicine, University of Brescia, Brescia, Italy), Federica Mandoj, Roberto Paolesse

Early Transition Metals Corroles: Titanium and Vanadium Complexes

Wolfgang Schoefberger (Institute of Organic Chemistry, Johannes Kepler Universität Linz, Linz, Austria), Michael Haas, Sabrina Gonglach, Dominik Krisch

Synthesis and Characterization of Meso-Alkynyl Corroles

Takayuki Tanaka (Kyoto University, Kyoto, Japan), Shota Ooi, Atsuhiko Osuka

Oxidative Fusion Reaction of 10-10' Linked Corrole Dimers

Joana Barata (CESAM - University of Aveiro, Aveiro, Portugal), Tito Trindade, M Graça P M S Neves, Rute Pereira, Pedro Conceicao, Gabriela Matos, Paula Lacerda, Ana Daniel-da-Silva, José A S Cavaleiro

Corroles and nanoparticles - a conjugation towards functional systems

8. Porphycenes and Other Porphyrin isomers

Zoom Room 1 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Jacek Waluk** - total duration : **60 minutes**

Masaaki Abe (Graduate School of Material Science, University of Hyogo, Ako, Japan), Hiroki Futagawa, Toshikazu Ono, Toru Okawara, Yoshio Hisaeda

Metalloporphycenes for Electrochromic Thin-Film Devices

Daiki Kuzuhara (Faculty of Science and Engineering, Iwate University, Morioka, Japan), Koki Taniyama, Noriyuki Yoshimoto

Development of Porphycenes for Organic Electronics

Arkadiusz Listkowski (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Anastasiia Kharchenko, Piotr Fita, Jacek Waluk

Novel Asymmetric Porphycenes – Synthesis and Properties

Toshikazu Ono (Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Daiki Koga, Ning Xu, Hyuga Shinjo, Yoshio Hisaeda

Synthetic Journey of meso-Substituted Porphycenes for Functional Materials

Dage Sundholm (Department of Chemistry, University of Helsinki, Helsinki, Finland)

Calculating Aromatic Pathways in Porphyrinoid Compounds

Samson Khene (Rhodes University, Grahamstown, South Africa), Marcel Louzada

Third Order Nonlinear Optical Properties of tert-butyl-phenoxy Phthalocyanine isomers

9. Exotic Porphyrins and Related Systems Covering the Pi-Expanded Porphyrins and Modified Porphyrinoid systems

Zoom Room 2 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Chang-Hee Lee** - total duration : **60 minutes**

Woo-Dong Jang (Department of Chemistry, Yonsei University, Seoul, Korea), Hosoo Lee

Porphyrin-based Supramolecular Polymers

Timothy D. Lash (Department of Chemistry Illinois State University, Normal, USA), Emma Cramer, Alexis Graybeal, Cyrus Gudeman, Samuel Kempel

Adding a Heterocyclic Dimension to Carbaporphyrin Chemistry: Quiniporphyrins and Related Systems

Chang Hee Lee (Department of Chemistry Kangwon National University, Chuncheon, Korea), Seong Jin Hong, Ranjan Dutta

Conformationally Rigid Antiaromatic Hexaphyrins[1.0.1.0.1.0]

Muniappan Sankar (Indian Institute of Technology Roorkee, Roorkee, India)

Synthesis, Spectral and Electrochemical Redox Properties of π -Extended Chlorins and Porphyrins

Jonathan Sessler (Chemistry, UT Austin, Austin, USA)

Meso-free Aromatic, Antiaromatic, and Non-topographically Planar Porphyrinoids

Zhen Shen (School of Chemistry and Chemical Engineering, Nanjing, China), Fan Wu, Hu Gao

Highly Stable Antiaromatic System Based-on Cationic Benzocorrole Cu(II) Complex

13. Hückel, Möbius, Baird and 3-Dimensional Aromaticity/Antiaromaticity in Porphyrinoid

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Jonathan Sessler* - total duration : *60 minutes*

Heike Fliegl (Karlsruhe Institute of Technology (KIT) Institute of Nanotechnology, Eggenstein-Leopoldshafen, Germany)
Aromatic pathways based on magnetically induced currents

Henrik Ottosson (Department of Chemistry - Ångström Laboratory, Uppsala, Sweden)
Excited State Aromaticity and Antiaromaticity: Scope, Limitations and Complications

Hiroshi Shinokubo (Nagoya University, Graduate School of Engineering, Nagoya, Japan)
Three-Dimensional Aromaticity of Closely Stacked Norcorrole Dimers

Jishan Wu (Department of Chemistry, National University of Singapore, Singapore, Singapore)
D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states

17. Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines

Zoom Room 2 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Angela Sastre Santos & Fernando Fernández Lázaro* - total duration : 60 minutes

Christine O. Paul-Roth (INSA de RENNES, Rennes, France)

Optical properties of Organic and Organometallic Porphyrin Dendrimers

Christof Wöll (KIT Institute of Functional Interfaces, Karlsruhe, Germany)

Programmed Assembly of Chromophoric Building Blocks: A Route towards Designer Solids with Tuneable Optical Properties?

Aviwe May (Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Makhanda, South Africa), Bokolombe Ngoy, John Mack, Tebello Nyokong

Optical Limiting and Femtosecond Pump-Probe Transient Absorbance Properties of a 3,5-distyrylBODIPY Dye

Abhishek Shibu (Department of Chemistry, University of North Carolina at Charlotte, Charlotte, USA), Camilla Middleton, Carly Kwiatkowski, Meesha Kaushal, Michael Walter

A Study on Emission Decay Rates, Molecular Assembly, and Exciton Diffusion in Metallated Porphyrin Thin Films

40. Heme Proteins and Synthetic Analogues

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **John Dawson & Takashi Hayashi** - total duration : 120 minutes

Kara Bren (Department of Chemistry University of Rochester, Rochester, USA), Angela Lombardi, Emily Edwards, Jose Alvarez-Hernandez, Jana Jelusic, Saikat Chakraborty, Jennifer Le, Andrew Sopchak, Marco Chino

Synthetic and Semisynthetic Cytochromes for Artificial Photosynthesis

Lionel Cheruzel (San Jose State University, San Jose, USA)

Light-driven P450 enzymes in chemoenzymatic synthesis

Michael Green (University of California, Irvine, Irvine, USA)

Compound II — Déjà Vu

Takashi Hayashi (Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Suita, Japan), Yuta Miyazaki, Takashi Hayashi

Reconstituted Hemoproteins with Ni Corrinoids toward Functional Models of Methane-producing Enzyme

Shun Hirota (Graduate School of Science and Technology, Nara Institute of Science and Technology, Ikoma, Japan), Satoshi Nagao, Masaru Yamanaka, Yoshiki Higuchi

Design and Detection of Heme Protein Supramolecules

Koichiro Ishimori (Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo, Japan)

Structural and Functional Characterization of Manganese-Dependent Heme-Regulated Transcriptional Factor, Irr

Anabella Ivancich (Centre National de la Recherche Scientifique (French CNRS). Research Unit UMR 7281 (BIP), Marseille, France), Karl J. Koebke, Vincent L. Pecoraro

Concerted role of heme and protein-based radicals in catalysis: Bifunctional KatG enzymes and de novo designed heme-protein mimics

Angela Lombardi (Department of Chemical Sciences, University of Naples Federico II, Naples, Italy), Linda Leone, Emilia Renzi, Salvatore La Gatta, Marco Chino, Ornella Maglio, Flavia Nastri

Mimochrome, a metalloporphyrin-based catalytic swiss-knife.

Mario Rivera (Department of Chemistry Louisiana State University, Baton Rouge, USA), Huili Yao, Anabel Soldano, Achala Punched Hewage, Scott Lovell

Blocking iron mobilization from bacterioferritin in Pseudomonas aeruginosa cells by genetic and chemical tools elicits growth retardation and impairs biofilms

Hitomi Sawai (Graduate School of Life Science, University of Hyogo, Ako-gun, Japan)

Structural basis for the multifunctionality of the heme-responsive sensor protein for heme detoxification in hemolytic bacteria

Osami Shoji (Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, Japan)

Hydroxylation of Nonnative Substrates Catalyzed by Cytochrome P450BM3 Exploiting Decoy Molecules

Martin Stillman (Department of Chemistry, London, Canada)

ESI-mass spectrometry and magnetic circular dichroism spectroscopy – hand in hand unraveling complexity in heme proteins

40. Heme Proteins and Synthetic Analogues *continued*

Paola Turano (University of Florence, Sesto Fiorentino, Italy), Silvia Ciambellotti

Protein-mediated porphyrin transport and delivery

Michael Ryan (Chemistry Department Marquette University, Milwaukee, USA), Md. Hafizur Rahman

Infrared Spectroelectrochemistry and DFT Calculations for the Reduction of Fe(P)(NO)-

Juan Lopez-Garriga (Chemistry Department/University of Puerto Rico, Mayaguez Campus, Mayaguez, USA), Angel Rodriguez-Mackenzie, Hector Arbelo-Lopez, Troy Wymore

Inhibition Mechanisms of Reactive Oxygen species (ROS) by Hydrogen Sulfide: The Sulf-Hemeprotein Scenarios

41. Catalysis in Natural and Biosynthetic Heme Proteins

Zoom Room 3 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Anabella Ivancich & James Kincaid** - total duration : **60 minutes**

David Goodin (Department of Chemistry University of California, Davis, Davis, USA), Shih-Wei Chuo, Lee-Ping Wang, R. David Britt

An Intermediate Conformational State of Cytochrome P450cam-CN in Complex with Putidaredoxin

John Hackett (Department of Physiology and Biophysics and the Massey Cancer Center, Virginia Commonwealth University, Richmond, USA), William Atkins, Lorela Paco, Francisco Zarate-Perez

Cytochrome P450 19A1 Dynamics and Ligand Recognition in Membranes

James R. Kincaid (Marquette University, Milwaukee, USA)

Using resonance Raman spectroscopy to reveal active site structure in the P450 catalytic cycle

Piotr Mak (Chemistry/Saint Louis University, St. Louis, USA)

Resonance Raman Studies of Heme Degradation Mechanism

Yi Lu (Department of Chemistry University of Illinois at Urbana-Champaign, Urbana, USA)

Biosynthetic modeling of heme-copper oxidases, progress made and insights gained

Hiroshi Fujii (Nara Women's University, Nara, Japan)

What is an essential factor for determining the bond cleavage process of heme-bound terminal oxidant?

Nicolai Lehnert (Department of Chemistry and Department of Biophysics University of Michigan, Ann Arbor, USA), Julius Campeciño, Eric L. Hegg, Victor Sosa Alfaro

DNRA: Catalyzing Multielectron Reductions Using a Pentaheme Scaffold

Kenton Rodgers (Chemistry & Biochemistry North Dakota State University, Fargo, USA), Gudrun Lukat-Rodgers, Zachary Geeraerts

Spectroscopy and Mechanism of O₂-producing Chlorite Dismutases

Yong Zhang (Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, USA), Rahul Khade, Yang Wei

Biocatalytic Heme Carbene Transfer Mechanisms

Tuesday 29 June 2021

5. Exotic Coordination Chemistry of Porphyrinoid Systems

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Bernard Boitrel & Penny Brothers** - total duration : **60 minutes**

Jeanet Conradie (University of the Free State, Bloemfontein, South Africa), Penelope Brothers, Abhik Ghosh

Energetics of Exotic Porphyrinoid Systems

Siddhartha De (University of Lyon, Chemistry Department, Materials and Interfaces Laboratory, Villeurbanne, France), Alexandra Fateeva, Gia Co Quan, Brian Abeykoon, Erwann Jeanneau, Morgane Denis, Thomas Devic, Georges Mouchaham, Nathalie Guillou, Alexander Sorokin

Structural diversity and related properties of porphyrin based metal organic frameworks and coordination assemblies

Yulia G. Gorbunova (Frumkin Institute of Physical Chemistry and Electrochemistry of RAS, Kurnakov Institute of General and Inorganic Chemistry of RAS, Moscow, Russia), Alexander G. Martynov, Andrey P. Kroitor, Aslan Yu. Tsivadze, Lucie P. Callier, Alexander B. Sorokin

Exotic Coordination Chemistry of Ruthenium in Phthalocyanine Surrounding

Sébastien Richeter (Institut Charles Gerhardt, Université de Montpellier, CNRS, ENSCM, MONTPELLIER, France), Clémence Rose, Aurélien Lebrun, Nicolas Brun, Charles H. Devillers, Sébastien Clément

Synthesis and Properties of Cofacial Porphyrin Dimers Assembled from N-heterocyclic Carbene-Metal Bonds

Ewa Dudziak (University of Wrocław. Department of Chemistry, Wrocław, Poland), Grzegorz Vetter, Agata Bialonska

21,23-Dimetallaporphyrin - two transition metal ions confined in a standard [18]porphyrin frame

Qiucheng Chen (Technion - Israel Institute of Technology, Haifa, Israel), Zeev Gross

Late Transition Metal Complexes of Sapphyrins and Corroles

Karolina Hurej (University of Wrocław, Poland, Wrocław, Poland), Radomir Myśluborski, Miłosz Pawlicki, Lechosław Latos-Grażyński

Inversion triggered by protonation and unique coordination chemistry of rubyrin with embedded α,β' -pyridine moieties

3. BODIPY Dyes

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Francis D'Souza** - total duration : 60 minutes



Franck Denat (Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France), Christine Goze, Jacques Pliquet, Malorie Privat, Nicolas Maindron, Martin Ipu, Claire Bernhard, Damien Lhenry, Mathieu Moreau, Ewen Bodio, Pierre-Simon Bellaye, Bertrand Collin

BODIPY Derivatives as Versatile Fluorescent Dyes for the Design of Bimodal Imaging Agents

John Mack (Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa), Gugu Kubheka, Jessica Harris, Aviwe May, Zweli Hlatshwayo, Nobuhle Ndebele, Nadine Dubazana, Bokolombe Ngoy, Tebello Nyokong

Optical Limiting Properties of azaBODIPY and BODIPY dyes on the Nanosecond Timescale

Viktor Nemykin (University of Manitoba, Winnipeg, Canada), Yuriy Zatsikha, Liliya Shamova, David Blank

Creating new types of scalable, aza-BODIPY like chromophores: from electron-deficient MB-DIPYs to aza-DIPY-isoindigo hybrids

Sara Ansteatt (University of Maryland Baltimore County, Baltimore, USA), Brian Uthe, Mathew Pelton, Marcin Ptaszek

Strongly Coupled BODIPY Dyads with Multiple Modes of Electronic Interaction for Solar Energy Conversion

Francis D'Souza (Department of Chemistry, University of North Texas, Denton TX, USA) Jivan S. Shinde, Michael B. Thomas, Madhurima Poddar, Rajneesh Misra.

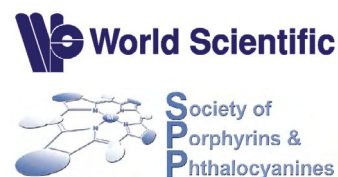
Location of BODIPY Ring Functionalization on Excited State Charge Separation in BODIPY-TCBD-Ferrocene Charge Transfer Systems

47. Award Lectures - total duration : 60 minutes

Zoom Room 1 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

SPP/JPP Young Investigator Awards

Award sponsored by : **World Scientific Publishing Company**
and **The Society of Porphyrins and Phthalocyanines**

**Rui Cao** (Shaanxi Normal University, Xi'an, China)

Molecular Electrocatalysis in Energy-Related Small Molecule Activation
Introduced by: **Wonwoo Nam**

Marina Kuimova (Chemistry Department, Imperial College London, London, United Kingdom)

Mapping microscopic viscosity and temperature using molecular rotors
Introduced by: **Harry Anderson**

Pui-Chi Lo (Department of Biomedical Sciences / City University of Hong Kong, Hong Kong, China)

Development of Activatable Photosensitizing Systems for Targeted Photodynamic Therapy
Introduced by: **Dennis Ng**

31. Charge, Spin, Energy, and Atom Transport in Molecular and Nanoscale Systems

Zoom Room 2 at **07:00 Central Time USA** | **14:00 Central Europe** | **21:00 Japan Standard** | > [CLICK HERE FOR YOUR TIME-ZONE](#) <

Organized by: **Michael Therien** - total duration : **60 minutes**

Dario Bassani (Bordeaux University ISM / UMR5255, Talence, France), Lionel Hirsch, Simon Sandrez, Subha Sadhu, Thierry Buffeteau

Tracking Hydrogen Migration in Hybrid Organic Inorganic Perovskite Materials and Using it to Rapidly Screen Moisture Protective Layers

Francis D'Souza (Department of Chemistry, University of North Texas, Denton, USA), Youngwoo Jang, Habtom B. Gobeze, Ruben Canton-Vitoria, Nikos Tagmatarchis

Excited state charge transfer in tetrapyrrole and BODIPY covalently linked 2D transition metal dichalcogenide hybrids

Pravas Deria (Chemistry and Biochemistry, Carbondale, USA), Jierui Yu, Sreehari Rajasree

Understanding Exciton Migration in Crystalline Porous Molecular Assembly

Marilena Di Valentin (Department of Chemical Sciences, Padova, Italy), Alice M. Bowen, Arnau Bertran, Maria Giulia Dal Farra, Susanna Ciuti, Daniele Panariti, Marta De Zotti, Marina Gobbo, Antonio Barbon, Donatella Carbonera, Christiane Timmel

Light-induced EPR Pulsed Dipolar Spectroscopy: the Porphyrin Probe

Dirk Guldi (Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Erlangen, Germany)

Integrating Subphthalocyanines and Porphyrazines into Singlet Fission

Hiroshi Imahori (Department of Molecular Engineering, Kyoto University, Kyoto, Japan)

Porphyrins for Model Systems and Organic Solar Cells

Ron Naaman (Department of Chemical and Biological Physics, Weizmann Institute of Science, Rehovot, Israel), Francesco Tassinari

Chirality and Electron Spin Polarization- A New Approach Towards Spin Controlled Chemistry

Jean-Hubert Olivier (University of Miami, Coral Gables, USA), Kaixuan Liu, Victor Paulino, Arindam Mukhopadhyay, Brianna Bernard

Molecular Strategies to Regulate the Electronic Properties of π -Conjugated Superstructures

Valentine Vullev (University of California, Riverside, Riverside, USA), Maximillian Mayther, Katarzyna Rybicka-Jasinska

Dipole Effects on the Electronic Properties of Redox Active Chromophores

Martin Kirk (The University of New Mexico, Albuquerque, USA), David A. Shultz

Novel Spin Systems Probe Charge Transport and Spin-Dependent Excited State Processes

21. Chirality and Spatially Pre-Organized Multi-Porphyrinoids

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Victor Borovkov & Nathalie Solladié** - total duration : **60 minutes**

Riina Aav (Tallinn University of Technology, Department of Chemistry and Biochemistry, Tallinn, Estonia)

Self-assembly and chirality induction by hemicucurbiturils to porphyrins

Gema de la Torre (Universidad Autónoma de Madrid, Madrid, Spain), Miguel Angel Revuelta-Maza, Marta Moreno Simoni, Santi Nonell, Tomás Torres

Self-assembly of Chiral Phthalocyanine Amphiphiles

Corrado Di Natale (Department of Electronic Engineering, University of Rome Tor Vergata, Roma, Italy), Manuela Stefanelli, Rosemarie Capuano, Gabriele Magna, Donato Monti, Roberto Paolesse

Exploring the selectivity of porphyrin sensors array

Jonathan Hill (International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan), Mandeep K. Chahal, Daniel T. Payne, Jan Labuta, Yoshitaka Matsushita, Katsuhiko Ariga, Paul A. Karr, Francis D'Souza

Sensing and Organocatalytic Properties of α -Functionalized Oxoporphyrinogens

Norbert Jux (Friedrich-Alexander-Universität Erlangen-Nürnberg, Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Erlangen, Germany), Rebecca Guldi, Dominik Lungerich, Pascal Gazetas, David Reger, Michael Ruppel, Helen Hölzel, Max Martin

Chirality in Porphyrin-Nanographene Conjugates

46. Theory and Spectroscopy

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Nagao Kobayashi & Martin Stillman* - total duration : 60 minutes



Taniyuki Furuyama (Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan), Takashi Ishii

Axial Ligand Effects on Sulfur-Substituted Silicon(IV) Phthalocyanines

Pierre D. Harvey (Département de chimie, Sherbrooke, Canada), Loïc Tanguy

Porphyrins-based materials as efficient donor in organic solar cells

Naoto Ishikawa (Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Japan)

Interaction between f-electronic systems and macrocyclic systems in photo-excited excited states.

