



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

XVI ELAFOT and II LatASP Meeting

Panama City, October 27-30, 2025

Program

	Monday	Tuesday	Wednesday		Thursday			
8:30-9:00		PL3: Michael J. Davies		PL10: Massimo Trotta		PL13: Dario Falcone		
9:00-9:30		PL4: Wenfang Sun		PL11: Roberta Croce		PL14: Alessandra Nara de Souza Rastelli		
9:30-10:00		PL5: Virginie Lhiaubet-Vallet		PL12: Luis Larrondo		PL15: Manuel Ahumada		
10:00-10:30		Coffee break		Coffee break		Coffee break		
10:30-11:00		Registration	S2: Photosensitized Processes in Photobiology	S3: Applications of organometallic photochemistry	S6: Photochemical and photocatalytic processes: from semiconductor to protein systems	S7: Photochemical and biomedical applications of nitric oxide donor agents: Recent developments for aPDT and PDT	S11: Photoactive materials for photodynamic therapy applications	S12: Molecular Probes for Sensing and Imaging
11:00-11:30								
11:30-12:00								
12:00-12:30								
12:30-13:00	Lunch		Lunch		Lunch			
13:00-13:30	Lunch		Lunch		Social event (excursion)			
1:30-14:00	Lunch		Lunch					
14:00-14:30	PL6: Ryan McCulla		S8: Optogenetics: New Tools for Precise Cell Control					
14:30-15:00	PL7: Xavier Allonas		S9: Photodynamic Therapy and Photodynamic Inactivation				S10: Time-resolved studies of molecular mechanisms in photochemistry and photobiology	
15:00-15:30	PL8: Gustavo Pino							
15:30-16:00	PL9: Mónica C. Gonzalez		Awards ceremony					
16:00-16:30	S4: Singlet oxygen detection and dosimetry	S5: Skin health and sun exposure: from cutaneous pathologies to photoprotection						
16:30-17:00			Opening ceremony		Poster session (even numbers) (Snack)			
17:00-17:30	PL1: Sherri McFarland		Poster session (odd numbers) (Snack)					
17:30-18:00	PL2: Mauricio Baptista							
18:00-18:30	S1: Honoring Eduardo Lissi: A Legacy of Light and Interfaces		LatASP/ELAFOT Assembly					
18:30-19:00								
19:00-19:30								
19:30-20:00								
20:00-20:30	welcome reception				Gala dinner			
20:30-21:00								
21:00-21:30								
21:30-22:00								

PL: Plenary Lecture, S: Symposium



**XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program**

Plenary Lectures

Plenary Lecture 1. Monday, 17:30 – 18:00

Sherri A. McFarland

Title: Light, metal, and medicine: Translating a phototherapeutic concept

The University of Texas at Arlington

Email: sherri.mcfarland@uta.edu

Plenary Lecture 2. Monday, 18:00 – 18:30

Mauricio Baptista

Title: Skin under light exposure: from damage mechanisms to adaptive responses

Universidade de São Paulo, Brazil

Email: baptista@iq.usp.br

Plenary Lecture 3. Tuesday, 08:30 – 09:00

Michael J. Davies

Title: Mapping photochemical modifications on metabolic enzyme complexes

University of Copenhagen, Denmark

Email: davies@sund.ku.dk

Plenary Lecture 4. Tuesday, 09:00 – 09:30

Wenfang Sun

Title: Developing Ir(III) complexes as photosensitizers for phototherapy

The University of Alabama, USA

Email: wsun15@ua.edu

Plenary Lecture 5. Tuesday, 09:30 – 10:00

Virginie Lhiaubet-Vallet

Title: Photoreactivity of metabolically generated DNA lesions: the case of etheno adducts

Instituto de Tecnología Química (Universitat Politècnica de València-CSIC), Spain

Email: lvirgini@itq.upv.es

Plenary Lecture 6. Tuesday, 14:00 – 14:30

Ryan McCulla

Title: The rare single chromophore dual-release photochemistry of sulfoximines and sulfone diimines

Saint Louis University, USA

Email: rmccull2@slu.edu



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Plenary Lecture 7. Tuesday, 14:30 – 15:00

Xavier Allonas

Title: Homo- vs. hetero-FRET in singlet-singlet photosensitization evidenced by photopolymerization experiments

