Invited Talks	(25' + 5' discussion)
Keynote presentations	(20' + 5' discussion)
Oral presentations	(15' + 5' discussion)
Young investigators prizes	(20' + 5 discussion)
Flash presentations	(6')

Monday September 9 <sup>th</sup> (morning session)	
8.15	Registration
9.15	Congress Opening and Welcome Remarks:
	Valentina Rapozzi (President SIFB), Antonino Mazzaglia (Chair Conference),
	CNR-ISMN and Dip. ChiBioFarAm (UNIME) Directors & SCI Sicilia President
	Session 1 - Photosynthesis & photoresponsive materials
0.00	Chair: Antonino Mazzaglia
9.30	Massimo Trotta
	Photosynthetic Odyssey: Sustainable Solutions from a paramount metabolic process
10.00	Rossella Labarile
	Photosynthetic bacteria in light-driven bio hybrid devices
10.20	Raffaella Margherita Zampieri
	Biohydrogen production through photofermentation by a purple non-sulfur bacterium
10.40	COFFEE BREAK
	Session 2 – Miscellaneous
	Chairs: Greta Varchi, Massimo Trotta
11.15	Masaoki Kawasumi
	The effect of UV-induced mutations on the binding of ETS transcription factors to the
	Cdkn2a/p16 promoter
11.40	Laura Grigolato
	Daylight PDT: pros and cons
12.00	Alberto Danielli
	Nanobiological engineering of M13 phages for enhanced electrochemiluminescent
	signal transduction in point-of-care biosensors
12.20	Simona Salerno
	Chitosan-Porphyrin Composite Membrane for Topical Photodynamic Therapy
12.40-	Sonia Visentin
	Assessment of Cystic Fibrosis Mucus Permeability to Fluorescent Bacterial Secretome
	Molecules for Drug Candidate Potential

Monday September 9 <sup>th</sup> (afternoon session)			
	Session 3 – Photodynamic inactivation & antimicrobial PDT Chairs: Domenico Franco, Kristjan Plaetzer		
14.10	Kristjan Plaetzer		
	Save the Crop: Photodynamic Inactivation in Agriculture		
14.35	Bianka Siewert		
	Photoactive Antimicrobials from South American Fungi		
14.55	Mariachiara Trapani		
	A nanohybrid assembly composed of silver nanoparticles and porphyrins for		
	antimicrobial photodynamic applications		
15.15	Nidia Maldonado-Carmona		
	Shaping light: photophysical and biological parameters needed for efficient		
	Photodynamic Antimicrobial Chemotherapy on bacteria		
15.35	Giuseppe Nocito		
	Curcumin and Vancomycin loaded hydrogel coating medical device for prosthetic joint		
	infections control		
16.00	COFFEE BREAK		
Session 4 – Photo-induced chemical and biological processes Chairs: Carlo Matera, Masaoki Kawasumi			
16.30	Wiktor Szymanski		
	Photopharmacology: tools, considerations, and applications		
17.00	Rosalba Sortino		
	Three-photon infrared stimulation of endogenous neuroreceptors in vivo		
17.20	Edoardo Armano		
	Photoactivatable Version of Ivabradine Enables Light Induced Block of HCN Current in		
	Vivo		
17.40	Lorenzo Torrisi		
	Carbon dots luminescence via carbon laser ablation in biocompatible solution		
18.00	SIFB meeting		

	Tuesday September 10 <sup>th</sup> (morning session)	
	<b>Session 5 – Anticancer PDT</b> Chairs: Dmitri V. Krysko, Nela Malatesti	
9.05	Luis G. Arnaut	
	Tumor Priming and Photodynamic Therapy: A renewed hope for oncology	
9.30	Claudia Ferroni	
	Bioresponsive catalase-like nanoplatforms for combined photo/sono and immuno-	
	therapies of hypoxic cancers	
9.50	Marzia Bruna Gariboldi	
	Polydopamine-Coated Liposomes for Methylene Blue Delivery in 2D and 3D Anticancer	
	Photodynamic Therapy	