Atsuya Muranaka (RIKEN, Wako, Japan), Yusuke Tanaka, Tomotaka Murayama, Eiyu Imai, Masanobu Uchiyama

Ring-Opened Hemiporphyrazines: Helical Molecules Exhibiting Circularly Polarized Luminescence

Jacek Waluk (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland)

Single Molecule Studies of Tautomerism

44. Chemistry and Biology of Corrinoids and Related Compounds

Zoom Room 3 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Dorota Gryko & Felix Zelder** - total duration : **60 minutes**

Robert Doyle (Department of Chemistry Syracuse University, Syracuse, USA), Ian Tinsley, Bart De Jonghe, Matthew Hayes, Tito Borner

'Just a Gut Feeling'- Peptide hormones, nausea and vitamin B₁₂

Yoshio Hisaeda (Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan)

Bioinspired Catalytic Reactions Using Vitamin B₁₂ Derivative

Bernhard Kräutler (Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria)

Transition Metal Analogues of the Natural B₁₂-Derivatives

David Lawrence (Departments of Chemistry, Chemical Biology and Medicinal Chemistry, and Pharmacology, University of North Carolina at Chapel Hill, Chapel Hill, USA), Christina Marvin, Brianna Vickerman, Emilia Zywoot, Victoria Wickenheisser, Emily Rabjohns, Song Ding, Natalia Orlova, Qunzhao Wang, Lauren Haar, Teresa Tarrant

Light-Triggered Drug Delivery via Cell-Conveyed Vitamin B₁₂-Based Therapeutics

Martin Warren (School of Biosciences, University of Kent, Canterbury, United Kingdom)

Synthetic Biology Approaches to the Synthesis of Cobalamin and a Range of Analogues

Yasuyuki Yamada (Research Center for Materials Science/Nagoya University, Nagoya, Japan), Kentaro Tanaka

Supramolecular Approach to Increase the Catalytic Light Alkane Oxidation Activities of μ -Nitrido-Bridged Iron Porphyrinoid Dimer

Wednesday 30 June 2021

11. Novel Pyrrolic Macrocycles and Chromophores

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **John Mack & Zhen Shen** - total duration : **60 minutes**

Bruno Andrioletti (Univ. Lyon, Université Claude Bernard Lyon 1; ICBMS, Villeurbanne, France), Aurélie Rago, Charles Guérin, Eric Framery, Ludivine Jean-Gérard

Applications of New Triazole-Appended Dipyrromethenes: Transition Metal Complexes and Catalysis

Satoru Hiroto (Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, Japan)

pi-Extended helical-shaped pyrroles: Synthesis and redox responsibilities

Nagao Kobayashi (Shinshu University, Ueda, Japan), Joseph Chan, Takahiro Kawata, Dennis Ng

Carbazosubphthalocyanines: Core-Expanded Antiaromatic Subphthalocyanine Analogues

Knut Rurack (Chemical and Optical Sensing Division, Federal Institute for Materials Research and Testing (BAM), Berlin, Germany)

Reaction-based BODIPY dyes as powerful tools in fluorescence sensing applications

Hidemitsu Uno (Ehime University, Matsuyama, Japan)

Benzene-Embedded Doubly N-Confused Porphyrins

Hong Wang (Department of Chemistry University of North Texas, Denton, USA), Yi Hu, Austen Moss, Michael Thomas, Whitney Webre, Francis D'Souza

Acene-Fused Pi-Extended Porphyrins

18. Porphyrin-Based Chemical Sensors

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Marcel Bouvet & Corrado di Natale** - total duration : **60 minutes**

Sergey Borisov (Graz University of Technology, Graz, Austria), Andreas Russegger, Sabrina Püschmann

Spectroscopy and sensing applications of J aggregates based on porphyrins and BODIPY dyes

Nicolas Boscher (Luxembourg Institute of Science and Technology, Belvaux, Luxembourg), Giuseppe Bengasi, Kamal Baba, Marcel Bouvet

Chemical Vapour Deposition of Fused Porphyrin Tapes Thin Films – Molecular Flattening Effect for Enhanced Chemiresistive Sensor Properties

Marcel Bouvet (ICMUB, University of Burgundy, Dijon, France), Seydou Ouedraogo, Rita Meunier-Prest, Abhishek Kumar

Ambipolar gas sensors, the example of octahalogeno-phthalocyanine – based heterojunctions

Agata Michalska (Faculty of Chemistry University of Warsaw, Warsaw, Poland), Ewa Jaworska, Fabrizio Caroleo, Corrado Di Natale, Krzysztof Maksymiuk, Roberto Paolesse

Fluoride Ions Optical Sensing Using Liquid Type Receptors

Roberto Paolesse (Department of Chemical Science and Technologies, University “Tor Vergata”, Rome, Italy), Corrado Di Natale, Rosa Maria Capuano, Gabriele Magna, Donato Monti, Sara Nardis, Manuela Stefanelli

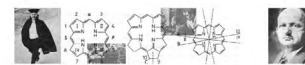
Chemical Sensors: a Challenging Field for Porphyrinoids

Abhishek Kumar (Institut de Chimie Moléculaire de l'Université de Bourgogne (ICMUB), Dijon, France), Rita Meunier-Prest, Marcel Bouvet

Electrografting of aryls to tune the electrical properties and sorption kinetics of phthalocyanine based conductometric gas sensors

47. Award Lectures - total duration : 60 minutesZoom Room 1 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE FOR YOUR TIME-ZONE](#) <

Hans Fischer Career Award in Porphyrin Chemistry for Lifetime Achievements in the Field of Porphyrin Chemistry. Award sponsored by **the Hans-Fischer-Gesellschaft**



Hans-Fischer-Gesellschaft

Dongho Kim (Department of Chemistry, Yonsei University, Seoul, Korea)
Hückel, Möbius, Baird and 3-Dimensional Aromaticity in Various Expanded Porphyrins
Introduced by **Jonathan Sessler**

Linstead Career Award in Phthalocyanine Chemistry for Lifetime Achievements in the Field of Phthalocyanine Chemistry. Award sponsored by **Porphychem**



Tebello Nyokong (Rhodes University, Grahamstown, South Africa)

The Exploration of the Photophysicochemical and Electrochemical Characteristics of Phthalocyanines
Introduced by **Lindokuhle Nene**

30. Catalytic Chemical Transformations by Metalloporphyrins

Zoom Room 2 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Emma Gallo** - total duration : **60 minutes**

Bernard Boitrel (Institut des Sciences Chimiques de Rennes, UMR CNRS 6226, Université de Rennes 1, Rennes, France), Stéphane Le Gac, Hervé Ruffin

Playing with the conformations and aromaticity of tren-capped hexaphyrins

Buddhadeb Chattopadhyay (Division of Molecular Synthesis and Drug Discovery, Centre of Biomedical Research (CBMR), Lucknow, India)

Denitrogenative Transannulation Via Metalloradical Activation Mechanism

Emma Gallo (Department of Chemistry, Milan, Italy), Caterina Damiano, Paolo Sonzini

Activity of Porphyrin Catalysts in Promoting the Formation of Biologically Relevant Heterocyclic Compounds

John T. Groves (Department of Chemistry Princeton University, Princeton, USA)

Selective C-H Activation via Heteroatom Rebound Catalysis

26. From Light Harvesting to Charge Separation and Charge Transport

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Francis D'Souza & Dirk Guldi** - total duration : 60 minutes

Giovanni Bottari (Departamento de Química Orgánica, Madrid, Spain), Giulia Lavarda, Julia Guilleme, Luis Mateo, Tomas Torres, Kim Winterfeld, Dirk Guldi

Porphyrinoid-Based Donor-Acceptor Conjugates containing Tetracyanobuta-1,3-diene or Cyclopenta[hi]aceanthrylene: Synthesis, Structure, and Physicochemical Properties

Prashanth Poddutoori (Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA), Niloofar Zarrabi, Brandon Bayard, Noah Holzer, Gary Lim, Sairaman Seetharaman, Art van der Est, Francis D'Souza

Aluminum(III) Porphyrins in Artificial Photosynthesis

Angela Sastre-Santos (Instituto de Bioingeniería, Elche, Spain), Jorge Follana-Berna, Sairaman Seetharaman, Fernando Fernandez-Lazaro, Francis D'Souza

Synthesis and Photophysical Studies of Supramolecular Complexes of Phthalocyanine-Pyrazine-Pyrene with C60

Michael Therien (Duke University, Durham, USA), Ting Jiang, Yusong Bai, Qiwei Han, Peng Zhang, David Mitzi

Ultrafast Electron Transfer between Fe compounds and Porphyrin Complexes Provides Long-Lived MLCT Chromophores Based on Earth-Abundant Metals

Nikolai Tkachenko (Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland)

Electron Transfer in Molecular and Hybrid Donor-Acceptor Systems: What Does Control the Rate of Electron Transfer?

Art van der Est (Dept. of Chemistry, Brock University, St. Catharines, Canada), Prashanth Poddutoori, Yuri Kandrashkin, Christopher Obondi, Francis D'Souza

Electron Spin Polarization in Porphyrin-Based Donor Acceptor Dyads and Triads

32. Porphyrin Derivatives for Medical/Biological Applications

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Claude P. Gros** - total duration : 60 minutes



Theresa Busch (Dept. of Radiation Oncology, University of Pennsylvania, Philadelphia, USA)

Translational Studies of Photodynamic Therapy for Superficial Application: from Premalignant Disease to Surgical Margins

Valérie Heitz (Laboratoire LSAMM Institut de chimie de Strasbourg, Strasbourg, France)

Near-infrared photosensitizers for PDT and theranostic applications

Maria da Graça P. M. S. Neves (Department of Chemistry, University of Aveiro, Aveiro, Portugal), Nuno M.M. Moura, Kelly A.D.F. Castro, Carla I.M. Santos, Mariana C. S. Vallejo, Sofia G. Serra, Vanda V. Serra, A. Almeida, A Cunha, M.Amparo F. Faustino, M. Graça P.M.S. Neves

An insight on tetrapyrrolic macrocycles functionalization for biological/biomedical applications

Maria (Mariette) Pereira (University of Coimbra, Coimbra, Portugal)

Cationic Imidazolyl Photosensitizers – Highly Efficient Molecules for Photodynamic Inactivation of Multidrug-resistant Bacteria and Biofilms

Anu Puri (RNA Biology Laboratory, Center for Cancer Research, National Cancer Institute-Frederick, National Institutes of Health, Frederick, USA), Mathias Viard, Paul Zakrevsky, Upendra Chitgupi, Jonathan F. Lovell, Bruce A. Shapiro, Kowthavarapu V. Krishna, Sunil K. Dubey, Ranendra N. Saha, Farukh A. Durrani, Aimee J. Marko, Ravindra K. Pandey

Photosensitive Cancer Nanomedicine for Enhanced Delivery of Small Molecule Drugs and RNAi Therapeutics

Mathias O. Senge (School of Chemistry, Trinity College Dublin, The University of Dublin, Dublin, Ireland)

Shape, Conformation and Function of Porphyrins

José Almeida (LAQV-REQUIMTE, Dept. of Chemistry and Biochemistry, University of Porto, Portugal), Guanyu Zhang, Maodie Wang, Carla Queirós, Ana Cerqueira, Augusto Tomé, Giampaolo Barone, Graça Vicente, Ana Silva, Maria Rangel

Indomethacin-Porphyrin Conjugates as Photosensitizers for Photodynamic Therapy of Cancer

Edith Amuhaya (School of Pharmacy and Health Sciences United States International University - Africa, Nairobi, Kenya), James Oyim, Margaret Murage, Solomon Derese, John Mack, Tebello Nyokong

Development of Photoactive Materials for Water Decontamination Using Photodynamic-Antimicrobial Chemotherapy

Miryam Chiara Malacarne (Department of Biotechnology and Life Sciences (DBSV), University of Insubria,, Varese, Italy), Enrico Caruso, Marzia Bruna Gariboldi, Francesca Giuntini

Peptide-porphyrin aggregate targeting TNBC

Rodah Soy (Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Grahamstown, South Africa), Balaji Babu, David Oluwole, Njemuwa Nwaji, James Oyim, Edith Amuhaya, Earl Prinsloo, John Mack, Tebello Nyokong

Photophysical properties and photodynamic therapy activity of chloroindium(III) tetraarylporphyrins and their gold nanoparticle conjugates

39. Antimicrobial Photodynamic Therapy

Zoom Room 3 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Reza Ghiladi** - total duration : **60 minutes**



Adelaide Almeida (University of Aveiro, Aveiro, Portugal), Lucia Marciel, Vera Sousa, Patrícia Santos, Ana Peixoto, Graça Neves, Amparo Faustino

Photodynamic Disinfection of Blood: Inactivation of Bacteria, Fungi and Viruses

Tianhong Dai (Wellman Center for Photomedicine Massachusetts General Hospital Harvard Medical School, Boston, USA)

Antimicrobial Blue Light Inactivation of Pathogenic Microbes: State of the Art

Reza Ghiladi (Department of Chemistry North Carolina State University, Raleigh, USA), Chenyu Jiang, Frank Scholle

Photodynamic Materials for Infection Prevention in Hospital Environments

Stéphanie Leroy-Lhez (PEIRENE Laboratory University of Limoges, Limoges, France), Nidia Maldonado-Carmona, Guillaume Marchand, Nicolas Villandier, Claude A. Calliste, Tan S. Ouk, Gabin Fabre, Mario J.F. Calvete, Mariette M. Pereira

Conjugating lignins with photosensitizers for Photodynamic Antimicrobial Chemotherapy

Vincent Sol (University of Limoges, Laboratoire PEIRENE EA 7500, Limoges, France), Florent Le Guern, Abdechakour El Kihel, Tan-Sothéa Ouk

Photosensitizers-peptide complexes and photosensitizers coupled with poly or oligosaccharides for antimicrobial photodynamic therapy applications

Qingqing Wang (Key Laboratory of Eco-textiles, Ministry of Education, Jiangnan University, Wuxi, China), Huiying Shen, Chenyu Jiang, Qufu Wei, Reza A Ghiladi

Potentiation of Photoactive Anti-microbial Materials

Anzhela Galstyan (Center for Soft Nanoscience Westfälische Wilhelms-Universität Münster, Münster, Germany), Konstantin Stokov, Ulrich Dobrindt

Facile fabrication of antifouling interfaces with phototriggered toxicity

Yolande Openda (Institute for Nanotechnology Innovation/ Department of Chemistry/ Rhodes University, Grahamstown, South Africa), Pinar Sen, Muthumuni Managa, Tebello Nyokong*

Phthalocyanine-Carbon Nanomaterials Conjugates as Photosensitizers in Photodynamic Antimicrobial Chemotherapy

Thursday 1 July 2021

20. Self-assembly of Tetrapyrroles in Biomaterials

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Athanassios G. Coutsolelos & Francesca Giuntini* - total duration : **60 minutes**

Harry Christopher Fry (Center for Nanoscale Materials Argonne National Laboratory, Lemont, USA)

Control of Electronic and Photophysical Properties of Porphyrins in Peptide Assemblies

Antonino Mazzaglia (CNR-ISMN c/o Dip. Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università di Messina, Messina, Italy), Roberto Zagami, Luigi Monsù Scolaro

Bio-soft Nanotherapeutics based on Self-assembly of Photosensitisers and Cyclodextrins

Lluisa Perez-Garcia (School of Pharmacy, University of Nottingham, Nottingham, United Kingdom), Mario Samperi, Gordon Bruce, Paola Sanjuan-Alberte, Akhil Jain, Frankie J. Rawson, David B. Amabilino, Marta Duch, José A. Plaza, Kristofer J Thurecht, María E. Alea-Reyes, David Limón

Nanoarchitectures for Enhanced Singlet Oxygen Generation and Wireless Intracellular Communication

Petr Zimcik (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Hradec Kralove, Czech Republic), Jiri Demuth, Veronika Novakova, Miroslav Miletin

Self-assembly of Azaphthalocyanine-Oligodeoxynucleotide Conjugates into J-dimers

23. Porphyrinoid Biohybrid Materials for Light Management Applications

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Andres de la Escosura Navazo* - total duration : **60 minutes**

Fabienne Dumoulin (Acıbadem Mehmet Ali Aydınlar University, Faculty of Engineering, Istanbul, Turkey)

Phthalocyanines: molecular, nano and supramolecular photosensitisers for photodynamic therapy of cancer

Johannes Elemans (Radboud University, Institute for Molecules and Materials, Nijmegen, Netherlands)

Catalytic Allosteric Porphyrin Cage Assemblies

Miguel García-Iglesias (a) Department of Organic Chemistry, Universidad Autónoma de Madrid (UAM), Calle Francisco Tomás y Valiente, 7, 28049 Madrid, ES. b) IMDEA Nanociencia, c/ Faraday 9, Cantoblanco, 28049, ES., Cantoblanco (Madrid), Spain), Nicolás M. Casellas, Alba Fonseca, Tomás Torres

Towards multivalent supramolecular scaffolds for photodynamic therapy and other biomedical applications.

Leandro M. O. Lourenço (Department of Chemistry of University of Aveiro, Aveiro, Portugal)

Versatile phthalocyanine dyes for photoinactivation of microorganisms

Jonathan Lovell (State University of New York at Buffalo, Buffalo, USA)

Structured Porphyrins for Drug and Vaccine Delivery

Dennis Ng (Chemistry/ The Chinese University of Hong Kong, Hong Kong, China), Junlong Xiong, Ying-Kit Cheung, Clarence Wong, Wing-Ping Fong

Selective Photodynamic Eradication of Senescent Cells with beta-Galactosidase-Activated Photosensitizers

Sixolile Centane (Rhodes University, Grahamstown, South Africa), Tebello Nyokong

The Antibody Assisted Detection of Human Epidermal Growth Factor Receptor on a Cobalt Porphyrin Organic Framework and Gold - Graphene Quantum Dots Modified Electrode.

Hirofumi Matsui (University of Tsukuba, Faculty of Medicine, Tsukuba, Japan), Hiromi Kurokawa

The cytotoxicity of PDT is enhanced by hyperthermia via regulation of HCPI and ABCG2 expressions.

Nnamdi Nwahara (Institute for Nanotechnology Innovation, Department of Chemistry, Makhanda, South Africa), Muthumuni Managa, Earl Prinsloo

Oxygen Self-Sufficient Liposomal Systems for Photodynamic Therapy.

47. Award Lectures - total duration : 60 minutes

Zoom Room 1 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Thomas Dougherty Award for Excellence in PDT For Lifetime Achievements in the Field of Photodynamic Therapy. *Award sponsored by Roswell Park Comprehensive Cancer Center*



Tayyaba Hasan (Wellman Center for Photomedicine, Massachusetts General Hospital and Harvard Medical School, Boston, USA).

Optically Activated Nanomedicines: Photodynamic Activation as a Priming and Imaging Tool

Introduced by: Ravi Pandey - Roswell Park Comprehensive Cancer Center

Robert Burns Woodward Career Award in Porphyrin Chemistry for Lifetime Achievements in the Field of Porphyrin Chemistry. *Award sponsored by the Sessler Family Trust*

Sessler Family Charitable Trust

Brian M. Hoffman (Chemistry/Northwestern University, Evanston, USA)

A Random Walk Among the Porphyrins

Introduced by: Anabella Ivancich

27. Porphyrinoids for Solar Cells

Zoom Room 2 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Hiroshi Imahori & Hong Wang** - total duration : **60 minutes**

Hwan Kyu Kim (Department of Advanced Materials Chemistry/Korea University, Sejong, Korea), Haoran Zhou, Jeong Min Ji

Zn-Porphyrin Sensitizers for Superior Performance Dye-Sensitized Solar Cells: Synthesis and Molecular Engineering

Hiroko Yamada (Nara Institute of Science and Technology, Ikoma, Japan), Eunjeong Jeong, Mitsuharu Suzuki, Naoki Aratani

Orbital-Energy Modulation of Tetrabenzoporphyrin for Application as Non-Fullerene Acceptor in Organic Solar Cells

Tatyana Lomova (G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences/Department Laboratory of Synthesis and Reactivity of Metalloporphyrins in Solutions, Ivanovo, Russia), Tatyana Lomova, Natalia Bichan, Elena Motorina, Victor Korolev, Anna Ramazanova

New Metalloporphyrin/Phthalocyanine - Nanocarbon Coordination Complexes for SM-OSC

Ana Mafalda Pereira (Faculdade de Engenharia - Universidade do Porto, Porto, Portugal), Melani J. A. Reis, Ana Teresa Nogueira, Ana Eulálio, Nuno M. M. Moura, Maria G. P. M. S. Neves, Adélio Mendes

Porphyrins bearing mixed nitrogenated donors as hole transport materials to perovskite solar cells

28. Photo- and Electro-Catalytic Processes

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Zeev Gross** - total duration : **60 minutes**

Dorota Gryko (Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland)

Vitamin B₁₂ – A Bioinspired Catalyst for Organic Reactions Induced by Visible Light

Koji Oohora (Department of Applied Chemistry/Osaka University, Suita, Japan), Ayumu Ogawa, Koji Oohora

Electrochemical CO₂ Reduction and H₂ Evolution by Cobalt Porphyrinoids

Jose H, Zagal (Univeridad de Santiago de Chile, Santiago, Chile), Ingrid Ponce, Ruben Oñate, Ana Orellana, Federico Tasca, Marco Vieira, Cesar Zúñiga, Ricardo Venegas, Francisco Javier Recio, Maria Paz Oyarzún

Biomimetic O₂ Reduction at Metal Phthalocyanines bearing Axial Ligands Grafted to Carbon Nanotubes and SAMs on Gold.

Tomoya Ishizuka (Department of Chemistry, Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan), Keiyu Komamura, Yuta Saegusa, Takahiko Kojima

Redox Properties of Transition Metal Complexes Bearing a Quadruply Fused Porphyrin Ligand

Siphesihle Robin Nxele (Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Makhanda, South Africa), David Oluwole, Tebello Nyokong

The Use of Push Pull Co(II) Phthalocyanine in the Presence of Graphitic Carbon Nitride Quantum Dots for the Electrooxidation of L-cysteine

37. Tumor Targeting Agents for (Multi)Modal Imaging and Theranostics

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Franck Denat & Jonathan Lovell** - total duration : 60 minutes



Ali Azhdarinia (Institute of Molecular Medicine/The University of Texas Health Science Center at Houston, Houston, USA), Servando Hernandez Vargas, Christie Lin, Sukhen Ghosh, Solmaz AghaAmiri, Julie Voss, Adam Uselmann

Optimizing the Imaging Parameters of a Multimodal Somatostatin Analog for Fluorescence-Guided Surgery

Richard Decréau (University of Bourgogne Franche Comté ICMUB Institute, Dijon, France), Vivian Lioret, Yann Bernhard, Pierre-Simon Bellaye, Bertrand Collin

Cherenkov Radiation enters the Realms of Preclinical Studies and Porphyrins

Christine Goze (ICMUB, University of Burgundy, Dijon, France), Amelie Godard, Robin Lescure, Jacques Pliquet, Malorie Privat, Franck Denat, Lucie Sancey, Catherine Paul, Ewen Bodio

Water-soluble aza-BODIPY platforms for NIR I and NIR II in vivo optical imaging and trackable therapeutics

Sanne van Lith (Radboud University Medical Center/Radiology and Nuclear Medicine, Nijmegen, Netherlands), Sandra Heskamp, Martin Gotthardt, Mark Rijpkema

Intra-Operative Theranostics using Multimodal Tumor-Targeting Agents for Radioguidance, Fluorescence Imaging and Photodynamic Therapy of Tumors

Bryan Spring (Department of Physics Northeastern University, Boston., USA)

Single tumor biomarker-targeted and cell-activated photoimmunotherapy and its development towards multiplexed precision photomedicine

Yvonne Derks (Department of Radiology and Nuclear Medicine, Radboudumc, Nijmegen, Netherlands), Helene Amatdjais-Groenen, Annemarie Kip, Jill van der Kamp, Dennis Lowik, Mark Rijpkema, Susanne Lutje, Sandra Heskamp

Intraoperative imaging and targeted photodynamic therapy of prostate cancer using [¹¹¹In]In-DOTAGA-IRDye700DX-PSMA ligand

Sara Pinto (Coimbra Chemistry Center, University of Coimbra, Coimbra, Portugal, Coimbra, Portugal), Vanessa Tomé, Peter Gawne, Rafael Rosales, Antero Abrunhosa, Carlos Gerales, Mariette Pereira

New Tetrapyrrolic Macrocycles for Medical Imaging: Synthesis and Evaluation

Vinay Sharma (Technion-Israel Institute of Technology, Haifa, Israel), Zeev Gross

pH-Responsive Nanoconjugates of Corroles for Targeted Bioimaging and Enhanced PDT/SDT

38. Molecular-Targeted Photomedicine for Precision Therapy

Zoom Room 3 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Bryan Q. Spring** - total duration : **60 minutes**

Scott Davis (Thayer School of Engineering Dartmouth College, Hanover, USA)

Imaging strategies for quantifying delivery and engagement of targeted agents



Sabrina Oliveira (Cell Biology, Neurobiology and Biophysics, Department of Biology Pharmaceutics, Department of Pharmaceutical Sciences, Faculty of Science, Utrecht University, Utrecht, Netherlands)

Nanobody-Targeted Photodynamic Therapy: From Nanobody Development to Preclinical Testing

Cornelus van Nostrum (Dep. Pharmaceutics, Utrecht University, Utrecht, Netherlands), Yanna Liu, Wim Hennink

Stable Photosensitizer Encapsulation In Vivo: Towards Targeted Nanoformulations

Srinivas Banala (Inst of Organic Chemistry & Inst for Experimental Molecular Imaging RWTH Aachen University, Aachen, Germany), Jean Michel Merkes, Magnus Rueping, Fabian Kiessling

Tuning the Stokes shift of BODIPY fluorophores for STED microscopy applications

Friday 2 July 2021

7. Natural Porphyrinoid Pigments

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Bernhard Kräutler & Franz-Peter Montforts** - total duration : **60 minutes**

Bernard Golding (School of Natural & Environmental Sciences, Newcastle upon Tyne, United Kingdom)

Impossible Reactions: To B₁₂ or Not To B₁₂?