Université de Haute-Alsace, France

Email: xavier.allonas@uha.fr

Plenary Lecture 8. Tuesday, 15:00 – 15:30

Gustavo Pino

Title: Cold-ion-spectroscopy and excited state dynamics of species of biological interest

Universidad Nacional de Córdoba, Argentina

Email: gpino@unc.edu.ar

Plenary Lecture 9. Tuesday, 15:30 – 16:00

Mónica C. Gonzalez

Title: Mechanistic insights into solar-driven photocatalysts for sustainable applications

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina

Email: gonzalez@inifta.unlp.edu.ar, mcgonzalez.quim@gmail.com

Plenary Lecture 10. Wednesday, 08:30 – 09:00

Massimo Trotta

Title:

Università di Bari, Italia

Email: massimo.trotta@cnr.it

Plenary Lecture 11. Wednesday, 09:00 – 09:30

Roberta Croce

Title: Photosynthesis in the far-red: mechanisms and challenges

Vrije Universiteit Amsterdam, Netherlands

Email: r.croce@vu.nl

Plenary Lecture 12. Wednesday, 09:30 – 10:00

Luis Larrondo

Title: Optogenetic circuits and optoecology: mapping transcriptional responses and visualizing population dynamics through the eyes of fungi

Pontificia Universidad Católica de Chile, Chile

Email: llarron@uc.cl, llarrondo@bio.puc.cl



**XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program**

Plenary Lecture 13. Thursday, 08:30 – 09:00

Dario Falcone

Title: Biocompatible nanosystems under the light: A spectroscopic insight into reverse micelles, vesicles, and other organized systems. Challenges and opportunities toward sustainable chemistry

Universidad Nacional de Río Cuarto, Argentina

Email: rfalcone@exa.unrc.edu.ar

Plenary Lecture 14. Thursday, 09:00 – 09:30

Alessandra Nara de Souza Rastelli

Title: Antimicrobial photodynamic therapy over oral pathogens: From the bench to the clinical setting

Universidade Estadual Paulista "Júlio de Mesquita Filho" - UNESP, Brazil

Email: alessandra.nara-souza-rastelli@unesp.br

Plenary Lecture 15. Thursday, 09:30 – 10:00

Manuel Ahumada

Title: Carbon dots: Unlocking photochemical and photobiological potential in biological applications

Universidad Mayor, Chile

Email: manuel.ahumada@umayor.cl



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Symposia

Symposium 1. Monday, 18:30 – 19:30

Honoring Eduardo Lissi: A Legacy of Light and Interfaces

Chair: Carolina Aliaga (Universidad de Santiago de Chile)

This symposium honors the scientific and human legacy of Prof. Eduardo A. Lissi, one of Latin America's most influential photochemists. His pioneering studies in kinetics, radical chemistry, and interfacial phenomena helped establish the foundations of photochemical research in the region. Beyond his vast scientific output, Prof. Lissi was a mentor of exceptional integrity and generosity, who inspired countless students and colleagues to pursue science with curiosity, collaboration, and humility. The talks gathered in this session celebrate not only his scientific achievements but also the enduring spirit of community he fostered.

18:30-18:40 **Carolina Aliaga** (Universidad de Santiago de Chile)

Introduction to the Symposium

18:40-19:00 **Emilio Alarcón** (University of Ottawa)

Title: Lissi's three magic principles

19:00-19:20 **Manuel Ahumada** (Universidad Mayor)

Title: The answer is "It Depends": Memories of Eduardo Lissi

Symposium 2. Tuesday, 10:30 – 12:30

Photosensitized Processes in Photobiology

Chairs: Carolina Lorente (Universidad Nacional de La Plata), Susana Nuñez Montoya (Universidad Nacional de Córdoba)

Invited talks

10:30-10:55 **Dennis Fuentealba** (Pontificia Universidad Católica de Chile)

Title: Supramolecular controllable photoactive agents for photodynamic therapy

10:55-11:20 **Carolina Lorente** (Universidad Nacional de La Plata)

Title: Effect of UV-A Radiation on Antioxidant Activity and Cytotoxicity of Vanillin

11:20-11:45 **Camilo I. López-Alarcon** (Pontificia Universidad Católica de Chile)

Title:

11:45-12:10 **Juliana Marioni** (Universidad Nacional de La Plata)

