



	SUNDAY, 26/6	MONDAY, 27/6	
08:00		Opening ceremony Room Progress	08:00
08:15		Session Chair: Prof. Gerrit Kroesen; Prof. Matteo Gherardi, Prof. Eun-Ha Choi	08:15
08:30		Cristina Canal - Lessons learnt in plasma-treated liquid therapies for bone cancer: opportunities for plasma medicine P1	08:30
08:45		Room Progress	08:45
09:00			09:00
09:15		Refreshment break (30 min)	09:15
09:30			09:30
09:45		1st Cost Annual Meeting Room Mission 1	
		Room Mission 2	
09:45		Hiromasa Tanaka -Molecular mechanisms of cell death by plasma-activated solutions in glioblastoma cells I1 D1A1	09:45
10:00		Eline Biscop -Elucidating Non-Thermal Plasma-induced Cell Death Mechanisms for Direct and Indirect Treatment Conditions O1 D1B1	10:00
10:15		Ira Junker -Gaseous plasma treatment of vascular stents - a powerful tool for new generation vascular stents O2 D1B1	10:15
10:30		Sander Bekeschus -Medical gas plasma augments bladder cancer cell toxicity and immunogenicity in preclinical models and patient-derived tumor tissues O1 D1A1	10:30
10:45		Vandana Miller -Plasma immunomodulation: secondary and tertiary effects O3 D1B1	10:45
11:00		Francesco Tampieri -Biocompatible Composite Hydrogels for Storage and Delivery of Plasma-Generated Reactive Species O2 D1A1	11:00
11:15		Johanna Striesow -Formation of lipid peroxidation products by gas plasmas - translation from the liposome model to human platelets O4 D1B1	11:15
11:30		Lukes Petr -Chemistry and cytotoxic properties of amino acids modified by He/O2 plasma in saline solutions O3 D1A1	11:30
11:45		Tomoyuki MURAKAMI -Numerical modeling of the cell fate decision and the innate immunity influenced by cold atmospheric plasmas O5 D1B1	11:45
12:00		Andjelija Petrovic -Optimization of a DBD plasma jet in contact with liquids for application in biomedicine O4 D1A1	12:00
12:15		Masur -Plasma modulation of human progenitor cells O6 D1B1	12:15
12:30		Parisa Shali -Plasma directly generated in liquids as an innovative method to treat cancerO5 D1A1	12:30
12:45		Li Lin -The Physical Effects of Plasma Medicine on Cells: Radio Frequency Stimulated Intercellular and Intracellular Mechanical Waves O7 D1B1	12:45
13:00		Osvaldo Daniel Cortázar -Healing of torpid ulcers treated with atmospheric cold air plasma jet: preliminary results O8 D1B1	13:00
13:15		Valeria Veronico -The active role of the liquid in the formation of long-lived RONS in Plasma Treated Water SolutionsI2 D1A1	13:15
13:30		Augusto Stancampiano -In-vivo safety assessment for fractioned and continuous direct plasma treatments O9 D1B1	13:30
13:45			13:45
14:00		Lunch break (1h 30min)	14:00
14:15			14:15
14:30			14:30
14:45		Poster session	14:45
15:00			15:00
15:15			15:15
15:30			15:30
15:45			15:45
16:00		Refreshment break (30 min)	16:00
16:15		1st Cost Annual Meeting Room Mission 1	1st Cost Annual Meeting Room Mission 2
16:30			
16:45		Susana Sérgio -Interaction of a Cold Atmospheric Argon Plasma Jet Device with Human Skin Cells O1 D1B2	16:45
17:00		Stephan Reuter -Plasma Tailoring for Pathogen Inactivation I1 D1A2	Benjamin Harris -Tailoring reactive oxygen species production in pulsed He+H2O plasmas through Pulse Repetition Rate O2 D1B2
17:15		Zdenko Machala -Cold plasma/photocatalysis decontamination of FFP2 respirators and indoor air contaminants O1 D1A2	James Walsh -Influence of external factors on plasma jet dynamics I1 D1B2
17:30		Pasquale Isabella -Cold Plasma Systems to reduce airborne transmission of Hospital Acquired Infectious & COVID-19 O2 D1A2	