Chengjie Li (East China University of Science & Technology, Shanghai, China)

On Phylloseobilins - the Red Catabolites of Chlorophyll

Franz-Peter Montforts (Institute of Organic and Analytical Chemistry, University of Bremen, 28334 Bremen, Germany), Daniela Bauer, Ulf Conrad-Fletemeyer, Johannes Stelten, Helmut Görner, Alicja Ratuszna

Chlorophyll a - A Valuable Platform for Synthesis of Tailor-Made Photosensitizers

Simone Moser (LMU, Pharmaceutical Biology, Munich, Germany), Cornelia Karg, Pengyu Wang, Angelika Vollmar

Investigating the Bioactivities of Phylloxanthobilins, Abundant Natural Products Derived from Chlorophyll

Felix Zelder (UZH, Zurich, Switzerland), Christopher Brenig, Leila Mahmoudi, xuecong Li

A Nickel Containing Cobalamin as Biomimetic Model of Cofactor F430

2. Synthesis and Properties of Phthalocyanines and Related Compounds

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Tomàs Torres, Andrew Cammidge, Gema de la Torre & Miguel García-Iglesias** - total duration : 120 minutes



Andrew Cammidge (School of Chemistry University of East Anglia, Norwich, United Kingdom), Faeza Alkorbi, Alejandro Diaz-Moscoso, Jacob Gretton

Regiospecific synthesis of ABBA-C Tetrabenzotriazaporphyrins

Athanassios G Coutsolelos (Chemistry Department, Heraklion, Greece), Emmanouil Nikoloudakis, Vasilis Nikolaou, Konstantina Mitropoulou, Georgios Charalambidis, Anna Mitraki

Hydrogel formation through the self-assembly of dipeptide-chromophore hybrids

Andres de la Escosura (Universidad Autonoma de Madrid, Madrid, Spain), Eduardo Anaya-Plaza, Veronica Almeida-Marrero, Ana Aljarilla, Asma Rahali, Mauri kostiainen, Tomas Torres

Merging Sugars and DNA Origami with Phthalocyanines Towards Biohybrid Third-Generation Photosensitizers

Fernando Fernández-Lázaro (Instituto de Bioingeniería, Universidad Miguel Hernández de Elche, Elche, Spain), Valeria Navarro-Pérez, Ana María Gutiérrez-Vílchez, Javier Ortiz, Ángela Sastre-Santos, M. J. Duffy, Paul A. Karr, Sairaman Seetharaman, Francis D'Souza

Synthesis and Photophysical Study of Phthalocyanine-Benzoperylene-triimide Systems

Sergiu M. Gorun (Department of Chemistry and Biochemistry & Center for Functional Materials, Seton Hall University, South Orange, USA), Marius Pelmuş

Fluorinated Phthalocyanines with Different Degrees of Perfluoroalkylation: Synthesis, X-ray Structures, Applications

Mikhail Islyaikin (IRLoN, Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Yana Philippova, Evgenii Ivanov, Oskar Koifman, Veronica Almeida, Tomas Torres

Hemihexaphyrzines as Building Blocks for the Synthesis of New Molecular Ensembles

Janarthanan Jayawickramarajah (Department of Chemistry Tulane University, New Orleans, USA), Pravin Pathak

Photonic BioSupramolecular Systems: Exploiting Nucleic Acid and Host-Guest Chemistries

Daniel Leznoff (Department of Chemistry, Simon Fraser University, Burnaby, Canada)

Redox-active Early Transition-metal and f-block Phthalocyanines

Saad Makhseed (Kuwait University, Kuwait, Kuwait), Basma Ghazal, Asaithampi Ganesan, Ali Husain

The new route to non-aggregating phthalocyanine based molecular platforms - submitted to the International Conference on Porphyrins and Phthalocyanines

G. Dan Pantos (University of Bath, Bath, United Kingdom), Dora M. Rasadean, Tiberiu M. Gianga, Louis J. Calcutt

Chiral Phthalocyanines: Synthesis, Properties and On-surface Assemblies

M. Salome Rodriguez-Morgade (Universidad Autonoma de Madrid, Madrid, Spain), Esmeralda Caballero, David Guzmán, Elena Cañizares, Tomás Torres

Tuning the optical and redox properties of Subporphyrzines

David Sánchez-García (Grup d'Enginyeria de Materials, Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain), Gabriel Martínez-Edo, Iris Pontón, Summer Y. Y. Ha, Dennis K. P. Ng, Tomás Torres, Salvador Borrós

Preparation and Biological assessment of a Mesoporous Silica Nano-container for the Dual Delivery of Chemotherapeutic and Photodynamic Agents

2. Synthesis and Properties of Phthalocyanines and Related Compounds *continued*

Rafael T. Aroso (Coimbra Chemistry Center, University of Coimbra, Coimbra, Portugal), Mario J. F. Calvete, Andreia C. S. Gonzalez, Vanessa A. Tome, Liliana Damas, Rui M. B. Carrilho, Mariette M. Pereira
Sustainable Methodologies for the Synthesis of Metallophthalocyanines

Balaji Babu (Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Makhanda, South Africa), Earl Prinsloo, Tebello Nyokong, John Mack
Synthesis, characterization and photodynamic activity of Sn(IV) triarylcorroles with red-shifted Q bands

Zeynep Dalkilic (Istanbul Technical University, Istanbul, Turkey), Cheong B. Lee, Hyosung Choi, Nilgun K. Yavuz, Ayfer K. Burat
Production of inverted type-perovskite solar cells with phthalocyanine-based hole transporting materials through tetra and octa peripheral groups

Jorge Labella (Organic Chemistry Department/ Universidad Autónoma de Madrid, Madrid, Spain), Gonzalo Durán, M. Victoria Martínez-Díaz, Tomás Torres
Annulative [pi]-Extension of BODIPYs Made Easy via Metal-Catalyzed Cycloisomerization

Ryan Osterloh (University of Houston, Department of Chemistry, Houston, USA), Sandeep Kumar, Nivedita Chaudhri, Yuanyuan Fang, Muniappan Sankar, Karl M. Kadish
Electrosynthesis and Characterization of β -Extended Porphyrins formed via Reductive Decyanation

Evgeniya Safonova (IPCE RAS, Moscow, Russia), Filipp Kolomeychuk, Ivan Meshkov, Yulia Gorbunova, Aslan Tsivadze
Phosphorous (V) Phthalocyanines as Novel Photosensitizers for PDT

15. Radicals in Porphyrins and Related Compounds

Zoom Room 2 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Satoru Hiroto** - total duration : **60 minutes**

Willi Auwärter (Technical University of Munich, Garching, Germany)

On-Surface Reactions of Porphyrins

Yoshihiro Matano (Department of Chemistry, Faculty of Science, Niigata University, Niigata, Japan)

Air-stable 19π Radicals of 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids and Related Derivatives

Akiharu Satake (Department of Chemistry, Faculty of Science Division II, Tokyo University of Science, Tokyo, Japan)

Photo-Electrochemistry and Supramolecular Organization of Porphyrin Macrorings Composed of Free-Base or Metallo Porphyrins and Slipped-Cofacial Zinc Porphyrin Dimers

Soji Shimizu (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Akihide Nishiyama, Yuki Tanaka, Jun Nagano, Hiroyuki Furuta

Antiaromatic 5,15-Dioxaporphyrin and Its Redox Behaviors

Elisa Tomat (University of Arizona Department of Chemistry and Biochemistry, Tucson, USA), Andrei Astashkin, Clayton Curtis, Ameen Ghavam, Iva Habensus

Unpaired Spins on Linear Heme Metabolites: Redox Chemistry and Fluorescence Emission

12. Advances in the Chemistry of Porphyrazines (Substituted and Annulated)

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Pavel Stuzhin & Petr Zimcik** - total duration : 60 minutes



Irina V. Balalaeva (Institute of Biology and Biomedicine, Lobachevsky University, Nizhny Novgorod, Russia), Natalia N. Shilyagina, Nina N. Peskova, Svetlana A. Lermontova, Larisa G. Klapshina, Vladimir I. Plekhanov

Porphyrazines with high viscosity sensitivity: the potential for personalized photodynamic treatment of cancer

Sandra Belviso (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy)

Thioalkyl-Porphyrazines for Electronic Materials

Tomasz Goslinski (Department of Chemical Technology of Drugs Poznan University of Medical Sciences, Poznan, Poland)

Hybrid Materials Consisting of Titanium(IV) Oxide and Porphyrinoids - their Physicochemical Properties and Potential Applications

Pavel A. Stuzhin (Department of Organic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Mahmoud Hamdoush, Ivan Skvortsov, Uliana Kovkova, Yurii A. Zhabanov, Nikolai V. Somov, Georgii L. Pakhomov

Polyhalogenated Subporphyrazines with Fused [pi]-Electron-Deficient Heterocycles

14. Chiral Aspects of Porphyrin Supramolecular Chemistry

Zoom Room 2 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Nina Berova & Roberto Purrello** - total duration : **60 minutes**

Babak Borhan (Michigan State University, East Lansing, USA), Mercy Anyka, Hadi Gholami, Debarshi Chakraborty, Saeedeh Torabi Kohlbouni

Porphyrin Substituted Biphenols as Reporters of Absolute Stereochemistry

Maria Angela Castriciano (CNR-ISMN, Messina, Italy), Roberto Zagami, Mariachiara Trapani, Andrea Romeo, Luigi Monsu' Scolaro

Symmetry Breaking in Supramolecular Porphyrin J-Aggregates

Alessandro D'urso (Dipartimento di Scienze Chimiche, Università degli Studi di Catania, Catania, Italy), Rosalba Randazzo, Massimiliano Gaeta, Maria Elena Fragalà, Roberto Purrello

New insight in the chirality of J-aggregates of TPPS

Sankar Prasad Rath (Indian Institute of Technology Kanpur, Kanpur, India)

Induction, Control and Rationalization of Supramolecular Chirogenesis using Metalloporphyrin Tweezers: A Structure-Function Correlation

34. Porphyrinoids-Based Nanoparticles for Health

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Fabienne Dumoulin & Vincent Sol* - total duration : 60 minutes



Janusz Dabrowski (Faculty of Chemistry, Jagiellonian University, Krakow, Poland)

Nanoformulated bacteriochlorins as highly efficient NIR-absorbing photosensitizers for photodynamic therapy (PDT)

Francesca Giuntini (Liverpool John Moores University, Liverpool, United Kingdom), Jack Mockridge, Ana T. Gomes, Alessandro Pozzoli, Maria A. F. Faustino, Adelaide Almeida

Photoantimicrobial activity of porphyrin-functionalised bioactive glass scaffolds

Michael Kolios (Department of Physics, Faculty of Science, Ryerson University, Toronto, Canada)

Probing biomedical samples with photoacoustics using endogenous and exogenous chromophores

Indranil Roy (Chemistry, Evanston, USA), J. Fraser Stoddart

A Supramolecular Approach for Modulated Photoprotection, Lysosomal Delivery and Photodynamic Activity of Porphyrin

Gang Zheng (University of Toronto/Princess Margaret Cancer Centre, Toronto, Canada), Michael Valic, Juan Chen

Porphysome Nanotechnology – the Road to Clinical Translation

Jonathan Britton (Rhodes University Chemistry Department, Grahamstown, South Africa), Refilwe Matshitse, Bokolombe Ngoy, Muthumuni Managa, John Mack, Samson Khene, Tebello Nyokong

The use of Detonation Nanodiamonds for Optical Limiting and Photodynamic Therapy

Martina Vermathen (Department of Chemistry and Biochemistry University of Bern, Bern, Switzerland), Max Meier, Ilche Gjuroski, Peter Vermathen, Julien Furrer

Exploring the Potential of Bicelles as Carriers for Porphyrinic Photosensitizers in Topical PDT

Il Yoon (Center for Nano Manufacturing and Department of Nanoscience and Engineering, Inje University, Gimhae, Korea), Yang Liu, Min Seob Lee, Sang Hyeob Lee, Hyeon Ho Song, Woo Kyoung Lee, Yeon-Jeong Kim

Water-Soluble Organic Nanoparticles with Chlorin Derivative for Biocompatible Photodynamic Therapy In Vitro and In Vivo

35. Photodynamic Therapy: Basic Sciences and Clinical Research

Zoom Room 3 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Ravindra Pandey & Anu Puri** - total duration : 60 minutes



David Kessel (Pharmacology, Wayne State University School of Medicine, Detroit, USA)

Targeting as a Determinant of PDT Efficacy

Srivalleesha Mallidi (Tufts University, Medford, USA), Marvin Xavierselvan, Amjad Khan, Zhiming Mai, Tayyaba Hasan

Photoacoustic imaging for personalizing cancer treatment strategies and predicting recurrence

Thomas Mang (Pinnacle Biologics, Bannockburn, USA), Stephen Rogers, Andy Wagh, Kiyo Honma

Confocal and IR Analysis of Anti-Microbial Photodynamic Therapy Effects on Biofilm

Chumy Nwogu (Thoracic Surgery Department, Roswell Park Comprehensive Cancer Center, Buffalo, USA), Natalie Fordjour, Sarah Chamberlain, Wei Tan, Mark Hennon, Elisabeth Dexter, Anthony Picone, Todd Demmy, Saikrishna Yendamuri, Gal Shafirstein

Intraoperative Adjuvant Photodynamic Therapy for Resectable Non-Small Cell Lung Cancer

Ulas Sunar (Biomedical Engineering, Dayton, USA)

Monitoring and Prediction of Light Therapy Response with Optical Imaging

Bernhard Spingler (University of Zurich, Zurich, Switzerland)

Transplatination improves the phototoxic index of photosensitizer for photodynamic therapy (PDT)

Adiki Raja Sekhar (School of Plant Sciences and Food Security, Tel Aviv, Israel), Youhei Chitose, Petr klán, Roy Weinstain

Porphyrins – A Novel Scaffold for Photoprotecting Groups

36. Translational Research and NIH funding Opportunities

Zoom Room 3 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **David Kessel** - total duration : **60 minutes**



Merrill Biel (Dept. of Otolaryngology-Head and Neck Surgery University of Minnesota, Minneapolis, USA)

Clinical Photodynamic Therapy: What is the Pathway to Acceptance and Widespread Clinical Application

Deepa Narayanan & Reema Railkar (National Cancer Institute, Rockville, USA)

Funding and non-funding resources for next-generation life science technologies at the National Cancer Institute

Ravindra Pandey (Roswell Park Comprehensive Cancer Center., Buffalo, USA)

Multifunctional Agents for Cancer- Imaging and Therapy

Rosemary Wong (National Cancer Institute, Rockville, USA)

Tips for Receiving NIH Funding and FDA Support for Translational Research

Saturday 6 July 2021

1. SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids

Zoom Room 1 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **M. Salomé Rodríguez-Morgade, Atsuhiko Osuka & Soji Shimizu** - total duration : **60 minutes**

Timothy Bender (Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada), Devon Holst

Progress in Boron Subnaphthalocyanines (BsubNcs) - Targeting Bay Position Halogenation and Avoiding It.

M. Victoria Martínez Diaz (Organic Chemistry Universidad Autonoma Madrid, Madrid, Spain), Lara Tejerina, Jorge Labella, Tomas Torres

New axial and peripheral reactivity in Subphthalocyanines

Mogens Brondsted Nielsen (Department of Chemistry, University of Copenhagen, Copenhagen, Denmark)

Acetylenic Scaffolding with Subphthalocyanines

Tomas Torres (Universidad Autonoma Madrid, Madrid, Spain), Miguel Martínez-García, Jorge Labella, Giulia Lavarda, Giovanni Bottari, Johannes Zirzmeier, Ilias Papadopoulos, Dirk M. Guldi

Particular Aspects of Subphthalocyanines: Chirality, Supramolecular Organization and Single Fission

Christopher Ziegler (Department of Chemistry University of Akron, Akron, USA), Briana R. Schrage, Victor N. Nemykin

Closing a Phthalocyanine Analog with a Hydrogen Bond

Mariana Hildebrand (Dept. of Materials and Interfaces, Rehovot, Israel), Devon P. Holst, Leeor Kronik, Timothy Bender

Toward an Experimentally Validated Computational Model of the Stability of Boron Subphthalocyanines

Devon Holst (Chemical Engineering and Applied Chemistry. University of Toronto, Toronto, Canada), Timothy P. Bender

Bay position brominated boron subnaphthalocyanines

Tatiana Dubinina (Department of Chemistry/Moscow State University, Moscow, Russia), Andrei Starikov, Elizaveta Petrusevich, Anastasia Artemova, Pavel Tarakanov, Victor Pushkarev

Novel pi-Extended Analogues of Subphthalocyanines: Synthesis and Optical Properties

Ivan Skvortsov (Organic Chemistry Department, Ivanovo State University of Chemistry & Technology, Ivanovo, Russia), Petr Zimcik, Pavel Stuzhin, Veronika Novakova

pH-Sensitive subphthalocyanines and subazaphthalocyanines

Rahul Soman (School of Chemistry, University of Hyderabad, Hyderabad, India), Brijesh Chandra, B. Sathish Kumar, K. V. Jovan Jose, Pradeepta K. Panda

Introduction of a Versatile PDT Photosensitizer: Meso- Diester Boron(III)subchlorins and its μ -oxo Dimer

19. Porphyrin and Biomolecules: A Long-Lasting Friendship

Zoom Room 1 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Alessandro D'Urso** - total duration : **60 minutes**

Hiromu Kashida (Nagoya University, Nagoya, Japan)

Precise control of dye interaction by using D-threoninol scaffold

Giorgia Oliviero (Department of Molecular Medicine and Medical Biotechnologies, Napoli, Italy), Andrea Falanga, Nicola Borbone, Gennaro Piccialli, Alessandro D'Urso, Roberto Purrello

Porphyryns Meet G-Quadruplex DNA: Investigation of the Binding Mode with Selected G-Quadruplex Scaffolds

Nathalie Solladie (Laboratoire de Chimie de Coordination du CNRS, Toulouse, France)

Nucleosides as Organizing Agents.

Liliya Yatsunyk (Chemistry and Biochemistry, Swarthmore College, Swarthmore, USA), Valerie Gabelica, Jack (John) Nicoludis, Linda Lin, Dana Beseiso, Sawyer McCarthy

Porphyryns and G-quadruplex DNA - a long-lasting union

Miffy Hok Yan Cheng (Princess Margaret Cancer Research Centre, Toronto, Canada), Kara M. Harmatys, Danielle M. Charron, Juan Chen, Gang Zheng

Stable J-Aggregation of an Aza-BODIPY-Lipid in a Liposome for Optical Cancer Imaging

Nicolas Desbois (Université de Bourgogne Franche Comté Institut de Chimie Moléculaire de l'Université de Bourgogne ICMUB - UMR CNRS 6302, Dijon, France), Claude Gros

Autofluorescence technology for the detection of the antiviral activity of corroles

Muthumuni Managa (Centre for Nanotechnology Innovation, Department of chemistry, Rhodes University, Grahamstown, South Africa), Bokolombe Pitchou Ngoy, Tebello Nyokong

Photophysical properties and photodynamic therapy activity of porphyrin conjugated to graphene quantum dots

22. Self-Assembled Systems and Materials Based on Porphyrinoids

Zoom Room 1 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Giovanni Bottari & M. Victoria Martinez-Diaz** - total duration : **60 minutes**

Luigi Monsù Scolaro (Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università di Messina, Messina, Italy), Maria Angela Castriciano, Mariachiara Trapani, Roberto Zagami, Andrea Romeo

Mechanistic Investigations on Assembling and Disassembling Porphyrin J-Aggregates

Xavi Ribas (Institut de Química Computacional i Catàlisi (IQCC), University of Girona, Girona, Spain), Carles Fuertes-Espinosa, Cristina García-Simón, Míriam Pujals, Marc Garcia-Borràs, Laura Gómez, Teodor Parella, Judit Juanhuix, Inhar Imaz, Daniel Maspoch, Miquel Costas

Supramolecular Porphyrin-Based Tetragonal Prismatic Capsules as Masks for Stepwise Regioselective Equatorial Functionalization of C60 Fullerene

Michel Rickhaus (University of Zurich, Zurich, Switzerland), Joseph Woods, Mélissa El Bitar Nehme, Lucia Gallego

Non-Planar Porphyrin Analogues: Synthesis, Properties and Guided Assembly

Kentaro Tanaka (Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, Japan)

Switchable Supramolecular Conjugates Composed of Porphyrin and Phthalocyanine

10. NIR-Responsive Porphyrinoids

Zoom Room 2 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Jishan Wu, Yoshihiro Matano & Hiroko Yamada** - total duration : **60 minutes**

Christian Brückner (Department of Chemistry University of Connecticut, Storrs, USA)

Pyrrole-Modified Porphyrins: Varying the Number, Type and Size of the Non-pyrrolic Moieties

Daniel Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Rafal Orłowski, John Clark, Harry B. Gray, Valentine I. Vullev

Polypeptide Oligomers Comprised of Corroles – Hydrogen Bonding Provides “Short-Circuit” Coupling Pathways for Electron Transfer

Masatoshi Ishida (Department of Chemistry and Biochemistry, Graduate School of Engineering and Center for Molecular Systems, Kyushu University, Fukuoka, Japan), Keito Shimomura, Hiroto Kai, Hiroyuki Furuta

Doubly N-Confused Dioxohexaphyrins Serve as Potential Second Near-Infrared Photoacoustic Dyes

Tetsuo Okujima (Ehime University, Matsuyama, Japan)

Selective Synthesis of [34]Nonaphyrins(0.0.0.0.0.0.0.0): Cyclo[9]pyrroles

Olivier Siri (Aix-Marseille University, Marseille, France)

“Pyrrol-free” analogues of porphyrins that reach NIR-II absorptions

Marcin Stępień (Faculty of Chemistry, University of Wrocław, Wrocław, Poland)

Donor-Acceptor Oligopyrroles: a Modular Approach toward Functional Dyes

24. Porphyrinoids for Water Splitting

Zoom Room 2 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Nicolas Boscher** - total duration : **60 minutes**

Ally Aukauloo (Université Paris-Saclay., Orsay, France), Jorge Folana, Jully Patel, Xiaojiao Yuan, Annamaria Quaranta, Angela Sastre-Santos, Hynd Remita, Winfried Leibl

