

POSTER SESSION PROGRAMME

ANTIMICROBIAL PDT

PA-001 PHOTODYNAMIC ANTIMICROBIAL THERAPY ON S. AUREUS AND E. COLI BY USING GIEMSA STAIN AS PHOTOSENSITIZER

Caires Cynthia (1), Leal Cássia (2), Ramos Carlos (2), Lima Alessandra (3), Caires Anderson (3), Arruda Eduardo (4), Oliveira Samuel (3), Nascimento Valter (1)
1 - Grupo de Espectroscopia e Bioinformática Aplicados a Biodiversidade e a Saúde, Faculdade de Medicina, UFMS, Campo Grande, MS (Brazil), 2 - Grupo de Medicina Veterinária Preventiva, Faculdade de Medicina Veterinária e Zootecnia, 3 - Grupo de Óptica e Fotônica, Instituto de Física, UFMS, Campo Grande, MS (Brazil), 4 - Faculdade de Ciências Exatas e Tecnologia, UFGD, Dourados, MS (Brazil)

PA-002 EFFECT OF APDT ON HUMAN DENTAL BIOFILM ISOLATED STREPTOCOCCI SPECIES WITH 2 PHOTOSENSITIZERS - IN VITRO STUDY

Doychinova Maya, Tonchev Tsvetan
Medical University, Faculty of Dental Medicine-Varna (Bulgaria)

PA-003 ENDODONTIC RE-TREATMENT ASSISTED WITH APDT- A CLINICAL CASE

Doychinova Maya, Tonchev Tsvetan
Medical University, Faculty of Dental Medicine-Varna (Bulgaria)

PA-004 PHOTODYNAMIC THERAPY OF ORAL CANDIDA INFECTION IN A MOUSE MODEL.

Freire Fernanda (1,2), Ferraresi Cleber (1), Jorge Antonio (2), Hamblin Michael (1,3,4)
1 - Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, Massachusetts, (USA) 2 - Department of Biosciences and Oral Diagnosis, Institute of Science and Technology, Universidade Estadual Paulista (UNESP), São José dos Campos, São Paulo (Brazil), 3 - Department of Dermatology, Harvard Medical School, Boston, Massachusetts (USA), 4 - Harvard-MIT Division of Health Sciences and Technology, Cambridge, Massachusetts (USA)

PA-005 A GENETICS-BASED APPROACH TO STUDYING PHOTODYNAMIC INACTIVATION IN ESCHERICHIA COLI K12

Lutter Ireen, Walther Meik, Fischer Sarah, Cullum John
Technical University of Kaiserslautern (Germany)

PA-006 NEW MOLECULAR SYSTEMS FOR APDT IN AGRONOMY

Leroy-Lhez Stéphanie, Marchand Guillaume, Calliste Claude, Villandier Nicolas, Riou Catherine
Laboratoire de Chimie des Substances Naturelles, EA 1069, Université de Limoges (France)

PA-007 AN OVERVIEW ON THE IMPACT OF CATIONIC PHTHALOCYANINE COMPLEXES FOR INACTIVATION OF DRUG-RESISTANT MICROORGANISMS

Mantareva Vanya, Angelov I., Aliosman M., Stoineva I., Kussovski V.
Institute of Organic Chemistry with Centre of Phytochemistry, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia (Bulgaria)

PA-008 PORPHYCENES AS PHOTOSENSITIZERS: PHOTODESTRUCTION OF BACTERIA

Masiera Natalia (1), Gawryszewska Iwona (2), Bojarska Agnieszka (2), Waluk Jacek (1)
1 - Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland (Poland), 2 - National Medicines Institute, Warsaw, Poland (Poland)

PA-009 PRODUCTION AND CHARACTERISATION OF ACRYLATE-BASED MICROPARTICLES FOR PHOTOSENSITISER INCORPORATION TO THEIR SURFACES.

Moore Jessica, Mccoy Colin, Carson Louise, Irwin Nicola, Andrews Gavin
Queen's University Belfast, Belfast (United Kingdom)

PA-010 MONOSPECIES AND MULTISPECIES BIOFILMS OF Candida albicans, Staphylococcus aureus, Staphylococcus epidermidis and Pseudomonas aeruginosa ARE AFFECTED BY ANTIMICROBIAL PHOTODYNAMIC THERAPY.

Pereira-Correia Cristiane (1), Jorge Antonio Olavo (2)
1 - UNESP – Univ Estadual Paulista, Institute of Science and Technology, São José dos Campos/SP (Brazil), 2 - UNESP – Univ Estadual Paulista, Institute of Science and Technology, São José dos Campos/SP (Brazil)

PA-011 ANTIMICROBIAL PHOTODYNAMIC THERAPY WITH HALOGENATED TETRAPYRROLIC PHOTOSENSITIZERS: FROM MOLECULES TO HIGHLY EFFICIENT PHOTOINACTIVATION OF DRUG-RESISTANT PATHOGENS.

Pucelik Barbara (1), Paczynski Robert (2), Goncalves Nuno (3), Arnaut Luis (4), Dabrowski Janusz (5), Pereira Mariette (4)
1 - Faculty of Chemistry, Jagiellonian University (Poland), 2 - Malopolska Centre of Biotechnology, Jagiellonian University (Poland), 3 - Luzitin SA Ed. Bluepharma (Portugal), 4 - QCC Chemistry Department, University of Coimbra (Portugal), 5 - Faculty of Chemistry, Jagiellonian University (Portugal)

OTHERS ASPECTS OF PDT

PO-012 DOXORUBICIN OR METHOTREXATE EXPOSURE FOLLOWED BY ALUMINUM PHTHALOCYANINE MEDIATED PHOTODYNAMIC THERAPY PROVIDES FOR EFFECTIVE CO-THERAPY

Ali Safdar (1,2,3), Saleh Muhammad (1), Khurshid Ahmat (2), Ikram Masroor (2), Judy Cathcart (5), Fisher Carl (4), **Lige Lothar** (1)
1 - Department of Physics, Hazara University (Pakistan), 2 - Department of Physics and Applied Mathematics, Pakistan Institute of Engineering and Applied Sciences, Islamabad (Pakistan), 3 - Princess Margaret Cancer Centre, University Health Network, Toronto (Canada), 4 - Department of Medical Biophysics, University of Toronto (Canada), 5 - Advanced Optical Microscopy Facility at University Health Network, Toronto (Canada)

