

# Iberian Symposium of Young Photochemists, Virtual Conference (October 18-21, 2021)



Date/hour	Participant	Abstract
<b>Monday</b>		
<b>Session 1 (18/10/2021)</b>		
<b>15:50 - 16:00</b>	<b>Dr. Luis Manuel Frutos</b>	<b>Introduction words from GRUFO Advisory Board</b>
16:00 - 16:15	Mariano Curti	Manipulating the light absorbing properties of artificial protein – chromophore assemblies
16:15 - 16:30	Raúl Losantos	Curcumin and Cyclocurcumin-based Derivatives as Potential Candidates for Photocontrolled Treatment
16:30 - 16:45	Vito Federico Palmisano	Electron donation enhances photoisomerization in azobenzene derivatives
16:45 - 17:00	Rajat Walia	Multistate multimode vibronic pathways of singlet fission: A DMRG's perspective
17:00 - 17:15	Luís Pinto da Silva	Theoretical Investigation of the Chemiexcitation Step of Chemi/Bioluminescent Reactions
17:15 - 17:30	Jacopo Fregoni	Controlling photochemical reactions through strong light-molecule coupling
<b>17:30 - 17:45</b>	<b>Break</b>	
<b>Session 2 (18/10/2021)</b>		
17:45 - 18:00	Mani Outis	Excited State Dynamics in Dinuclear {Cu <sub>2</sub> (μ-I) <sub>2</sub> } Complexes Bearing Ar-BIAN Ligands
18:00 - 18:15	Daniela Pinheiro	A Comprehensive Investigation of Tryptanthrin Derivatives
18:15 - 18:30	Pedro Recio	Dynamics of the photodissociation of methylamine detecting the H-atom fragment: A velocity map imaging study
18:30 - 19:45	Jorge Castellanos Soriano	Application of Triplet Fusion Upconversion to Photoredox Catalysis: Functionalization of 5-Membered Heteroarenes
<b>Tuesday</b>		
<b>Session 3 (19/10/2021)</b>		
16:00 - 16:15	Ruth Prieto-Montero	Novel systems for Photodynamic Therapy based on Photosensitizer-Silica nanoparticles
16:15 - 16:30	Jenny Flores García	Synthesis, characterization and application of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -RB core@shell nanoparticles in Ofloxacin photodegradation
16:30 - 16:45	Valentina Silva	TiO <sub>2</sub> /Carbon Dots Nanocomposites: Photocatalysts For The Solar Driven Removal Of Antibiotics From Aquaculture Effluents
16:45 - 17:00	Ala Abdessemed	Zinc Oxide loaded activated carbon (ZnO/AC-olive) for degradation of Congo red dye
17:00 - 17:15	Diogo Cartaxo	Photophysical properties of carbon nanomaterials from wet pomace
17:15 - 17:30	Diana Crista	Study of Three Different Bottom-up Strategies for the Synthesis of Carbon Dots
<b>17:30 - 17:45</b>	<b>Break</b>	
<b>Session 4 (19/10/2021)</b>		
17:45 - 18:00	Vitória Louros	Antibiotics exposure to solar radiation under continuous flow mode: the importance of the use of photocatalysts
18:00 - 18:15	Mauricio Lineros-Rosa	Deepening into the photorelease mechanism of avobenzene-based photocages
18:15 - 18:30	Paloma Lizondo-Aranda	Photochemical repair of etheno adducts
18:30 - 18:45	Catarina M. Pinto	The excited state deactivation of Shikonin rationalized from its naphthoquinone parent structures
18:45 - 19:00	Javier Carmona García	Atmospheric chemistry induced by sunlight
19:00 - 19:15	Jorge Carlos Herrera Luna	New C(sp <sup>2</sup> )-B(P) Bonds Formation Triggered by Visible Light