From light induced electron transfer to water splitting

Abhishek Dey (School of Chemical Science, Indian Association for the Cultivation of Science, Kolkata, India)

pKa Events in Hydrogen Evolution Reaction by Iron Porphyrins with Pendent Basic Groups

Hongyou Fan (Department of Chemical and Biological Engineering, Center for Micro-Engineered Materials, University of New Mexico, Center for Integrated Nanotechnologies, Sandia National Laboratories, Albuquerque, N, Albuquerque, USA)

Hierarchically Structured Porphyrin Nanoparticle Photosensitizers

Gary Moore (School of Molecular Sciences/Arizona State University, Tempe, USA), Nghi Nguyen, Daiki Nishiori, Edgar Reyes Cruz, Brian Wadsworth

Porphyrinoids for Applications in Electrocatalysis and Photoelectrosynthesis

Fabrice Odobel (CNRS, Chimie et Interdisciplinarité: Synthèse, Analyse, Modélisation (CEISAM)), Nantes, France), Georgios Charalambidis, Emmanouil Nikoloudakis, Eleni Agapaki, Athanassios Coutsolelos

Dye-sensitized photoelectrosynthetic systems for alcohol oxidation

Manjistha Mukherjee (School of Chemical Sciences, Indian Association for the Cultivation of Science., Kolkata, India), Abhishek Dey

C-H Bond Oxidation by Iron Porphyrin System using Molecular O₂: Electrochemical Tuning of the Reactivity of Heme Superoxides and Compound I

Giusi Piccirillo (Coimbra Chemistry Center, University of Coimbra, Coimbra, Portugal, Coimbra, Portugal), Mariette Pereira, Mario J.F. Calvete, M. Ermelinda S. Eusébio

Immobilized porphyrins as reusable heterogeneous catalyst for antibiotic degradation in human activity effluents

Joanna Turkowska (Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland), Aleksandra Wierzba, Michal Ociepa, Maciej Giedyk, Katarzyna Golszewska, Dorota Gryko

Vitamin B₁₂ as the catalyst in organic reactions

29. Biomimetic Solar Conversion

Zoom Room 2 at **09:00** Central Time USA | **16:00** Central Europe | **23:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: *Ally Aukauloo & Fabrice Odobel* - total duration : **60 minutes**

Stefano Caramori (Department of Chemistry and Pharmaceutical Science, Ferrara, Italy), Alessio Orbelli Biroli, Francesca Tessore, Elisabetta Benazzi

Fluorinated Zn(II) porphyrins for Dye Sensitized Photoelectrosynthetic cells

Georgios Charalambidis (Department of Chemistry, University of Crete, Heraklion, Greece), Emmanouil Nikoloudakis, Asterios Charisiadis, Vasilis Nikolaou, Athanassios G. Coutsolelos

Photocatalytic Hydrogen Evolving Systems Based on Porphyrin Derivatives

Ana L. Moore (School of Molecular Sciences Arizona State University, Tempe, USA), Thomas A. Moore, Gary F. Moore, Devens Gust, Emmanuel Odella, S. Jimena Mora, Brian Wadsworth

Proton Wires Powered by PCET

Jennifer Wytko (Institut de Chimie de Strasbourg UMR 7177 CNRS-Université de Strasbourg, Strasbourg, France)

Tuning Motion in a Porphyrin-Fullerene Rotaxane

Eva Pugliese (Université Paris Saclay. Institut de Chimie Moléculaire et des Matériaux d'Orsay, Orsay, France), Annamaria Quaranta, Philipp Gotico, Bernard Boitrel, Winfried Leibl, Zakaria Halime, Ally Aukauloo

Light-induced CO₂ reduction catalysis with urea-modified iron porphyrin

45. Bio-Inspired Electrocatalysis for Energy and Environment: Heme vs Non-Heme - Best of both worlds

Zoom Room 3 at **07:00** Central Time USA | **14:00** Central Europe | **21:00** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Organized by: **Abhishek Dey** - total duration : **60 minutes**

Louise Berben (Department of Chemistry University of California, Davis, USA), Cody R. Carr, Natalia D. Loewen
Manipulating Proton and Electron Transfers in Fuel-Forming Mechanisms

Penelope Brothers (Research School of Chemistry Australian National University, Canberra, Australia), Stephanie Boer, Bowen Liu, Hannah Matthews, Deepika Kanyan, David Ware
BODIPY-Cobaloxime complexes for photocatalytic hydrogen production

Shabnam Hematian (Department of Chemistry and Biochemistry, University of North Carolina at Greensboro, Greensboro, USA), Firoz Khan, Maria Carrasco, Hadi Pourhadi
Diversification of Redox Reactions Catalyzed by Synthetic Models of Cytochrome c Oxidase

Inez Weidinger (Department of Chemistry and Food Chemistry, Technische Universität Dresden Dresden Institute of Technology, Dresden, Germany), Robert Götz, Hoang Khoa Ly, Matthias Schwalbe
Monitoring structure and performance of heme and phthalocyanine based electrocatalysts via operando surface enhanced vibrational spectro-electrochemistry

51. Characterization, Catalysis and Materials

Zoom Room 3 at **08:00** Central Time USA | **15:00** Central Europe | **22:00** Japan Standard | > [CLICK HERE FOR YOUR TIME-ZONE](#) <

Chaired by: **Daniel Leznoff and John Mack** - total duration : **50 minutes**

Ekaterina Tarakanova (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Pavel Tarakanov, Anton Simakov, Taniyuki Furuyama, Nagao Kobayashi, Dmitry Konev, Olga Goncharova, Stanislav Trashin, Karolien De Wael, Ilya Sulimenkov, Vasily Filatov, Viatcheslav Kozlovskiy, Pavel Stuzhin, Victor Pushkarev

Heteroleptic Lanthanide(III) (Phthalocyaninato)(Tetra(1,4-Diazepino)Porphyrates): Synthesis, Spectral and Electrochemical Properties

Vladimir Burmistrov (Research Institute of Macrocyclic Compounds of Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Victor Aleksandriiskii, Igor Novikov, Oskar Koifman

Chiral Porphyrins and their Analogues as Inducers of Helical LC Phases

Dana Beseiso (Swarthmore College, Swarthmore, USA), Erin Chen, Sawyer McCarthy, Elizabeth Gallagher, Joanne Miao, Liliya Yatsunyk

Biophysical characterization and x-ray crystallography of N-Methyl Mesoporphyrin IX in complex with telomeric G-Quadruplex DNA

Larissa Maiorova (Laboratory of Langmuir-Blodgett Technology, Institute of Macrocyclic Compounds/Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Oleg Konovalov, Lyudmila Yanusova, Sergei Astaf'ev, Victor Erokhin, Svetlana Erokhina, Michela Pisani, Charles Devillers, Oscar Koifman

Structure of Nanostructured Layers at Air-Water Interface and LS Films of Macrocyclic Compounds - in Situ X-ray Diffraction Study

Susana Rebelo (LAQV/REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Porto, Portugal), Miguel P. Almeida, Eulália Pereira, Baltazar de Castro, Craig J. Medforth

Binary Ionic Homo and Bimetallic Metalloporphyrin Nanostructured Materials with Catalase-Like Activity

Vanda Vaz Serra (Centro de Química Estrutural, Instituto Superior Técnico, Lisboa, Portugal), Sofia Serra, Pedro Paulo, Mariana Vallejo, Nuno Moura, Maria Graça Neves, Sílvia Costa

Polyelectrolyte Capsules from Porphyrin-nanogold Hybrids: new insight Towards Highly Fluorescent Devices

Barbara Ventura (Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy), Laura Zanetti-Polzi, Ryan Djemili, Stéphanie Durot, Valérie Heitz, Isabella Daidone

Ag(I) Controlled Encapsulation of a Naphthalene Diimide guest into Porphyrin Containers: a Photophysical Study

Gloria Cardenas-Jiron (Laboratory of Theoretical Chemistry, Faculty of Chemistry and Biology, University of Santiago de Chile (USACH), Santiago, Chile)

Computational Investigation on Photophysical and Charge Transport Properties of Fused Core-Modified Expanded Porphyrins

Rui Liu (Department of Chemistry, Duke University, DURHAM, USA), Zachary Widel, Samuel Mann, Nicholas Polizzi, William DeGrado, Michael Therien

Photoinduced Electron/Hole Transfer of Porphyrin-based Cofactors in De Novo Designed Protein Scaffolds

Elahe Tajbakhsh (Dept. of Chemistry/Simon Fraser University, Burnaby, Canada), Jeffrey J. Warren, Daniel B. Leznoff

The Effects of Aggregation of Octa Substituted Cobalt Phthalocyanine Complexes on Heterogeneous Catalysis of Carbon Dioxide Reduction

Evgeny Kudrik (Institute of Macrocyclic Compounds/Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Larissa Maiorova, Oscar Koifman

Thin Films of Cobalt Porphyrinate as Heterogeneous Catalysts for Oxidation Reactions

50. Synthesis II

Zoom Room 3 at **08:50** Central Time USA | **15:50** Central Europe | **22:50** Japan Standard | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Chaired by: **Daniel Leznoff and John Mack** - total duration :**35 minutes**

Yumeela Ganga-Sah (Chemistry Department Simon Fraser University, Burnaby, Canada), Daniel Leznoff

Early Transition Metallophthalocyanine Alkoxide and Hydroxide Complexes

Basma Ghazal (Organometallic and Organometalloid Chemistry Department, National Research Centre, Egypt, Egypt), Saad Makhseed, Ewies F. Ewies

Design, Synthesis and electronic structural studies of some symmetrical and unsymmetrical phthalocyanines for photo-electrochemical applications

Chenming Chan (Jiangsu university, Zhen Jiang, China), Zhaoli Xue, Tingting Liu, Huiru Liu

Naked-eye chromogenic and fluorogenic chemosensor for mercury (II) ion based on substituted distyryl BODIPY complex

Declan McKearney (Simon Fraser University, Burnaby, Canada), Ryan Roberts, Devon Mitchell, Vance Williams, Daniel B. Leznoff

Preferential Formation of Side-pocket Substituted Zinc Phthalocyanines Emitting Beyond 800 nm

Ana M. G. Silva (LAQV/REQUIMTE, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), José Almeida, Inês Moreira, Andreia Leite, Maria Rangel

Establishing strategies to synthesize (metallo)chlorins: from microwave irradiation to ohmic heating

Ken-ichi Yamashita (Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Osaka, Japan), Kazuhiro Furutani, Takuji Ogawa

Outstanding Enhancement in the Axial Coordination Ability of the Highly Rigid Cofacial Cyclic Metalloporphyrin Dimer

Narendra Nath Pati (School of Chemistry, University of Hyderabad, Hyderabad, India), Pradeepta K. Panda

Positional effect, unsymmetrical substitution and alteration of symmetry: a nature influenced avenue to understanding the porphycene system towards better applications

52. Bio and Biomedical

Zoom Room 3 at **09:25 Central Time USA** | **16:25 Central Europe** | **23:25 Japan Standard** | > [CLICK HERE](#) FOR YOUR TIME-ZONE <

Chaired by: **Daniel Leznoff and John Mack** - total duration :**35 minutes**

Meden Isaac-Lam (Purdue University Northwest, Westville, USA)

Vitamin-Receptor Targeted Photosensitizers for Cancer Therapy

Daryono Hadi Tjahjono (School of Pharmacy, Bandung Institute of Technology, Bandung, Indonesia), Fransiska Kurniawan, Faujan Zein, Naoki Yoshioka

Porphyrin derivatives as ligand of radiopharmaceuticals

Salih Zeki Yildiz (Chemistry, Sakarya, Turkey), Ozge Turna, Aslihan Baykal, Gamze Guney Eskiler, Hyun Soo Lim

Investigation of 5-aminolevulinic Acid Based Photodynamic Therapy in Canine Mammary Gland Cancer Cells

Sivuyisiwe Mapukata (Institute for Nanotechnology Innovation, Department of Chemistry, Rhodes University, Makhanda, South Africa), Tebello Nyokong

Using Magnetic Nanoparticles to Improve the Bacterial Photoinactivation Properties of an Asymmetrical Zinc Phthalocyanine towards Staphylococcus aureus

Carlos Monteiro (LAQV-REQUIMTE, Department of Chemistry, Aveiro, Portugal), Zhi Lin, Cátia Vieira, Maria Neves, Adelaide Almeida, Maria Faustino

Nanomagnets Decorated with Tetrapyrrolic Macrocycles: Shining a Light in Pathogens Inactivation

Azole Sindelo (Chemistry/Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa), Tebello Nyokong

Development of Magnetic Nanoparticles-Phthalocyanine Conjugates for Photoinactivation of Bacteria.

Stefan Hofbauer (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria), Thomas Gabler, Vera Pfanzagl, Christian Obinger, Paul Furtmüller

Coproporphyrin ferrochelatase – study of relevant residues for substrate and product binding

Umit Isci (Gebze Technical University, Kocaeli, Turkey)

Porphyrinoids: from oxidation to reduction catalysts

POSTER PRESENTATIONS

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01. SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids

Jeanet Conradie (University of the Free State, Bloemfontein, South Africa), Pieter J Swarts

Synthesis, Electrochemical and DFT Study of an Electron Rich Subphthalocyanine

Jiri Demuth (Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic), Miloslav Machacek, Maria Victoria Martinez-Diaz, Veronika Novakova, TomAs Torres

Influence of Peripheral Substitution on PDT Activity of Subphthalocyanines

Silvia Escayola Gordils (Institut de Quimica Computacional i Catalisi and Departament de Quimica, Universitat de Girona, Girona, Spain), Dariusz W. Szczepanik, Albert Poater, Miquel Sola, Eduard Matito

The Intriguing Aromaticity of (Sub)Phthalocyanines

Nina Farac (Chemical Engineering and Applied Chemistry - University of Toronto, Toronto, Canada), Timothy P. Bender

Establishing Strategic Synthesis of Mixed Boron Subphthalocyanine/Boron Subnaphthalocyanine Hybrids

Koki Kise (Graduate School of Science, Kyoto University, Kyoto, Japan), Atsuhiko Osuka

Synthesis and properties of metal-cation responsive fluorescent subporphyrins

Ivan Skvortsov (Organic Chemistry Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Ulyana Kovkova, Andrey Koptyaev, Georgiy Pakhomov, Pavel Stuzhin

Perhalogenated azaanalogues of subphthalocyanine as novel perspective acceptors for organic electronics

Pavel A. Stuzhin (Department of Organic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Anton A. Popov, Denis S. Salnikov, Maria Pia Donzello

Synthesis, spectral and acid-base properties of dihydroxo⁻(octa(2-pyridyl)tetrapyrazinocorrolazinato)phosphorus(V) and its water soluble N-methylated derivative

Denise Täubert (University of Kassel, Kassel, Germany), Rüdiger Faust

Multi-Chromophore Ensembles with Subphthalocyanines as Energy Transfer Systems

Lorena Vogt (University of Kassel, Institute for Chemistry and CINSaT- Center for Interdisciplinary Nanostructure Science and Technology, Kassel, Germany), Rudiger Faust

A Pyridone-SubPc-Dyad as a Singlet Oxygen Storage System: Self-sensitized EPO formation and thermal release of Singlet Oxygen

02. Synthesis and Properties of Phthalocyanines and related compounds

Tatiana Dubinina (Lomonosov Moscow State University, Department of Chemistry, 119991 Moscow, Russian Federation, Moscow, Russia), Ekaterina Moiseeva, Anton Kosov

Convenient Approach to the Synthesis of Iodo-Substituted Phthalocyanines and their Modification Using Sonogashira Reaction

Tatiana Dubinina (Lomonosov Moscow State University, Department of Chemistry, Moscow, Russia), Mikhail Belousov

Synthesis of New Type of Planar Binuclear Phthalocyanines Sharing a Common Carbazole Spacer

Nazli Farajzadeh (Chemistry, Istanbul, Turkey), Makbule Burkut Koçak, Çetin Çelik

Synthesis and Characterization of Tetra-substituted Nickel Phthalocyanine Bearing 3,5-bis (trifluoromethyl)phenoxy Groups on Non-Peripheral Positions

Nazli Farajzadeh (Chemistry, Istanbul, Turkey), Makbule Burkut Koçak

Synthesis and Characterization of Unsymmetrically Substituted Zinc Phthalocyanine Bearing Fluorinated groups on non-peripheral positions

AyşeGül Gurek (Gebze Technical University, Kocaeli, Turkey), Gizem Gümüşgöz Celik, Kevser Harmandar, Belgin Sahin, Devrim Atila

Synthesis and Photocharacterization of New Silicon Phthalocyanines Bearing NSAIDs as Anticancer Agent Inhibitors

Mikhail Islyaikin (IRLoN, Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Yana Philippova, Tomas Torres

Synthesis of Iodo Substituted Hemihexaphyrzines

Mikhail Islyaikin (IRLoN, Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Evgenii Ivanov, Verónica Almeida-Marrero, Oskar Koifman, Tomas Torres

Synthesis, Characterization and Photophysical Properties of Bulky Substituted Hemihexaphyrzines

Lucia Kociscakova (Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic), Petr Zimcik

Synthesis of Phthalocyanine Derivatives for Supramolecular Complexation with Cucurbituril

Oskar Koifman (Research Institute of Macrocyclics of Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Ekaterina Kostrova, Alena Malyasova, Polina Smirnova, Sergey Guskov, Egor Pichuzhkin

Study of Phthalonitriles Containing Hydroxyl Group

Jan Kollár (Faculty Of Pharmacy Hradec Králové, Charles University, Hradec Králové, Czech Republic), Jiří Demuth, Marie Halašková, Miloslav Macháček, Veronika Nováková, Petr Zimčik

Anionic and cationic phthalocyanines and their interaction with bovine serum albumin

Veronika Novakova (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic), Lukas Lochman, Petr Zimcik

Azaphthalocyanine fluorescence sensors: the role of counter anions and sensing of SCN-

Marius Pelmus (Seton Hall University, South Orange, USA)

Substituted Phthalonitriles and Phthalocyanines with Mixed Electron-Donor/Electron-Withdrawing Groups: Synthesis, X-ray Structures, Photophysics, and Singlet Oxygen Production

Joanna Szymczak (Chair and Department of Inorganic and Analytical Chemistry, Poznan, Poland), Tomasz Rębiś, Michał Kotkowiak, Barbara Wicher, Ewa Tykarska, Michał Kryjewski, Jadwiga Mielcarek

Regioisomers of Magnesium(II) Phthalocyanines with Menthol Substituents – Spectral, Electrochemical Properties and X-ray Studies

03. BODIPY Dyes

Marco Farinone (University of Wrocław, Wrocław, Poland), Miłosz Pawlicki

The influence of the meso-position on the optical and chemical properties of BODIPY systems

Michał Kryjewski (Chair and Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland), Nikodem Bojanowski, Tomasz Rębiś, Michał Kotkowiak, Barbara Wicher, Sebastian Lijewski, Ewa Tykarska, Jolanta Długaszewska, Jadwiga Mielcarek

Aza-BODIPY and azadipyromethene metallic complexes - synthesis and spectral properties

Yogesh Kumar Maurya (Department of Chemistry, University of Wrocław, Wrocław, Poland), Marcin Stępień
Near-Infrared Absorbing Chromophores based on π -Extended Donor–Acceptor BODIPYs

Jaroslaw Piskorz (Chair and Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland), Weronika Porolnik, Jolanta Długaszewska, Anna Teubert, Jadwiga Mielcarek
Synthesis, photochemical and antimicrobial studies of novel BODIPY-based photosensitizers with various alkylamine substituents

Clara Schäfer (University of Gothenburg, Department of Chemistry and Molecular Biology, Gothenburg, Sweden), Jürgen Momy, Thomas Olsson, Karl Börjesson
Entropic Mixing allows Monomeric-Like Absorption in Neat BODIPY Films

Takahide Shimada (Kyushu University, Fukuoka, Japan), Masatoshi Ishida, Hiroyuki Furuta
Synthesis of α - and β -Alkynylated BODIPYs via Gold(I)-catalyzed Direct C-H Functionalization and Their Photophysical Properties

Songlin Xue (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang City, China), Daiki Kuzuhara, Naoki Aratani, Hiroko Yamada
Vinylene-Bridged Cyclic Dipyrin and BODIPY Trimers

04. Corrole (Synthesis and applications)

Joana Barata (CESAM, University Of Aveiro, Aveiro, Portugal), Vanda Vaz Serra, Sara Fateixa, Paula Lacerda, Helena Nogueira, Ana L. Daniel-da-Silva, Sílvia Costa, M Graça P. M. S. Neves, José A.S. Cavaleiro, Tito Trindade
Synthesis and Photophysical Characterization of Corrole-Gold NPs nanoconjugates

Joana Barata (CESAM - University of Aveiro, Aveiro, Portugal), Ricardo J. B. Pinto, Paula Lacerda, Pedro Conceição, Vanda I. R. C. Vaz Serra, Armando Silvestre, Tito Trindade, M Graça P M S Neves, José A S Cavaleiro, Sara Daina, Patrizia Sadocco, Carmen S.R. Freire
Fluorescent Corrole Grafted-Chitosan based Materials

Joao Braz (University of Coimbra, Coimbra, Portugal), Bruna D. P. Costa, Susana M. M. Lopes, Mafalda Laranjo, Marta Pineiro, Maria F. Botelho, Teresa M. V. D. Pinho e Melo
Trans-A₂B-corroles containing an oxime moiety: synthesis and photodynamic activity against lung cancer cells

Qiucheng Chen (Schulich Faculty of Chemistry/Technion - Israel Institute of Technology, Haifa, Israel), Zeev Gross
Tuning Chemical and Physical Properties of Phosphorus Corroles for Advanced Applications

Bruna Costa (University of Coimbra, Coimbra, Portugal), Joao Braz, Susana M. M. Lopes, Mafalda Laranjo, Marta Pineiro, Maria F. Botelho, Teresa M. V. D. Pinho e Melo
Corroles and hydrazones: two allies in the fight against lung cancer

Yuanyuan Fang (Department of Chemistry, University of Houston, Houston, USA), W. Ryan Osterloh, Nicolas Desbois, Sandrine Pacquelet, Claude P. Gros, Karl M. Kadish
Electrochemistry of Manganese Dipyrin-bisphenol and Related Complexes

Claude Gros (ICMUB (UMR CNRS 6302) Université Bourgogne Franche-Comté, Dijon, France), Stéphane Brandès, Laurie André, Jian Yang, Nicolas Desbois, Meddy Vanotti, Virginie Blondeau-Patissier
Covalent Organic Frameworks for the detection of CO

Muniappan Sankar (Indian Institute of Technology Roorkee, Roorkee, India), Inderpal Yadav
Synthesis and Spectral Properties of Push-Pull and π -Extended Corroles for NLO and Sensing Applications

Takayuki Tanaka (Kyoto University, Kyoto, Japan), Kento Ueta, Atsuhiko Osuka
meso-Oxoisocorrole: An Antiaromatic Corrole

Ali Tuna (University of Turku, Turku, Finland), Günther Knör
Synthesis and Electrochemistry of a Stable Indium A3-Corrole