PO-014 EFFICACY OF PHOTODYNAMIC THERAPY AND NIMOTUZUMAB COMBINATION THERAPY IN THE TREATMENT OF TUMORS WITH EGFR, KRAS AND BRAF MUTATIONS

Bhuvanewari R.(1), Feng N. Q. (1), Thong P. SP (1), Chye T. N. (1,2), Chee S. K. (1,2)
1 - National Cancer Centre Singapore, Division of Medical Sciences (Singapore), 2 - Duke-NUS Graduate Medical School (Singapore)

PO-015 MEK INHIBITION INCREASES CANCER CELL SENSITIVITY TO PHOTODYNAMIC THERAPY

Chelakkot Vipin Shankar, Yoshioka Ema, Hirasawa Kensuke
Division of BioMedical Science, Memorial University of Newfoundland - MUN (CANADA) (Canada)

PO-016 DETECTION OF SINGLET OXYGEN USING PHOTOMULTIPLIER-TUBE-BASED SINGLET OXYGEN DETECTION SYSTEM TO EVALUATE PHOTODYNAMIC THERAPY IN MOUSE TUMOR MODEL

Choi Myung-Gyu (1), Kim In-Wook (2), Kim Ju Hee (2), Park Jae Myung (1), Hasan Tayyaba (3)
1 - Division of Gastroenterology, Dept. of internal Medicine, Seoul St. Mary's Hospital, The Catholic University of Korea (South Korea), 2 - Catholic-Harvard Wellman Photomedicine Center, Division of Gastroenterology, Medical School, The Catholic University of Korea (South Korea), 3 - Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Health Sciences and Technology, Harvard University and Massachusetts Institute of Technology (United States)

PO-017 GLIOBLASTOMA CELL SUBSETS RESISTANT TO TEMOZOLOMIDE TREATED WITH PHOTODYNAMIC EFFECT

Gawlik Grzegorz, **Kowolik Ewa**, Szafraniec Milena, Ryszawy Damian, Fiedor Leszek, Elas Martyna, Plonka Przemyslaw
Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University (Poland)

PO-018 YEAST AS A MODEL ORGANISM FOR ENDOGENOUS PROTOPORPHYRIN IX PRODUCTION

Joniová J., Gerelli E., Wagnières G.
Laboratory of Organometallic and Medicinal Chemistry, Institute of Chemical Sciences and Engineering, Swiss Federal Institute of Technology in Lausanne (EPFL), Lausanne (Switzerland)

PO-019 THE INFLUENCE OF ALA-MEDIATED PHOTODYNAMIC THERAPY ON SECRETION OF SELECTED GROWTH FACTORS AND S100 PROTEIN (S100) BY COLON CANCER CELLS IN VITRO

Kawczyk-Krupka Aleksandra (1), Latos Wojciech (2), Czuba Zenon (3), Mertas Anna (3), Kwiatek Sebastian (2), Kwiatek Beata (2), Król Wojciech (3), Sieron Aleksander (1)
1 - School of Medicine and Dentistry in Zabrze, Medical University of Silesia in Katowice, Department of Internal Diseases, Angiology and Physical Medicine, Center for Laser Diagnostics and Therapy (Poland), 2 - Department of Internal Diseases, Angiology and Physical Medicine, Center for Laser Diagnostics and Therapy, Specialist Hospital No 2 (Poland), 3 - School of Medicine and Dentistry in Zabrze, Medical University of Silesia in Katowice, Department of Microbiology and Immunology (Poland)

PO-020 TUMOR VASCULATURE AND OXYGENATION CHANGES IN VIVO AFTER PHOTODYNAMIC THERAPY

Krzykawska-Serda M.(1), Karwicka M. (1), Gonet M. (1), Drzal A. (1), Dabrowski J.m (2), Arnaut Luis (3) (4), Stochel G. (2), Urbanska K. (1), Elas M. (1),
1 - Department of Biophysics, Faculty of Biochemistry, Biophysics and Biotechnology (Poland), 2 - Faculty of Chemistry (Poland), 3 - QCC Chemistry Department, University of Coimbra (Portugal), 4 - Luzitin SA (Portugal)

PO-021 CLINICAL STUDY OF PERIODONTAL TISSUES REGENERATION: COMPLEMENTARITY OF ER-YAG LASER AND MILTHERAPY

Kurdyk Bernard
Dental Surgery Doctor, Descartes University former at Paris V University, Paris (France)

PO-022 PHOTODYNAMIC CONTROL OF Aedes Aegypti LARVAE (DIPTERA: CULICIDAE)

Lima A.R. (1), Silva C.M. (1), Caires C.S.A. (2), do Nascimento V.A. (2), Rocha L.R.P. (3), Cabrini I. (3), Arruda E.J. (3), Oliveira S.L. (1), Caires A.R.L. (1)
1 - Grupo de Óptica e Fotônica, Instituto de Física (Brazil) 2 - Grupo de Espectroscopia e Bioinformática Aplicados a Biodiversidade e a Saúde, Faculdade de Medicina, UFMS, Campo Grande, MS (Brazil), 3 - Faculdade de Ciências Exatas e Tecnologia, UFGD, Dourados, MS (Brazil)

PO-023 A COMPARATIVE STUDY ON THE ANTICANCER PHOTODYNAMIC EFFICIENCY OF CURCUMIN AND HYPERICIN

Ling Ma (1), Bernal Claudia (2), **Perussi Janice** (2,3)
1 - Programa de Pós-Graduação Interunidades Bioengenharia EESC/IQSC/FMRP - USP (Brazil), 2 - Instituto de Química de Sao Carlos - USP (Brazil), 3 - Programa de Pós-Graduação Interunidades em Bioengenharia EESC/FMRP/IQSC - USP (Brazil)

PO-024 PHOTOCHEMICAL INTERNALIZATION TO RELEASE MICROPARTICLES ENTRAPPED IN LYSOSOMES.