17:45		Gabriele Neretti -Sterilization of disposable devices performed by indirect plasma treatment O3 D1A2	František Krčma -Diagnostics of Dielectric Barrier Discharge Based Plasma Pen for Skin Treatment O3 D1B2
18:00		Ana Sainz-García -Atmospheric Pressure Cold Plasma for Mask Disinfection O4 D1A2	Katayoon Hadani Rastani -Electrical and optical investigation of the long term operation of an endoscopic plasma device O4 D1B2
18:15		Torsten Gering -Development of a mobile sensory device to trace treatment conditions for various medical plasma devices O5 D1A2	Shinya Kumagai -Analysis of cell irradiated with non-thermal atmospheric pressure plasma for effective gene transfer O5 D1B2
18:30			
18:45			
19:00			

Legend
Plenary
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Plasma-surface interactions/modifications for biomedical applications
Regulatory issues in plasma medicine

	TUESDAY, 28/6	
08:00		08:00
08:15		08:15
08:30	Peter Bruggeman -Plasma Regulated Biology: A Pathway Towards Defining a ‘Dose’ in Plasma-Medicine P2 Room Progress	08:30
08:45		08:45
09:00		09:00
09:15	Refreshment break (30 min)	09:15
09:30		09:30
09:45	1st Cost Annual Meeting Room Mission 1	Room Mission 2
	Utku Kürşat Ercan -Determination of Antimicrobial Strengths of Cold Atmospheric Plasma Activated Water by Colorimetric and Electrochemical Methods O1 D2A1	Konstantin Kostov -Development of Remote Atmospheric Plasma Jets for Biomedical Applications I1 D2B1
10:00	Romolo Laurita -On the use of cold atmospheric pressure plasmas and plasma activated water for food processing O2 D2A1	
10:15	Yury Gorbanev - Plasma-Liquid Interactions: The role of liquid I1 D2A1	Eun Ha Choi -Calculation of O3 and O density containing humidity generated from nonthermal atmospheric plasma O1 D2B1
10:30		Julien Bissonnette-Dulude -Coupling of microfluidic devices with reference cold plasma jet O2 D2B1
10:45	Ana Megia -Plasma Activated Water (PAW) Against Virus and Multidrug Resistant Bacteria: characterization and in vitro experiments O3 D2A1	Sebastian Burhenn -Impact of humidity on the OH distribution in the effluent of the COST-jet measured by laser induced fluorescence O3 D2B1
11:00	Olivera Jovanović -Plasma pin-jet for treatment of water: production of reactive species in distilled and tap water O4 D2A1	Andra-Cristina Bostanaru-Mycobactericidal Efficacy of Non-Thermal Plasma Activated Water O4 D2B1
11:15	Jean-Michel Pouvesle -The, so-called blob, slime mold Physarum polycephalum as a new model for biological applications of atmospheric pressure non-thermal plasmas O5 D2A1	PAUL MAGUIRE -Electron and hydroxyl radical interactions with liquids, biomolecules and cells O5 D2B1
11:30	Aleksandra Lavrikova -Bacteria inactivation pathways induced by cold atmospheric plasma O6 D2A1	Mário Janda -The role of HNO2 in the generation of plasma activated water by transient spark discharge I2 D2B1
11:45	Nishtha Gaur -Methods to enhance the anti-microbial effects of an argon plasma jet O7 D2A1	
12:00	Lunch break (1h 30 min)	ISPM Board of Director meeting Quest Room
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12:30		
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13:00		
13:15		
13:30	Poster session	
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14:30		WIPM, Women in Plasma Medicine Room Mission 1 Session Chair: Prof. Vandana Miller
14:45		
15:00		
15:15		
15:30	Refreshment break (30 min)	15:30
15:45		15:45
16:00	1st Cost Annual Meeting Room Mission 1	Room Mission 2