Title: Natural anthraquinones and Photodynamic Therapy: an antifungal strategy against Candida biofilms

Oral Communications

12:10-12:20 **Gricelda Godoy-Ortega** (Universidad Nacional de La Plata)

Title: Pterin–Thymine Adducts as Photosensitizers for Oxidative Damage

12:20-12:30 **Luciano F. Dibona-Villanueva** (Pontificia Universidad Católica de Chile)

Title: Development of Photoactivable Biofungicides: From Laboratory Assessments to Field Tests



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Symposium 3. Tuesday, 10:30 – 12:30

Applications of organometallic photochemistry

Chairs: Nancy Pizarro (Universidad Andrés Bello), Malcolm D. E. Forbes (Bowling Green State University)

Invited talks

- 10:30-10:55 **Malcolm D. E. Forbes** (Bowling Green State University)
Title: Influence of topology, architecture, and environment on spin polarization transfer: implications for quantum information science
- 10:55-11:20 **Nancy Pizarro** (Universidad Andrés Bello)
Title: Photoinduced dual capacity of Re-Mn complexes for singlet oxygen generation and carbon monoxide release
- 11:20-11:45 **Alan Cabrera C.** (Pontificia Universidad Católica de Chile)
Title: Heteroleptic Copper(I) Complexes type [Cu(dpa)(P,P)]⁺ as Photoredox Catalyst
- 11:45-12:10 **Andrés Vega** (Universidad Andrés Bello)
Title: Potential applications of rhenium(I)tricarbonyl molecules with aromatic bridged ligands

Oral Communications

- 12:10-12:20 **Jesús M. N. Morales** (Universidad Nacional de Santiago del Estero)
Title: Characterization of tyrosine oxidation products generated via the photooxidative quenching reaction of Ru(bpy)₃²⁺ by S2O8²⁻
- 12:20-12:30 **María Paz Herrera Maldonado** (Universidad Tecnológica Metropolitana)
Title: Novel heteroleptic Cu(I)-Dipyridylamine/Diphosphine complexes as active materials in Light-Emitting Electrochemical Cells.

Symposium 4. Tuesday, 16:00 – 18:00

Singlet oxygen detection and dosimetry

Chairs: Helena C. Junqueira (Univeridade de São Paulo), Steffen Hackbarth (Humboldt-Universität zu Berlin)

Invited talks

- 16:00-16:25 **Steffen Hackbarth** (Humboldt-Universität zu Berlin)
Title: Optical detection of singlet oxygen in vitro and in vivo – Please stop saying, it would be difficult
- 16:25-16:50 **Andrés H. Thomas** (Universidad Nacional de La Plata)
Title: Kinetic analysis to evaluate the contribution of type II mechanism in photosensitized oxidations
- 16:50-17:15 **Fernanda Manso Prado** (Univeridade de São Paulo)
Title: Singlet oxygen in biological systems: mass spectrometry and near-infrared light emission measurements
- 17:15-17:40 **Ronald Sroka** (Universität München)
Title: Potential of 5-ALA in Neurosurgery – Fluorescence and PDT



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Oral Communications

- 17:40-17:50 **Cristobal A. Mejias Miller** (Universidad de Chile)
Title: Synthesis and characterization of N-ethylpyridin-1-ium-2-pyridones as singlet oxygen releasers in mixed aqueous/acetonitrile media
- 17:50-18:00 **Matías A. Carrasco Bozo** (Universidad de Chile)
Title: Phenalenone-functionalized cationic polymers: a versatile platform

Symposium 5. Tuesday, 16:00 – 18:00

Skin health and sun exposure: from cutaneous pathologies to photoprotection

Chairs: Daniel Gonzalez Maglio (Universidad de Buenos Aires), Glaucia Regina Martinez (Universidade Federal do Parana), Miguel Angel Puertas-Mejía (Universidad de Antioquia), Juan Camilo Mejía-Giraldo (Universidad de Antioquia)

Invited talks

- 16:00-16:25 **Miguel Angel Puertas-Mejía** (Universidad de Antioquia)
Title: Marine Algae as a Therapeutic and Sustainable Source for Skin Photoprotection Against UV-Induced Damage
- 16:25-16:50 **Glaucia Regina Martinez** (Universidade Federal do Parana)
Title: Melanoma Cell Responses to Melanogenesis Induction and its consequences
- 16:50-17:15 **Daniel Gonzalez Maglio** (Universidad de Buenos Aires)
Title: Sunlight-induced modulation of the cutaneous immune response in human tegumentary leishmaniasis.
- 17:15-17:40 **Juan Camilo Mejía-Giraldo** (Universidad de Antioquia)
Title: Photostability and Photostabilization Approaches for UV Filters: Advancing the Rational Design of Broad-Spectrum (UVA–UVB) Sunscreens