Mora-Espi Inmaculada, Soriano J., Barrios L., Ibáñez E., Nogués C.
Unitat de Biologia Cellular, Facultat de Biociències, Universitat Autònoma de Barcelona, Bellaterra (Spain)

PO-025 IMPACT OF PHOTOSENSITIZER PARAMETERS ON THE SELF-SHIELDING EFFECT IN PHOTODYNAMIC THERAPY ? A COMPARISON

Sroka Ronald (1, 2), Hermwille Maurice (1), Hemb Björn (1), Beyer Wolfgang (1), Stepp Herbert (1,2), Rühm Adrian (1,2)
1 - Laser-Forschungslabor, LIFE Center, Klinikum der Universität München (Germany), 2 - Department of Urology, Klinikum der Universität München (Germany)

PO-026 LATEST TECHNOLOGIES OF HOMOGENEOUS LIGHT DISTRIBUTION FOR PHOTODYNAMIC THERAPY OF NON-PLANAR ANATOMICAL SURFACES

Thecua Elise (1), Tylcz Jean-Baptiste (1), Betrouni Nacim(1), Mordon Serge (1)
1 - Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology (France)

PO-027 NEAR-INFRARED-ACTIVATED PHOTODYNAMIC THERAPY USING TITANIUM DIOXIDE-COATED UPCONVERSION NANOPARTICLES FOR TREATMENT OF ORAL CANCER TUMORS IN AN IN VIVO MODEL

Thong Patricia (1), **Bhuvanewari Ramaswamy** (1), Chang Pui-Haan (1), Low Kar-Perng (1), Idris Niagara (2), Bunte Ralph (3), Zhang Yong (2), Soo Khee-Chee (1)
1 - National Cancer Centre Singapore (Singapore), 2 - National University of Singapore (Singapore), 3 - Duke-NUS Medical School (Singapore)

PDT AND CHEMISTRY

PC-028 PDTEAM'S PROJECT: TARGETING TO IMPROVE PDT SELECTIVITY

Achard M. (1), Acherar S. (1), Althuser P. (2), André J.C. (2), **Arnoux P.** (2), Barberi-Heyob M. (3), Baros F. (2), Bastogne T. (3), Bonisegna C. (4), Boura C. (1), Colombeau L. (2), Frochet C. (2), Jouan-Hureau V. (3), Goria S. (4), Landon J. (4), Mohd Gazzali A. (1), Pinel S. (3), Roques-Carmes T. (2), Thomas N. (3), Toussaint M. (3), Vanderesse R. (1), Yousef Z. (2)
1 - LCPM, UMR 7375, CNRS-Université de Lorraine, Nancy (France), 2 - LRGP-UMR 7274, CNRS-Université de Lorraine, Nancy (France), 3 - CRAN, UMR 7039, CNRS-Université de Lorraine, Vandoeuvre-lès-Nancy (France), 4 - CREM, EA 3476, Metz (France)

PC-029 THE CONTRIBUTION OF COMPUTATIONAL STUDIES TO PHOTODYNAMIC THERAPY: CHALLENGES AND OPPORTUNITIES FOR THE FUTURE OF COMPUTATIONAL PREDICTION

Alberto Marta Erminia (1), Russo N. (2), Adamo C. (1,3)
1 - Institut de Recherche de Chimie Paris (IRCP), ENSCP-Chimie ParisTech, Paris (France), 2 - Dipartimento di Chimica e Tecnologie Chimiche, Università della Calabria (Italy), 3 - Institut Universitaire de France, Paris (France)

PC-030 ZINC METALLOPORPHYRIN- FUNCTIONALISED NANO AND MICROPARTICLES AS POTENTIAL AGENTS FOR PHOTODYNAMIC THERAPY.

Alea María Elisa (1,2), Duran S. (3), Gonzalez A. (1), Plaza J. A. (3), Pérez-García L. (1,2)
1 - Departament de Farmacologia i Química Terapèutica, Universitat de Barcelona, Barcelona (Spain), 2 - Institut de Nanociència i Nanotecnologia UB (IN2UB), Universitat de Barcelona, Barcelona (Spain), 3 - Instituto de Microelectrónica de Barcelona (IMB-CNM - CSIC), Campus Universitari de Bellaterra (Spain)

PC-031 DISULFIDE BRIDGED TETRAPYRROLES: THE SELF-QUENCHING STRATEGY FOR GLUTATHIONE-INDUCED TUMOUR-SITE ACTIVATION

Alpugan Serkan, Dumoulin Fabienne
Gebze Technical University (Turkey)

PC-032 USING APTAMERS AS TARGETING MOIETIES CONJUGATED TO PHOTOSENSITISING PHTHALOCYANINES

Alpugan Serkan (1), Topkaya Derya (2), Atilla Devrim (1), Ahsen Vefa (1), Niazi Javed (2), Dumoulin Fabienne (1)
1 - Gebze Technical University (Turkey), 2 - Sabanci University (Turkey)

PC-033 PREPARATION AND CHARACTERIZATION OF XYLAN-COATED SiO2 NANOPARTICLES AND MULTIFUNCTIONAL GOLD NANOSTARS-COATED SiO2 NANOPARTICLES FOR TARGETED DELIVERY OF PORPHYRINS

Bouramtane Soukaina, Diebolt Olivier, Pinon Aline, Léger David, Liagre Bernard, Brégier Frédérique, Sol Vincent, Chaleix Vincent
Laboratoire de Chimie des Substances Naturelles, Limoges (France)

PC-034 SYNTHESIS, PHYSICO-CHEMICAL PROPERTIES, CELLULAR PENETRATION AND PHOTODYNAMIC ANTIPROLIFERATIVE ACTIVITY ON MCF7 BREAST CANCER CELL LINE OF NEW ROSE BENGAL-ESTRADIOL CONJUGATES.

Chemaly Jad, El-Akra Naram, Vicendo Patricia, **Souchard Jean Pierre**
Laboratoire des IMRCP, UMR 5623, Université de Toulouse (France)

PC-035 CHLORIN-P6/PEI OR PPIX-CYCLODEXTRIN - CELLULOSE NANOCRYSTAL HYBRIDS: IN VITRO AND IN VIVO EVALUATION AS NEW POTENTIAL ANTICANCER AGENTS FOR APPLICATION IN PHOTODYNAMIC THERAPY.