	Aysegül UYGUN OKSUZ - Anticancer Drug Release from Hyaluronic Acid based micromotors by Cold Atmospheric Pressure Plasma O1 D2A2	Joseph Lorent -Spatial distribution of cold atmospheric plasma reactive species displaying activity on bacterial cell membranes O1 D2B2
16:15	Allan Pavy -Remodeling of cholangiocarcinoma microenvironment by cold atmospheric plasma through in vitro approach O2 D2A2	Thomas Thompson -Comparison of the antimicrobial activity of three Cold Plasma jets against S. aureus O2 D2B2
16:30	Matteo Gherardi -Control strategies for atmospheric pressure PECVD O3 D2A2	Nagendra Kumar Kaushik -NONTHERMAL BIOCOMPATIBLE PLASMA FOR IMMUNO-MODULATION, SYNERGY WITH NANOMATERIALS, AND CORONA VIRUS INACTIVATION O3 D2B2
16:45	Beatrice Olayiwola -Deposition of Antibiotic Layers onto Implant Surfaces using Low Temperature Plasma O4 D2A2	Julia Sutter -Nonthermal Plasma as an Antiviral and Immunomodulatory Agent Effective Against HSV-1 Infection O4 D2B2
17:00	Metka Benčina -Plasma treated nanostructured TiO2 surface for vascular stents applications O5 D2A2	Ross Duncan -Cold plasma treatment of macrophages and biofilms affects their interaction with free antibiotics and liposomes O5 D2B2
17:15	Hamed Mahdikia -MENs Surface Modification for Drug Delivery Applications Using Low-Pressure Plasma O6 D2A2	Jordanne-Amee Maybin -Cold atmospheric pressure plasma as a method to improve efficacy of antibiotics against biofilm-forming Pseudomonas aeruginosa. O6 D2B2
17:30	Fernando Alba-Elias-Anti-friction coatings on medical needles using atmospheric-pressure plasma-polymerization O7 D2A2	Masafumi Ito -Growth Enhancement of Fibroblast Cells Using Quantitively Controlled Nitric-oxide Radicals O7 D2B2

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Plasma-surface interactions/modifications for biomedical applications
Regulatory issues in plasma medicine

	WEDNESDAY, 29/6		
08:00			08:00
08:15			08:15
08:30	Katharina Stapelmann -Plasma and Plasma-Liquid Chemistry in the Presence of Organic Matter P3 Room Progress		08:30
08:45			08:45
09:00			09:00
09:15	Refreshment break (30 min)		09:15
09:30			09:30
09:45	1st Cost Annual Meeting Room Mission 1	Room Mission 2	
	Evelien Smits -The tumor immunologist's point of view on preclinical and clinical studies in the context of plasma oncology II D3A1	Nicholas L Sponzel -Atmospheric Plasma Generated Nitrate Production and Optimization in a Water-scaled DBD Bubbler O1 D3B1	09:45
10:00		Natasa Hojnik -Atmospheric pressure plasma technology – a powerful tool against mycotoxin contamination of food O2 D3B1	10:00
10:15	Augusto Stancampiano -Cold plasma and Electrochemotherapy: in vivo combined treatment O1 D3A1	Duncan Trosan -Characterization and Optimization of Complex Surface Dielectric Barrier Discharges for the Purpose of Food Decontamination O3 D3B1	10:15
10:30	Thierry DUFOUR -Cold plasma endoscopy applied to cholangiocarcinoma: therapeutic study & feasibility study on porcine anatomical models O2 D3A1	Hemaditya Malla -Identifying Important Reactive Oxygen-Nitrogen Species in Sub-nanosecond Pulsed Discharges using Zero-dimensional Simulations O4 D3B1	10:30
10:45	Maja Miletić -Does cold plasma pretreatment of beta-tricalcium phosphate together with periodontal ligament stem cells enhance bone regeneration in vivo? O3 D3A1	Vasyl Shvalya -Plasma-made optical sensors for ppb level mycotoxins diagnostics O5 D3B1	10:45
11:00	Sander Bekeschus -Repeated exposure of the oral mucosa over 12 months with cold plasma is not carcinogenic in mice O4 D3A1	Alexandra Waskow -Understanding the molecular mechanisms of non-thermal plasma treatments on Arabidopsis thaliana seeds O7 D3B1	11:00
