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

	Monday September 9 <sup>th</sup> (morning session)
8.45	Registration
9.15	Congress Opening and Welcome Remarks

## Session 1 - Photosynthesis & photoresponsive materials

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
10.45	Coffee break

### Session 2 - Miscellaneous

11.15	Masaoki Kawasumi
	The effect of UV-induced mutations on the binding of ETS transcription factors to the Cdkn2a/p16
	promoter
11.40	Sara Mezzana
	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
13.00	LUNCH

### Monday September 9<sup>th</sup> (afternoon session)

### Session 3 – Photodynamic inactivation & antimicrobial PDT

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

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)

### **Session 5 – Anticancer PDT**

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

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
13.30	LUNCH & POSTER SESSION

### Tuesday September 10<sup>th</sup> (afternoon session)

### Session 7 – Photosensitizers' design & functionalization

14.30 Engin U. Akkaya
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	Targeted Endoperoxides for Precise Delivery of Singlet Oxygen
45.00	
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
17.00	Session 8 – Young investigators award ceremony  Edoardo Jun Mattioli
17.00	
17.00	Edoardo Jun Mattioli
17.00	Edoardo Jun Mattioli Carrying Temoporfin with Human Serum Albumin: A New Perspective for Photodynamic Application in
	Edoardo Jun Mattioli Carrying Temoporfin with Human Serum Albumin: A New Perspective for Photodynamic Application in Head and Neck Cancer
	Edoardo Jun Mattioli Carrying Temoporfin with Human Serum Albumin: A New Perspective for Photodynamic Application in Head and Neck Cancer  Paolo Emidio Costantini
	Edoardo Jun Mattioli Carrying Temoporfin with Human Serum Albumin: A New Perspective for Photodynamic Application in Head and Neck Cancer  Paolo Emidio Costantini A modular phage vector platform for targeted photodynamic therapy of Gram-negative bacterial

# Wednesday September 11<sup>th</sup> (closing session)

#### Session 9 – Miscellaneous

9.15	José Ruiz
	Achieving red-light anticancer photodynamic therapy under hypoxic conditions using Ir(III)-COUPY
	conjugates
9.40	Matteo Calvaresi
	Light-enhanced cytotoxicity of approved anticancer drugs
10.00	Salvatore Mirabile
	Light-up of 4-(1-piperazinyl)phenol derivatives targeting tyrosinase
10.20	Luigi Donato
	From NGS to Optogenetic Innovations Towards Retinal Channelopathies Therapies
10.45	Coffee break
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 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 photostimulation
12.20	Giovanni Romano
	Multicolor endoscopic source for intragastric phototherapy against Helicobacter pylori
12.40	Giulia Neri
	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