10.10	Francesca Bianco
	Molecular mechanism of Br-SQ-C4 phototoxicity: the role of Ca <sup>2+</sup> and ROS interplay
10.30	Dmitri V. Krysko
	Immunogenic Cell Death in Glioma Immunotherapy: Efficacy of Photodynamic Therapy
	and Dendritic Cell Vaccines
11.00	COFFEE BREAK
Session 6 – Anticancer PDT	
Chairs: Marzia Gariboldi, Luis. G. Arnaut	
11.30	Angeles Juarranz
	Role of squamous cell carcinoma microenvironment in the response to Photodynamic
	therapy
12.00	Michela Nigro
	Molecular engineering of a spheroid-penetrating phage nanovector for targeted
	photosonodynamic treatment of EGFR-expressing cancer cells
12.20	Carlotta Pontremoli
	Hafnium based metal-organic framework entrapping squaraines for efficient NIR-
	responsive photodynamic therapy against pancreatic cells
12.40	Matteo Di Giosia
	Bioconjugation and supramolecular interaction of proteins with photoactive agents for
	theranostic applications
13.00	Flash presentations
	Burduja; Malacarne; Monforte; Naessens; Catanzaro and Clepoint
13.30	LUNCH

Tuesday September 10 <sup>th</sup> (afternoon session)			
	Session 7 – Photosensitizers' design & functionalization Chairs: Enrico Caruso, Angela Scala		
14.30	Engin U. Akkaya		
	Targeted Endoperoxides for Precise Delivery of Singlet Oxygen		
15.00	Francesco Fagnani		
	Novel highly luminescent N^C^N-Pt(II) derivatives for bio-imaging and photodynamic		
	therapy		
15.20	Vicente Marchán		
	Novel photosensitizers based on Ru-coumarin complexes for combating hypoxic tumors		
15.40	Ester D'Agostino		
	Design and synthesis of a glyco-porphyrin for the conjugation of bioactive peptides		
16.00	Mathias O. Senge		
	Molecular and Formulation Strategies for Photosensitizer Design		
16.25	COFFEE BREAK		

	Session 8 – Young investigators award ceremony Chair: Valentina Rapozzi
17.00	Edoardo Jun Mattioli
	Carrying Temoporfin with Human Serum Albumin: A New Perspective for Photodynamic
	Application in Head and Neck Cancer
17.25	Paolo Emidio Costantini
	A modular phage vector platform for targeted photodynamic therapy of Gram-negative
	bacterial pathogens
18.30	SOCIAL EVENT
21.00	SOCIAL DINNER
Wednesday September 11 <sup>th</sup> (closing session)	
	Session 9 – Miscellaneous
-	Chair: Matteo Calvaresi, Mathias O. Senge
9.15	José Ruiz
	Achieving red-light anticancer photodynamic therapy under hypoxic conditions using
0.40	Ir(III)-COUPY conjugates
9.40	Matteo Calvaresi
10.00	Light-enhanced cytotoxicity of approved anticancer drugs Salvatore Mirabile
10.00	Light-up of 4-(1-piperazinyl)phenol derivatives targeting tyrosinase
10.20	Luigi Donato
10.20	From NGS to Optogenetic Innovations Towards Retinal Channelopathies
10.45	COFFEE BREAK
	Session 10 – Miscellaneous
	Chairs: Maria Teresa Rossi, José Ruiz
11.15	Nela Malatesti
	Balancing the lipophilicity of tri(pyridinium-3-yl)porphyrins for improved entry into
	melanoma cells and photodynamic effect
11.40	Martina Mušković
	Synthesis, physicochemical properties and in vitro evaluation of amphiphilic
40.00	pyridiniumporphyrins with N-oxide moiety for use in photodynamic therapy (PDT)
12.00	Lucia Pappagallo
	Neurophage: molecular engineering of phage nanoparticles for non-invasive neuronal
12.20	photostimulation Giovanni Romano
12.20	
12.40	Multicolor endoscopic source for intragastric phototherapy against Helicobacter pylori Giulia Neri
12.40	Appraising the Efficiency of NIR-Responsive Hybrid Nanosystem based on Graphene,
	Poly(methacrylic acid) and Gold Bipyramids in Melanoma Cancer Cells
13.00	CLOSING REMARKS
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