11:15	Kai Masur -Standardization in Plasma Medicine: From DIN Spec to IEC standards O5 D3A1	Nevena Puac -Plasma treatment of seeds and plant cells: role of reactive oxygen and nitrogen species in formation of plantlets and embryos in non-permissive conditions II D3B1	11:15
11:30	Albert Espona-Noguera -Dual action of RONS/Biomolecule-loaded Hydrogels: Killing Cancer Cells and Enhancing Stem Cells Viability O6 D3A1		11:30
11:45	Abraham Lin -Investigating Non-Thermal Plasma-Resistant Molecular Pathways through Development and Interrogation of a Resistant Melanoma Cell Line O7 D3A1	Sonal Chaple -The effects of Cold Plasma treatment on physicochemical and rheological modification of hydrocolloids O6 D3B1	11:45
12:00	Group Photo		12:00
12:15	Lunch break (2h)		12:15
12:30			12:30
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14:30	Afternoon excursion		14:30
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THURSDAY, 30/6		
08:00		08:00
08:15		08:15
08:30	Yuzuru Ichiara -Understanding and uses the plasma effects as what interacts with the biomolecules having the electric charge P4 Room Progress	08:30
08:45		08:45
09:00		09:00
09:15		09:15
09:30	Refreshment break (30 min)	
		09:30
09:45	Room Mission 1	Room Mission 2
	Robin Menthour -Antibacterial combination of cold plasma-activated water and pulsed electric fields O1 D4A1	Ramona Clemen -Gas Plasma Technology Augments Ovalbumin Immunogenicity and OT-II T Cell Activation Conferring Tumor Protection in Mice I1 D4B1
10:00	Anna Machková -Comparing the biocidal properties of non-thermal plasma sources with controlled treatment parameters by reference protocol O2 D4A1	
10:15	Suresh Joshi -Plasma-Based Solution for Bacterial Inactivation: A Novel Approach I1 D4A1	Martin Weiss -Cell type-specific anti-adhesion properties of peritoneal cell treatment with plasma-activated media (PAM) O1 D4B1
10:30		Vikas Soti -In-Vitro and In-Vivo Treatment of Cancer Using Various Plasma Devices and Drugs O2 D4B1
10:45	Min Xie -Growth phase, short-living RONS and acidity govern cold atmospheric plasma (CAP) antibacterial membrane activity in suspension O3 D4A1	Utku Kürsat Özcan -Irrigation of Peritoneal Cavity with Cold Atmospheric Plasma Treated Solution Effectively Reduces Microbial Load in Rat Acute Peritonitis Model O3 D4B1
11:00	Courti Ibtissam -Impact of Bacterial Growth Phase on Liquid Decontamination Efficiency Using Atmospheric Pressure Plasma O4 D4A1	Kristian Wende -Relevance and limitation of plasma-driven protein oxidation in model and clinical application O4 D4B1
11:15	Soukaina Barroug -Optimizing Plasma Functionalized Liquids for Control of Microbiological Risks Associated with Poultry Processing Chain O5 D4A1	Torsten Gerling -Development, qualification and preliminary certification of a dental plasma device for a multicenter clinical study O5 D4B1
11:30	Maxime Sahun -Rapid viral inactivation by cold atmospheric plasma offering great opportunities to decontaminate materials in hospital environments O6 D4A1	Hiroaki Kajiyama -The aqueous plasma therapy for ovarian cancer ~Aiming for controlling disseminated peritoneal metastasis~ I2 D4B1
11:45	Florin Bilec -The influence of chemical and physical parameters on plasma driven antibiotic degradation O7 D4A1	
12:00		
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13:30	Room Mission 1	Room Mission 2
	Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology I1 D4A2	Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy O1 D4B2
13:45		Zahra Nasiri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2