Oral Communications

- 17:40-17:50 **Pedro Duvan Barrios Mejía** (Universidad del Quindío)
Title: Photochemical properties of Rutin-loaded nanoemulsions
- 17:50-18:00

Symposium 6. Wednesday, 10:30 – 12:30

Photochemical and photocatalytic processes: from semiconductor to protein systems

Chairs: Claudio D. Borsarelli (Universidad Nacional de Santiago del Estero), Moises Canle (Univerisad de la Coruña)

Invited talks

- 10:30-10:55 **Moises Canle** (Univerisad de la Coruña)
Title: Heterogeneous Photocatalysis for Environmental Remediation: a Journey from Batch to Continuous Flow Systems
- 10:55-11:20 **Marcelo H. Gehlen** (University of São Paulo)
Title: Single-Molecule Catalysis in Pd Cross-Coupling Reaction by Fluorescence Microscopy: The Interplay between Experiment and Stochastic Simulation
- 11:20-11:45 **Giorgia Miolo** (Universita di Padova)



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Title: Chemico-physical and biological properties of two monoclonal antibodies, Bevacizumab (Avastin®) and Durvalumab (Imfinzi®) under real-life light doses: a mechanistic approach.

11:45-12:10 **Claudio D. Borsarelli** (Universidad Nacional de Santiago del Estero)
Title: Photosensitized oxidative crosslinking of proteins

Oral Communications

12:10-12:20 **Manuela Saldarriaga Gallego** (Universidad Nacional de Colombia)
Title: Evaluation of the Thermal and Photochemical Stability of Fe₃O₄ Magnetic

12:20-12:30

Symposium 7. Wednesday, 10:30 – 12:30

Photochemical and biomedical applications of nitric oxide donor agents: Recent developments for antimicrobial and cancer therapy

Chairs: Roberto Santana da Silva (Univeridade de São Paulo), Salvo Sortino (Università di Catania)

Invited talks

10:30-11:00 **Salvatore Sortino** (University of Catania)
Title: Multifunctional Hyaluronic Acid- and Carbon Dot-Based Conjugates Photoreleasing Nitric Oxide

11:00-11:30 **Amedea Barozzi Seabra** (Federal University of the ABC)
Title: Precision Nanotherapy with Nitric Oxide: Boosting Anti-Cancer Effects and Minimizing Inflammation

11:30-12:00 **Luiz Gonzaga de França Lopes** (Federal University of Ceara)
Title: Controlled NO and HNO Release from Metal Complexes: Chemical and Photochemical Triggers and Biological Effects

12:00-12:30 **Roberto S. Silva** (University of Sao Paulo)
Title: Advancing photodynamic therapy by nitric oxide releasing agent using three-dimensional (3D) biofabricated cancer model

Symposium 8. Wednesday, 14:00 – 15:30

Optogenetics: New Tools for Precise Cell Control

Chairs: Alejandra Mussi (Universidad Nacional de Rosario), Matías Zurbriggen (Heinrich-Heine-Universität Düsseldorf)

Invited talks

14:00-14:30 **Matías Zurbriggen** (Heinrich-Heine-Universität Düsseldorf)
Title:

14:30-15:00 **Alejandra Mussi** (Universidad Nacional de Rosario)
Title:



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Symposium 9. Wednesday, 15:30 – 17:00

Photodynamic Therapy and Photodynamic Inactivation

Chairs: Adriana Casas (Universidad de Buenos Aires), Carlos E. Crespo-Hernández (Case Western Reserve University)

Invited talks

- 15:30-15:55 **Carlos E. Crespo-Hernández** (Case Western Reserve University)
Title: Development of Biocompatible Multifunctional Agents for Photodynamic Therapy, Cancer Cell Imaging, and Cell Proliferation Inhibition
- 15:55-16:20 **Mariana B. Spesia** (Universidad Nacional de Río Cuarto)
Title: New strategies for optimizing the photoinactivation of bacteria
- 16:20-16:45 **Adriana Casas** (Universidad de Buenos Aires)
Title: Theranostic Potential of Aminolevulinic Acid-Derived Porphyrins
- 16:45-17:10 **Sherri A. McFarland** (The University of Texas at Arlington)
Title: Light-Responsive Metallodrugs: Structure, Excited States, and Biological Function

