



7TH PORTUGUESE YOUNG CHEMISTS MEETING

HANDSCHEDULE

19th – 21st May 2021

Bragança – Portugal

HOURS	18TH MAY TUESDAY	19TH MAY WEDNESDAY	20TH MAY THURSDAY	21TH MAY FRIDAY
09:15				
09:30				
09:45		Opening Ceremony	PL2 Paulo J. Ferreira	IL9 Christine Morand
10:00				
10:15		PL1 Neil Champness	IL4 Nuno João Silva	IL10 Daniel Granato
10:30				
10:45				
11:00	Workshop Ready to PUB	Break/Poster session	Break/Poster session	Break/Poster session
11:15				
11:30		IL1 Luis Mafra	IL5 Rita Bacelar Figueira	IL8 Elena Ibáñez
11:45				
12:00				
12:15		OC1 - Andreia Santos	OC13 - Marcos Bento	OC24 - Ana Circuncisão
12:30		OC2 - Joana Lopes	OC14 - José Roque	OC25 - Fernanda Silva
12:45		OC3 - Marius-Stelian Popa	OC15 - Mohammad Tariq	OC26 - Mikel Añibarro-Ortega
13:00				
13:15				
13:30				
13:45	Lunch	Lunch	Lunch	Lunch
14:00				
14:15				
14:30				OC27 - Joana Madureira
14:45		IL2 David A. Fulton	IL6 Juan Francisco Romero	OC28 - Paula García-Oliveira
15:00				OC29 - Anxo Carreira Casais
15:15		OC4 - Tiago Moreira	OC16 - Luís Fontes	1 st National Retrosynthesis Competition 2020 Award (sponsored by BIAL) 
15:30		OC5 - Rute A. Pereira	OC17 - Ana Sofia dos Santos	
15:45		OC6 - Juliana Mota	OC18 - Vera Sousa	
16:00		OC7 - Carlos Shiraishi	OC19 - Ani Ozcelik	
16:15	Workshop Ready to PUB	Break/Poster session	Break/Poster session	Break/Poster session
16:30				
16:45				
17:00		IL3 Alvaro Goyanes	IL7 Victor Freitas	OC30 - Daniel Raydan
17:15				OC31 - Clarinda Sequeira
17:30		OC8 - Ana Rufino	OC20 - Marcelo Catarino	OC32 - Ana Furtado
17:45		OC9 - Márcia Martins	OC21 - Rafael Rippel	EYCN
18:00		OC10 - Lara Fidalgo	OC22 - Eleomar Pires Jr	IYCN - João Borges
18:15		OC11 - João Ravasco	OC23 - Heloísa de Almeida	PYCA - João Silva*
18:30		OC12 - Ana Pinto	 Assembly	Best Oral and Poster Awards**
18:45				Closing Ceremony
19:00				
PL - PLENARY LECTURES				
IL - INVITED LECTURES				
OC - ORAL COMMUNICATIONS				
* Sponsored by Molecules, Gradiva, and SPQ				
** Sponsored by ReadyToPub, Solitica, and Unicam				

TABLE OF CONTENTS

Table of Contents	3
Welcome Message	4
Committees	5
❖ Organizing Committee	5
❖ Scientific Committee	5
❖ Secretariat	5
Online Guidelines	6
Workshop Ready to PUB	7
Scientific Information	8
❖ Oral communications	8
❖ Poster communications.....	8
Awards.....	9
❖ PYCA 2020	9
❖ ReadyToPub Award	9
❖ Best Oral Communication Award.....	10
❖ Best Poster Communication Award	10
Detailed Schedule.....	11
Poster Communications	18
Sponsors	30
❖ Institutional Support	30
❖ Recognized by	30
❖ Silver	31
❖ Bronze	31
❖ Other Sponsors.....	31

WELCOME MESSAGE

On behalf of the Portuguese Young Chemists Group (GQJ) of the Portuguese Chemical Society (SPQ), we kindly welcome you to join us at the 7th Portuguese Young Chemists Meeting (7th PYCheM), to be held online, from May 19th to 21st 2021.

This biennial conference, dating back to 2008, is dedicated to gather young researchers from all subfields of Chemistry, as well as other related scientific areas of Research. Young chemists and researchers from any nationality are particularly encouraged to share their scientific highlights amongst their peers from chemical sciences, expand their international research network, and attend lectures from recognized experts in various fields of Chemistry.

The 7th PYCheM will count with **2** plenary lectures, **10** invited lectures, **39** oral communications and **6** e-poster sessions with over **147** poster communications.

As usual, this year's event counts with the Portuguese Young Chemists Award (PYCA), which is attributed by GQJ and aims to promote excellence in Chemistry developed by young researchers, with particular focus on the scientific impact on the Society. This 6th edition of the PYCA award is kindly sponsored by *Molecules* (ISSN 1420-3049), Gradiva, and SPQ. Moreover, GQJ is also pleased to announce the ReadyToPub award to be attributed to an oral communication presented by a master or PhD student, one Best Oral Communication Award supported by SOLITICA, and three Best Poster Communication Awards supported by UNICAM.

The 7th PYCheM was initially scheduled to take place in the welcoming city of Bragança in May 2020 but, unfortunately, it had to be postponed to May 2021 due to the pandemic situation that had (and still continues to have) a considerable impact on society worldwide, which forced it to be the first PYCheM to be carried out entirely online. However, we hope you will have further reasons to visit Bragança and discover all this region has to offer. It will be worth it!

We hope you will find these days to be an informative, stimulating, and pleasant time in this online conference.