14:00	Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, ROI) O1 D4A2	KYRIAKOS SKLIAS -The role of short- and long-lived reactive species on the anti-cancer action of plasma-activated liquids: in-vitro and in-vivo applications I1 D4B2
14:15	Mohammad Reza Khani -Feasibility study of FEDBD ~plasma effect on rat skin biometric parameters O2 D4A2	
14:30	Sybilie Hasse -Investigations on microbiome and proteome in chronic wound exudates under plasma and standard wound treatment O3 D4A2	Theresa Freeman -Cold Plasma Treatment Reduces Osteolytic Bone Resorption O3 D4B2
14:45	Vladimir Scholtz -The non-thermal plasma and its potential utilization in the treatment of onychomycosis O4 D4A2	Blaise Octane -Cold Atmospheric Plasma Promotes Killing of Staphylococcus aureus by Macrophages O4 D4B2
15:00	Ivana Sremacki -Potentials of a plasma-aerosol system coupled with drug introduction for wound healing: in vitro study O5 D4A2	Evgeny Konechikov -Cold atmospheric plasma source based on a piezotransformer and its application in oncological research and plant nursery O5 D4B2
15:15	Eric Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O6 D4A2	XIAOLIANG YAO -Gold Plasma Discharge Tube Enhances Anti-tumoral Efficacy of Temozolomide O6 D4B2
15:30	Refreshment break	
15:45	(30 min)	
	Room Mission 1	Room Mission 2
16:00	Scheltjens -Atmospheric plasma-(bio)functionalization of polymer surfaces for low cost microfluidic devices O1 D4A3	Maria Herrera Quesada -Combining EPR, Photometric Assays, Mass Spectrometry, and FTIR to elucidate possible chemical pathways influenced by the COST-jet with an NO-rich gas admixture in a simple biological model O1 D4B3
16:15	Kristina Lachmann -Investigations on DBD treated PVC foils to reduce the migration of plasticizers in blood bags O2 D4A3	Olivier van Rooij -Electron Density Measurements using Stark Broadening of Spectral Hydrogen Lines in Plasma-Activated Water O2 D4B3
16:30	Alexander Robson -Plasma Polymerised Coatings to Prevent COVID-19 Fomite Transmission O3 D4A3	Steffen Schürder -Hydrogen peroxide production in water treated by a capillary plasma jet O3 D4B3
16:45	Anjar Anggraini Harunmingtyas -Polyether ether ketone (PEEK) functionalization by SrTiO3 for lumbar interbody fusion cage O4 D4A3	Camelia Miron -Physicochemical Investigation of Plasma Activated Liquids Organically Engineered by Cold Atmospheric Pressure Plasma for Cancer Treatment O4 D4B3
17:00	Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coated Surfaces O5 D4A3	Ahmad Hamdan -Streamer propagation at water surface: influence of gap distance and quantification of injected charge O5 D4B3
17:15	Bernard Nisol -Organic vinicular coatings based on an atmospheric plasma deposition process O6 D4A3	Tomoyuki Murakami -Numerical modeling of the plasma-activated chemistry of air-saturated saline solution O6 D4B3
17:30	Sohail Zaidi -Bacterial Inactivation by using a DBD Plasma Sheet Generator O7 D4A3	Anna Dzimitrowicz -Continuous flow plasma brush as an effective tool for degradation of drugs from liquid disposals O7 D4B3
17:45		
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19:00	Gala Dinner Plasma Medicine Award and the Early Career Award in Plasma Medicine Ceremonies	

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	FRIDAY, 1/7	
08:00		08:00
08:15		08:15
08:30	Julia Bandow -Plasma-driven biocatalysis: challenges and opportunities P5 Room Progress	08:30
08:45		08:45
09:00		09:00
09:15	Refreshment break (30 min)	09:15
09:30		09:30
09:45	Room Mission 1	Room Mission 2