05. Exotic Coordination Chemistry of Porphyrinoid Systems

Jordan Appleton (Université de Strasbourg, Strasbourg, France), Mary-Ambre Carvalho, Hervé Dekkiche, Nolwenn Le Breton, Sylvie Choua, Romain Ruppert
Trinuclear Paramagnetic Porphyrin Dimers and their Magnetic Properties

Nivedita Chaudhri (Indian Institute of Technology Roorkee, Roorkee, India), Muniappan Sankar
Triply Fused Nickel(II) Porphyrins: Synthesis, Spectral, and Electrochemical Redox Properties and Their Utilization in Selective Cyanide Ion Sensing

Dinusha Damunupola (Department of Chemistry, University of Connecticut, Storrs, USA), Adewole O. Ateyobi, Christian Bruckner
A Greener Approach Toward Cobalt(II) Porphyrinoids

Semyon Dudkin (A.N.Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences, Moscow, Russia), Alexander Chuprin, Yan Voloshin
Phthalocyaninato-Capped Cage Metal Complexes: Transmetallation Approach vs Direct Template Condensation

Kamil Kupietz (Chemistry, University of Wrocław, Wrocław, Poland), Michał J. Białek, Karolina Hassa, Agata Białońska, Lechosław Latos-Grażyński
Oxygenation of Phenanthriporphyrin and Copper(III) Phenanthriporphyrin – An Efficient Route to Phenanthribilines

Maria I. F. Moreira (REQUIMTE-LAQV, Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade do Porto, Porto, Portugal), José Almeida, Andreia Leite, Ana I. M. C. Lobo Ferreira, Luís M. N. B. F. Santos, Ana M. G. Silva, Maria Rangel
Ohmic heating synthesis and characterization of Zn(II), Cu(II) and Pd(II) complexes of heterocyclic-fused chlorins

Sameeta Sahoo (School Of Chemistry, University Of Hyderabad, Hyderabad, India), Pradeepta K Panda
Exploring the phenomenal potential of β , β' -fused porphycene as a ligand

06. N-confused and Other "mis-linked" Porphyrins and Porphyrinoids

Biju Basumatary (Department of Chemistry and Biochemistry, Fukuoka, Japan), Masatoshi Ishida, Hiroyuki Furuta
Copper 1,19-Diazadibenzonorrole: Rational Synthesis of a Porphyrin Analogue Containing N-N Direct Linkage

Osamu Iwanaga (Department of Chemistry and Biochemistry Kyushu University, Fukuoka, Japan), Kazuki Fukuyama, Takaaki Miyazaki, Masatoshi Ishida, Hiroyuki Furuta
Ring Rotation Behavior of Ruthenium N-Confused Porphyrin [μ]-Oxo Dimers

Min-Sung Ko (Department of Chemistry and Chemical Engineering/Inha University, Incheon, Korea), Beomhee Cho, Dong-Gyu Cho
Bond Rotation in an Aromatic Carbaporphyrin: Allyliporphyrin

Sebastian Koniarz (Department of Chemistry, University of Wrocław, Wrocław, Poland), Piotr J. Chmielewski, Demin Ren, Xiaofang Li
Aniline and imidazole derivatives of 2-Aza-21-carbaporphyrin

07. Natural Porphyrinoid Pigments

Yuanqi Jing (Department of chemistry, Marquette University, Milwaukee, USA), Tristan Barrington, Yilin Liu, Remigio Usai
Human Lanosterol- α -demethylase (CYP51A1): Application of Resonance Raman Spectroscopy to Membrane Protein Reconstituted in Nanodiscs

Mai Shiozaki (Life Science / Ritsumeikan University, Kusatsu, Japan), Takuya Miyanishi, Hitoshi Tamiaki
Synthesis of Chlorophyll Derivatives Bearing the 3-Deuterated Substituents and Their Physical Properties

Mai Shiozaki (Life Science / Ritsumeikan University, Kusatsu, Japan), Takuya Miyanishi, Hitoshi Tamiaki
Synthesis of 20-Deuterated Bacteriochlorophyll-d Homolog and Its Chlorosomal Self-Aggregation

08. Porphycenes and other porphyrin isomers

Agnieszka Gajewska (Polish Academy of Sciences, Institute of Physical Chemistry, Warsaw, Poland), Jakub Ostapko, Joanna Buczyńska, Barbara Golec, Anastasiia Kharchenko, Jacek Waluk
Porphyrinoids differently functionalized with triplet quenchers: synthesis and properties

Idaresit Mbakara (Department of Photochemistry and spectroscopy. Institute of physical chemistry, Polish Academy of sciences, Warsaw, Poland), Agnieszka Gajewska, Arkadiusz Listkowski, Jacek Waluk
Photostability in Porphycenes: Influence of Electron-donating and Electron-withdrawing Groups

Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Anup Rana, Nagamaiah J, Arnab Dutta, Satish Kumar Bijigiri, Narendra Nath Pati, Sameeta Sahoo
3,6,13,16-Tetra Substituted Porphycenes: The Missing Link in Porphycene Chemistry

Atsumi Yagi (Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan), Hiroshi Shinokubo
Synthesis and Property of 14,15-Diazacorrphycene Palladium Complex

09. Exotic porphyrins and related systems covering the pi-expanded porphyrins and modified porphyrinoid systems

Nivedita Chaudhri (Department of Chemistry, University of Connecticut, Storrs, USA), Matthias Zeller, Christian Brückner

Reduction of cctaethyloxochlorins: A facile approach towards a number of chlorins, bacteriochlorins, isobacteriochlorins, and pyrrocorphins

Norihito Fukui (Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan), Kazuya Miyagawa, Hiroshi Shinokubo

Redox-Induced Reversible [2+2] Cycloaddition of Etheno-Fused Diporphyrin

Timothy Lash (Department of Chemistry, Illinois State University, Normal, USA), Alissa Latham

Rational Syntheses of N-Methylporphyrinoids

Timothy Lash (Department of Chemistry, Illinois State University, Normal, USA), Tyler Smolczyk

Synthesis of Heterocarbaporphyrins from Carbatrityrins

Austen Moss (University of North Texas, Denton, USA), Hong Wang

Pentacene-Fused and Pentacenequinone-Fused Porphyrins

Akito Nakai (Graduate School of Science, Kyoto University, Sakyo-ku, Japan), Shin-ichiro Ishida, Atsuhiko Osuka
 π -Ruthenium Complexes of Hexaphyrins(1.1.1.1.1.1)

Sipra Sucharita Sahoo (School of Chemistry, University of Hyderabad, HYDERABAD, India), Pradeepta K Panda

Core-modified Pentaphyrin: New Isomer of Oldest Expanded Porphyrin

Muniappan Sankar (Indian Institute of Technology Roorkee, Roorkee, India), Renu Kumari Rohal

1,1,4,4-Tetracyano-buta-1,3-diene (TCBD) appended Highly Electron Deficient and Nonplanar Metalloporphyrins: Facile Synthesis, Spectral and Electrochemical Redox Properties

Courtney Stewart (University of North Texas, Denton, USA), Vladimir Nesterov, Hong Wang

Dithiophenyl-Benzoporphyrins: Synthesis and Characterization

Asahi Takiguchi (Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan), Seongsoo Kang, Norihito Fukui, Dongho Kim, Hiroshi Shinokubo

Facile Synthesis of Bilindione and Optical Property of 5-Oxaporphyrinium Cation

10. NIR-Responsive Porphyrinoids

Nicolas Desbois (ICMUB, UMR CNRS 6302, Dijon, France), Flavien Ponsot, Sébastien Jenni, Jonathan S. Lindsey, Claude P. Gros

Near-Infrared emissive bacteriochlorin-diketopyrrolopyrrole triads: Synthesis and photophysical properties

Sari Ishikawa (Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan), Hajime Maeda, Masahito Segi, Taniyuki Furuyama

Synthesis of Functionalized Low-symmetry Ball-shaped Ruthenium Complexes

Yoshino Katsurayama (Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan), Hajime Maeda, Masahito Segi, Taniyuki Furuyama

Development of Phthalocyanine Metal Complex Mediated C-H Functionalization Reaction

11. Novel Pyrrolic Macrocycles and Chromophores

Adewole O. Atoyebi (Department of Chemistry, University of Connecticut, Storrs, USA), Michael P. Luciano, Weston Tardie, Matthias Zeller, Christian Brückner

Mono- and Bis-Supersized Pyrrole Modified Porphyrins via a Reversal of the "Breaking and Mending" Strategy

Grigory Kozhemyakin (Russian academy of sciences, Frumkin Institute of Physical chemistry and Electrochemistry (IPCE RAS), Moscow, Russia), Evgeny Belyaev, Ivan Lonin, Geli Ponomarev

Diverse ways for extending tetrapyrrolic n-system and modification of C3 and C13' positions of chlorophyll a derivatives

Grigory Kozhemyakin (Russian academy of sciences, Frumkin Institute of Physical chemistry and Electrochemistry (IPCE RAS), Moscow, Russia), Alena Shkirdova, Anna Trapeznikova, Geli Ponomarev, Vladimir Tyurin, Ilya Zamilatskov

Base-mediated transformation of p-Tosylhydrazones of tetrapyrrole compounds

Yusuke Matsuo (Kyoto, Kyoto, Japan), Takayuki Tanaka, Atsuhiko Osuka

Synthesis and Characterization of New Tetraaza[8]circulene Derivatives

Maria da Graça P. M.S. Neves (LAQV-REQUIMTE, Department of Chemistry, Aveiro, Portugal), Nuno M. M. Moura, Vanda Vaz Serra, Kelly A.D.F. Castro, Maria A.F. Faustino, José A.S. Cavaleiro, Carlos Lodeiro, Roberto S. da Silva

Synthesis and Photophysical Properties of Novel Porphyrin-Bipyridine Iridium(III) Complexes

12. Advances in the Chemistry of Porphyrazines (Substituted and Annulated)

Sandra Belviso (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy), Giovanna Longhi, Giulia Marsico, Roberta Franzini, Claudio Villani, Sergio Abbate, Stefano Superchi

Chiral Helicene-Substituted Thioalkyl-Porphyrazines: Synthesis, HPLC Enantiomeric Separation, and Absolute Configuration

Tomasz Koczorowski (Chair and Department of Chemical Technology of Drugs, Poznan, Poland), Justyna Ber, Tomasz Sokolnicki, Wojciech Szczolko, Tomasz Goslinski

Electrochemical and catalytic assessment of peripheral bromoaryl-substituted manganese and iron porphyrazines

Michaela Kolarova (Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic), Miroslav Miletin

Silicon complexes of azaphthalocyanines with heteroatom peripheral substitution: different synthesis approaches and their kinetic

Miroslav Miletin (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Michaela Kolarova, Michaela Hanusova, Jiri Demuth, Filip Kostelansky, Radim Kucera, Tomas Semlej

Efficiency of Azaphthalocyanine and Acridine Derivatives Binding to Oligonucleotides via Cu(I)-free Click Chemistry

Ivan Skvortsov (Organic Chemistry Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Alina Fazlyeva, Pavel Stuzhin

Effect of acid solvation on spectral-luminescence properties of porphyrazines with 6,7-dihydro-1H-1,4-diazepine rings

Wojciech Szczolko (Poznan University of Medical Sciences, Poznan, Poland), Tomasz Koczorowski, Dariusz Mlynarczyk, Rafał Krakowiak, Tomasz Goslinski

Titania nanoparticles functionalized with pyrrolyl-substituted porphyrazine - synthesis, characterization and physical properties

13. Hueckel, Moebius, Baird and 3-Dimensional Aromaticity/Antiaromaticity in Porphyrinoid

Maika Isoda (Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Osaka, Japan), Ken-ichi Yamashita, Yusuke Honda, Takuji Ogawa

Meso-substituent effect on the antiaromaticity and intermolecular interaction of dithiadioxaisophlorins

Siyu Liu (Nagoya University, Nagoya, Japan), Shusaku Ukai, Norihito Fukui, Hiroshi Shinokubo

Synthesis of Covalently Linked Norcorrole Dimers and Their Association Behavior

Rahul Soman (School of Chemistry, University of Hyderabad, Hyderabad, India), Sameeta Sahoo, Pradeepa K Panda

Intramolecular Hydrogen Bond Stabilized Conformers of meso-ethoxycarbonyl Substituted Hexaphyrin and Octaphyrin

Haruna Sugimura (Osaka University, Graduate School of Science, Toyonaka, Osaka, Japan), Ken-ichi Yamashita, Kana Nakajima, Takuji Ogawa

Synthesis and antiaromaticity of β -tetracyanoisophlorins

Shusaku Ukai (Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Aichi (Japan), Nagoya, Japan), Hiroshi Shinokubo

Investigation of Kinetic Stabilization Effect at meso-Positions of Norcorrole Ni(II) Complexes

14. Chiral Aspects of Porphyrin Supramolecular Chemistry

Jeroen Bruekers (Molecular nanotechnology, Radboud University, Nijmegen, Netherlands), Matthijs Hellinghuizen, Nicolas Vanthuyne, Jeanne Crassous, Paul Tinnemans, Hans Elemans, Roeland Nolte

Allosteric Double Porphyrin Cage Compounds

Massimiliano Gaeta (Università degli Studi di Catania, Dipartimento di Scienze Chimiche, Catania, Italy), Alessandro D'Urso

Towards an Asymmetric Synthesis of Melanin-like Polymers via Supramolecular Interactions with Porphyrin Hetero-aggregates

Bapan Saha (Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, India), Dolly Chandel, Sk Asif Iqbal

Complexation of Chiral Zinc(II)Porphyrin Tweezer with Chiral Substrates: Control, Discrimination and Rationalization of Supramolecular Chirality

Vincent Silber (CNRS, Université de Strasbourg, STRASBOURG, France), Mary-Ambre Carvalho, Romain Ruppert, Marion Jean, Nicolas Vanthuyne

Atropisomers of helical porphyrins

15. Radicals in porphyrins and related compounds

Tatyana Lomova (G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia), Tatyana Lomova, Yurii Tsaplev, Marija Klyueva, Ekaterina Ovchenkova, Nataliya Bichan

Oxidized Manganese(III) Porphyrin/Phthalocyanine Intermediates in Some Chemical and Photophysical Processes

Susana Rebelo (LAQV/REQUIMTE, Department of Chemistry and Biochemistry, Faculty of Sciences, University of Porto, Porto, Portugal), Tânia Moniz, Craig Medforth, Baltazar de Castro, Maria Rangel

EPR Spin Trapping Studies of H₂O₂ Activation in Metaloporphyrin Catalyzed Reactions: Insights on the Biomimetic Mechanisms

17. Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines

Tatiana Ageeva (Research Institute of Macrocyclics of Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Maria Glazkova, Denis Golubev, Anastasiya Gorshkova, Oskar Koifman, Valentina Rumyantseva, Aleksander Sigov, Valeriy Fomichev

Porphyrim Complexes with a Large Dipole Moment – Structural Elements of Electret Materials of a New Type

Jeanet Conradie (University of the Free State, Bloemfontein, South Africa), Karel von Eschwege
DFT Studies of Redox Tendencies observed in a Phenyl-substituted Tetraphenylporphyrin Series

Kevin Granados Tavera (University of Santiago of Chile, Santiago of Chile, Chile), Gloria Cárdenas-Jirón
Metal-Organic Framework (MOF) Conductors Based On Zn(II)-Porphyrin and C₆₀ with Potential Application for Electronic Devices.

Daniel Sánchez Resa (ISOF-CNR, Bologna, Italy), Amy Edo-Osagie, H.P. Jacquot de Rouville, Valerie Heitz, Barbara Ventura
Photophysical Characterization of a Bis-Acrinium Zn(II) Porphyrin Conjugate

Yuko Takao (Osaka Research Institute of Industrial Science and Technology, Osaka, Japan), Kazuyuki Moriwaki, Takumi Mizuno
Monocationic Porphyrin Dyads with Fullerene as the Electron-Accepting Material

Wassie Mersha Takele (Institute of Physical and Theoretical Chemistry and LISA+, University of Tübingen, Tübingen, Germany), Frank Wackenhut, Lukasz Piatkowski, Jacek Waluk, Alfred J. Meixner
Tailoring the Photophysical Properties of Single Phthalocyanine Molecules by the Purcell Effect

Michael Zambrano Angulo (University of Santiago of Chile, Santiago, Chile), Gloria Cárdenas Jiron
Theoretical Modeling of Visible and Near-Infrared Light-Harvesting on Silicon and Zinc Phthalocyanine with Application to Dye-Sensitized Solar Cells

18. Porphyrin-based chemical sensors

Srinivasa Rao Allu (University of Pennsylvania, Philadelphia, USA), Thomas Troxler, Sergei A. Vinogradov*
Asymmetric Diarylphthalimidoporphyrins (DAPIP) for Two-Photon Imaging

Tomasz Koczorowski (Chair and Department of Chemical Technology of Drugs, Poznan, Poland), Tomasz Rębiś, Wojciech Szczolko, Paulina Anteck, Tomasz Goslinski
Reduced graphene oxide/iron(II) porphyrine hybrids on glassy carbon electrode for amperometric detection of NADH and L-cysteine

Roberto Paolesse (Department of Chemical Science and Technologies, University “Tor Vergata”, Rome, Italy), Karolis Norvaisa, Keith J. Flanagan, Mathias O. Senge, Corrado Di Natale, Roberto Paolesse
Colorimetric On-paper Optodes based on Non-planar Core-substituted Porphyrins for Anions Sensing

Franziska Schachinger (Biocatalysis and Biosensing Laboratory, Department of Food Science and Technology, BOKU - University of Natural Resources and Life Sciences, Vienna, Vienna, Austria), Su Ma, Stefan Scheiblbrandner, Roland Ludwig
Screening b-type and c-type cytochrome domains as Direct Electron Transfer mediators for biosensors

Lorenz Schwaiger (Biocatalysis and Biosensing Laboratory, Department of Food Science and Technology, BOKU - University of Natural Resources and Life Sciences, Vienna, Austria, Vienna, Austria), Stefan Scheiblbrandner, Daniel Kracher, Roland Ludwig
Cytochromes as Direct Electron Transfer Mediators for Biorecognition Elements

Ana Silva (LAQV/REQUIMTE, Dept Química e Bioquímica, FCUP, Porto, Portugal), Ahmad Sousaraei, Carla Queirós, Luís Cunha-Silva, Juan Cabanillas-Gonzalez
Protonated PCN224 Metal-Organic Frameworks: A Robust and Reversible Colorimetric Sensor to Biogenic Amines

19. Porphyrin and Biomolecules: a long-lasting friendship

Karolina Urbanska (Department of Chemistry, University of Wrocław, Wrocław, Poland), Milosz Pawlicki
Porphyrin - amino acid hybrids

20. Self-assembly of tetrapyrroles in biomaterials

Tatiana Ageeva (Research Institute of Macrocyclics of Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Nadezhda Pechnikova, Ivan Shilov, Alexander Smirnov, Alexey Lyubimtsev
Design of Linear and Cross-Linked Porphyrin Polymers Based on Acrylamide and Aryl-substituted Porphyrins

Athanassios G. Coutsolelos (Chemistry Department University of Crete, Heraklion, Greece), Emmanouil Nikoloudakis, Maria Pigiaki, Maria N. Polychronaki, Alexandra Margaritopoulou, Georgios Charalambidis, Efthymis Serpetzoglou, Magdalini Topouza, Anna Mitraki, Panagiotis A. Loukakos
Self-assembled Porphyrin-Dipeptide hybrids produce hydrogen photocatalytically

Oskar Koifman (Research Institute of Macrocyclics of Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Michael Koifman, Galina Mamardashvili, Artem Efimov, Nugzar Mamardashvili
New Coordination Polymers of Sn(IV)-tetra-(4-sulfonato-phenyl)-porphyrin Obtained by its Axial Complexes Chelation with Cu²⁺

Lluisa Perez-Garcia (School of Pharmacy, University of Nottingham, Nottingham, United Kingdom), Mario Samperi, Gordon Bruce, David B. Amabilino, Marta Duch, Jose A. Plaza, Kristofer J. Thurecht, David Limon
Nanoarchitectures for Enhanced Singlet Oxygen Generation

Lluisa Perez-Garcia (School of Pharmacy, University of Nottingham, Nottingham, United Kingdom), Paola Sanjuan-Alberte, Akhil Jain, Andie J. Shaw, Sidahmed A. Abayzeed, Rafael Fuentes Dominguez, Maria E. Alea-Reyes, Matt Clark, Morgan R. Alexander, Richard H. Hague, Frankie J. Rawson
Porphyrin Based Nanoarchitectures for Wireless Intracellular Communication

22. Self-Assembled Systems and Materials based on Porphyrinoids

Brandon Bayard (University of Minnesota Duluth, superior, USA), Noah Holzer, Prashanth Poddutoori, Niloofar Zarrabi
Design, Synthesis and Characterization of Molecular Components for Light Induced Molecular Machines

Yulia G. Gorbunova (Frumkin Institute of Physical Chemistry and Electrochemistry, Moscow, Russia), Inna A. Abdulaeva, Kirill P. Birin, Aslan Yu. Tsivadze
Synthesis of di-functionalized pyrazinoporphyryns: scope and limitations

Mariana Hamer (INS, UNSAM, San Martín, Argentina), Rolando Manuel Caraballo, Sergio Gómez
Self-assembled nanostructures of oppositely charged metaloporphyryns

Evgeny Kudrik (Institute of Macrocyclic Compounds/ Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Thao Vu, Larissa Maiorova, Oscar Koifman, Alexei Lyubimtsev
Nanostructured Layers and Langmuir-Schaefer Films of Tetraphenylporphine

Evgeny Kudrik (Institute of Macroheterocyclic Compounds/ Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Denis Salnikov, Larissa Maiorova, Oscar Koifman, Seid Jafari, Lyudmila Petrovskaya
Sulfite and Cyanide Sensing Properties of Nanostructured LS Films of Vitamin B₁₂ Hydrophobic Derivative

Larissa Maiorova (Laboratory of Langmuir-Blodgett Technology, Institute of Macroheterocyclic Compounds/Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Denis Salnikov, Oscar Koifman, Tatiana Borodina, Boris Nabatov, Anastasia Burova, Tatiana Bukreeva, Lev Feigin
Nanostructures of a Hydrophobic Derivative of Vitamin B₁₂ Formed in Langmuir-Schaefer Films and in Polymer Nanocapsules

Yulin Mo (Institute of Medical Science, University of Toronto, Toronto, Canada), Juan Chen, Gang Zheng
Porphyrin-based lipid nano-platform for in vivo RNAi delivery

Vasilis Nikolaou (Chemistry Department/University of Crete, Heraklion, Greece), Emmanouil Nikoloudakis, Georgios Landrou, Konstantina Mitropoulou, Georgios Charalambidis, Anna Mitraki, Athanassios Coutsolelos
Self-Assembly and Hydrogel Formation of Porphyrin Derivatives

Vasilis Nikolaou (Department of Chemistry/University of Crete, Heraklion, Greece), Georgios Charalambidis, Kalliopi Ladomenou, Emmanouil Nikoloudakis, Charalambos Drivas, Ioannis Vamvasakis, Stylianos Panagiotakis, Georgios Landrou, Eleni Agapaki, Christina Stangel, Christian Henkel, Jan Joseph, Gerasimos Armatas, Stella Kennou, Dirk M. Guldi, Athanassios G. Coutsolelos
Controlling Solar Hydrogen Production by Organizing Porphyrins

Ji-Young Shin (Graduate School of Engineering, Nagoya University, Nagoya, Japan)
Synthesis and Characterization of Octahedral Co(III) Complex of Pyrrolopyrrolizine Derivative

Elisabeth Weyandt (Eindhoven University of Technology, Eindhoven, Netherlands), Luigi Leanza, Giovanni Pavan, Ghislaine Vantomme
Controlling the length of porphyrin supramolecular polymers via coupled equilibria and dilution induced self-assembly

23. Porphyrinoid Biohybrid Materials for Light Management Applications

Leandro Lourenço (Department of Chemistry of University of Aveiro, Aveiro, Portugal), Cláudia P. S. Ribeiro, Sara R. D. Gamelas, Ana T. P. C. Gomes, Maria A. F. Faustino, Adelaide Almeida, João P. C. Tomé
*Unsymmetrical cationic porphyrin-cyclodextrin dyes for photoinactivation of *Escherichia coli**

Leandro M. O. Lourenço (Department of Chemistry of University of Aveiro, Aveiro, Portugal), Sara R. D. Gamelas, Joana M. D. Calmeiro, Ana T. P. C. Gomes, Maria A. F. Faustino, Maria G. P. M. S. Neves, Adelaide Almeida, João P. C. Tomé, Leandro M. O. Lourenço
*Antimicrobial photodynamic therapy of bioluminescent *E. coli* bacteria using cationic porphyrins*

24. Porphyrinoids for Water Splitting

Drialys Cardenas-Morcoso (Materials Research and Technology Department, Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg), Anna Lucia Pellegrino, Giuseppe Bengasi, Nicolas Boscher
Heterometallated Fused Porphyrin Tapes – Straightforward Synthesis and Deposition from the Gas Phase.