Welcome to the 7th PYCheM!

The Organizing Committee

COMMITTEES

❖ ORGANIZING COMMITTEE

Carla Pereira
José Pinela
Maria Inês Dias
Ângela Fernandes
Sandrina Heleno
Márcio Carochó
Cristina Caleja
Eliaana Pereira
Filipa Reis
Bruno Melgar
Oludemi Taofiq

All from Centro de Investigação de Montanha- CIMO, IPB

❖ SCIENTIFIC COMMITTEE

Anthony J. Burke (Universidade de Évora)
Artur Silva (Universidade de Aveiro)
João F. Mano (Universidade do Aveiro)
Maria Beatriz Prior Pinto Oliveira (Universidade do Porto)
Nuno Mateus (Universidade do Porto)
Manuel A. Coimbra (Universidade de Aveiro)
Rui Fausto (Universidade de Coimbra)
Carlos J.R. Silva (Universidade do Minho)
Verónica de Zea Bermudez (Universidade de Trás-os-Montes e Alto Douro)
Fernanda Proença (Universidade do Minho)
Hélder Gomes (Instituto Politécnico de Bragança)
Ana Aguiar Ricardo (Universidade Nova de Lisboa)
Anthony J. Burke (Universidade de Évora)
Carlos M. Afonso (Universidade de Lisboa)
Mário Nuno Berberan e Santos (Universidade de Lisboa)
Lillian Barros (Instituto Politécnico de Bragança)

❖ SECRETARIAT

Leonardo Mendes
Cristina Campos

ONLINE GUIDELINES

The congress will be held online in a LIVE transmission on the Youtube channel of GQJ (Grupo de Químicos Jovens – *Young Chemists Group*). To assist, please use the following link:

<https://www.youtube.com/user/jovensquimicos>



Scientific Writing Webinar

General Principles for Obtaining a Scientific Publication



Introduction



What is an impact factor journal?
Why to publish in indexed journals?
Limitations of the impact factor.
Excuses and mentality changes.

Before writing



Selection of the most appropriate journal.
The *Journal Citation Reports* (JCR) as an essential tool.

Preparation of your paper



The sections of a paper and the literature.
The representation of results (figures vs. tables).
The journals guidelines and the English used.
The review by co-authors and acknowledgments.

The paper submission



The Cover Letter.
Data and supplementary materials.
Last steps.
What is and how to develop a graphical abstract?

The peer-review process



How is carried out the peer-review process.
The possible decisions from a peer-review.
The answers to the reviewers.
Paper rejected! And now what?

Final considerations



Questions and answers session.
Discussion of particular cases from the participants.
Additional information about ReadyToPub®.



Registration:

Registrations at qrco.de/7PYChem

Registration deadline: **April 30, 2021**

Registration fee: **15€** (students)

23€ (non-students)

Official language: **English**

Minimum: 15 participants

Maximum: 100 participants



SCAN ME

In the scope of the:

Date:



May 18, 2021 (Tuesday)

Duration: 6 hours (10:00-13:00 and 15:00-18:00)
(Lisbon GMT) Check your local time



readytopub.com

info@readytopub.com

SCIENTIFIC INFORMATION

❖ ORAL COMMUNICATIONS

The oral communications are divided into:

PL| Plenary sessions (50 minutes for presentation, plus 10 minutes for Q&A).

IL| Invited Oral Communications (40 minutes for presentation, plus 5 minutes for Q&A).

OC| Oral Communications (12 minutes for presentation, plus 3 minutes for Q&A).

❖ POSTER COMMUNICATIONS

Six poster sessions will be held in the congress (two each day). All posters will be available on the congress website (<https://7pychem.events.chemistry.pt/>).

Morning Poster Session: 11:00-11:30

Afternoon Poster Session: 16:15-16:45

For posters evaluation purposes (see the awards section below), participants registered for the event are asked to follow the link below, also available on the congress website, to vote for the three best posters.

Notes:

- 1) the registration number of the participant is available on the congress website and on the automatic filling sheet.
- 2) each participant will only be able to vote once; votes with the same registration number will be eliminated.
- 3) in case of tie, the Organizing Committee will choose the best poster.

<https://forms.gle/XWosuchjpxU7nAhd7>

AWARDS

❖ PYCA 2020

The Portuguese Young Chemists Award (PYCA) attributed by the Young Chemists Group (GQJ) aims to promote excellence in Chemistry developed by young researchers, with particular focus on the scientific impact on the society. The prize is awarded every two years to recent doctors with less than 35 years and laureates the work done during their PhD. It is open to Portuguese or foreigner young researchers that received the PhD degree in any field of the chemical sciences from a Portuguese University between January 2018 and December 2019.

Supported by:



Molecules (ISSN 1420-3049, CODEN: MOLEFW) provides an advanced forum for science of chemistry and all interfacing disciplines. Molecules' aim is to provide rigorous peer review and enable rapid publication of cutting-edge research to educate and inspire the scientific community worldwide. The article processing time is 31 days (median values for papers published in 2018). The Impact Factor for Molecules is 3.060 (2018 Journal Citation Reports® Science Edition, Clarivate Analytics, 2019)

Website: www.mdpi.com/journal/molecules

❖ READYTOPUB AWARD

An Award will be attributed to an oral communication presented by a master/PhD student during the 7th PYChem. Selection will be based on three criteria: General interest of the research, Clarity of the presentation, and Quality of the results presented. The award will consist of one English Editing service (Basic Pack) of a manuscript having the student as the first author. The award will be announced during the Closing Ceremony.