	Lea Miebach -Conductivity augments ROS and RNS delivery and tumor toxicity of an argon plasma jet I1 D5A	Sarah-Johanna Klose -Formation of H2O2 in a cold atmospheric pressure plasma jet O1 D5B
10:00		Dr Nirupama Tiwari -Understanding Nitrate, Nitrite and Peroxide Radical Generation through Interaction of Cold Plasma with Water: Study Using a Special 13.56 MHz Cold Plasma Device O2 D5B
10:15	Bruce Locke -Development of a Formic Acid Degradier Cell for Coupling of Gas-Liquid Plasma Chemical Reactors with Enhanced Bioreactors O1 D5A	Pablo Escot-Bocanegra -Cold Plasma in Zero Gravity and Reduced Pressure Conditions for Disinfection and Decontamination in Spacecraft and Aerospace Environments O3 D5B
10:30	Hanne Verswyvel -Elucidating the Immunogenicity of Non-Thermal Plasma Combination Therapy in a 3D Tumour Model of Head and Neck Squamous Cell Carcinoma O2 D5A	Andrew Gibson -Control of plasma-chemical processes in atmospheric pressure plasmas for life science-related applications I1 D5B
10:45	Ruben Verloy -Triple co-culture spheroid model of pancreatic cancer for plasma research O3 D5A	
11:00		11:00
11:15	General assembly, awards ceremony + lectures and announcement of ICPM10 Room Progress Session Chair: Prof. Gerrit Kroesen; Prof. Matteo Gherardi, Prof. Eun-Ha Choi	11:15
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## Poster session MONDAY 27-6-2022

- P1 1 Anthony Cordero: Characterization of non-thermal plasma jet kINPen® IND by Optical Emission Spectroscopy
- P1 2 Esin Eren: Atmospheric Pressure Plasma Treatment using Machine Learning Models for Biomedical Applications
- P1 3 Felix Matthias Fuchs: In vitro analysis of the efficacy of an atmospheric dielectric barrier discharge on hidradenitis suppurativa (acne inversa) associated bacteria
- P1 4 Maria C. Garcia: Optical Emission Spectroscopy Diagnosis of Helium Cold Atmospheric Plasmas
- P1 5 Mahreen Khan: Use of low-frequency pulse modulation for control of RF atmospheric pressure helium plasma jet
- P1 6 Ju-Sung Kim: A study on the characteristics of atmospheric pressure argon-hydrogen plasma jets with changes in hydrogen fraction.
- P1 7 Sohail Mumtaz: Effect of plasma on/off time on the generation of reactive species with fixed duty ratio
- P1 8 SHAIK ABDUL MUNNAF: The redox-adsorption of Arsenic (III) removal with MnOFe<sub>2</sub>O<sub>3</sub> through the non-thermal plasma atmospheric plasma jet.
- P1 9 Niklas Nawrath: Influence of nitrogen, oxygen and water admixture on chemical modifications of cysteine by a dielectric barrier discharge
- P1 10 Luise Semmler: Assessment of How Modulation of Treatment Time Effects the Outcome of Cold Plasma Treatment in Different Cell Types and Cell States
- P1 11 Ainur Akildinova: Investigation of atmospheric pressure cold plasma treatment of wheat seeds
- P1 12 Lyes BENTERROUCHE: Improvement of Corn Seed Growth Yield by Plasma Activated Tap Water Irrigation
- P1 13 Hiroshi Hashizume: Effectiveness of Plasma Treatment for Various Rice Cultivation
- P1 14 Yoshihisa Ikeda: Mechanism of molecular introduction into plant callus by plasma treatment
- P1 15 Rida Javed: Plasma agriculture applications
- P1 16 Cristina Muja: Low pressure plasma as a tool in crop molds and mycotoxins management
- P1 17 Zuzana Okruhlicová: Effects of plasma activated water on germination and growth of maize
- P1 18 Lokeswari Ramireddy: AgriPlasma – Non-thermal air plasma treatment of multispecies swards seeds for reduction of greenhouse gas emissions