26. From light harvesting to charge separation and charge transport

Mariana Hamer (INS, UNSAM, San Martin, Argentina), Rolando Manuel Caraballo, Priscila Vensaus, Facundo Herrera, Galo J. A. A. Soler-Illia

Porphyrins and pores: a platform for solar energy conversion

27. Porphyrinoids for Solar Cells

Jyotsna Bania (School of Chemistry, University of Hyderabad, Hyderabad, India), Sipra S. Sahoo, V. Nanda Kishore M., Sathish Kumar B., Pradepta K. Panda

A Novel Panchromatic Porphyrin-BODIPY Conjugate for DSC Application

Tarek El Assaad (Department of Chemistry and Biochemistry, University of Arizona, Tucson, USA), William Benson, Zong-Xiang Xu

Improving Power Conversion Efficiency in Perovskite Solar Cells Using Phthalocyanine Additives

Maria da Graça P. M.S. Neves (Department of Chemistry & LAQV-REQUIMTE, Aveiro, Portugal), Melani J. A. Reis, Ana Teresa Nogueira, Nuno M. M. Moura, Adélio Mendes, Ana M. V. M. Pereira

Porphyrins Bearing Mixed Nitrogenated Donors: Innovative Hole Transport Materials to Perovskite Solar Cells

Michael Shea (University of Minnesota Duluth, Otsego, USA), Michael Shea, Prashanth Poddutoori

Synthesis and Characterization of Phosphorus(V) Porphyrins for Solar Cells and Water Oxidation

28. Photo- and Electro-Catalytic Processes

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Investigation of an Iron Porphyrin Derivative as Catalyst for CO₂ Reduction

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Light-driven H₂ production in aqueous media using carbon dots and molecular Co catalysts

Alessandro D'urso (Dipartimento di Scienze Chimiche, Università degli Studi di Catania, Catania, Italy), Massimiliano Gaeta, Maria Elena Fragalà, Gea Oliveri Conti, Margherita Ferrante, Roberto Purrello

Photocatalytic properties of TiO₂ nanoparticles functionalized non-covalently with porphyrins.

Gizem Gümüşgöz Çelik (Gebze Technical University, Kocaeli, Turkey), Gülenay Tunç, Özge Eroğlu, Ayşe Nur Sahin, Ahmet Altındal, Ayşe Gül Gürek, Devrim Atilla

Novel Zn(II) and Cu(II) Phthalocyanine Derivatives as Hole Transfer Materials for Perovskite Solar Cells

Ayşe Gurek (Gebze Technical University, Kocaeli, Turkey), Sinem Tuncel Kostakoğlu, Yunus Zorlu, Ali Enis Sadak, Serpil Denizalti, Mehmet Menaf Ayhan

Viologen-linked Porphyrin COF for Efficient CO₂ Capture and Conversion

Ningchao Liu (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Laihai Huang, Jian Rong, Zhaoli Xue, Zhongping Ou, Fengxian Qiu, Yuanyuan Fang

Synthesis, characterization and electrocatalytic properties of bimetallic sulfides CoS/MnS/N-C for oxygen reduction in alkaline media

James Oyim (Chemistry Department / University of Nairobi, Nairobi, Kenya), Edith Amuhaya, Juan Scaiano, Tebello Nyokong, Anabel Laterna, John Mack, Rodah Soy

Photodegradation of levofloxacin in water by porphyrin immobilized on glass wool

Giusi Piccirillo (University of Coimbra, Coimbra, Portugal), Maria M. Pereira, Maria E. S. Eusébio, Mário J.F. Calvete

Photodegradation of antibiotics using tetrapyrrole macrocycle-based catalysts

Damaris W. Thuita (Department of Chemistry, University of Connecticut, Storrs, USA), John Ng'ang'a, Alfredo Angeles-Boza, Matthias Zeller, Christian Brückner

Oxazole-appended Oxazolochlorin Nickel Complexes for CO₂ Reduction

Ali Tuna (University of Turku, Turku, Finland), Jenna Hannonen, Pekka Peljo

Photoelectrochemical CO₂ Reduction of Nitro-substituted Corroles, Porphyrins and Their Metal Derivatives

Zheng Yunhua (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, Jiangsu Province, China), Jinchao Xu, Jian Rong, Fengxian Qiu

Low Co-doped MoS₂/NiS₂ heterostructures as efficient electrocatalysts for hydrogen evolution reaction

29. Biomimetic Solar Conversion

Georgios Charalambidis (Department of Chemistry, University of Crete, Heraklion, Greece), Vasilis Nikolaou, Athanassios Coutsolelos

Photocatalytic H₂ Production Using Self-assembled Porphyrin Based Nanostructures

Adelais Trapali (Université Paris-Saclay & University of Crete, Orsay Cedex & Heraklion, France), Georgios Charalambidis, Zakaria Halime, Winfried Leibl, Athanassios G. Coutsolelos, Ally Aukauloo

Water activation by a manganese fused imidazole-phenol porphyrin derivative

30. Catalytic Chemical Transformations by Metalloporphyrins

Iti Gupta (Department of chemistry/Indian Institute of Technology Gandhinagar, GANDHINAGAR, India), Vijayalakshmi Pandey

Pd(II) Porphyrins : Efficient Photocatalyst for Oxidation for Aromatic Aldehydes

32. Porphyrin Derivatives for Medical/Biological Applications

Katriann Arja (Laboratory of Organic Electronics, Dept of Science and Technology, Linköping University, Norrköping, Sweden)

Synthesis of glycosylated ring-fused chlorins for use as photosensitizers in PDT

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A₃- and A₂B-corroles: Synthesis and antiviral activity evaluation against poxvirus infection

David Elzi (bioAffinity Technologies, San Antonio, USA), William Bauta, Jamila Sanchez, Trisha Das, Shweta Mogare, Peter Zannes Fatland, Vivienne Rebel

Meso-tetra (4-carboxyphenyl) porphyrin (TCPP) is taken up in cancer cells by the CD320 receptor

Yulia Gorbunova (Frumkin Institute of physical chemistry and electrochemistry of RAS, Moscow, Russia), Kirill P. Birin, Daria A. Polivanovskaia, Aslan Yu. Tsivadze

New approaches to hydrophilic porphyrins

Claude Gros (ICMUB (UMR CNRS 6302) Université Bourgogne Franche-Comté, Dijon, France), Nicolas Desbois, Sandrine Kappler-Gratias, Léo Bucher, Yoann Rousselin, Kerstin Bystricky, Franck Gallardo

A₃- and A₂B-corrols: Synthesis and antiviral activity evaluation against Human Cytomegalovirus Infection

Andrei Korolchuk (D. Mendeleev University of Chemical Technology of Russia, Faculty of Pharmaceutical Technology and Biomedical Products; Institute of Biomedical Chemistry, Moscow, Russia), Vladimir Zolottsev, Arif Mehtiev, Alexandra Latysheva, Yaroslav Tkachev, Roman Novikov, Galina Morozevich, Alexander Misharin, Geli Ponomarev

Conjugates of pyropheophorbide a with steroids as prospective anti-cancer agents

Margaret Murage (University of Nairobi, Nairobi, Kenya), Edward Muge, Betty Mbatia, Solomon Dereese, Tebello Nyokong, Edith Amuhaya

Synthesis, photo physical studies and photodynamic antimicrobial activity of 4-(10,15,20-tris(4-(dimethylamino)phenyl)porphyrin-5-yl)phenol porphyrin and its, Zn and In complexes

Matteo Rugiero (DBSV, Varese, Italy), Enrico Caruso, Miryam Chiara Malacarne, Marzia Bruna Gariboldi

Comparison on photodynamic activity among H₂-pyridylporphyrins and Zn-pyridylporphyrins alkylated with five different alkyl chain

34. Porphyrinoids-based nanoparticles for health

Enling Chang (Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, Canada), Juan Chen, Gang Zheng

Combination of photodynamic therapy and chemotherapy for cancer treatment by using paclitaxel loaded porphyrin-shelled nanoemulsions

Larissa Maiorova (Laboratory of Langmuir-Blodgett Technology, Institute of Macrocyclic Compounds/Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Olga Gromova, Ivan Torshin, Larissa Maiorova, Oscar Koifman, Denis Salnikov

Bioinformatic and chemoneurocytological analysis of the pharmacological properties of vitamin B₁₂ and some of its derivatives

Lukasz Sobotta (Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland), Dariusz T. Mlynarczyk, Rafal Krakowiak, Joanna Musial, Malgorzata Kucinska, Jadwiga Mielcarek, Marek Murias, Beata Stanis, Tomasz Goslinski

Porphyrazines combined with titanium dioxide – physicochemical properties as well as applications in pharmacy and medicine

35. Photodynamic Therapy: Basic Sciences and Clinical Research

Anastasiya Gorokhova (Lobachevsky State University Institute of Biology and Biomedicine, Nizhny Novgorod, Russia), Nina Peskova, Irina Balalaeva

Secondary Production of Hydrogen Peroxide in Cytoplasm and Mitochondria of PDT Treated Cells

Salih Zeki Yildiz (Sakarya University, Department of Chemistry, Sakarya, Turkey), Gamze Guney Eskiler, Mustafa Arslan, Tuna Demirci, Cemil Bilir, Hyun Soo Lim

1,4-Dihydropyridine Substituted Phthalocyanines: Synthesis, Characterization and Investigation of their PD anti-cancer activity

37. Tumor Targeting Agents for (Multi)modal Imaging and Theranostics

Mariana Vallejo (Department of chemistry/Universidade de Aveiro, Aveiro, Portugal), Sofia Serra, Vanda Serra, Nuno Moura, M.Graça Neves

New Polyelectrolyte Microcapsules loaded with Cationic Porphyrins for application in Photodiagnosis

38. Molecular-targeted photomedicine for precision therapy

Srivalleesha Mallidi (Tufts University, Medford, USA), Mohammad Saad, Robert Pawle, Jerrin Kuriakose, Marvin Xavierselvan, Larry Takiff, Mark Varvares, Tayyaba Hasan

Theranostic antibody conjugates for photoacoustic image-guided surgery and photodynamic therapy

39. Antimicrobial Photodynamic Therapy

Adelaide Almeida (Universidade de Aveiro, , Portugal), Cátia Vieira, Ana Gomes, Mariana Mesquita, Nuno Moura, Graça Neves, Amparo Faustino, Adelaide Almeida

An Insight Into the Potentiation Effect of Potassium Iodide on aPDT Efficacy

Adelaide Almeida (Universidade de Aveiro, Aveiro, Portugal), Maria Bartolomeu, Cristiana Oliveira, Carla Pereira, Graça Neves, Amparo Faustino, Adelaide Almeida

Photodynamic Inactivation of T4-like Bacteriophage in Wastewater

Zoé Arnaut (Coimbra Chemistry Center, University of Coimbra, Coimbra, Portugal, Coimbra, Portugal), Carolina Vinagreiro, Sandra Nunes, Alberto Pais, Sara Pinto, Luis Arnaut, Mariette Pereira

Computational design and synthesis of imidazolyl-tetrapyrrolic macrocycles based photosensitizers for photodynamic inactivation of micro-organisms

Rafael T. Aroso (Coimbra Chemistry Center, University of Coimbra, Coimbra, Portugal), Mario J.F. Calvete, Barbara Pucelik, Grzegorz Dubin, Luis G. Arnaut, Janusz M. Dabrowski, Mariette M. Pereira

Cationic Imidazolyl Photosensitizers for Inactivation of Microorganisms in Sub-micromolar Concentrations

Enrico Caruso (DBSV, Varese, Italy), Viviana Teresa Orlandi, Miryam Chiara Malacarne, Eleonora Martegani, Chiara Scanferla, Daniela Pappalardo, Giovanni Vigliotta, Lorella Izzo

BODIPY-Loaded Micelles Based on Polylactide as Surface Coating for Photodynamic Control of Staphylococcus aureus

Azole Sindelo (Chemistry/Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa), Anabel E Lanterna, Juan C Scaiano, Tebello Nyokong

Phthalocyanines Covalently Linked to Functionalized Glass Wool for Photocatalysis

40. Heme Proteins and Synthetic Analogues

Kazuki Kageyama (Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Osaka, Japan), Koji Oohora, Takashi Hayashi

Redox Responsive Behavior of Polyacrylamide Gel Cross-linked by Engineered Hexameric Hemoprotein

Koki Takeuchi (Department of Applied Chemistry, Osaka University, Suita, Japan), Shunsuke Kato, Takashi Hayashi

A High-throughput Screening System for Directed Evolution of Myoglobin Reconstituted with an Iron Corrole Complex

41. Catalysis in natural and biosynthetic heme proteins

Tapiwa Chiura (Saint Louis University, Saint Louis, USA), Piotr J. Mak

Resonance Raman studies of human heme oxygenase

Mary Grace Galinato (School of Science - Chemistry/Penn State Behrend, Erie, USA), Christopher D. Kimrey, Alexandra Alfonso Castro

Spectroscopic Studies and Globin-like Reactivities of Human Serum Albumin-Heme Complexed with N-donor Ligands

Yilin Liu (Department of Chemistry, Marquette University, Milwaukee, USA), Yelena V. Grinkova, Ilia G. Denisov, Stephen G. Sligar, James R. Kincaid

Study the active site proton delivery in ND: CYP17A1 by using resonance Raman Spectroscopy

Samuel Snyder (Saint Louis University, Saint Louis, USA), Piotr J. Mak

Resonance Raman studies of a non-canonical heme oxygenase from Mycobacterium tuberculosis

Remigio Usai (Chemistry Department, Marquette University, Milwaukee, USA), Daniel Kaluka, Daniel Sem

Accurately mapping substrate positioning in the active sites of Cytochromes P450

45. Bio-Inspired Electrocatalysis for Energy and Environment: Heme vs Non-heme - Best of both worlds

Hadi Pourhadi (Department of Chemistry and Biochemistry, University of North Carolina at Greensboro, Greensboro, USA), Shabnam Hematian

Heme/Cu Model Complexes: Potential Catalysts for Oxidative Chemistry

46. Theory and spectroscopy

Ali Tuna (University of Turku, Turku, Finland), Aleksey Kuznetsov

A Joint DFT and Experimental NMR Study for Diazahemiporphyrines

AUTHOR INDEX

Author Index

A

Aav, Riina, 26
 Abayzeed, Sidahmed A., 72
 Abbate, Sergio, 69
 Abdulaeva, Inna A., 72
 Abe, Masaaki, 15
 Abeykoon, Brian, 22
 Abrunhosa, Antero, 41
 Agapaki, Eleni, 56, 73
 Ageeva, Tatiana, 71, 72
 AghaAmiri, Solmaz, 41
 Alea-Reyes, María E., 36, 72
 Aleksandriiskii, Victor, 59
 Alexander, Morgan R., 72
 Alfonso Castro, Alexandra, 78
 Aljarilla, Ana, 44
 Alkorbi, Faeza, 44
 Allu, Srinivasa Rao, 71
 Almeida-Marrero, Verónica, 44, 64
 Almeida, Adelaide, 34, 35, 49, 61, 73, 77
 Almeida, José, 34, 60, 66
 Almeida, Miguel P., 59
 Altundal, Ahmet, 74
 Alvarez-Hernandez, Jose, 19
 Amabilino, David B., 36, 72
 Amatdjais-Groenen, Helene, 41
 Amuhaya, Edith, 34, 75, 76
 Anaya-Plaza, Eduardo, 44
 André, Laurie, 65
 Andrioletti, Bruno, 29
 Angeles-Boza, Alfredo, 75
 Ansteatt, Sara, 23
 Anteckka, Paulina, 71
 Anyka, Mercy, 48
 Appleton, Jordan, 66
 Aratani, Naoki, 39, 65
 Arbelo-Lopez, Hector, 20
 Ariga, Katsuhiko, 26
 Arja, Katriann, 75
 Armatas, Gerasimos, 73
 Arnaut, Luis G., 77
 Arnaut, Zoé, 77
 Aroso, Rafael T., 45, 77
 Arslan, Mustafa, 76
 Artemova, Anastasia, 52
 Astaf'ev, Sergei, 59
 Astashkin, Andrei, 46
 Ateyobi, Adewole O., 66
 Atilla, Devrim, 64, 74
 Atkins, William, 21
 Atoyebi, Adewole O., 69
 Aukauloo, Ally, 56, 57, 75
 Auwärter, Willi, 46
 Ayhan, Mehmet Menaf, 74
 Azhdarinia, Ali, 41

B

Baba, Kamal, 30
 Babu, Balaji, 34, 45
 Bai, Yusong, 33
 Balalaeva, Irina V., 47, 76
 Banala, Srinivas, 42
 Bania, Jyotsna, 13, 74
 Barata, Joana, 14, 65
 Barbon, Antonio, 25
 Barone, Giampaolo, 34
 Barrington, Tristan, 67
 Bartolomeu, Maria, 77
 Bassani, Dario, 25
 Basumatary, Biju, 67
 Bauer, Daniela, 43
 Bauta, William, 75
 Bayard, Brandon, 33, 72
 Baykal, Aslihan, 61
 Bellaye, Pierre-Simon, 23, 41
 Belousov, Mikhail, 63
 Belviso, Sandra, 47, 69
 Belyaev, Evgeny, 69
 Benazzi, Elisabetta, 57
 Bender, Timothy P., 52, 63
 Bengasi, Giuseppe, 30, 73
 Benson, William, 74
 Ber, Justyna, 69
 Berben, Louise, 58
 Bernard, Brianna, 25
 Bernhard, Claire, 23
 Bernhard, Yann, 41
 Bertagnoli, Stéphane, 75
 Bertran, Arnau, 25
 Beseiso, Dana, 53, 59
 Bhat, Ishfaq Ahmad, 13
 Białek, Michał J., 66
 Białońska, Agata, 22, 66
 Bichan, Nataliya, 39, 70
 Biel, Merrill, 51
 Bijigiri, Satish Kumar, 13, 67
 Bilir, Cemil, 76
 Birin, Kirill P., 72, 76
 Blank, David, 23
 Blondeau-Patissier, Virginie, 14, 65
 Bodio, Ewen, 23, 41
 Boer, Stephanie, 58
 Boitrel, Bernard, 32, 57
 Bojanowski, Nikodem, 64
 Borbone, Nicola, 53
 Borhan, Babak, 48
 Borisov, Sergey, 30
 Börjesson, Karl, 65
 Borner, Tito, 28
 Borodina, Tatiana, 73
 Borrós, Salvador, 44
 Boscher, Nicolas, 30, 73
 Botelho, Maria F., 65
 Bottari, Giovanni, 33, 52
 Bousquet-Melou, Alain, 75

Bouvet, Marcel, 30
 Bowen, Alice M., 25
 Brandès, Stéphane, 14, 65
 Braz, Joao, 65
 Bren, Kara, 19
 Brenig, Christopher, 43
 Britt, R.David, 21
 Britton, Jonathan, 49
 Brothers, Penelope, 22, 58
 Bruce, Gordon, 36, 72
 Brückner, Christian, 55, 66, 68, 69, 75
 Bruekers, Jeroen, 70
 Brun, Nicolas, 22
 Bucher, Léo, 75, 76
 Buczyńska, Joanna, 67
 Buffeteau, Thierry, 25
 Bukreeva, Tatiana, 73
 Burkut Koçak, Makbule, 63, 64
 Burmistrov, Vladimir, 59
 Burova, Anastasia, 73
 Busch, Theresa, 34
 Bystricky, Kerstin, 76

C

Caballero, Esmeralda, 44
 Cabanillas-Gonzalez, Juan, 71
 Calcutt, Louis J., 44
 Callier, Lucie P., 22
 Calliste, Claude A., 35
 Calmeiro, Joana M.D., 73
 Calvete, Mario J.F., 35, 45, 56, 75, 77
 Cammidge, Andrew, 44
 Campeciño, Julius, 21
 Cañizares, Elena, 44
 Canton-Vitoria, Ruben, 25
 Cao, Rui, 24
 Capuano, Rosa Maria, 26, 30
 Caraballo, Rolando Manuel, 72, 74
 Caramori, Stefano, 57
 Carbonera, Donatella, 25
 Cárdenas-Jirón, Gloria, 59, 71
 Cardenas-Morcoso, Drialy, 73
 Caroleo, Fabrizio, 30
 Carr, Cody R., 58
 Carrasco, Maria, 58
 Carrilho, Rui M.B., 45
 Caruso, Enrico, 34, 76, 77
 Carvalho, Mary-Ambre, 66, 70
 Casellas, Nicolás M., 37
 Castriciano, Maria Angela, 48, 54
 Castro, Kelly A.D.F., 34, 69
 Cavaleiro, José A.S., 14, 65, 69
 Çelik, Çetin, 63
 Centane, Sixolile, 37
 Cerqueira, Ana, 34
 Chahal, Mandeep K., 26
 Chakraborty, Debarshi, 48
 Chakraborty, Saikat, 19
 Chamberlain, Sarah, 50