Supported by:



❖ BEST ORAL COMMUNICATION AWARD

CAPP micropipette

Supported by:



❖ BEST POSTER COMMUNICATION AWARD

"CARTÕES DÁ" for the three best poster communications.

Supported by:



DETAILED SCHEDULE

TUESDAY 18TH MAY

10:00	Workshop Ready to PUB
13:00	Lunch break
15:00	Workshop Ready to PUB

WEDNESDAY 19TH MAY

Chair: Maria Inês Dias (CIMO, Instituto Politécnico de Bragança)

09:30	OPENING CEREMONY Interventions: Dr. Orlando Rodrigues (President of IPB) Dr. Artur Silva (President of SPQ)
-------	--

Chair: Susana Cardoso (Universidade de Aveiro)

10:00	PL1 Neil Champness (University of Nottingham, United Kingdom) <i>"Molecular organisation: a journey through complex structures"</i>
-------	---

11:00 Break/Poster session

Chair: Helder Gomes (Instituto Politécnico de Bragança)

Young chair: Jose Luis Díaz de Tuesta (Instituto Politécnico de Bragança)

11:30	IL1 Luis Mafra (Universidade de Aveiro, CICECO, Portugal) <i>"Unraveling CO₂ sorption mechanisms in porous adsorbents via solid-state NMR and modeling"</i>
12:15	OC1 Andreia Filipa Magalhães Seixas Lopes dos Santos (Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa) <i>"Synthesis and characterization of novel ionic liquid crystals-based on substituted pyridinium cations"</i>
12:30	OC2 Joana Carvalho Lopes (Faculdade de Engenharia da Universidade do Porto) <i>"Furfural selective reduction by tio₂ sensitised photocatalysis"</i>

12:45	OC3 Marius-Stelian Popa (ICECHIM) <i>"Novel bio-based epoxy from epoxidized vegetable oils"</i>
-------	---

13:00	Lunch
-------	-------

	Chair: João F. Mano (Universidade de Aveiro) Young Chair: João Borges (Universidade de Aveiro)
14:30	IL2 David A. Fulton (Newcastle University, United Kingdom) <i>"Polymers and materials from the 'hair' of bacteria"</i>
15:15	OC4 Tiago André Semedo Moreira (Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa) <i>"Enhanced electrochromic performances using water dispersible poly-3-hexylthiophene (P3HT) nanoparticles"</i>
15:30	OC5 Rute A. Pereira (Universidade de Aveiro) <i>"Fe₃Se₄ logic gate nanoparticles for cellular hyperthermia"</i>
15:45	OC6 Juliana Isabel Dinis Cavaco Ferreira Mota (Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa) <i>"Antibiotic coordination frameworks: a new way for drug delivery on bioabsorbable zinc"</i>
16:00	OC7 Carlos Seiti Hurtado Shiraishi (Instituto Politécnico de Bragança) <i>"In silico evaluation of a library of natural compounds identified in mushrooms as potential inhibitors of proteins associated to breast cancer: PPARγ, aromatase, and 17-HSD1"</i>

16:15	Break/Poster session
-------	----------------------

	Chair: M. Beatriz P. P. Oliveira (Universidade do Porto) Young chair: Joana Madureira (Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico)
16:45	IL3 Alvaro Goyanes (UCL School of Pharmacy, United Kingdom) <i>"3D printing of pharmaceutical products, the future is now"</i>
17:30	OC8 Ana Filipa Correia Santos Rufino (Universidade de Aveiro) <i>"Extraction and purification of albumin from bovine serum with ionic-liquid-based aqueous biphasic systems"</i>

17:45	OC9 Márcia Sofia Silva Martins (CIIMAR/Faculdade de Farmácia, Universidade do Porto) <i>"Towards the discovery of small molecules with potential neuroprotective properties"</i>
18:00	OC10 Lara Fidalgo (iMed.Ulisboa, Faculdade de Farmácia, Universidade de Lisboa) <i>"Novel necroptosis inhibitors targeting RIPK1"</i>
18:15	OC11 João Manuel Janeiro Martins Ravasco (iMed.Ulisboa, Faculdade de Farmácia, Universidade de Lisboa) <i>"Predictive multivariate models for bioorthogonal inverse-electron demand diels-alder reactions"</i>
18:30	OC12 Ana Lúcia Moreira Pinto (LAQV-REQUIMTE, Faculdade de Ciências e Tecnologia, Universidade NOVA de Lisboa) <i>"Dye-sensitized solar cells from wine pigments"</i>

THURSDAY 20TH MAY

	Chair: Verónica de Zea Bermudez (Universidade de Trás-os-Montes e Alto Douro)
09:15	PL2 Paulo J. Ferreira (Advanced Electron Microscopy, Imaging and Spectroscopy Center, International Iberian Nanotechnology Laboratory, Portugal) <i>"Nanotechnology: witnessing the new industrial revolution"</i>
10:15	IL4 Nuno João Silva (Universidade de Aveiro, CICECO, Portugal) <i>"Development of 3D temperature tomography at the micro and nanoscale"</i>
11:00	Break/Poster session

	Chair: Rui Fausto (Universidade de Coimbra) Young chair: Artur Moro (LAQV@REQUIMTE - Universidade NOVA de Lisboa - FCT)
11:30	IL5 Rita Bacelar Figueira (Centro de Química, Universidade do Minho, Portugal) <i>"Organic-inorganic hybrids sol-gel membranes for application in OFS to monitor the durability of concrete structures"</i> <i>In memory of the Scientific Committee Member Prof. Dr. Carlos J.R. Silva</i>