Oral Communications

- 17:10-17:20 **Jhohann David Alturo Walteros** (Universidad del Quindío)
Title: Gold Nanoparticle–Polyphenol Conjugates for Dual-Mode Antimicrobial Phototherapy
- 17:20-17:30 **Jhon Alejandro Arboleda-Murillo** (Universidad del Quindío)
Title: Light-Activated Antimicrobial Films: Structural and Optical Design of Curcumin–Chlorophyllin Alginate Composites.

Symposium 10. Wednesday, 15:30 – 17:00

Time-resolved studies of molecular mechanisms in photochemistry and photobiology

Chairs: Rene Nome (Universidade Estadual de Campinas), Germán Gunther (Universidad de Chile)

Invited talks

- 15:30-15:55 **Valentine Vullev** (University of California Riverside)
Title: How Charge-Transfer Dynamics Leads to "Unusual" Photophysics
- 15:55-16:20 **Igor Alabugin** (Florida State University)
Title: Photoredox Paradox: Uncovering the Roles of Electron Upconversion and Electron Catalysis
- 16:20-16:45 **Frank Quina** (University of São Paulo)
Title: Probing Complex Systems with Time-Resolved Spectroscopies: From Micelles to the Chromophores of Red Wine
- 16:45-17:10 **Rene Nome** (Universidade Estadual de Campinas)
Title:

Oral Communications

- 17:10-17:20 **Analia Young Hwa Cho** (Universidad de Chile)
Title: Photosensitization and Photostability of DAN fluorescent probes
- 17:20-17:30 **Álvaro Cabrera** (Universidad de Chile)



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

Title: Design and Synthesis of dicationic styryl dyes for nucleic acid detection enhancing binding through electrostatic interactions

Symposium 11. Thursday, 10:30 – 12:30

Photoactive materials for photodynamic therapy applications

Chairs: Thiago Teixeira Tasso (Universidade Federal de Minas Gerais), Luiza Araújo Gusmão (Univeridade de São Paulo), Cristian Camilo Villa Zabala (Universidad del Quindío), Mario Miranda (Universidad de Panamá)

Invited talks

- 10:30-10:55 **Thiago Teixeira Tasso** (Universidade Federal de Minas Gerais)
Title: Combining carbon dots with porphyrin photosensitizers: a strategy to boost photophysical properties and toxicity against leukemia cells
- 10:55-11:20 **Luiza Araújo Gusmão** (Univeridade de São Paulo)
Title: Liposomes, Nanoemulsions and Cyclodextrins: Advanced Platforms for Photosensitizers
- 11:20-11:45 **Cristian Camilo Villa Zabala** (Universidad del Quindío)
Title: Photoactive Materials for Food Preservation
- 11:45-12:10 **Mario Miranda** (Universidad de Panamá)
Title:

Oral Communications

- 12:10-12:20 **Juan Fernando Lopez Crespo** (Universidad Nacional de Colombia)
Title: Photostability study on red-emitting carbon dots by PARAFAC Analysis
- 12:20-12:30 **Cristian Tirapegui Calquin** (Universidad de Chile)
Title: In situ NMR photochemistry of dicationic azobenzenes

Symposium 12. Thursday, 10:30 – 12:30

Molecular Probes for Sensing and Imaging

Chairs: Carolina Aliaga (Universidad de Santiago de Chile)

Invited talks

- 10:30-10:55 **Carolina Aliaga** (Universidad de Santiago de Chile)
Title: From Inverted Solvatochromism to Excited-State Dynamics: Triarylpyrimidine Push–Pull Fluorophores as Molecular Probes in Microheterogeneous Media
- 10:55-11:20 **Alejandro Cortés** (Universidad de Valencia)
Title: Rationalizing the Excited-State Properties and Dynamics of Biphenyl-Based Push-Pull Systems
- 11:20-11:45 **Moisés Domínguez** (Universidad de Santiago de Chile)
Title: Lessons from the media: guidelines for improving the sensitivity of chromophores
- 11:45-12:10 **Pablo Rojas** (Universidad de Santiago de Chile)
Title: Detecting different liposomal microenvironments using fluorosolvatochromic dyes.