Drogat Nicolas, Ndong Ntoutoume Gautier, Granet Robert, Mbakidi Jean-Pierre, Lemorvan Caroline, Begaud Gaele, Fidanzi-Dugas Chloe, Liagre Bertrand, Bregier Frédérique, Léger David, Chaleix Vincent, **Sol Vincent**
Laboratoire de Chimie des Substances Naturelles, Limoges (France)

PC-036 CONJUGATED PHTHALOCYANINES AS LIGHT DRIVEN ANTIBIOTICS

Galstyan Anzhela (1,2), Block Desiree (3), Niemann Silke (3), Riehemann Kristina (1), Strassert Cristian (1), Faust Andreas (2), Schäfers Michael (2), Dobrindt Ulrich (4)
1 - Center for Nanotechnology (CeNTech) - Institute of Physics, Münster (Germany), 2 - European Institute for Molecular Imaging, Münster (Germany), 3 - Institute for Medicinal Microbiology, University Hospital Münster, Münster (Germany), 4 - Institute for Hygiene, University Hospital Münster, Münster (Germany)

PC-037 THE EFFECTS OF AXIALLY BODIPY SUBSTITUTION ON PHOTODYNAMIC THERAPY OF CANCER PROPERTIES OF SILICON(IV) PHTHALOCYANINE

Kaya Esra Nur, Kksoy Baybars, Yesilot Serkan, Durmus Mahmut
Gebze Technical University, Department of Chemistry, Kocaeli (Turkey)

PC-038 COMBINATIONAL ANTI-TUMOR EFFECTS OF PHOTODYNAMIC THERAPY AND SONODYNAMIC THERAPY IN BREAST CANCER CELLS USING IN VIVO STUDIES

Kim Yong-Wan, Lee Hwan Suk, Son Kwang Hee, Lee Jeong Whan, Lee Yang Gu
Dong Sung Biopharm Co (South Korea)

PC-039 THE ROLE OF BLOCK-COPOLYMER NATURE IN THE EFFECTIVENESS OF RELEASE OF PHEOPHORBIDE A ON A SIMPLE MEMBRANE MODEL

Lonetti Barbara (1), Montis C. (2), Till U. (1), Roux C. (1), Berti D. (2), Joseph P. (3), Vicendo Patricia (1), Mingotaud Anne-Franoise (1)
1 - Interactions molculaires et ractivit chimique et photochimique (France), 2 - Department of Chemistry, University of Florence and CSGI (Italy), 3 - Laboratoire d'analyse et d'architecture des systems, Toulouse (France),

PC-040 COMPLEMENTARY ACTIONS EXERTED BY PDT AND ABRAXANE TO ENHANCE TREATMENT EFFICACIES FOR PANCREATIC CANCER

Mai Zhiming (1), Choi Myung-Gyn (2), Hasan Tayyaba (1)
1 - Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School (United States), 2 - Catholic Research Institute of Medical Science, The Catholic University of Korea, Seoul (South Korea)

PC-041 PORPHYCENES AS PHOTOSENSITIZERS: PHOTODYNAMIC THERAPY OF HeLa CELLS

Masiera Natalia (1), Mely Yves (2), Richert Ludovic (2), Waluk Jacek (1)
1 - Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland (Poland), 2 - Laboratory of Biophotonics and Pharmacology, University of Strasbourg (France)

PC-042 SYNTHESIS AND CHARACTERIZATIONS OF MAGNETIC DEXTRAN NANOPARTICLES BEARING HYDROPHILIC PORPHYRIN DERIVATIVES: BIMODAL AGENTS FOR POTENTIAL APPLICATION IN PHOTODYNAMIC THERAPY.

Mbakidi Jean-Pierre (1), **Sol Vincent** (1), Brgier Frdrique (1), Ouk Tan-Sothea (1), Granet Robert (1), Riviere Eric (2), Chevreux Sylviane (3), Lemerrier Gilles (3)
1 - Laboratoire de Chimie des Substances Naturelles (France), 2 - Institut de Chimie Molculaire des Matriaux Organiques (France), 3 - Institut de Chimie Molculaire de Reims (France)

PC-043 EFFECT OF TONS 501 SODIUM-MEDIATED PHOTODYNAMIC THERAPY ON EMT6 CELLS

Osaki Tomohiro (1), Sakata Isao (2), Uto Yoshihiro (3), Azuma Kazuo (1), Murahata Yusuke (1), Tsuka Takeshi (1), Ito Norihiko (1), Imagawa Tomohiro (1), Okamoto Yoshiharu (1)
1 - Tottori University (Japan), 2 - Porphyrin Laboratory (Japan), 3 - Tokushima University (Japan)

PC-044 THIOXANTHENE DYES AS TRIPLET SENSITIZERS FOR PHOTODYNAMIC THERAPY.

Ponyaev Alexander (1), Glukhova Yana (2)
1 - Saint Petersburg State Institute of Technology (Technical University), Department Theory of Material science (Russia), 2 - Saint Petersburg State Institute of Technology (Technical University) (Russia)

PC-045 THE EFFICIENCY OF FULLERENS AND TITANIUM DIOXIDES NANOPARTICLES TO MEDIATE TYPE I AND TYPE II PHOTOSENSITIZED OXIDATION PROCESS.