12:15	OC13 Marcos António Martins Bento (BIOISI, FCUL/LAQV, REQUIMTE, FCT NOVA) <i>"CO₂ reduction with formate dehydrogenase mimetic compounds"</i>
12:30	OC14 José Paulo Lopes Roque (CQC e Departamento de Química, Universidade de Coimbra) <i>"H-tunneling activated upon vibrational excitation"</i>
12:45	OC15 Mohammad Tariq (Universidade NOVA de Lisboa - FCT) <i>"Ionic liquids as dual functional inhibitors for gas hydrates formation and growth"</i>

13:00 Lunch

	Chair: Anthony J. Burke (Universidade de Évora) Young Chair: Maria Fernandes (Univesidade de Trás-os-Montes e Alto Douro)
14:30	IL6 Juan Francisco Romero (Universidade Castilha la Mancha, España) <i>"From passive house concept to active energy storage at home by using microcapsules with thermal storage capacity"</i>
15:15	OC16 Luís Filipe Baptista Fontes (Universidade de Aveiro) <i>"Excited-state intramolecular proton transfer in unsymmetrical 2,4,6-triarylpyridines"</i>
15:30	OC17 Ana Sofia Branco dos Santos (Universidade NOVA de Lisboa - FCT) <i>"Exploring the reactivity of halogen-free aminopyridines for direct access to azaindole scaffolds"</i>
15:45	OC18 Vera Catarina Ferreira de Sousa (Universidade de Aveiro) <i>"Regioselective NH functionalization of DNA nucleobases towards advanced biopolymer conjugates for biomedical applications"</i>
16:00	OC19 Ani Ozcelik (Universidad de Vigo) <i>"Tailoring spirobifluorenes for chiroptical applications"</i>

16:15 Break/Poster session

	Chair: Nuno Mateus (Universidade do Porto) Young Chair: María Carpena (Universidad de Vigo)
16:45	IL7 Victor Freitas (Universidade do Porto, Portugal) <i>"Expectations about the chemistry of anthocyanins and their applications!"</i>

17:30	OC20 Marcelo Dias Catarino (Universidade de Aveiro) <i>"Impact of Phlorotannin Extracts from Fucus vesiculosus on Human Gut Microbiota"</i>
17:45	OC21 Rafael Alves Rippel (Universidade NOVA de Lisboa - FCT) <i>"Synthesis of inspiring aminated-guanidine based molecules"</i>
18:00	OC22 Eleomar de O. Pires Jr. (CIMO, Instituto Politécnico de Bragança) <i>"Chemical characterization and bioactive properties of Impatiens balsamina L. flowers"</i>
18:15	OC23 Heloísa Helena Scorsato de Almeida (Universidade do Porto) <i>"Chemical composition of hydrosols as an indicative of their antimicrobial potential"</i>
18:30	GQJ assembly

FRIDAY 21TH MAY

	Chair: Manuel A. Coimbra (Universidade de Aveiro)
09:30	IL9 Christine Morand (UMR 1019/Human Nutrition Unit, Diet, Plant food bioactives and vascular health (Nutrivasc), France) <i>"Food phytochemicals as key contributors of the vascular health effects of plant foods"</i>
10:15	IL10 Daniel Granato (Natural Resources Institute, Finland) <i>"Recent analytical trends in food authenticity based on chemical markers"</i>
11:00	Break/Poster session

	Chair: Mário Nuno Berberan e Santos (Universidade de Lisboa) Young Chair: Ângela Liberal (CIMO, Instituto Politécnico de Bragança)
11:30	IL8 Elena Ibáñez (Foodomics Laboratory, Bioactivity and Food Analysis Department, Institute of Food Science Research (CIAL-CSIC), España) <i>"How can green foodomics change your life?"</i>
12:15	OC24 Ana Rita Sousa Circuncisão (Universidade de Aveiro) <i>"Phlorotannins from brown macroalgae Laminaria digitata and Himanthalia elongata: from structural evidence to bioactive effects"</i>
12:30	OC25 Fernanda do Carmo Machado Silva (Universidade de Aveiro)

	<i>"Influence of processing parameters on coffee compounds hypocholesterolemic potential"</i>
12:45	OC26 Mikel Añibarro-Ortega (CIMO, Instituto Politécnico de Bragança) <i>"Development of bioactive purple-red colorants from red raspberry waste using heat-/ultrasound-assisted extractions coupled with RSM"</i>

13:00 Lunch

	Chair: Carlos M. Afonso (Universidade de Lisboa)
14:30	OC27 Joana Filipa de Paiva dos Santos Madureira (Centro de Ciências e Tecnologias Nucleares, Instituto Superior Técnico) <i>"Optimization of the Heat-Assisted Extraction of bioactive compounds from olive wastes"</i>
14:45	OC28 Paula García-Oliveira (Universidad de Vigo) <i>"In vitro bioactive potential of several macroalgae species"</i>
15:00	OC29 Anxo Carreira Casais (Universidad de Vigo) <i>"Ultrasound Assisted Extraction of fucoxanthin in Ascophyllum nodosum alga"</i>

1ST NATIONAL RETROSYNTHESIS COMPETITION 2020 AWARD

TARGET MOLECULE - SHINORINE

	Chair: Paula Branco (Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa) and Emília Sousa (Faculdade de Farmácia, Universidade do Porto)
15:15	OrgMedChem/CCMar (Universidade do Algarve): Patrícia Sofia Menalha Amado
15:30	Émanems (FCT, Universidade NOVA de Lisboa): Ana Sofia Santos; Nuno Viedudo; Diogo Poeira
15:45	Metil_Etil_Propil (Universidade de Coimbra): Alexandre Pires Felgueiras; Vitaliy Masliy; Zoé Ladieu Arcas Arnaut Moreira
16:00	RetroGirls (Faculdade de Farmácia, Universidade de Lisboa): Lídia Alexandra Santos Cavaca; Mariama Djaló; Juliana Gomes Pereira; Rita Rodrigues Fernandes de Jesus; João Manuel Janeiro Martins Ravasco.