Oral Communications



XVI ELAFOT and II LatASP Meeting
Panama City, October 27-30, 2025
Program

- 12:10-12:20 **Guillermo Esteban Quintero Faundez** (Universidad de Santiago de Chile)
Title: Emissive Solvatochromic Behavior of 7-(diethylamino)-1-methylquinolin-2(1H)-ones
- 12:20-12:30 **Germán Gunther** (Universidad de Chile)
Title: Push-Pull fluorescent probes, from Webers' DANs to DAAns



Program

Posters

#	Authors	Abstract title
1	Diego Armando Villamizar-Mantilla, Luis Alberto Nuñez, Elena E. Stashenko & Jorge Luis Fuentes	Erythema protection efficacy of plant derivatives compounds based on narrow-band reflectance spectroscopy data in mice
2	Diego Armando Villamizar-Mantilla, Víctor Alfonso Carrero Pulido, Carina Arciniegas Sierra, Jhon Alexander Suescun Sepúlveda & Jorge Luis Fuentes Lorenzo	Radioresistance, photoprotection, and antigenotoxicity against UVB radiation of the pigmented Kocuria flava strain from Paramo ecosystems in Colombia
3	Fernanda M. Prado, Rafaela O. Nascimento, Marisa H. G. Medeiros, Graziella E. Ronsein, Sayuri Miyamoto, Hermi F. Brito & Paolo Di Mascio	Singlet oxygen in biological systems: mass spectrometry and near-infrared light emission measurements
4	Rocio B. Acosta, Edgardo N. Durantini & Mariana B. Spesia	Effective bacterial inactivation: combination of therapies
5	Verónica E. González, Edgardo N. Durantini & Mariana B. Spesia	Effects of photoinactivation on bacterial resistance and virulence factors
6	Giovanna Coelho Bosso, Luiza Araújo Gusmão, Rogéria Rocha Gonçalves & Antonio Claudio Tedesco	Evaluation of Graphene Quantum Dots in Breast Cancer Cell Line
7	Cristobal Espinoza, Denis Fuentealba & Daniel Guerra	Photophysical and photochemical study of inclusion compounds of indocyanine green with cucurbiturils
8	Álvaro Molina & Daniel Guerra	Photophysical and photochemical study of inclusion compounds of temoporfin with cucurbiturils
9	Lina M. Romero & Denis Fuentealba	Novel supramolecular turn-on/off system for singlet oxygen generation and fluorescence emission using acyclic cucurbituril-type containers
10	André L. Lopes, Thabata V. Ferreira, Fernanda M. Prado, Graziella E. Ronsein, Marisa H. G. Medeiros, Jean Cadet & Paolo Di Mascio	Characterizing the Photodamage Induced by 6-Thioguanine Incorporated Into DNA
11	Sofía Pérez Del Pino, Walter Brown, Daniel Guerra Díaz, Daniel Zúñiga-Núñez, Paula Rivero-Jerez, Daniel Pino, Hilde Harb Buzza & Denis Fuentealba.	Supramolecular prodrug delivery system based on 5-aminolevulinic acid cucurbit[7]uril complex with enhanced fluorescence detection and photodynamic therapy effect for breast cancer
12	Sebastian Crisóstomo-Cáceres, Paula S. Rivero-Jerez & Denis Fuentealba	Supramolecular Modulation of Natural Photosensitizer Aloe Emodin via Acyclic

