



# XXXVI Congress of the Italian Association of Photobiology - SIFB

Brescia, 22-24 June 2026

*Scientific programme*

<b>Invited lectures</b> 30 min + 5 min discussion	<b>Oral presentations</b> 20 min + 3 min discussion	<b>Young Investigator Award</b> 20 min + 5 min discussion
<p><b>Monday, 22 June 2026</b></p> <p>Session 1 - <b>Opening Scientific Session</b></p> <p>Session 2 - <b>Photosynthesis and Biohybrid Systems</b></p>	<p><b>Tuesday, 23 June 2026</b></p> <p>Session 3 - <b>Photodynamic Therapy in Cancer Microenvironments</b></p> <p>Session 4 - <b>Advanced Photosensitizers and Combination PDT Strategies</b></p> <p>Session 5 - <b>Photodermatology: From Therapy to Imaging</b></p>	<p><b>Wednesday, 24 June 2026</b></p> <p>Session 6 - <b>Photosensitizer Design and Photodynamic Strategies</b></p> <p>Session 7 - <b>From Photo-immunomodulation to One Health Applications</b></p> <p><b>Closing Session</b></p>

## Sponsorship and patronage

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## Monday, 22 June 2026

Time		Speaker / Activity	Title
13:00	Registration	Registration	
14:00-14:30	Opening	Congress Opening and Welcome Remarks	Greta Varchi – Valentina Rapozzi
<b>SESSION 1 - OPENING SCIENTIFIC SESSION</b>			<b>CHAIR: Carlo Matera</b>
14:30-15:05	Invited lecture	Laia Josa-Culleré	Photoswitches and photocages to eliminate cancer stem cells under external light control
15:05-15:25	Oral presentation	Ramona Santini (Frontiers Fellowship)	Targeted covalent photoswitch for two-photon control of endogenous receptors
15:25-15:45	Oral presentation	Giorgia Miolo	Photostability of therapeutic mAbs and ADCs under real-life light doses
15:45 -16:10	Coffee break	Coffee break	
<b>SESSION 2 - Photosynthesis and Biohybrid Systems</b>			<b>CHAIR: Maya Dimova Lambrea, Francesco Milano</b>
16:15 -16:50	Invited lecture	Lorenzo Ferroni	Distinctive morpho-functional adaptations for photosynthesis in deep shade in the ancient vascular plant genus <i>Selaginella</i> (Lycopodiophyta)
16:50-17:10	Oral presentation	Stefano Santabarbara	Evidence of bidirectional electron transfer in far-red light adapted Photosystem I
17:10-17:30	Oral presentation	Francesco Milano	In-field tomato growth under blue-depleted sunlight from a semi-transparent perovskite panel
17:30-17:50	Oral presentation	Maya Dimova Lambrea	Tiny diamonds, stronger cells: hydroxylated nanodiamonds mitigate oxidative stress in <i>Chlamydomonas reinhardtii</i>
17:50-18:10	Oral presentation	Rossella Labarile	Chromatophore-based biohybrid architectures for solar-pumped laser systems: role of scattering in optical characterization
18:20-19:30	Society meeting	SIFB General Assembly	

## Tuesday, 23 June 2026

Time	Format	Speaker / Activity	Title
<b>SESSION 3 - Photodynamic Therapy in Cancer Microenvironments</b>			<b>CHAIR: Giorgia Miolo</b>
09:00-09:35	Invited lecture	Valentina Rapozzi	Nitric Oxide, Nrf2 Signaling and Tumor Hypoxia: Interconnected Determinants of Resistance and Response in Photodynamic Therapy
09:35-09:55	Oral presentation	Thenesia Govender	Development of Multimodal, Light-Activated NO-Based Conjugates for Triple-Negative Breast Cancer Treatment
09:55-10:15	Oral presentation	Erna Tintor	CAIX-Targeted Inhibitor-Photosensitizer Conjugates for Enhanced Photodynamic Efficacy Under Hypoxic Tumor Conditions in Triple-Negative Breast Cancer Cells