16:15 Break/Poster session

	Chair: Ana Aguiar Ricardo (Universidade NOVA de Lisboa)
16:45	OC30 Daniel Raydan (LAQV@REQUIMTE, Universidade NOVA de Lisboa) <i>"Synthesis of imines from anilines by a manganese-catalyzed reaction"</i>
17:00	OC31 Clarinda Isabel da Silva e Costa Sequeira (LAQV-REQUIMTE, Departamento de Química, Universidade NOVA de Lisboa) <i>"Development of hydrophilic molecules- loaded liposomal dry powder formulations using supercritical carbon dioxide: the future of inhalable vaccines?"</i>
17:15	OC32 Ana Isabel Carreiro Furtado (Universidade NOVA de Lisboa) <i>"Green synthesis of molecularly imprinted polymers for bio-applications"</i>

	Chair: Márcio Carocha (CIMO, Instituto Politécnico de Bragança)
17:30	Maximilian Menche (Chair of the European Young Chemists' Network - EYCN) <i>"EYCN (European Young Chemists Network)"</i>
17:45	João Borges (Universidade de Aveiro) <i>"The International Younger Chemists Network (IYCN): Connecting, Supporting, Advocating and Empowering Younger Chemists Globally"</i>
18:00	PYCA (Portuguese Young Chemists Award) João Medeiros Silva (Centre for Biomolecular Research, Utrecht University, Netherlands) <i>"High-Resolution Solid-State NMR of Antibiotics in Native Cellular Membranes"</i>
18:15	Delivery of the Retrosynthesis award: Dr. Paulo Vital (BIAL). <i>Jury: Artur Silva (Presidente da SPQ); Augusto C. Tomé – UA; Matilde Marques – IST, UL; Teresa Pinho e Melo – FCT, UC; M. Amparo Faustino – UA</i> Delivery of the Best Oral Award (Ricardo Malheiro – ReadyToPub) Delivery of the Poster Awards (Organizing Committee of the 7 th PYChEM)

18:30	Closing Ceremony Intervention: Dr. Isabel Ferreira - Secretary of State for the Development of Inland Regions PYChEM 2023 presentation Final Notes
-------	---

POSTER COMMUNICATIONS

Analytical chemistry

- PC1** | Monitoring of 17 β -Estradiol in raw and treated waters of wastewater treatment plants
Nathalia S. Foureaux
- PC2** | An analytical approach to investigate blotting sands from Portuguese documents
Margarida Nunes
- PC3** | Studies of enantioseparation of promethazine and its metabolites using LC-UV/Vis
Maria Miguel Coelho
- PC4** | Relevance of iron content for *Escherichia coli* growth in drinking water
Cátia Gonçalves

Biochemistry

- PC5** | Fundamental understanding of physic-chemical proprieties of deep eutectic solvents
Monteiro H.
- PC6** | Antioxidant properties and protective effect of *Pistacia atlantica* Desf leaves on mercury-induced acute nephro-hepatotoxicity in rats
Benahmed Fatiha

Chemistry of Natural Products

- PC7** | Characterization of Algerian honeys by phenolic compounds LC-DAD-ESI/msn analysis: eucalyptus, jujube, spurge and multifloral
Seloua Kaid
- PC8** | Development of semi-solid formulations containing extracts of *Juglans regia* L. leaves for topical application
Nermine Besrour
- PC9** | Generation of a library of andrographolide derivatives as antibacterial agents
Bernardo Vieira
- PC10** | Phenolic profiles of horse chestnut (*Aesculus hippocastanum* L.) seed extracts obtained by ultrasound-assisted extraction
Carly Albiston
- PC11** | New semisynthetic derivatives of natural terpenoids extracted from *Euphorbia piscatoria*
Joana Ribeiro

- PC12** | Generation of small library of Amaryllidaceae-type alkaloids through isolation and molecular derivatization
Shirley Sancha
- PC13** | Development of tetracyclo-quinolizidine alkaloid derivatives as multidrug resistance reversers in cancer cells
Rita Mestre Vieira
- PC14** | Carbamoyl-containing flavonoid derivatives for finding anticancer compounds
Filipa Barbosa
- PC15** | Nutritional value and chemical composition of three types of *Petroselinum crispum* leaves
Elizandra Ardohain
- PC16** | Reinforcing the correlation between the presence of high-added value compounds with the bioactive properties of tisanes using a categorical principal component analysis
Beatriz H. Paschoalinotto
- PC17** | Pumpkin bioresidues as sources of bioactive compounds for food application
Maria Gabriela Leichtweis
- PC18** | Phenolic compounds and bioactive properties of *Ruscus aculeatus* L.: an underexploited subshrub
Joana P. B. Rodrigues
- PC19** | Mushroom bio-residues as natural sources of vitamin D2
Rossana V. C. Cardoso
- PC20** | Anthocyanin composition and bioactivities of the hydroethanolic extract of *Garcinia mangostana* L. pericarp
Bianca R. Albuquerque
- PC21** | Fingerprint of phenolic compounds in *Myrtus nivelii* Batt & Trab. From Algeria
Wahiba Rached
- PC22** | Kinetic behavior of the extraction of fucoxanthin under deferent temperatures and ethanol concentrations from *Undaria pinnatifida*
Catarina Lourenço-Lopes
- PC23** | Phenolic composition and bioactive properties of *Cynara cardunculus* var. Altilis as affected by seasonal changes
Filipa Mandim