Date/hour	Participant	Abstract
<b>Wednesday</b>		
<b>Session 5 (20/10/2021)</b>		
16:00 - 16:15	Ana Lucia Pinto	Structural Optimization of Synthetic Anthocyanin-based Dyes Towards Bio-inspired Dye-Sensitized Solar Cells
16:15 - 16:30	Ainhoa Oliden Sánchez	Nonlinear optics through the encapsulation of DMASBT dye into a magnesium doped aluminophosphate
16:30 - 16:45	Jaume Otaegui Rabanal	Multi-Stimuli Responsive Emitting Materials
16:45 - 17:00	Edurne Avellanal Zaballa	Molecular strategies to yield long-wavelength emitting BODIPYs featuring bright and long-lasting laser signal
17:00 - 17:15	Ana Clara Rodrigues	Diphenylbenzofulvene as White Light Emitters
17:15 - 17:30	Catarina Viola	Entrapped [S3] <sup>2-</sup> clusters with long-lived NIR emission in artificial hackmanite
<b>17:30 - 17:45</b>	<b>Break</b>	
<b>Session Poster 1 (20/10/2021)</b>		
17:45	Sara Belattar	Decolorization of Malachite Green by hydrogen peroxide using heterogeneous catalysis by mixed iron oxides
	Mónica Bernardino	Synthesis of galactosylated porphyrin ligands for novel hybrid photoactive materials
	Juan Antonio Soler	Adapalene as a Potential Type II Photosensitizer
	Sónia Pinto	Synthesis and photophysical characterization of BODIPY dyes
	Sara Fernandes	Photoimmunoconjugates based on Glycophthalocyanines for Cancer Photodynamic Therapy
	Raquel Gonçalves	Synthesis and characterization of aryl-substituted BODIPY dyes displaying distinct solvatochromic singlet oxygen photosensitization
	Nuna Ramos	Synthesis and photophysical properties of imidazole derivatives based on 9-ethylcarbazole heterocycle
	Hélio Barros	Development of fluorescent probes of SLMP53-1 for Target Localization
	João Castro	Spectroscopic characterization and optical chemosensing of ions with meso-triphenylamine-BODIPY derivatives
	Carolina Díaz Norambuena	Spacer exerted modulation of charge and energy transfer probability in all-BODIPY assemblies applied as photosensitizers and lasers
	Sandra Beirão	Glycoconjugates for light biomedical applications
	Enrique García Martínez de la Hidalga	Chemical versatility unsurpassed: ready access to long lasting lasers, bioprobes and light harvesters from BODIPYs
	Mario de la Hoz Tomás	Hydrogen-Bonded Organic Frameworks in Polymer Matrices for Acids Sensing
	Andreia Filipa da Costa Tuna	Interaction between Human Serum Albumin and an Anionic-Fluorinated Porphyrin
<b>Thursday</b>		
<b>Session 6 (21/10/2021)</b>		
16:00 - 16:15	Sara Illodo	G-Quadruplex formation in mitochondrial DNA
16:15 - 16:30	Sara Gamelas	Water soluble phthalocyanines combined with potassium iodide for the efficient photoinactivation of Escherichia coli
16:30 - 16:45	David Botequim	Photoinduced plasmon-assisted functionalization of gold nanorods for biosensing of proteins
16:45 - 17:00	Joana N. Martins	Light-Activated counterion activation of Cell-Penetrating Peptide transport across synthetic membranes
17:00 - 17:15	M. Carmen Gonzales Garcia	Dynamic Excimer (DYNEX) Imaging of Lipid Droplets
17:15 - 17:30	Carla Marisa Magalhães	Self-illuminating chemiluminescent photosensitizers for a selective anticancer therapy
<b>17:30 - 17:45</b>	<b>Break</b>	
<b>Session Poster 2 (21/10/2021)</b>		
17:45	Joana C. Lopes	Sustainable production of imines using carbon nitride as photocatalyst under visible LED irradiation
	Amilcar Duque-Prata	Spectroscopic Characterization of NIR absorbing Charge-Transfer Complexes
	Yuri Barros Fávaro	Niobium catalyst applied in 2,4D herbicide degradation
	Daiana Leithardt	Fluorescence of Spectroscopy Study on the Interaction of Lysozyme with Quercetin
	Francisco Sánchez Martínez	Novel Luminescent Isostructural Zn-MOFs: Spectral and Photodynamical Behavior
	Ana María López Fernández	Photodynamic Inactivation of Pseudomonas aeruginosa by PHEMA Films Loaded with Rose Bengal: Potentiation Effect of Potassium Iodide
	Javier Cachón	Photodissociation in the first absorption band of alkyl nitrite molecules
	Lucien Magson	Photoredox Catalyzed Intramolecular C-O Bond Formation via Oxidative Cyclisation of 2-Hydroxybenzamides
	João Ribeiro	Pharmaceuticals photodegradation by Zirconium-Porphyrin MOF
	Arnau Marco	New molecular switches for CO <sub>2</sub> capture controlled by light
	Álvaro Ruiz Arias	A FRET pair for Illuminating Amyloid Fibril Formation
	Alberto Giménez Gómez	Evaluation of 2-Methylacetophenone and its Derivative as Molecular Solar Thermal Systems (MOST)
	Laura Espinar Barranco	Monitoring of $\beta$ -amyloid aggregation by a fluorescent lifetime-based probe solvatochromic dye