Sarna Tadeusz (1), Kozinska Anna (1), Labuz Przemyslaw (1), Zadlo Andrzej (1), Hamblin Michael (2)
1 - Jagiellonian University (Poland), 2 - Harvard -MIT Division of Health Sciences and Technology (United States)

PC-046 SYNTHESIS AND PHOTOPHYSICAL PROPERTIES OF PHOTOACTIVABLE CATIONIC PORPHYRIN 5-(4-N-DODECYLPYRIDYL)-10,15,20-TRI(4-N-METHYLPYRIDYL)-21H, 23H-PORPHYRIN TETRAIODIDE FOR ANTI PDT

Stallivieri Aurlie (1), Frochot Cline (1), Vanderesse Rgis (2), Le Guern Florent (1), Meledge Esme (2) (1), Jori Giulio (3), Arnoux Philippe (1), Acherar Samir (2)
1 - Laboratoire Ractions et Gnie des Procds (France), 2 - Laboratoire de Chimie Physique Macromolculaire (CNRS UMR 7375) (France), 3 - Department of Biology - University of Padova (Italy)

PC-047 PEPTIDE-TARGETED PRODRUGS FOR AMINOLAEVULINIC ACID PHOTODYNAMIC THERAPY

Tewari Kunal (1), **Eggleston Ian** (1), Yaghini Elnaz (2), Reelfs Olivier (2), Dondi Ruggero (1), Pourzand Charareh (1), Macrobert Alexander (2)
1 - Department of Pharmacy & Pharmacology, University of Bath (UK), 2 - UCL Division of Surgery and Interventional Science, University College London, London (UK)

PC-048 ULTRASMAALL GADOLINIUM-BASED NANOPARTICLES DESIGNED FOR PHOTODYNAMIC THERAPY (PDT) GUIDED BY MRI.

Thomas Elose (1), Toussaint Magali (2), Colombeau Ludovic (3), Thomas-Jasniewski Nomie (2), Vanderesse Rgis (4), Mohd Gazzali Amirah (4), Frochot Cline (3), Barberi-Heyob Muriel (2), Lux Franois (1), Tillement Olivier (1)
1 - Institut Lumre Matire (France), 2 - CRAN UMR 7039 (France), 3 - Laboratoire Ractions et Gnie des Procds (France), 4 - Laboratoire de Chimie Physique Macromolculaire (CNRS UMR 7375) (France)

PC-049 DESIGN, SYNTHESIS AND PHOTOTOXICITY STUDIES OF NOVEL IODINATED AMPHIPHILIC PORPHYRINS

Topkaya Derya (1), Yin Ng Shie (2), Bretonniere Yann (3), Lafont Dominique (4), Chung Lip (2), Lee Hong (2), Dumoulin Fabienne (5)
1 - University of Dokuz Eyll, Department of Chemistry, Faculty of Science, Izmir (Turkey), 2 - Department of Pharmacy, Faculty of Medicine, University of Malaya (Malaysia), 3 - ENS Lyon, Universit de Lyon, Laboratoire de Chimie de l'ENS Lyon, Lyon (France), 4 - Institut de Chimie et Biochimie Molculaires et Supramolculaires, CO2-Glyco, UMR 5246, CNRS-Universit Claude Bernard Lyon 1, Villeurbanne (France), 5 - Gebze Technical University, Department of Chemistry, Kocaeli (Turkey)

PC-050 TWO APPROACHES FOR ELABORATING SENSITIZED TiO2 NANOPARTICLES OF POTENTIAL EFFECT IN PHOTODYNAMIC THERAPY

Youssef Zahraa (1, 2), Arnoux Philippe (1), Colombeau Ludovic (1), Moussaron Albert (3), Toufaily Joumana (2), Hamieh Tayssir (2), Frochot Celine (1), Roques-Carmes Thibault (1)
1 - Laboratoire Ractions et Gnie des Procds, UMR-CNRS 7274, Universit de Lorraine (France), 2 - Laboratoire de Matriaux, Catalyse, Environnement et Mthodes Analytiques, Universit Libanaise (Lebanon), 3 - Institut Lumre Matire, UMR CNRS 5306, Universit Claude Bernard - Lyon I (France)

PDT IN DERMATOLOGY

PD-051 PDT FOR BASAL CELL CARCINOMAS - THE INDISPENSABLE LASER

Allan Ernest (1), Allan D. (2), Sheridan L. (3)
1 - Department of Clinical Oncology - The Christie NHS Foundation Trust (United Kingdom), 2 - Salford Royal Medical Physics & Engineering, Manchester Academic Health Science Centre (United Kingdom), 3 - Department of Radiology - The Christie NHS Foundation Trust (United Kingdom)

PD-052 TOPICAL ALA-PDT AS AN ALTERNATIVE OPTION FOR TREATMENT OF RECALCITRANT DERMATOSIS - SINGLE HOSPITAL EXPERIENCE

Chen Xiaoying, Theresia Calvina, Zheng Jie
Rui Jin Hospital, School of Medicine, Shanghai Jiao Tong University (China)

PD-053 MICRONEEDLE-ASSISTED PHOTODYNAMIC THERAPY: DELIVERY OF A NIR PHOTOSENSITISER FOR THE TREATMENT OF SKIN CANCERS

Hamdan Imam, Donnelly R. F.
School of Pharmacy, Queen's University Belfast (United Kingdom)

PD-054 SUPERIORITY OF LIGHT SYNCHRONIZATION MODULATION FOR THE VASCULAR TARGETED PHOTODYNAMIC THERAPY

Hu Xiaoming (1), He Linhuan (1), Mo Yan (1), Zhao Yi (2), Zheng Ruihua (2)
1 - Beijing Institute of Technology (China), 2 - Tsinghua University (China)

PD-055 PPIX FLUORESCENCE IN INTREPIHELIAL NEOPLASIA (IN) OF THE GENITO-ANAL REGION

Mller Ute, Urban Peter, Poetke Margitta, Becker-Khnlein Julia, **Philipp Carsten** Zentrum Lasermedizin, Ev. Elisabeth Klinik Berlin (Germany)

PD-056 PHOS-ISTOS: A NEW FLEXIBLE AND HOMOGENEOUS DEVICE FOR PHOTODYNAMIC TREATMENT OF ACTINIC KERATOSIS, FIRST CLINICAL RESULTS

Thecuia Elise (1), Tylcz Jean-Baptiste (1), Vicentini Claire (2, 1), Mortier Laurent (1, 2), Szeimies Rolf Markus (3), Mordon Serge (1)
1 - Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology (France), 2 - Department of Dermatology, CHU Lille (France), 3 - Department of Dermatology & Allergology (Germany)

PD-057 TREATMENT OF A VULVAR PAGET DISEASE BY PHOTODYNAMIC THERAPY WITH A NEW LIGHT EMITTING FABRIC BASED DEVICE.