Computational chemistry

- PC24** | Structural insights into substrate and inhibitor binding modes and functionality of breast cancer resistance protein (BCRP)
Bruno M. F. Goncalves
- PC25** | ProtoSyn: an AI-powered tool for computational design of peptides
José M. S. Pereira
- PC26** | Photochemistry of 1-phenyl-4-allyl-tetrazol-5-one: A theoretical study contribution towards mechanism elucidation
Amilcar Duque-Prata
- PC27** | A computer-aided drug design approach to discovery lead-like tumor suppressor p53 protein activators for colorectal cancer therapy
Rui P. S. Patrício
- PC28** | Optimization of Mn(salen) catalyst descriptor generation towards Machine Learning modelling for a green, industrial digital transition
José Ferraz-Caetano

Electrochemistry

- PC29** | Glucose biosensors: an overview towards a new generation
Carina Figueiredo

Food chemistry

- PC30** | Amino acid profile of green coffee: comparison of organic and conventional beans
Susana Machado
- PC31** | Medicinal and aromatic plant (MAP) seasoning mixtures: bioactive and nutritional potential
Cláudia Novais
- PC32** | Applications of resveratrol delivery systems for functional bread
Andreia F.R. Silva
- PC33** | Influence of species on coffee silverskin composition
Anabela S. G. Costa
- PC34** | Extraction of chlorophylls and carotenoids from natural sources
Pedro Martins

- PC35** | Volatile organic composition evolution of three Portuguese monovarietal white wines under different antioxidant doses
Cátia V. Almeida Santos
- PC36** | *Aloysia citrodora* and *Thymus citriodorus* leaves: nutritional and antioxidant properties
L. Espírito Santo
- PC37** | Natural food preservatives: application of rosemary, lemon balm and oregano extracts in chocolate muffins
Mariana C. Pedrosa
- PC38** | Nutritional characterization, pH and antioxidant activity of the pulp of 29 color-fleshed potatoes
Izamara de Oliveira
- PC39** | Phenolics profile of Algerian honeys: rosemary, tamarisk, thistle and multifloral
Kheira moufida mouffok
- PC40** | Effects of different pasteurization methods on the chemical composition and antioxidant properties of 3 varieties of *Opuntia ficus-indica*
Ricardo M. Ferreira
- PC41** | Wild *Opuntia ficus-indica* from northern Portugal - nutritional and chemical differences between harvest years
A. O. Jorge
- PC42** | Viability of *Attalea speciosa* Mart. ex Spreng mesocarp flour for application in bakery products: case study
Vitória Mayumi dos Santos Souza
- PC43** | Phenolics vs. free amino acids contributions for the antioxidant activity of rosemary infusions
Juliana A. Barreto Peixoto
- PC44** | Unprecedented study of the proximate and chemical composition of non-conventional seeds for further application in bakery products
Juliana França Lima
- PC45** | Blueberry (*Vaccinium myrtillus* L.) juice and bagasse for antioxidant products development
Adriana K. Molina
- PC46** | Effects of different production systems on red fruits nutritional properties
Carla Pereira
- PC47** | A novel method to obtain an olive pomace functional ingredient
M. Antónia Nunes

- PC48** | Strategies for upcycling by-products: the case of olive pomace
M. Manuela Sousa
- PC49** | Proximate composition and “green” determination of the mineral fraction of *Salicornia ramosissima*
Maria Lopes
- PC50** | Phytochemical and antioxidant profile of *Pardina lentil* (*Len culinaris* Medikus) cultivars from different regions of Spain
Ângela Liberal
- PC51** | Amino acid profile and protein quality assessment of *Porphyra dioica* and *Ulva rigida* seaweeds
Marlene Machado
- PC52** | Amino acids profile: whole-wheat pasta vs whole-wheat pasta with algae
B. C. C. Oliveira
- PC53** | Evaluation of macroalgae as a source of nutrients for nutraceutical foods
Paula García Oliveira
- PC54** | Plant-based beverages as sources of nutrients
Filipa A. Fernandes
- PC55** | Brewer’s spent yeast polysaccharides: defining applications as food ingredients
Bernardo Almeida
- PC56** | *Solanum melongena* L. fruits as a good source of bioactive molecules with health benefits
Gabriel F. Pantuzza
- PC57** | Starch from avocado seed vs. starch from potato slices: potentialities and drawbacks for future applications as bioplastics
Alexandre Vala
- PC58** | Application of an anthocyanin-based colorant in a pastry product
Emanueli Backes
- PC59** | Nutraceutical formulations: Addition of natural ingredients as preservatives
Márcio Carochó
- PC60** | Comparative phytochemical profile of elephant garlic (*Allium ampeloprasum* var. *Holmense*) and common garlic (*Allium sativum*) from Val di Chiana area (Tuscany, Italy) before and following *in vitro* gastrointestinal digestion
Costanza Ceccanti
- PC61** | High hydrostatic pressure as a tool to improve the antioxidant activity of watercress extracts
José Pinela

PC62 | Red algae as a source of nutrients with antioxidant potential

María Carpena Rodríguez

PC63 | Application of emerging green technologies in the development of new food products

A.G. Pereira

Green chemistry

PC64 | Fabrication of bioinspired superhydrophobic surfaces based on *Philotheca myoporoides* leaves