XVI ELAFOT and II LatASP Meeting

Panama City, October 27-30, 2025

Program

		Cucurbituril Complexation: Toward Enhanced PDT Performance
13	Leidy T. Sanchez, Cristian C. Villa & Lina Marcela Agudelo-Laverde	Development of quercetin capped TiO ₂ nanoparticles (Que-TiO ₂) for the photodegradation of ethylene in food applications.
14	J. Alejandro Arboleda-Murillo, Ana Valentina Luna-Obando, Andrés C. Giraldo-Contreas, Leidy T. Sanchez & Cristian C. Villa.	Photoactive Alginate-Based Films Characterized by Confocal Laser Microscopy and Steady-State Fluorescence
15	Jesúan J. Farías, M. Laura Dántola & Andrés H. Thomas	Photosensitized oxidation of free and peptide tryptophan to N-formylkynurenine
16	Danna Sofia Muñoz-Florez, Diana Blach & Cristian C. Villa	Comparison of the photoinactivation efficiency of chlorophyllin, gallic acid and rose bengal against S. Aureus.
17	Eunice Rios Vasquez, J Alejandro Arboleda-Murillo & Cristian C. Villa	Enhanced ROS Generation by Quercetin-Loaded Nanoemulsions
18	Isabela Canavezzi Matias, Carlos M.V. Palomino & Maurício S. Baptista	Impact of melanin on melanocyte response to blue light
19	Juliana Marioni, Jesús M. N. Morales, Bianca Romero, Tomás I. Gómez, Brenda S. Konigheim, Claudio D. Borsarelli & Susana C. Núñez Montoya	Supramolecular Stabilization of Parietin by a Bio-Inspired Polycation for Photodynamic Applications
20	Jesús M.N. Morales, Cecilia Vera, Lujan Torres & Claudio D. Borsarelli	Characterization and photosensitizing properties of a supramolecular adduct formed between Rose Bengal and BSA crosslinked oligomers
21	Jesús M.N. Morales, Cecilia Vera & Claudio D. Borsarelli	Photosensitized oxidative crosslinking of bovine serum albumin and the impact on its esterase-like activity
22	Robles J., Cho YHA., Ormazabal-Toledo R. & Gunther G.	Photophysical Characterization of alkyl-amino phenalene derivatives in homogeneous/microheterogeneous media and analysis as potential membrane probes
23	Claudia Muñoz-Morcillo, Daniela Arroyo-Ortega, Cristian Hernandez-Sanchez & Juan Camilo Mejía-Giraldo	Synthesis and Evaluation of a Photostable Avobenzene Derivative as a UVA–UVB Photoprotective Ingredient for Sunscreen Formulation
24	María Paz Herrera, Paulina Dreyse, Iván A. González & Alan R. Cabrera	Novel heteroleptic Cu(I)-Dipyridylamine/Diphosphine complexes as active materials in Light-Emitting Electrochemical Cells.
25	Amaro Mejías & Germán Günther	SYNTHESIS AND CHARACTERIZATION OF N-ETHYLPYRIDIN-1-IUM-2-PYRIDONES AS



XVI ELAFOT and II LatASP Meeting

Panama City, October 27-30, 2025

Program

		SINGLET OXYGEN RELEASERS IN MIXED AQUEOUS/ACETONITRILE MEDIA.
26	Charis Parramón Jurado, Cecilia Challier, Mariana B. Spesia, Marcela Altamirano & Susana N. Criado	Degradation of topical ophthalmic drugs under simulated oxidative stress conditions
27	Matías Carrasco, Ximena Briones & Germán Günther	Phenalenone-functionalized cationic polymers: a versatile platform
28	Álvaro Cabrera, Germán Günther & Javier Romero	DESIGN AND SYNTHESIS OF DICATIONIC STYRYL DYES FOR NUCLEIC ACID DETECTION ENHANCING BINDING THROUGH ELECTROSTATIC INTERACTIONS
29	Sofía BORASI, E. Taís AGUAYO FRÍAS & Daniel GONZÁLEZ MAGLIO	Development of an in vitro biological test to determine sun protection factor of commercial sunscreens.
30	Ariadna CIROCCO REDIGO, Sofía CONZÓN, E. Taís AGUAYO FRÍAS, Andrea CANELLADA & Daniel GONZÁLEZ MAGLIO	Evaluation of postbiotics and a plant extract for skin active photoprotection: role of Lactacisbacillus rhamnosus and Smilax campestris on UVB-induced keratinocyte damage
31	Analia. Y.H. Cho & German Gunther	Photosensitization and Photostability of DAN fluorescent probes
32	Pedro Duvan Barrios-Mejia, Leidy T. Sanchez & Cristian C. Villa	Photochemical properties of Rutin-loaded nanoemulsions.
33	Melannie García-Sánchez, Daniel Torres- Mendoza, Mario Miranda, Marcos H. Salazar & José Robinson-Duggon	PHOTOSENSITIZING EFFECT AND BINDING OF TOLUIDINE BLUE ON HUMAN SERUM ALBUMIN