Time	Format	Speaker / Activity	Title
10:15-10:35	Oral presentation	Cosmin Butnarusu	Lighting up mucins: development of polymethine dyes for mucin-responsive sensing in pancreatic cancer
10:35-10:55	Oral presentation	Federica Randisi (SIFB fellowship)	BODIPY-loaded liposomes enhance cellular uptake and PDT efficacy in 2D and 3D models
10:55-11:20	Coffee break	Coffee break	
<b>SESSION 4 - Advanced Photosensitizers and Combination PDT Strategies</b>			<b>CHAIR: Sonja Visentin</b>
11:20-11:40	Oral presentation	Francesca Bianco (SIFB fellowship)	Orai1 inhibition and PDT: novel combination therapy for Pancreatic Ductal Adenocarcinoma
11:40-12:00	Oral presentation	Sara Cascone	Development of Anionized Albumin Formulations for Macrophage-Selective Photoimmunotherapy
12:00-12:20	Oral presentation	Melisa Ciglaric	Synthesis of cationic AB <sub>3</sub> meso-(4-(N,N-diethylamino)phenyl)porphyrins for <i>in vitro</i> studies on melanoma cells
12:20-12:40	Oral presentation	Giulia Giugliano	Machine learning-driven discovery of novel photosensitizers for photodynamic therapy
12:40-13:00	Oral presentation	Martina Mušković Lukić	Impact of melanin pigment and hypoxic conditions on (photo)cytotoxicity of amphiphilic N-methylated tripyridiniumporphyrins with alkyl chains of different length on melanoma cell lines
13:00-14:30	Lunch	Lunch	
<b>SESSION 5 - Photodermatology: From Therapy to Imaging</b>			<b>CHAIR: Marina Venturini</b>
14:40 - 15:15	Invited lecture	Piergiacomo Calzavara Pinton	A lifetime in science: reflections on light based therapies and dermatological research
15:15 - 15:35	Oral presentation	Isacco Cattaneo	Real-life experience from a tertiary phototherapy center on solar urticaria: clinical features, management, and long-term outcomes from a twenty-year cohort
15:35 - 15:55	Oral presentation	Mariateresa Rossi	Photoprotection in Inflammatory Dermatoses
15:55-16:15	Oral presentation	Gaia Maridati	Frontiers in Photobiology
16:15 - 16:40	Coffee break	Coffee break	
16:40 - 17:15	Invited lecture	Luigi Spiazzi	Physics in photodermatology: quantitative imaging and AI
17:15 - 17:25	Oral presentation	Alessandro Franzini	Light and Edema: An Unexpected Association
17:25 - 17:45	Oral presentation	Marina Venturini	Photodynamic Therapy with Topical Zinc Phthalocyanine RLP068/Cl for Moderate-to-Severe Papulopustular Acne: A Pilot Study
17:45 - 18:15	Award ceremony	Young Investigator Award Ceremony - Alessio Colleoni	Photoswitchable Glycomimetics Enable Precision Targeting of LecB in <i>Pseudomonas aeruginosa</i>
20:30	Social dinner	Social dinner	Osteria "L'Oste Sobrio"

## Wednesday, 24 June 2026

Time	Format	Speaker / Activity	Title
<b>SESSION 6 - Photosensitizer Design and Photodynamic Strategies</b>			<b>CHAIR: Enrico Caruso</b>
<b>09:15-09:50</b>	<b>Invited lecture</b>	<b>Mathias O. Senge</b>	Molecular and Formulation Strategies for Photosensitizer Design
<b>09:50-10:10</b>	Oral presentation	Nika Skokic	Impact of Zn(II) and Cu(II) chelation with methylated tetrakis pyridinium-3-yl porphyrin on antimicrobial properties and photodynamic inactivation
<b>10:10-10:30</b>	Oral presentation	Nataliia Emashova	Infrared light-based antimicrobial approach
<b>10:30-10:50</b>	Oral presentation	Chiara Di Donato <b>(SIFB fellowship)</b>	Phage Platforms for Targeted Antimicrobial Photodynamic Therapy
<b>10:50-11:10</b>	Oral presentation	Giuseppe Nocito <b>(SIFB Fellowship)</b>	A photo-antimicrobial hydrogel based on a tetracationic porphyrin and Captisol® assemblies for wound management
<b>11:10-11:30</b>	Coffee break	Coffee break	
<b>SESSION 7 - From Photoimmunomodulation to One Health Applications</b>			<b>CHAIR: Mariateresa Rossi</b>
<b>11:30 - 11:50</b>	Oral presentation	Marialaura Giannaccari	Green-Synthesized Prussian Blue Nanoparticles for Synergistic Breast Cancer Therapy
<b>11:50 - 12:10</b>	Oral presentation	Emanuela Peluso	Multilayer of Prussian Blue Nanoparticles with Photothermal Antibacterial Effect
<b>12:10 - 12:30</b>	Oral presentation	Giovanni Romano	Unify, Align, and Educate: Promoting Photodynamic Inactivation within the One Health Framework by COST Action CA24127 PanEuCOPTion
<b>12:30-13:05</b>	<b>Invited lecture</b>	<b>Serena Lembo</b>	<b>Light and skin: photoimmunomodulation</b>
<b>13:10</b>	Closing	<b>Closing remarks</b>	