Aleksandra Predeina

PC65 | Tunable selective continuous flow hydrogenation of 4,5-trans-diamino cyclopentenones – synthesis of bifunctionalized cyclopentanones and α - enaminones from furfural

Lídia A.S. Cavaca

PC66 | Removal of microplastics and drugs from sewage sludge by wet oxidation

Javier Cañas Jimenez

PC67 | The theoretical description for heavy metal concentration monitoring system, based on naphthoquinone-based or overoxidized conducting polymer

Volodymyr Tkach

PC68 | Antimicrobial activity of *Sargassum muticum* extracts on *Staphylococcus epidermidis* strain

Aurora Silva

PC69 | Hydrophobic coatings inspired by the *Myrtus communis* L. leaf surfaces

Anna Goncharenko

Inorganic chemistry

PC70 | Emissive sulfur species present in artificial hackmanite

Catarina Viola

PC71 | Mono- and binuclear metal salphen derivatives for photocatalytic CO₂ reduction

Catarina A. Caetano

PC72 | Targeting FGFR(+) breast cancer cells with half-sandwich ruthenium(II)-cyclopentadienyl peptide conjugates

João Franco Machado

PC73 | Solvate influence on iron(III) SCO complexes

Rafaela T. Marques

- PC74** | On the route for molecules with augmented luminescence efficiency: gold(I) complexes linked to coumarin chromophores and phosphine linkers
Carla Cunha
- PC75** | Mimicking the formate dehydrogenase with tungsten coordination compounds
P. A. Rodrigues
- PC76** | Fe(III) spin crossover compounds with luminescent ligands
A. R. Reis

Materials chemistry and Nanomaterials

- PC77** | Smart polystyrene-silica core-shell nanoparticles
Marta C. P. S. Lima
- PC78** | Naproxen release from nanostructured matrices: influence of molecular mobility, physical state and distribution among the drug carrier
Teresa Cordeiro
- PC79** | Surface functionalization of magnetic nanoparticles with TMS-EDTA: comparison of methodologies
Gabriela T. A. D. Santos
- PC80** | Hydrogenation of CO₂ over Cobalt-Lanthanide Bimetallic Oxide Nanofibers
Joana F. Martinho
- PC81** | Luminescent compounds with delayed fluorescence in aggregate state for imaging applications
Liliana Gomes
- PC82** | Preparation of lanthanopolyoxometalate/graphene materials for the detection of aqueous metals ions
Maria João Martins
- PC83** | Rapid degradation of tramadol by carbon nitride photocatalysis
Maria A. Barros
- PC84** | Oih sol-gel membranes for pH monitoring – synthesis and characterization
Bárbara Ferreira
- PC85** | Multifunctional smart textile device: a two-in-one energy storage/fluorescent technology
Joana S. Teixeira
- PC86** | A hafnium-based metal-organic framework for the entrapment of molybdenum hexacarbonyl and the light-responsive release of the gasotransmitter carbon monoxide
Isabel B. Calhau

- PC87** | Imidazole-doped organic-inorganic hybrid sol-gel materials: synthesis and characterization
Rui P. C. L. Sousa
- PC88** | Development of galactomannan-based microparticles for pulmonary insulin delivery
Sara A. Valente
- PC89** | How to modulate spontaneous patterned VA-CNTs arrays by chemical vapor deposition?
Inês E. Oliveira
- PC90** | Fabrication of bioinspired superhydrophobic surfaces based on *Philotheca myoporoides* leaves
Aleksandra L. Predeina
- PC91** | Solid-state characterization and photodecarbonylation of a para-substituted dicumyl ketone intercalated in a layered double hydroxide
Ana L. Costa
- PC92** | Electrospun gelatin patches reinforced with lysozyme nanofibrils for improved myocardial regeneration
Tiago Carvalho
- PC93** | Smart Windows based on semiconductor materials for energy saving applications
Ana Pinheiro
- PC94** | TiO₂/carbon quantum dots nanocomposites: new solar driven photocatalysts to efficiently remove antibiotics from aquaculture effluents
Valentina Guimarães da Silva
- PC95** | Are photolysis and photocatalysis sustainable options for the remediation of aquaculture effluents? - The contribution of the Project REM-AQUA
Vitória Louros
- PC96** | Paramagnetic ionic liquid/ZIF-8 composites – magILL@ZIF-8 - for CO₂/CH₄ and CO₂/N₂ separations
Laura M. Esteves
- PC97** | Composite metal organic framework/ammonium-based ionic liquids materials for CO₂/CH₄ and CO₂/N₂ separations
Tiago J. Ferreira
- PC98** | Synthesis of porphyrin-based hybrid materials: a potential solution to prevent trimethoprim resistance
Giusi Piccirillo
- PC99** | Properties of PLA films with natural agents for children's toys
Stefania Badila

- PC100** | Reinforced silicone rubber for electronic applications
Elena Ruxandra Radu
- PC101** | Adsorption of Ni(II) on activated carbons prepared from tangerine peel by sequential hydrothermal carbonization and pyrolysis
Helder T. Gomes
- PC102** | Catalytic wet peroxide oxidation of paracetamol using carbon nanotubes synthesized from low-density polyethylene as model plastic waste
Ana P. Ferreira da Silva
- PC103** | Catalytic wet peroxide oxidation of leachate using low cost carbon-based material as catalyst
Fernanda F. Roman
- PC104** | Hydrothermal conversion of calcium carbonate from microalgae in hydroxyapatite
Joana Daniela Ferreira Gonçalves
- PC105** | Tuned porous metal-free carbon catalysts for wet peroxide oxidation of paracetamol
Adriano Santos Silva
- PC106** | Graphene oxide-based photocatalysts for the degradation of organic pollutants in water
Joana L. Lopes
- PC107** | Efficient removal of diclofenac and ibuprofen by *CWPO* using a magnetite-based catalyst in a continuous up-flow fixed bed reactor
Y. Huacallo-Aguilar
- PC108** | Transesterification of starch-based films using spent frying oil
André Oliveira
- PC109** | Synthesis and characterization of hybrid sol-gel materials doped with silver nanoparticles
B. R. Gomes