- P1 19 Jinjie He: Plasma-activated Water Disinfection of Escherichia coli O157:H7 on Spinach, Kale and Lettuce
- P1 20 Anna Machková: Effect of cold plasma treatment on germination and early growth of leguminous plants
- P1 21 Rodrigo Pessoa: Application of a gliding arc plasma jet in lentil seeds (Lens Culinaris) aiming at improving the water uptake and germination processes
- P1 22 Rodrigo Pessoa: Evaluation of the antifungal effect of different plasma compositions on Penicillium strains isolated from onion seeds
- P1 23 Nina Recek: Improved germination and yield of corn seeds after treatment with low-pressure oxygen plasma in an industrial reactor
- P1 24 Conner Robinson: Harnessing Atmospheric Low Temperature Plasmas Reactive Oxygen-Nitrogen Species for On-Demand Fertilizer Production
- P1 25 Rik Verschueren: Plasma Functionalization and Encapsulation of Particles
- P1 26 Tirtha Raj Acharya: Comparative study of antimicrobial activity of chemically and plasma-synthesized silver nanoparticles
- P1 27 Mohsen Ahmadi: Potential of Cold Physical Plasma in Prodrug Activation
- P1 28 Daniela Boehm: The role of bacterial growth phase in determining the susceptibility to inactivation by plasma activated liquids
- P1 29 Tim Dirks: Immobilization protects enzymes from inactivation in plasma-driven biocatalysis
- P1 30 Mostafa Elsayed Hassan: Transport of Gaseous Species H<sub>2</sub>O<sub>2</sub>, HNO<sub>2</sub>, NO<sub>2</sub>, NO, and O<sub>3</sub> into Water Microdroplets
- P1 31 Nourhan Hendawy: An Experimental Study and a Numerical Modelling of Microdroplets Charged in a Helium Atmospheric Pressure Plasma Jet
- P1 32 Kinga Kutasi: RONS enriched alginate hydrosols and hydrogels
- P1 33 Pradeep Lamichhane: Non-thermal Argon Plasma Jets of Various Lengths for Methyl Blue Degradation
- P1 34 Beatriz Pinheiro Lopes: Combined effect of Plasma Activated Water and Topotecan on cell growth and cell survival in glioblastoma cells
- P1 35 Laura Mc Clenaghan: Investigating the antimicrobial efficacy of plasma activated water against food pathogens and spoilage organisms
- P1 36 Manorma Negi: Plasma Treated liquids for immunomodulation
- P1 37 Rodrigo Pessoa: Physicochemical and UV-Vis analysis of different types of plasma-activated water
- P1 38 amaury Rouillard: Continuously Plasma Treated Water Spray for Medical and Cosmetic Applications
- P1 39 Calum Thomas Ryan: Particle Image Velocimetry for Plasma-Fluid Interactions
- P1 40 Orla Nic Shiurdain: Optimising Plasma functionalised liquids for the prevention and control of device associated and invasive infections
- P1 41 Fernando Alba-Elías: Long-term antimicrobial effect of plasma activated water generated with two different plasma-water interactions
- P1 42 KYRIAKOS SKLIAS: The role of short- and long-lived reactive species on the anti-cancer action of plasma-activated liquids: in-vitro and in-vivo applications
- P1 43 Ross Fladeland: Exposure to helium gas discharge tube results in blood brain barrier disruption
- P1 44 Mohammad Reza Khani: Feasibility study of FEDBD –plasma effect on rat skin biometric parameters
- P1 45 Mohammad Reza Khani: Effect of spark plasma on accelerating the wound healing process
- P1 46 Kenjiro Onishi: A simple method for establishing cells with higher safety for gene therapy by using surface discharge.
- P1 47 Thoralf Bernhardt: Evaluation of Methods for Standardized Testing of Cytotoxicity and Genotoxicity of Cold Plasma Sources for Medical Use
- P1 48 Ramona Clemen: Defective wound healing and antimicrobial drug resistance – a target for gas plasma therapy?