- Chan, Chenming, 60
 Chan, Joseph, 29
 Chandel, Dolly, 70
 Chandra, Brijesh, 52
 Chang, Enling, 76
 Charalambidis, Georgios, 44, 56, 57, 72, 73, 74, 75
 Charisiadis, Asterios, 57
 Charron, Danielle M., 53
 Chattopadhyay, Buddhadeb, 32
 Chaudhri, Nivedita, 45, 66, 68
 Chen, Erin, 59
 Chen, Juan, 49, 53, 73, 76
 Chen, Qiucheng, 22, 65
 Cheng, Miffy Hok Yan, 53
 Cheruzel, Lionel, 19
 Cheung, Ying-Kit, 37
 Chino, Marco, 19
 Chitgupi, Upendra, 34
 Chitose, Youhei, 50
 Chiura, Tapiwa, 78
 Chmielewski, Piotr J., 67
 Cho, Beomhee, 67
 Cho, Dong-Gyu, 13, 67
 Choi, Hyosung, 45
 Choua, Sylvie, 66
 Chuo, Shih-Wei, 21
 Chuprin, Alexander, 66
 Ciambellotti, Silvia, 20
 Ciuti, Susanna, 25
 Clark, John, 55
 Clark, Matt, 72
 Clément, Sébastien, 22
 Collin, Bertrand, 23, 41
 Conceição, Pedro, 14, 65
 Conrad-Fletemeyer, Ulf, 43
 Conradie, Jeanet, 22, 63, 71
 Costa, Bruna D.P., 65
 Costa, Silvia, 59, 65
 Costas, Miquel, 54
 Coutsolelos, Athanassios G., 44, 56, 57, 72, 73, 74, 75
 Cramer, Emma, 16
 Crassous, Jeanne, 70
 Cunha-Silva, Luís, 71
 Cunha, A, 34
 Curtis, Clayton, 46
- D**
 D'Souza, Francis, 23, 25, 26, 29, 33, 44
 D'Urso, Alessandro, 48, 53, 70, 74
 da Silva, Roberto S., 69
 Dabrowski, Janusz M., 49, 77
 Dai, Tianhong, 35
 Daidone, Isabella, 59
 Daina, Sara, 65
 Dal Farra, Maria Giulia, 25
- Dalkilic, Zeynep, 45
 Damas, Liliana, 45
 Damiano, Caterina, 32
 Damunupola, Dinusha, 66
 Daniel-da-Silva, Ana L., 14, 65
 Das, Trisha, 75
 Davis, Scott, 42
 de Castro, Baltazar, 59, 70
 De Jonghe, Bart, 28
 de la Escosura, Andres, 44
 de la Torre, Gema, 26
 De Wael, Karolien, 59
 De Zotti, Marta, 25
 De, Siddhartha, 22
 Decréau, Richard, 41
 DeGrado, William, 59
 Dekkiche, Hervé, 66
 Demirci, Tuna, 76
 Demmy, Todd, 50
 Demuth, Jiří, 36, 63, 64, 69
 Denat, Franck, 23, 41
 Denis, Morgane, 22
 Denisov, Ilia G., 78
 Denizati, Serpil, 74
 Derese, Solomon, 34, 76
 Deria, Pravas, 25
 Derks, Yvonne, 41
 Desbois, Nicolas, 14, 53, 65, 68, 75, 76
 Devic, Thomas, 22
 Devillers, Charles H., 22, 59
 Dexter, Elisabeth, 50
 Dey, Abhishek, 56
 Di Natale, Corrado, 26, 30, 71
 Di Valentin, Marilena, 25
 Diaz-Moscoso, Alejandro, 44
 Ding, Song, 28
 Djemili, Ryan, 59
 Dlugaszewska, Jolanta, 64, 65
 Dobrindt, Ulrich, 35
 Donzello, Maria Pia, 63
 Doyle, Robert, 28
 Drivas, Charalambos, 73
 Dubazana, Nadine, 23
 Dubey, Sunil K., 34
 Dubin, Grzegorz, 77
 Dubinina, Tatiana, 52, 63
 Duch, Marta, 36, 72
 Dudkin, Semyon, 66
 Dudziak, Ewa, 22
 Duffý, M.J., 44
 Dumoulin, Fabienne, 37
 Durán, Gonzalo, 45
 Durot, Stéphanie, 59
 Durrani, Farukh A., 34
 Dutta, Arnab, 67
 Dutta, Ranjan, 16
- E**
 Edo-Osagie, Amy, 71
 Edwards, Emily, 19
 Efimov, Artem, 72
 El Assaad, Tarek, 74
 El Bitar Nehme, Mélissa, 54
 El Kihel, Abdechakour, 35
 Elemans, Hans, 37, 70
 Elzi, David, 75
 Eroğlu, Özge, 74
 Erokhin, Victor, 59
 Erokhina, Svetlana, 59
 Escayola Gordils, Silvia, 63
 Eulálio, Ana, 39
 Eusébio, Maria Ermelinda S., 56, 75
 Ewies, Ewies F., 60
- F**
 Fabre, Gabin, 35
 Falanga, Andrea, 53
 Fan, Hongyou, 56
 Fang, Yuanyuan, 45, 65, 74
 Farac, Nina, 63
 Farajzadeh, Nazli, 63, 64
 Farinone, Marco, 64
 Fateeva, Alexandra, 22
 Fateixa, Sara, 65
 Faust, Rüdiger, 63
 Faustino, Maria A.F., 34, 35, 49, 61, 69, 73, 77
 Fazlyeva, Alina, 69
 Feigin, Lev, 73
 Fernández-Lázaro, Fernando, 33, 44
 Ferrante, Margherita, 74
 Filatov, Vasily, 59
 Fita, Piotr, 15
 Flanagan, Keith J., 71
 Fliegl, Heike, 17
 Folana, Jorge, 56
 Follana-Berna, Jorge, 33
 Fomichev, Valeriy, 71
 Fong, Wing-Ping, 37
 Fonseca, Alba, 37
 Fordjour, Natalie, 50
 Fragalà, Maria Elena, 48, 74
 Framery, Eric, 29
 Franzini, Roberta, 69
 Freire, Carmen S.R., 65
 Fry, Harry Christopher, 36
 Fuentes Dominguez, Rafael, 72
 Fuertes-Espinosa, Carles, 54
 Fujii, Hiroshi, 21
 Fukui, Norihito, 68, 70
 Fukuyama, Kazuki, 67
 Furrer, Julien, 49
 Furtmüller, Paul, 61
 Furuta, Hiroyuki, 13, 46, 55, 65, 67
 Furutani, Kazuhiro, 60
 Furuyama, Taniyuki, 27, 59, 68
 Futagawa, Hiroki, 15

INDEX

- G**
 Gabelica, Valerie, 53
 Gabler, Thomas, 61
 Gaeta, Massimiliano, 48, 70, 74
 Gajewska, Agnieszka, 67
 Galinato, Mary Grace, 78
 Gallagher, Elizabeth, 59
 Gallardo, Franck, 75, 76
 Gallego, Lucia, 54
 Gallo, Emma, 32
 Galstyan, Anzhela, 35
 Gamelas, Sara R.D., 73
 Ganesan, Asaithampi, 44
 Ganga-Sah, Yumeela, 60
 Gao, Hu, 16
 Garcia-Borràs, Marc, 54
 García-Iglesias, Miguel, 37
 García-Simón, Cristina, 54
 Gariboldi, Marzia Bruna, 34, 76
 Gawne, Peter, 41
 Gazetas, Pascal, 26
 Geeraerts, Zachary, 21
 Geraldens, Carlos, 41
 Ghavam, Ameen, 46
 Ghazal, Basma, 44, 60
 Ghiladi, Reza A., 35
 Gholami, Hadi, 48
 Ghosh, Abhik, 14, 22
 Ghosh, Sukhen, 41
 Gianga, Tiberiu M., 44
 Giedyk, Maciej, 56
 Giuntini, Francesca, 34, 49
 Gjuroski, Ilche, 49
 Glazkova, Maria, 71
 Gobbo, Marina, 25
 Gobeze, Habtom B., 25
 Godard, Amelie, 41
 Golding, Bernard, 43
 Golec, Barbara, 67
 Golszewska, Katarzyna, 56
 Golubev, Denis, 71
 Gomes, Ana T.P.C., 49, 73, 77
 Gómez, Laura, 54
 Gómez, Sergio, 72
 Goncharova, Olga, 59
 Gonglach, Sabrina, 14
 Gonzalez, Andreia C.S., 45
 Goodin, David, 21
 Gorbunova, Yulia G., 22, 45, 72, 76
 Görner, Helmut, 43
 Gorokhova, Anastasiya, 76
 Gorshkova, Anastasiya, 71
 Gorun, Sergiu, 44
 Goslinski, Tomasz, 47, 69, 71, 76
 Gotico, Philipp, 57
 Gotthardt, Martin, 41
 Götz, Robert, 58
 Goze, Christine, 23, 41
 Granados Tavera, Kevin, 71
 Gray, Harry B., 55
 Graybeal, Alexis, 16
 Green, Michael, 19
 Gretton, Jacob, 44
 Grinkova, Yelena V., 78
 Gromova, Olga, 76
 Gros, Claude P., 14, 53, 65, 68, 75, 76
 Gross, Zeev, 14, 22, 41, 65
 Groves, John T., 32
 Gryko, Daniel, 55
 Gryko, Dorota, 40, 56
 Gudeman, Cyrus, 16
 Guérin, Charles, 29
 Guilleme, Julia, 33
 Guillou, Nathalie, 22
 Guldi, Dirk M., 25, 33, 52, 73
 Guldi, Rebecca, 26
 Gümüşgöz Çelik, Gizem, 64, 74
 Guney Eskiler, Gamze, 61, 76
 Gupta, Iti, 13, 75
 Gürek, Ayşe Gül, 64, 74
 Guskov, Sergey, 64
 Gust, Devens, 57
 Gutiérrez-Vilchez, Ana María, 44
 Guzmán, David, 44
- H**
 Ha, Summer Y.Y., 44
 Haar, Lauren, 28
 Haas, Michael, 14
 Habensus, Iva, 46
 Hackett, John, 21
 Hague, Richard H., 72
 Halašková, Marie, 64
 Halime, Zakaria, 57, 75
 Hamdoush, Mahmoud, 47
 Hamer, Mariana, 72, 74
 Han, Qiwei, 33
 Hannonen, Jenna, 75
 Hanusova, Michaela, 69
 Harmandar, Kevser, 64
 Harmatys, Kara M., 53
 Harris, Jessica, 23
 Harvey, Pierre D., 27
 Hasan, Tayyaba, 38, 50, 77
 Hassa, Karolina, 66
 Hayashi, Takashi, 19, 77
 Hayes, Matthew, 28
 Hegg, Eric L., 21
 Heitz, Valérie, 34, 59, 71
 Hellinghuizen, Matthijs, 70
 Hematian, Shabnam, 58, 78
 Henkel, Christian, 73
 Hennink, Wim, 42
 Hennon, Mark, 50
 Hernandez Vargas, Servando, 41
 Herrera, Facundo, 74
 Heskamp, Sandra, 41
 Higuchi, Yoshiki, 19
 Hildebrand, Mariana, 52
 Hill, Jonathan, 26
 Hirota, Shun, 19
 Hiroto, Satoru, 29
 Hirsch, Lionel, 25
 Hisaeda, Yoshio, 15, 28
 Hlatshwayo, Zweli, 23
 Hofbauer, Stefan, 61
 Hoffman, Brian M., 38
 Holst, Devon P., 52
 Hölzel, Helen, 26
 Holzer, Noah, 33, 72
 Honda, Yusuke, 70
 Hong, Seong Jin, 16
 Honma, Kiyo, 50
 Hu, Yi, 29
 Huang, Laihui, 74
 Hurej, Karolina, 22
 Husain, Ali, 44
- I**
 Ikbal, Sk Asif, 70
 Imahori, Hiroshi, 25
 Imai, Eiyu, 27
 Imaz, Inhar, 54
 Ipuy, Martin, 23
 Isaac-Lam, Meden, 61
 Isci, Umit, 61
 Ishida, Masatoshi, 13, 55, 65, 67
 Ishida, Shin-ichiro, 68
 Ishii, Takashi, 27
 Ishikawa, Naoto, 27
 Ishikawa, Sari, 68
 Ishimori, Koichiro, 19
 Ishizuka, Tomoya, 40
 Islyaikin, Mikhail, 44, 64
 Isoda, Maika, 70
 Ivancich, Anabella, 19
 Ivanov, Evgenii, 44, 64
 Iwanaga, Osamu, 67
 Izzo, Lorella, 77
- J**
 Jacquot de Rouville, H.P., 71
 Jafari, Seid, 73
 Jain, Akhil, 36, 72
 Jang, Woo-Dong, 16
 Jang, Youngwoo, 25
 Jaworska, Ewa, 30
 Jayaprakash, Ajay, 13
 Jayawickramarajah, Janarthanan, 44
 Jean-Gérard, Ludivine, 29
 Jean, Marion, 70
 Jeanneau, Erwann, 22
 Jelusic, Jana, 19
 Jenni, Sébastien, 68
 Jeong, Eunjeong, 39
 Ji, Jeong Min, 39

- Jiang, Chenyu, 35
 Jiang, Ting, 33
 Jing, Yuanqi, 67
 Jose, K.V. Jovan, 52
 Joseph, Jan, 73
 Juanhuix, Judit, 54
 Jux, Norbert, 26
- K**
 Kadish, Karl M., 14, 45, 65
 Kageyama, Kazuki, 77
 Kai, Hiroto, 55
 Kalaiselvan, Arumugan, 13
 Kalkan Burat, Ayfer, 45
 Kaluka, Daniel, 78
 Kandrashkin, Yuri, 33
 Kang, Seongsoo, 68
 Kanyan, Deepika, 58
 Kappler-Gratias, Sandrine, 75, 76
 Karg, Cornelia, 43
 Karr, Paul A., 26, 44
 Kashida, Hiromu, 53
 Kato, Shunsuke, 77
 Katsurayama, Yoshino, 68
 Kaushal, Meesha, 18
 Kawata, Takahiro, 29
 Kempel, Samuel, 16
 Kennou, Stella, 73
 Kessel, David, 50
 Khade, Rahul, 21
 Khan, Amjad, 50
 Khan, Firoz, 58
 Kharchenko, Anastasiia, 15, 67
 Khene, Samson, 15, 49
 Khoury, Sally, 14
 Kiessling, Fabian, 42
 Kim, Dongho, 31, 68
 Kim, Hwan Kyu, 39
 Kim, Yeon-Jeong, 49
 Kimrey, Christopher D., 78
 Kincaid, James R., 21, 78
 Kip, Annemarie, 41
 Kirk, Martin, 25
 Kise, Koki, 63
 Kishore M., V. Nanda, 13, 74
 Klán, Petr, 50
 Klapshina, Larisa G., 47
 Klyueva, Marija, 70
 Knör, Günther, 66
 Ko, Min-Sung, 67
 Kobayashi, Nagao, 29, 59
 Kociscakova, Lucia, 64
 Koczorowski, Tomasz, 69, 71
 Koebke, Karl J., 19
 Koga, Daiki, 15
 Koifman, Michael, 72
 Koifman, Oskar, 44, 59, 64, 71, 72, 73, 76
 Kojima, Takahiko, 40
 Kolarova, Michaela, 69
 Kolios, Michael, 49
 Kollár, Jan, 64
 Kolomeychuk, Filipp, 45
 Komamura, Keiyu, 40
 Konev, Dmitry, 59
 Koniarz, Sebastian, 67
 Konovalov, Oleg, 59
 Koptyaev, Andrey, 63
 Korolchuk, Andrei, 76
 Korolev, Victor, 39
 Kosov, Anton, 63
 Kostelansky, Filip, 69
 Kostianinen, Mauri, 44
 Kostrova, Ekaterina, 64
 Kotkowiak, Michał, 64
 Kovkova, Ulyana, 47, 63
 Kozhemyakin, Grigory, 69
 Kozlovskiy, Viatcheslav, 59
 Kracher, Daniel, 71
 Krakowiak, Rafal, 69, 76
 Kräutler, Bernhard, 28
 Krisch, Dominik, 14
 Krishna, Kowthavarapu V., 34
 Kroitor, Andrey P., 22
 Kronik, Leor, 52
 Kryjewski, Michał, 64
 Kubheka, Gugu, 23
 Kucera, Radim, 69
 Kucinska, Malgorzata, 76
 Kudrik, Evgeny, 59, 72, 73
 Kuimova, Marina, 24
 Kumar, Abhishek, 30
 Kumar, B. Sathish, 52
 Kumar, Sandeep, 45
 Kupietz, Kamil, 66
 Kuriakose, Jerrin, 77
 Kurniawan, Fransiska, 61
 Kurokawa, Hiromi, 37
 Kuznetsov, Aleksey, 78
 Kuzuhara, Daiki, 15, 65
 Kwiatkowski, Carly, 18
- L**
 La Gatta, Salvatore, 19
 Labella, Jorge, 45, 52
 Labuta, Jan, 26
 Lacerda, Paula, 14, 65
 Lacroix, Marlène, 75
 Ladomenou, Kalliopi, 73, 74
 Landrou, Georgios, 73, 74
 Lanterna, Anabel E, 77
 Laranjo, Mafalda, 65
 Lash, Timothy D., 16, 68
 Laterna, Anabel, 75
 Latham, Alissa, 68
 Latos-Grażyński, Lechosław, 22, 66
 Latysheva, Alexandra, 76
 Lavarda, Giulia, 33, 52
 Lawrence, David, 28
 Le Breton, Nolwenn, 66
 Le Gac, Stéphane, 32
 Le Guern, Florent, 35
 Le, Jennifer, 19
 Leanza, Luigi, 73
 Lebrun, Aurélien, 22
 Lee, Chang Hee, 16
 Lee, Cheong B., 45
 Lee, Hosoo, 16
 Lee, Min Seob, 49
 Lee, Sang Hyeob, 49
 Lee, Woo Kyoung, 49
 Lehnert, Nicolai, 21
 Leibl, Winfried, 56, 57, 75
 Leite, Andreia, 60, 66
 Leone, Linda, 19
 Lermontova, Svetlana A., 47
 Leroy-Lhez, Stéphanie, 35
 Lescure, Robin, 41
 Leznoff, Daniel B., 44, 59, 60
 Lhenry, Damien, 23
 Li, Chengjie, 43
 Li, Xiaofang, 67
 Li, Xuecong, 43
 Lijewski, Sebastian, 64
 Lim, Gary, 33
 Lim, Hyun Soo, 76
 Limón, David, 36, 72
 Lin, Christie, 41
 Lin, Linda, 53
 Lin, Zhi, 61
 Lindsey, Jonathan S., 68
 Lioret, Vivian, 41
 Listkowski, Arkadiusz, 15, 67
 Liu, Bowen, 58
 Liu, Huiru, 60
 Liu, Kaixuan, 25
 Liu, Ningchao, 74
 Liu, Rui, 59
 Liu, Siyu, 70
 Liu, Tingting, 60
 Liu, Yang, 49
 Liu, Yanna, 42
 Liu, Yilin, 67, 78
 Lo, Pui-Chi, 24
 Lobo Ferreira, Ana I.M.C., 66
 Lochman, Lukas, 64
 Lodeiro, Carlos, 69
 Loewen, Natalia D., 58
 Lombardi, Angela, 19
 Lomova, Tatyana, 39, 70
 Longhi, Giovanna, 69
 Lonin, Ivan, 69
 Lopes, Susana M.M., 65
 Lopez-Garriga, Juan, 20
 Louison, Matthieu, 75
 Loukakos, Panagiotis A., 72
 Lourenço, Leandro M.O., 37, 73
 Louzada, Marcel, 15
 Lovell, Jonathan F., 34, 37
 Lovell, Scott, 19
 Lowik, Dennis, 41
 Lu, Yi, 21

INDEX

Luciano, Michael P., 69
 Ludwig, Roland, 71
 Lukat-Rodgers, Gudrun, 21
 Lungerich, Dominik, 26
 Lutje, Susanne, 41
 Ly, Hoang Khoa, 58
 Lyubimtsev, Alexey, 72
 Lopes, Susana M.M., 65

M

Ma, Su, 71
 Macháček, Miloslav, 63, 64
 Mack, John, 18, 23, 34, 45, 49, 75
 Maeda, Hajime, 68
 Maglio, Ornella, 19
 Magna, Gabriele, 26, 30
 Mahammed, Atif, 14
 Mahmoudi, Leila, 43
 Mai, Zhiming, 50
 Maindron, Nicolas, 23
 Maiorova, Larissa, 59, 72, 73, 76
 Mak, Piotr J., 21, 78
 Makhseed, Saad, 44, 60
 Maksymiuk, Krzysztof, 30
 Malacarne, Miryam Chiara, 34, 76, 77
 Maldonado-Carmona, Nidia, 35
 Mallidi, Srivalleesha, 50, 77
 Malyasova, Alena, 64
 Mamardashvili, Galina, 72
 Mamardashvili, Nugzar, 72
 Managa, Muthumuni, 35, 37, 49, 53
 Mandoj, Federica, 14
 Mang, Thomas, 50
 Mann, Samuel, 59
 Mapukata, Sivuyisiwe, 61
 Marchand, Guillaume, 35
 Marciel, Lucia, 35
 Margaritopoulou, Alexandra, 72
 Marko, Aimee J., 34
 Marsico, Giulia, 69
 Martegani, Eleonora, 77
 Martin, Max, 26
 Martínez-Díaz, M. Victoria, 45, 52, 63
 Martínez-Edo, Gabriel, 44
 Martínez-García, Miguel, 52
 Martynov, Alexander G., 22
 Marvin, Christina, 28
 Maspoch, Daniel, 54
 Matano, Yoshihiro, 46
 Mateo, Luis, 33
 Matito, Eduard, 63
 Matos, Gabriela, 14
 Matshitse, Refilwe, 49
 Matsui, Hirofumi, 37
 Matsuo, Yusuke, 69
 Matsushita, Yoshitaka, 26
 Matthews, Hannah, 58
 Maurya, Yogesh Kumar, 65
 May, Aviwe, 18, 23
 Mayther, Maximillian, 25