Vicentini Claire (1, 2), Carpentier Olivier (2), Tylcz Jean-Baptiste (1), Mortier Laurent (1, 2, 3) Betrouni Nacim (1), Mordon Serge (1, 3)
1 - ONCO-THAI (France), 2 - Clinic of Dermatology (France), 3 - Lille University (France)

PD-058 PHOTODYNAMIC THERAPY FOR ACTINIC KERATOSES: HOW EFFECTIVE ARE TWO WHITE LED LIGHT DOSES COMPARED WITH TWO STANDARD LIGHT DOSES?

Vignion Anne-Sophie (1), Betrouni Nacim (1), Thecuia Elise (1), Vicentini Claire (1, 2), Mordon Serge (1)
1 - Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology (France), 2 - Department of Dermatology, CHU Lille (France)

PD-059 PHOTODYNAMIC THERAPY OF ROSACEA

Yin Rui
Southwest Hospital, Third Military Medical University (China)

PDT IN GASTROENTEROLOGY

PGa-060 TAP73 DRIVES THE CELL DEATH RESPONSE TO PORPHYRINS AND PDT IN PANCREATIC CANCER CELLS

Acedo Pilar (1), Heuchel Rainer (2), Fernandes Aristi (3), **Zawacka-Pankau Joanna** (4)
1 - Karolinska Institutet, Department of Microbiology, Tumor and Cell biology (Sweden), 2 - Karolinska Institutet, Department of Clinical Science, Intervention and Technology (Sweden), 3 - Karolinska Institutet, Department of Medical Biochemistry and Biophysics (Sweden), 4 - Karolinska Institutet, Department of Clinical Science, Intervention and Technology (Sweden)

PGa-061 BIOMODULATION OF METABOLIC AND SIGNALING PATHWAYS TO ENHANCE PDT EFFICACY FOR PANCREATIC ADENOCARCINOMA

Anbil Sriram (1, 2, 3), Baglo Yan (3), Broekgaarden Mans (3), Rizvi Imran (3), Maytin Edward (4), Hasan Tayyaba (3)
1 - The University of Texas School of Medicine at San Antonio (United States), 2 - Howard Hughes Medical Institute [Chevy Chase] (United States), 3 - Harvard Medical School (United States), 4 - Cleveland Clinic (United States)

PGa-062 PHOTODYNAMIC THERAPY IN THE GASTROINTESTINAL TRACT

Barr Hugh
Biophotonics Research Unit Gloucester Royal Hospital (United Kingdom)

PGa-063 PHOTODYNAMIC DIAGNOSTIC AND THERAPY IN GASTROINTESTINAL DISEASES

Latos Wojciech (1), Kwiatek Sebastian (1), Kawczyk-Krupka Aleksandra (2), Kwiatek Beata (1), Sieron Aleksander (2)
1 - Department of Internal Diseases, Angiology and Physical Medicine, Center for Laser Diagnostics and Therapy, Specialist Hospital No 2 (Poland), 2 - School of Medicine and Dentistry in Zabrze, Medical University of Silesia in Katowice, Department of Internal Diseases, Angiology and Physical Medicine, Center for Laser Diagnostics and Therapy (Poland)

PDT IN GYNAECOLOGY

PGy-064 MONITORING HETEROCELLULAR TUMOR NODULE GROWTH AND ARCHITECTURE USING TWO-PHOTON IMAGING WITH QUANTUM DOTS

Bulin Anne-Laure (1, 2), Kucinska M. (1,2), Broekgaarden M. (1), Briars E. (1), Rizvi I. (1) and Hasan T. (1)
1 - Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA (USA), 2 - Department of Toxicology, University of Medical Sciences, Poznan (Poland)

PGy-065 THE INFLUENCE OF PHOTODYNAMIC REACTION ON THE HUMAN OVARIAN AND BREAST CANCER CELLS IN VITRO

Choromanska Anna (1), Golba Marta (2), Zalewski Jerzy (3), Kulbacka Julita (4), Saczko Jolanta (4)
1 - Wroclaw Medical University, Department of Medical Biochemistry (Poland), 2 - Dresden University of Technology, The Biotechnology Center (Germany), 3 - Wroclaw Medical University, Department of Gynecology and Obstetrics (Poland), 4 - Wroclaw Medical University, Department of Medical Biochemistry (Poland)

PGy-066 COMBINATION OF PHOTODYNAMIC THERAPY WITH CHEMOTHERAPY AND ELECTROCHEMOTHERAPY IN CANCER CELLS

Saczko Jolanta (1), Wezgowiec Joanna (2), Choromanska Anna (1), Rembalkowska Nina (1,3), Dubinska-Magiera Magda (4), Kotulska Malgorzata (5), Biezunska-Kusiak Katarzyna (1), Kulbacka Julita (1)
1 - Department of Medical Biochemistry, Medical University, Wroclaw, 2 - Department of Dental Prosthetics, Division of Dental Materials, Medical University, Wroclaw (Poland), 3 - Department of Toxicology, Faculty of Pharmacy, Medical University, Wroclaw (Poland), 4 - Department of Animal Developmental Biology, Institute of Experimental Biology, Wroclaw, 5 - Institute of Biomedical Engineering and Instrumentation, Faculty of Fundamental Problems of Technology, Wroclaw University of Science and Technology, Wroclaw (Poland)

PGy-067 AMINOLEVULINIC ACID PHOTODYNAMIC THERAPY FOR BOWENOID PAPULOSIS

Wu Yinhua, **Fang Hong**, Qiao Jianjun, Bai Juan
The First Affiliated Hospital, College of Medicine, Zhejiang University (China)

PDT IN HEAD AND NECK CANCER

PH-068 COMBINATION OF PHOTODYNAMIC THERAPY AND NIMOTUZUMAB INHIBIT TUMOR ANGIOGENESIS IN AN ORAL CANCER XENOGRAFT MODEL

Ng Qin Feng, **Ramaswamy Bhuvaneshwari**, Thong Soo Ping Patricia, Soo Khee-Chee
National Cancer Centre Singapore (Singapore)

PH-069 SYSTEMIC PHOTODYNAMIC THERAPY WITH FOTOLON® ? A PROMISING APPROACH FOR TUMOR TREATMENT ? NOT ONLY FOR SUPERFICIAL LESIONS