Medicinal chemistry

- PC110** | Tackling infectious diseases using pharmaceutical ionic liquids
Francisco Faísca
- PC111** | Water soluble porphyrin-cyclodextrin dyes for photoinactivation of *Escherichia coli*
Cláudia P. S. Ribeiro
- PC112** | (Photo)switchable antimycobacterial azaaurones
André Campaniço

- PC113** | Synthesis and study of a novel class of potent necroptosis inhibitors - Different heterocycles, distinct affinities
André F. S. Luz
- PC114** | Preparation of 1,3-diarylketones with potential therapeutic applications
Rodrigo P. Monteiro
- PC115** | Structure-based modulation of spiropyrazoline oxindoles to target p53-MDMS PPIs
Elizabeth A. Lopes
- PC116** | Magnetic yolk-shell nanoparticles as nanocarriers for magnetic targeting of doxorubicin
Simone Moretto
- PC117** | Design, synthesis, biochemical activity evaluation, and structure-activity relationships of steroidal olefins versus epoxides as aromatase inhibitors
Ana R. Gomes
- PC118** | Organic salts and ionic liquids from fluoroquinolones as highly bioavailable antimicrobials against gram-positive bacteria
Diogo Madeira

Organic chemistry

- PC119** | Pyrazole-pyridinium porphyrinoids as powerful photosensitizers for photoinactivation of planktonic and biofilm forms of *Escherichia coli*
Sara R. D. Gamelas
- PC120** | The secret life of aminals
Juliana G. Pereira
- PC121** | Novel benziodoxolone reagents for electrophilic α -amination
Diogo L. Poeira
- PC122** | An efficient and selective manganese-catalyzed synthesis of imines
Nuno Viduedo
- PC123** | Novel hypervalent iodine for sulfonyl transfer
João Macara
- PC124** | Hypervalent iodine reagents: Exploring the potential of umpolung reactions
Ana Cláudia R. Negrão
- PC125** | Expanding the toolbox of chemical tools to target malaria parasites with azaindoles
José C. F. da Cunha

- PC126** | Synthesis and anticancer activity of 3-tetrazoyl- and 3-trizoyl-b-carbolines against human colon cancer cell lines
João L. P. Ribeiro
- PC127** | Tailoring Spirobifluorenes for Chiroptical Applications
Ani Ozcelik
- PC128** | Novel catalysts for the asymmetric neber reaction: synthesis of chiral 2-(tetrazol-5-yl)-2h-azirines
Cláudia Alves
- PC129** | Synthesis and enantiomeric purity evaluation of new chiral derivatives of xanthenes
Joana Teixeira
- PC130** | Synthesis and preliminary antibacterial activity evaluation of fumiquinazoline related alkaloids
Mariana C. Almeida
- PC131** | Synthesis of new chitosan conjugates for pharmaceutical and biomedical applications
Lima, Rita.
- PC132** | One-step multicomponent reaction synthesis of oxindole-lactam hybrids – new agents targeting cholinesterase inhibition
Pedro Brandão
- PC133** | Novel chromene derivatives prepared from 2-amino-4-(2-oxo-2-arylethyl)-4h-chromene-3-carbonitriles
Fábio Pedroso de Lima
- PC134** | A facile, efficient, and reusable silica sulfuric acid (ssa) catalysed synthesis of non-symmetrical 1,2,4,5-tetraoxanes and 1,2,4-trioxanes
Patrícia S. M. Amado
- PC135** | Expanding the organic chemists' toolbox: enzymes for stereoselective amine-synthesis
Ágnes Lakó

Physical chemistry

- PC136** | Partitioning and solubility of phenolic compounds using the abraham solvation model
Isabella W. Cordova
- PC137** | A supramolecular multiresponsive ternary complex
André Seco
- PC138** | Modulation of the photochemical reactivity of a bischalcone upon complexation with cucurbit[7]uril
Rita Anastácio

PC139 | Fluorescent sensing of guanosines in water: a combination of complementary hydrogen bonds and electrostatic interactions

Artur J. Moro

PC140 | Polymorphism of 1-methylhydantoin investigation by periodic DFT calculations and characterization of the third polymorph

Bernardo A. Nogueira

PC141 | Supramolecular light-controlled counterion activator for the transport of cationic peptides

Joana N. Martins

Surface chemistry and interfaces

PC142 | *Agapanthus africanus*: a source of inspiration for the preparation of superhydrophobic hybrid films

P. Nunes

Other (suggestion)

PC143 | Kinetic study of biodiesel production using choline hydroxide as catalyst

Khadidja Hachemane

PC144 | The risk of emerging mycotoxins in the maize food chain

Marta Leite

PC145 | Exploring tazobactam for the development of antibiotic coordination frameworks by mechanochemistry

Daniela R. Ferreira

SPONSORS

❖ INSTITUTIONAL SUPPORT



❖ RECOGNIZED BY



❖ SILVER



❖ BRONZE



❖ OTHER SPONSORS