Mazzaglia, Antonino, 36
 Mbakara, Idaresit, 67
 Mbatia, Betty, 76
 McCarthy, Sawyer, 53, 59
 McKearney, Declan, 60
 Medforth, Craig J., 59, 70
 Mehtiev, Arif, 76
 Meier, Max, 49
 Meixner, Alfred J., 71
 Mendes, Adélio, 39, 74
 Merkes, Jean Michel, 42
 Meshkov, Ivan, 45
 Mesquita, Mariana, 77
 Meunier-Prest, Rita, 30
 Miao, Joanne, 59
 Michalska, Agata, 30
 Middleton, Camilla, 18
 Mielcarek, Jadwiga, 64, 65, 76
 Miletin, Miroslav, 36, 69
 Misra, Rajneesh, 23
 Misharin, Alexander, 76
 Mitchell, Devon, 60
 Mitraki, Anna, 44, 72, 73
 Mitropoulou, Konstantina, 44, 73
 Mitzi, David, 33
 Miyagawa, Kazuya, 68
 Miyanishi, Takuya, 67
 Miyazaki, Takaaki, 67
 Miyazaki, Yuta, 19
 Mizrahi, Amir, 14
 Mizuno, Takumi, 71
 Mlynarczyk, Dariusz T., 69, 76
 Mo, Yulin, 73
 Mockridge, Jack, 49
 Mogare, Shweta, 75
 Moiseeva, Ekaterina, 63
 Monge, Emma, 75
 Moniz, Tânia, 70
 Monsù Scolaro, Luigi, 36, 48, 54
 Monteiro, Carlos, 61
 Montforts, Franz-Peter, 43
 Monti, Donato, 26, 30
 Mony, Jürgen, 65
 Moore, Ana L., 57
 Moore, Gary F., 56, 57
 Moore, Thomas A., 57
 Mora, S.Jimena, 57
 Moreau, Mathieu, 23
 Moreira, Inês, 60
 Moreira, Maria I.F., 66
 Moreno Simoni, Marta, 26
 Moriwaki, Kazuyuki, 71
 Morozevich, Galina, 76
 Moser, Simone, 43
 Moss, Austen, 29, 68
 Motorina, Elena, 39
 Mouchaham, Georges, 22
 Moura, Nuno M.M., 34, 39, 69, 74
 Moura, Nuno, 59, 77
 Muge, Edward, 76
 Mukherjee, Manjitha, 56

Mukhopadhyay, Arindam, 25
 Murage, Margaret, 34, 76
 Muranaka, Atsuya, 27
 Murayama, Tomotaka, 27
 Murias, Marek, 76
 Musial, Joanna, 76
 Myśluborski, Radomir, 22

N

Naaman, Ron, 25
 Nabatov, Boris, 73
 Nagamaiah, J. 67
 Nagano, Jun, 46
 Nagao, Satoshi, 19
 Nakai, Akito, 68
 Nakajima, Kana, 70
 Narayanan, Deepa, 51
 Nardis, Sara, 30
 Natri, Flavia, 19
 Navarro-Pérez, Valeria, 44
 Ndebele, Nobuhle, 23
 Nemykin, Victor N., 23, 52
 Nesterov, Vladimir, 68
 Neves, Maria da Graça P.M.S., 14, 34, 35, 39, 59, 61, 65, 69, 73, 74, 77,
 Ng, Dennis K.P., 29, 37, 44
 Ng'ang'a, John, 75
 Ngoy, Bokolombe Pitchou, 53, 18, 23, 49
 Nguyen, Nghi, 56
 Nicoludis, Jack (John), 53
 Nielsen, Mogens Brondsted, 52
 Nikolaou, Vasilis, 44, 57, 73, 75
 Nikoloudakis, Emmanouil, 44, 56, 57, 72, 73
 Nishiori, Daiki, 56
 Nishiyama, Akihide, 46
 Nogueira, Ana Teresa, 39, 74
 Nogueira, Helena, 65
 Nolte, Roeland, 70
 Nonell, Santi, 26
 Norvaisa, Karolis, 71
 Nováková, Veronika, 36, 52, 63, 64
 Novikov, Igor, 59
 Novikov, Roman, 76
 Nunes, Sandra, 77
 Nwahara, Nnamdi, 37
 Nwaji, Njemuwa, 34
 Nwogu, Chummy, 50
 Nxele, Siphesihle Robin, 40
 Nyokong, Tebello, 18, 23, 31, 34, 35, 37, 40, 45, 49, 53, 61, 75, 76, 77

O

Obinger, Christian, 61
 Obondi, Christopher, 33
 Ociepa, Michal, 56
 Odella, Emmanuel, 57
 Odobel, Fabrice, 56
 Ogawa, Ayumu, 40
 Ogawa, Takuji, 60, 70
 Okawara, Toru, 15

- Okujima, Tetsuo, 55
 Oliveira, Cristiana, 77
 Oliveira, Sabrina, 42
 Oliveri Conti, Gea, 74
 Olivier, Jean-Hubert, 25
 Oliviero, Giorgia, 53
 Olsson, Thomas, 65
 Oluwole, David, 34, 40
 Oñate, Ruben, 40
 Ono, Toshikazu, 15
 Oohora, Koji, 40, 77
 Ooi, Shota, 14
 Openda, Yolande, 35
 Orbelli Biroli, Alessio, 57
 Orellana, Ana, 40
 Orlandi, Viviana Teresa, 77
 Orlova, Natalia, 28
 Orłowski, Rafał, 55
 Orphanos, Emmanouil, 74
 Ortiz, Javier, 44
 Ostapko, Jakub, 67
 Osterloh, W. Ryan, 14, 45, 65
 Osuka, Atsuhiko, 14, 63, 66, 68, 69
 Ottosson, Henrik, 17
 Ou, Zhongping, 74
 Ouedraogo, Seydou, 30
 Ouk, Tan-Sothéa, 35
 Ovchenkova, Ekaterina, 70
 Oyarzún, Maria Paz, 40
 Oyim, James, 34, 75
- P**
 Paco, Lorela, 21
 Pacquelet, Sandrine, 65
 Pais, Alberto, 77
 Pakhomov, Georgy L., 47, 63
 Panagiotakis, Stylianos, 73
 Panariti, Daniele, 25
 Panda, Pradeepta K., 13, 52, 60, 66, 67, 68, 70, 74
 Pandey, Ravindra K., 34; 51
 Pandey, Vijayalakshmi, 13, 75
 Pantos, G. Dan, 44
 Paolesse, Roberto, 14, 26, 30, 71
 Papadopoulos, Ilias, 52
 Pappalardo, Daniela, 77
 Parella, Teodor, 54
 Patel, Jully, 56
 Pathak, Pravin, 44
 Pati, Narendra Nath, 13, 60, 67
 Paul-Roth, Christine O., 18
 Paul, Catherine, 41
 Paulino, Victor, 25
 Paulo, Pedro, 59
 Pavan, Giovanni, 73
 Pawle, Robert, 77
 Pawlicki, Miłosz, 22, 64, 72
 Payne, Daniel T., 26
 Pechnikova, Nadezhda, 72
 Pecoraro, Vincent L., 19
 Peixoto, Ana, 35
 Peljo, Pekka, 75
 Pellegrino, Anna Lucia, 73
 Pelmus, Marius, 64
 Pelton, Mathew, 23
 Pereira, Ana M.V. Mafalda, 39, 74
 Pereira, Carla, 77
 Pereira, Eulália, 59
 Pereira, Mariette M., 34, 35, 41, 45, 56, 75, 77
 Pereira, Rute, 14
 Perez-Garcia, Lluisa, 36, 72
 Peskova, Nina N., 47, 76
 Petrovskaya, Lyudmila, 73
 Petrusevich, Elizaveta, 52
 Pfanzagl, Vera, 61
 Philippova, Yana, 44, 64
 Piatkowski, Lukasz, 71
 Piccialli, Gennaro, 53
 Piccirillo, Giusi, 56, 75
 Pichuzhkin, Egor, 64
 Picone, Anthony, 50
 Pigiaki, Maria, 72
 Pineiro, Marta, 65
 Pinho e Melo, Teresa M.V.D., 65
 Pinto, Ricardo J.B., 65
 Pinto, Sara, 41, 77
 Pisani, Michela, 59
 Piskorz, Jaroslaw, 65
 Plaza, José A., 36, 72
 Plekhanov, Vladimir I., 47
 Pliquet, Jacques, 23, 41
 Poater, Albert, 63
 Poddar, Madhurima, 23
 Poddutoori, Prashanth, 33, 72, 74
 Polivanovskaia, Daria A., 76
 Polizzi, Nicholas, 59
 Polychronaki, Maria N., 72
 Pomarico, Giuseppe, 14
 Ponce, Ingrid, 40
 Ponomarev, Gellii, 69, 76
 Ponsot, Flavien, 68
 Pontón, Iris, 44
 Popov, Anton A., 63
 Porolnik, Weronika, 65
 Pourhadi, Hadi, 58, 78
 Pozzoli, Alessandro, 49
 Prinsloo, Earl, 34, 37, 45
 Privat, Malorie, 23, 41
 Ptaszek, Marcin, 23
 Pucelik, Barbara, 77
 Pugliese, Eva, 57
 Pujals, Miriam, 54
 Punchi Hewage, Achala, 19
 Puri, Anu, 34
 Purrello, Roberto, 48, 53, 74
 Püschmann, Sabrina, 30
 Pushkarev, Victor, 52, 59
- Q**
 Qiu, Fengxian, 74, 75
 Quan, Gia Co, 22
 Quaranta, Annamaria, 56, 57
 Queirós, Carla, 34, 71
 Quentin-Froignant, Charlotte, 75
 Quesneau, Valentin, 14
- R**
 Rabjohns, Emily, 28
 Rago, Aurélie, 29
 Rahali, Asma, 44
 Rahman, Md.Hafizur, 20
 Raja Sekhar, Adiki, 50
 Rajasree, Sreehari, 25
 Ramazanova, Anna, 39
 Rana, Anup, 67
 Randazzo, Rosalba, 48
 Rangel, Maria, 34, 60, 66, 70
 Rasadean, Dora M., 44
 Rath, Sankar Prasad, 48
 Ratuszna, Alicja, 43
 Rawson, Frankie J., 36, 72
 Ray, Jyoti, 14
 Rebel, Vivienne, 75
 Rebelo, Susana, 59, 70
 Rębiś, Tomasz, 64, 71
 Recio, Francisco Javier, 40
 Reger, David, 26
 Reis, Melani J.A., 39, 74
 Remita, Hynd, 56
 Ren, Demin, 67
 Renzi, Emilia, 19
 Revuelta-Maza, Miguel Angel, 26
 Reyes Cruz, Edgar, 56
 Ribas, Xavi, 54
 Ribeiro, Cláudia P.S., 73
 Richeter, Sébastien, 22
 Rickhaus, Michel, 54
 Rijpkema, Mark, 41
 Rivera, Mario, 19
 Roberts, Ryan, 60
 Rodgers, Kenton, 21
 Rodriguez-Mackenzie, Angel, 20
 Rodriguez-Morgade, M. Salome, 44
 Rogers, Stephen, 50
 Rohal, Renu Kumari, 68
 Romeo, Andrea, 48, 54
 Rong, Jian, 74, 75
 Rosales, Rafael, 41
 Rose, Clémence, 22
 Rousselin, Yoann, 76
 Roy, Indranil, 49
 Rueping, Magnus, 42
 Ruffin, Hervé, 32
 Rugiero, Matteo, 76
 Rumyantseva, Valentina, 71

INDEX

Ruppel, Michael, 26
 Ruppert, Romain, 66, 70
 Rurack, Knut, 29
 Russegger, Andreas, 30
 Ryan, Michael, 20
 Rybicka-Jasinska, Katarzyna, 25

S

Saad, Mohammad, 77
 Sabapathi, Gokulnath, 13
 Sadak, Ali Enis, 74
 Sadhu, Subha, 25
 Sadocco, Patrizia, 65
 Saegusa, Yuta, 40
 Safonova, Evgeniya, 45
 Saha, Bapan, 70
 Saha, Ranendra N., 34
 Sahin, Ayşe Nur, 74
 Sahin, Belgin, 64
 Sahoo, Sameeta, 13, 66, 67, 70
 Sahoo, Sipra Sucharita, 13, 68, 74
 Salnikov, Denis S., 63, 73, 76
 Saltsman, Ira, 14
 Samperi, Mario, 36, 72
 Sancey, Lucie, 41
 Sánchez Resa, Daniel, 71
 Sánchez-García, David, 44
 Sanchez, Jamila, 75
 Sandrez, Simon, 25
 Sanjuan-Alberte, Paola, 36, 72
 Sankar, Muniappan, 16, 45, 66, 68
 Santos, Carla I.M., 34
 Santos, Luis M.N.B.F., 66
 Santos, Patricia, 35
 Sastre-Santos, Ángela, 33, 44, 56
 Satake, Akiharu, 46
 Sathish Kumar B., 74
 Sawai, Hitomi, 19
 Scaiano, Juan, 75, 77
 Scanferla, Chiara, 77
 Schachinger, Franziska, 71
 Schäfer, Clara, 65
 Scheiblbrandner, Stefan, 71
 Schoefberger, Wolfgang, 14
 Scholle, Frank, 35
 Schrage, Briana R., 52
 Schwaiger, Lorenz, 71
 Schwalbe, Matthias, 58
 Seetharaman, Sairaman, 33, 44
 Segi, Masahito, 68
 Sem, Daniel, 78
 Semlej, Tomas, 69
 Sen, Pinar, 35
 Senge, Mathias O., 34, 71
 Serpetzoglou, Efthymis, 72
 Serra, Sofia G., 34, 59, 77
 Sessler, Jonathan, 16
 Shafirstein, Gal, 50
 Shamova, Liliya, 23

Shapiro, Bruce A., 34
 Sharma, Vinay, 41
 Shaw, Andie J., 72
 Shea, Michael, 74
 Shen, Huiying, 35
 Shen, Zhen, 16
 Shibu, Abhishek, 18
 Shilov, Ivan, 72
 Shilyagina, Natalia N., 47
 Shimada, Takahide, 65
 Shimizu, Soji, 13, 46
 Shimomura, Keito, 55
 Shin, Ji-Young, 13, 73
 Shinde, Jivan S., 23
 Shinjo, Hyuga, 15
 Shinokubo, Hiroshi, 17, 67, 68, 70
 Shiozaki, Mai, 67
 Shkirdova, Alena, 69
 Shoji, Osami, 19
 Shultz, David A., 25
 Sigov, Aleksander, 71
 Silber, Vincent, 70
 Silva, Ana M.G., 34, 60, 66, 71
 Silvestre, Armando, 65
 Simakov, Anton, 59
 Sindelo, Azole, 61, 77
 Siri, Olivier, 55
 Skvortsov, Ivan, 47, 52, 63, 69
 Sligar, Stephen G., 78
 Smirnov, Alexander, 72
 Smirnova, Polina, 64
 Smolczyk, Tyler, 68
 Snyder, Samuel, 78
 Sobotta, Lukasz, 76
 Sokolnicki, Tomasz, 69
 Sol, Vincent, 35
 Sola, Miquel, 63
 Soldano, Anabel, 19
 Soler-Illia, Galo J.A.A., 74
 Solladie, Nathalie, 53
 Soman, Rahul, 52, 70
 Somov, Nikolai V., 47
 Song, Hyeon Ho, 49
 Sonzini, Paolo, 32
 Soo Lim, Hyun, 61
 Sopchak, Andrew, 19
 Sorokin, Alexander B., 22
 Sosa Alfaro, Victor, 21
 Sousa, Vera, 35
 Sousaraei, Ahmad, 71
 Soy, Rodah, 34, 75
 Spingler, Bernhard, 50
 Spring, Bryan, 41
 Stangel, Christina, 73
 Stanisz, Beata, 76
 Starikov, Andrei, 52
 Stefanelli, Manuela, 26, 30
 Stelten, Johannes, 43
 Stępień, Marcin, 55, 65
 Stewart, Courtney, 68

Stillman, Martin, 19
 Stoddart, J.Fraser, 49
 Stoumpidi, Aspasia, 74
 Stokov, Konstantin, 35
 Stuzhin, Pavel A., 47, 52, 59, 63, 69
 Sugimura, Haruna, 70
 Sulimenkov, Ilya, 59
 Sunar, Ulas, 50
 Sundholm, Dage, 15
 Superchi, Stefano, 69
 Suzuki, Mitsuharu, 39
 Swarts, Pieter J, 63
 Szczepanik, Dariusz W., 63
 Szczolko, Wojciech, 69, 71
 Szymczak, Joanna, 64

T

Tagmatarchis, Nikos, 25
 Tajbakhsh, Elahe, 59
 Takao, Yuko, 71
 Takele, Wassie Mersha, 71
 Takeuchi, Koki, 77
 Takiff, Larry, 77
 Takiguchi, Asahi, 68
 Tamiaki, Hitoshi, 67
 Tan, Wei, 50
 Tanaka, Kentaro, 28, 54
 Tanaka, Takayuki, 14, 46, 66, 69
 Tanaka, Yusuke, 27
 Tanguy, Loïc, 27
 Taniyama, Koki, 15
 Tarakanov, Pavel, 52, 59
 Tarakanova, Ekaterina, 59
 Tardie, Weston, 69
 Tarrant, Teresa, 28
 Tasca, Federico, 40
 Tassinari, Francesco, 25
 Täubert, Denise, 63
 Tejerina, Lara, 52
 Tessore, Francesca, 57
 Teubert, Anna, 65
 Therien, Michael, 33, 59
 Thomas, Michael, 23, 29
 Thondikkal, Sulfikarali, 13
 Thuita, Damaris W., 75
 Thurecht, Kristofer J., 36, 72
 Timmel, Kristiane, 25
 Tinnemans, Paul, 70
 Tinsley, Ian, 28
 Tjahjono, Daryono Hadi, 61
 Tkachenko, Nikolai, 33
 Tkachev, Yaroslav, 76
 Toganoh, Motoki, 13
 Tomat, Elisa, 46
 Tomé, Augusto, 34
 Tomé, João P.C., 73
 Tomé, Vanessa A., 41, 45
 Top, Sokunthea, 75
 Topouza, Magdalini, 72

Torabi Kohlbouni, Saeedeh, 48
 Torres, Tomás, 26, 33, 37, 44, 45, 52, 63, 64
 Torshin, Ivan, 76
 Trapali, Adelais, 74, 75
 Trapani, Mariachiara, 48, 54
 Trapeznikova, Anna, 69
 Trashin, Stanislav, 59
 Trindade, Tito, 14, 65
 Troxler, Thomas, 71
 Tsaplev, Yurii, 70
 Tsivadze, Aslan Yu., 22, 45, 72, 76
 Tuna, Ali, 66, 75, 78
 Tunç, Gülenay, 74
 Tuncel Kostakoğlu, Sinem, 74
 Turano, Paola, 20
 Turkowska, Joanna, 56
 Turna, Ozge, 61
 Tykarska, Ewa, 64
 Tyurin, Vladimir, 69

U

Uchiyama, Masanobu, 27
 Ueta, Kento, 66
 Ukai, Shusaku, 70
 Uno, Hidemitsu, 29
 Urbanska, Karolina, 72
 Usai, Remigio, 67, 78
 Uselmann, Adam, 41
 Uthe, Brian, 23

V

Valic, Michael, 49
 Vallejo, Mariana C.S., 34, 59, 77
 Vamvasakis, Loannis, 73
 van der Est, Art, 33
 van der Kamp, Jill, 41
 van Lith, Sanne, 41
 van Nostrum, Cornelus, 42
 Vanotti, Meddy, 14, 65
 Vanthuyne, Nicolas, 70
 Vantomme, Ghislaine, 73
 Varvares, Mark, 77
 Vaz Serra, Vanda I.R.C., 34, 59, 65, 69, 77
 Venegas, Ricardo, 40
 Vensaus, Priscila, 74
 Ventura, Barbara, 59, 71
 Vermathen, Martina, 49
 Vermathen, Peter, 49
 Vetter, Grzegorz, 22
 Viard, Mathias, 34
 Vicente, Graça, 34
 Vickerman, Brianna, 28
 Vieira, Cátia, 61, 77
 Vieira, Marco, 40
 Vigliotta, Giovanni, 77
 Villandier, Nicolas, 35
 Villani, Claudio, 69
 Vinagreiro, Carolina, 77
 Vinogradov, Sergei A., 71

Vogt, Lorena, 63
 Vollmar, Angelika, 43
 Voloshin, Yan, 66
 von Eschwege, Karel, 71
 Voss, Julie, 41
 Vu, Thao, 72
 Vullev, Valentine I., 55
 Vullev, Valentine, 25

W

Wackenhut, Frank, 71
 Wadsworth, Brian, 56, 57
 Wagh, Andy, 50
 Walter, Michael, 18
 Waluk, Jacek, 15, 27, 67, 71
 Wang, Hong, 29, 68
 Wang, Lee-Ping, 21
 Wang, Maodie, 34
 Wang, Pengyu, 43
 Wang, Qingqing, 35
 Wang, Qunzhao, 28
 Ware, David, 58
 Warren, Jeffrey J., 59
 Warren, Martin, 28
 Webre, Whitney, 29
 Wei, Qufu, 35
 Wei, Yang, 21
 Weidinger, Inez, 58
 Weinstain, Roy, 50
 Weyandt, Elisabeth, 73
 Wicher, Barbara, 64
 Wickenheisser, Victoria, 28
 Widel, Zachary, 59
 Wierzba, Aleksandra, 56
 Williams, Vance, 60
 Winterfeld, Kim, 33
 Woell, Christof, 18
 Wong, Clarence, 37
 Wong, Rosemary, 51
 Woods, Joseph, 54
 Wu, Fan, 16
 Wu, Jishan, 17
 Wymore, Troy, 20
 Wytko, Jennifer, 57

X

Xavierselvan, Marvin, 50, 77
 Xiong, Junlong, 37
 Xu, Jinchao, 75
 Xu, Ning, 15
 Xu, Zong-Xiang, 74
 Xue, Songlin, 65
 Xue, Zhaoli, 60, 74

Y

Yadav, Inderpal, 66
 Yadav, Pinky, 14
 Yagi, Atsumi, 67
 Yamada, Hiroko, 39, 65
 Yamada, Yasuyuki, 28
 Yamamoto, Takaaki, 13
 Yamanaka, Masaru, 19
 Yamashita, Ken-ichi, 60, 70
 Yang, Jian, 14, 65
 Yanusova, Lyudmila, 59
 Yao, Huili, 19
 Yatsunyk, Liliya, 53, 59
 Yavuz, Nilgun K., 45
 Yendamuri, Saikrishna, 50
 Yildiz, Salih Zeki, 61, 76
 Yoon, Il, 49
 Yoshimoto, Noriyuki, 15
 Yoshioka, Naoki, 61
 Yu, Jierui, 25
 Yuan, Xiaojiao, 56
 Yunhua, Zheng, 75

Z

Zagal, Jose H., 40
 Zagami, Roberto, 36, 48, 54
 Zakrevsky, Paul, 34
 Zambrano Angulo, Michael, 71
 Zamilatskov, Ilya, 69
 Zanetti-Polzi, Laura, 59
 Zannes Fatland, Peter, 75
 Zarate-Perez, Francisco, 21
 Zarrabi, Niloofer, 33, 72
 Zatsikha, Yuriy, 23
 Zein, Faujan, 61
 Zelder, Felix, 43
 Zeller, Matthias, 68, 69, 75
 Zhabanov, Yurii A., 47
 Zhang, Guanyu, 34
 Zhang, Peng, 33
 Zhang, Yong, 21
 Zheng, Gang, 49, 53, 73, 76
 Zhou, Haoran, 39
 Ziegler, Christopher, 52
 Zimčík, Petr, 36, 52, 64
 Zirzmeier, Johannes, 52
 Zolottsev, Vladimir, 76
 Zorlu, Yunus, 74
 Zúñiga, Cesar, 40
 Zywot, Emilia, 28