Hüttenberger Dirk (1), Sudhoff Holger (2), Freitag Lutz (3), Haupt Manfred (1)
1 - Apocare Pharma GmbH, Bielefeld (Germany), 2 - Klinikum Bielefeld, Bielefeld, (Germany) 3 - Universitäts-spital Zürich, Zürich (Switzerland)

PH-070 TARGETED THERAPY AGAINST VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR (VEGFR) AND EPIDERMAL GROWTH FACTOR RECEPTOR (EGFR) USING VANDETANIB ENHANCES THE PHOTODYNAMIC THERAPY POTENTIAL IN ORAL SQUAMOUS CARCINOMA CANCER

Chu Pek Lim (1), **Bhuvaneshwari Ramaswamy** (1), Ng Qin Feng (1), Thong Patricia Sp (1), Tan Ngian Chye (1,2), Soo Khee Chee (1, 2)
1 - National Cancer Centre Singapore, Division of Medical Sciences, 11 Hospital Drive, Singapore 169610 (Singapore), 2 - Duke NUS Graduate Medical School (Singapore)

PH-071 RESISTANCE OF ORAL SQUAMOUS CELL CARCINOMA CELLS TO 5-AMINOLEVULINIC ACID-MEDIATED PHOTODYNAMIC THERAPY

Rosin Flavia Cristina, **Corrêa Luciana**
School of Dentistry, University of São Paulo (Brazil)

PH-072 NEW PHOTODYNAMIC MOLECULAR BEACONS AS CANCER-TARGETED AGENTS IN PDT

Stallivieri A. (1), **Devy J.** (2), Colombeau L. (1), Etique N. (2), Myrzakmetov B. (1), Achard M. (3), Baros F. (1), Arnoux P. (1), Vanderesse R. (3), Frochot C. (1)
1 - LRGP-UMR 7274, CNRS-Université de Lorraine, Nancy (France), 2 - MEDyC, Laboratoire SIRMa, UMR 7369 CNRS-Université de Reims Champagne Ardenne, Reims (France), 3 - LCPM-UMR 7375, CNRS-Université de Lorraine, Nancy (France)

PDT IN NEUROLOGY

PN-073 AGUIX® THERANOSTIC NANOPARTICLES FOR VASCULAR-TARGETED INTERSTITIAL PHOTODYNAMIC THERAPY OF BRAIN TUMORS

Colombeau Ludovic (1,2), Thomas Eloïse (3), Peterlini Thibaut (5), Gries Mickael (5), Thomas Noémie (5), Boura Cedric (5), Lux François (3), Louis Cédric (4), Tillement Olivier (3), Barberi-Heyob Muriel (5), Vanderesse Régis (2), Frochot Celine (1)
1 - LRGP-UMR 7274, CNRS-Université de Lorraine, Nancy, France 2 - LCPM, UMR 7375, CNRS-Université de Lorraine, Nancy, France 3 - ILM, UMR 5306, CNRS-Université Claude Bernard Lyon1, Villeurbanne, France 4 - Nano-H SAS, Saint Quentin Fallavier, France, 5 - CRAN, UMR 7039, CNRS-Université de Lorraine, Vandoeuvre-lès-Nancy Cedex, France

PN-074 PHOTODYNAMIC THERAPY IN NEUROSURGERY: A PROOF OF CONCEPT OF TREATMENT PLANNING SYSTEM

Dupont Clément, Betrouni Nacim, Mordon Serge, Reyns Nicolas, Vermandel Maximilien
Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology, F-59000 Lille, France (France)

PN-075 INTRAOPERATIVE PHOTODYNAMIC THERAPY FOR HIGH-GRADE GLIOMAS TREATMENT: LIGHT DOSIMETRY CONSIDERATIONS

Dupont Clément, Reyns Nicolas, Mordon Serge, Betrouni Nacim, Vermandel Maximilien
Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology, F-59000 Lille, France (France)

PN-076 5-ALA INDUCED FLUORESCENCE FOR INTRAOPERATIVE VISUALIZATION OF SPECIFIC INTRATUMORAL HISTOPATHOLOGICAL COMPARTMENTS IN NEWLY DIAGNOSED GLIOBLASTOMA

Kiesel Barbara (1,2,4), Mischkulnig Mario (1), Wöhrer Adelheid (2,4), Millesi Matthias (1,4), Preusser Matthias (3,4), Wolfsberger Stefan(1,4), Knosp Engelbert (1,4), Widhalm Georg (1,4)
1 - Department of Neurosurgery, 2 - Institute of Neurology, 3 - Department of Medicine I, 4 - Comprehensive Cancer Center – Central Nervous System Tumours Unit (CCC-CNS), Medical University Vienna (MUW), Vienna (Austria)

PN-077 OPTICAL SPECTROSCOPY FOR STEREOTACTIC BIOPSY OF BRAIN TUMORS

Markwardt Niklas (1,5), Von Berg Anna (1), Dominik Nikolas (1), Götz Marcus (2), Haj-Hosseini Neda (3), Polzer Christoph (1), Sroka Ronald (1,5), Stepp Herbert (1,5), Zelenkov Petr (4), Rühm Adrian (1,5)
1 - Laser-Forschungslabor, LIFE Center, Klinikum der Universität München, Munich (Germany), 2 - MRC Systems GmbH, Heidelberg (Germany), 3 - Department of Biomedical Engineering, Linköping University, Linköping (Sweden), 4 - Burdenko Neurosurgical Institute, Moscow (Russia), 5 - Department of Urology, Klinikum der Universität München, Munich (Germany)

PN-078 CORRELATION OF QUANTITATIVE 5-ALA INDUCED FLUORESCENCE INTENSITY WITH HISTOPATHOLOGICAL PARAMETERS OF MALIGNANCY IN NEWLY DIAGNOSED GLIOMAS: AN EX-VIVO STUDY

Martinez-Moreno Mauricio (1), Kiesel Barbara (1), Mischkulnig Mario (1), Woehrer Adelheid (2), Timelthaler Gerald (3), Berger Walter (4), Hainfellner Johannes (5), Knosp Engelbert (1), Wolfsberger Stefan (6), Widhalm Georg (6)
1 - Department of Neurosurgery, Medical University of Vienna (Austria), 2 - Institute of Neurology, Medical University of Vienna (Austria), 3 - Institute of Cancer Research, Medical University of Vienna (Austria), 4 - Insitute of Cancer Research, Medical University of Vienna (Austria), 5 - Institute for Neurology, Medical University of Vienna (Austria), 6 - Department of Neurosurgery, Medical University of Vienna. (Austria)

PN-079 VALUE OF 5-ALA IN FRAMELESS STEREOTACTIC BRAIN BIOPSIES

Millesi Matthias (1), Kiesel Barbara (1), Mischkulnig Mario (1), Mercea Petra (1), Bissolo Marco (1), Wöhrer Adelheid (2), Wolfsberger Stefan (1), Knosp Engelbert (1), Widhalm Georg (1)
1 - Department of Neurosurgery, Medical University Vienna (Austria), 2 - Institute of Neurology, Medical University Vienna (Austria)

PN-080 5-ALA INDUCED FLUORESCENCE IN SPINAL EPENDYMOMAS: DATA FROM 21 PATIENTS

Mischkulnig Mario (1), Widhalm Georg (1,3), Kiesel Barbara (1,2,3), Wöhrer Adelheid (2,3), Mercea Petra (1), Wolfsberger Stefan (1,3), Knosp Engelbert (1,3), Millesi Matthias (1,3)
1 - Department of Neurosurgery, 2 - Institute of Neurology, 3 - Comprehensive Cancer Center – Central Nervous System Tumours Unit (CCC-CNS), Medical University Vienna (MUW), Vienna (Austria)

PN-081 PRELIMINARY RESULTS ON 5-ALA PDT FRACTIONATION ON A PRECLINICAL RODENT MODEL

Vermandel Maximilien, Leroy Henri-Arthur, Quidet Mathilde, Leroux Bertrand, Mordon Serge, Reyns Nicolas
Univ. Lille, Inserm, CHU Lille, U1189 - ONCO-THAI - Image Assisted Laser Therapy for Oncology, F-59000 Lille, France (France)

PDT IN PNEUMOLOGY

PP-082 ILLUMINATION PROFILE CHARACTERIZATION OF A LIGHT APPLICATOR

Munck Camille, Betrouni Nacim, Mordon Serge
INSERM U1189, Lille (France)

PP-083 AUTOFLUORESCENCE SPECTRO-ENDOMICROSCOPY OF ALVEOLI: COMPARATIVE SPECTRAL ANALYSIS OF HEALTHY SMOCKER VOLONTEERS AND AMIDARONE-INDUCED PNEUMONITIS PATIENTS

Vever-Bizet Christine (1), Bourg-Heckly Geneviève (1), Salaün M. (3), Thiberville Luc (3), Blondel Walter (2)
1 - Sorbonne Universités, UPMC Univ Paris 6, CNRS UMR 8237, Laboratoire Jean Perrin, Paris (France), 2 - Université de Lorraine, CRAN, CNRS UMR 7039, Vandoeuvre-lès-Nancy (France), 3 - Clinique Pneumologique, Rouen University Hospital, Rouen (France)

PDT IN UROLOGY

PU-084 IMAGE-TO-PLAN WORKFLOW FOR PDT TREATMENT PLANNING

Cassidy Jeffrey (1), Betz Vaughn (1), Lilge Lothar (2,3)
1 - University of Toronto Electrical & Computer Engineering (Canada), 2 - University of Toronto Medical Biophysics (Canada), 3- Princess Margaret Cancer Centre (Canada)

PU-085 ANALYSIS OF THE IN VITRO AND IN VIVO EFFECTS OF PHOTODYNAMIC THERAPY ON PROSTATE CANCER BY USING PROTOPORPHYRIN IX-POLYAMINE DERIVATIVES

Fidanz-Dugas Chloe (1), Liagre Bertrand (1), Chemin Guillaume (1), Perraud Aurélie (2), Carrion Claire (3), Granet Robert (1), Sol Vincent (1), Léger David Yannick (1)
1 - Université de Limoges, Laboratoire de Chimie des Substances Naturelles, EA 1069, Limoges (France), 2 - Université de Limoges, Homéostasie Cellulaire et Pathologie, EA 3842, Limoges (France), 3 - Université de Limoges, CIM, UMR CNRS 7276, Limoges (France)

PU-086 USAGE OF REPLICATION-DEFICIENT VIRAL PARTICLE FOR PHOTODYNAMIC THERAPY AGAINST PROSTATE CANCER ALLOWS HIGH CYTOTOXICITY THROUGH DIFFERENT PATHWAYS

Honda Norihiro (1), Inai Mizuho (2), Furuyama Tasuku (3), Hong Young Soon (3), Hazama Hisanao (3), Nakamura Hiroyuki (4), Yasuda Hidehiro (5), Nishikawa Tomoyuki (6), Kaneda Yasufumi (6), Awazu Kunio (2,3,7)
1 - Institute for Academic Initiatives, Osaka University, Osaka (Japan), 2 - Graduate School of Frontier Biosciences, Osaka University, Osaka (Japan), 3 - Graduate School of Engineering, Osaka University, Osaka (Japan), 4 - Institute of Innovative Research, Tokyo Institute of Technology, Kanagawa (Japan), 5 - Research Center for Ultra-High Voltage Electron Microscopy, Osaka University, Osaka (Japan), 6 - Graduate School of Medicine, Osaka University, Osaka (Japan), 7 - Global Center for Medical Engineering and Informatics, Osaka University, Osaka (Japan)

PU-087 PHOTODYNAMIC THERAPY FOR NON-MUSCLE INVASIVE BLADDER CANCER (NMIBC) MEDIATED BY INSTILLED PHOTOSENSITIZER TLD1433 AND GREEN LIGHT ACTIVATION

Lazic Savo (1), Kaspler Pavel (1), Mandel Arkady (1), Kulkarni Girish (2), Jewett Michael (2), **Lilge Lothar** (1, 2, 3)
1 - Theralase Inc., Toronto, Ontario (Canada), 2 - University Health Network, Princess Margaret Cancer Centre, 3 - Department of Medical Biophysics, University of Toronto, Ontario (Canada)