- P1 49 Mestre Eloise: Electrical characterization of an argon/CO<sub>2</sub> and helium/CO<sub>2</sub> plasma jet for wound healing
- P1 50 Bhagirath Ghimire: Characteristics of helium plasma jet operated by shielded and unshielded high voltage electrode
- P1 51 Eliška Lokajová: Portable Plasma Sources for Biomedical Applications Based on Cometary and Point-to-Ring Corona Discharges
- P1 52 Bhagirath Ghimire: A conical multi-jet plasma device for biomedical applications

## Poster session TUESDAY 28-6-2022

- P2 1 Rita Agus: Investigation of plasma activated water inactivation mechanisms of Escherichia coli through single-cell microfluidic experiments
- P2 2 Pradeep Bhartiya: Utilization of Nonthermal Plasma Generated Ozone for Inactivation of Human Coronavirus 229E
- P2 3 Filippo Capelli: Plasma assisted decontamination of food packaging material
- P2 4 Utku Kürşat Ercan: Utilization of a Machine Learning Method for the Prediction of Antimicrobial Activity of Cold Atmospheric Plasma-Activated Liquids
- P2 5 karol hensel: Effects of cold plasma generated by transient spark discharge on proteins and amino acids in water solutions
- P2 6 Carmen Kirner: Viability of commercially available non-thermal atmospheric pressure plasma (APP) sources for decontamination of polypropylene surfaces
- P2 7 Emilio Martines: On the Occurrence of Resistance to Helium Plasma Treatment in Bacteria
- P2 8 Martina Modic: Investigating the Mechanisms of Plasma Activated Water Deactivation of Medically Important Biofilms
- P2 9 Erika Muratov: Analysis of biofilm inactivation mechanisms under cold plasma treatment
- P2 10 Inna Orel: Gram-negative and gram-positive bacteria disinfection by cold atmospheric plasma using an in vitro agar plate model of a chronic wound
- P2 11 Soundharrajan P: "An in-vitro analysis to evaluate the disinfection effectiveness of Cold Atmospheric Pressure Plasma Jet in Enterococcus Faecalis infected root canals"
- P2 12 Jovana Petkovic: Are bubbles efficient in the production of plasma-treated water?
- P2 13 Alexander Rabinovich: Inactivation of Escherichia coli O157:H7 on Spinach, Kale, Lettuce, and Strawberry Using Plasma-activated Mist
- P2 14 Stephan Reuter: Plasma Tailoring for Pathogen Inactivation
- P2 15 Roopesh Mohandas Syamaladevi: Inactivation mechanisms of Listeria monocytogenes during in-package atmospheric cold plasma treatment and post-treatment storage
- P2 16 Kristína Trebulová: Impact of cold plasma treatment on the yeast candida glabrata
- P2 17 Darina Truchlá: Cold air plasma of streamer corona discharge for decontamination and wound healing
- P2 18 Khadija Akter: The role of non-thermal biocompatible atmospheric pressure plasma to induce osteoblast and osteocytes engagement in human bone marrow stem cells
- P2 19 Behnaz Bagheri: Molecular dynamics study of effect of oxidation induced by plasma on properties of lipid bilayers
- P2 20 Shweta Bharat Borkar: Synergy of Plasma and Immune Checkpoint Inhibitors against Resistant Breast Cancer Cells
- P2 21 NEHA KAUSHIK: Glycolytic inhibitor induces metabolic crisis in solid cancer cells to enhance cold plasma induced cell death
- P2 22 Fred Krebs: Immunomodulatory effects of non-thermal plasma in a model of latent HIV-1 infection: Implications for an immunotherapy effective against HIV-1 infection
- P2 23 Jaroslav Kristof: Rat Intestine Cells Absorption of Fluorescein Isothiocyanate–Dextran Induced by Microplasma Treatment
- P2 24 Angela Maldonado: Cold atmospheric plasma does not affect stellate cells phenotype in pancreatic tissues in ovo
- P2 25 Aurélie Marches: Cold atmospheric helium plasma activates migration but not proliferation of human keratinocytes
- P2 26 Jose Moreno Martinez: Application of cytogenetic marker for the quantification of radio-induced damage produced by a pulsed x-ray plasma focus devices
- P2 27 Aled Morton: Cold atmospheric plasma for the treatment of intracellularly infected osteoblasts and osteoclasts
- P2 28 Kae Nakamura: Immunostimulatory Effect of Plasma-Activated Solutions in the Intraperitoneal Environment of Ovarian Cancer
- P2 29 Slavomír Pásztor: Chemical Analysis of Four Types of Plasma Activated Liquid Stored at Different Temperatures and Neutrophils Treated by PAL
- P2 30 Juie Rana: Nonthermal atmospheric pressure plasma induced apoptosis in oral cancer cells through generic mitogen-activated protein kinases (MAPK) signaling pathway.
- P2 31 Yokoyama Ryo: Study on Control of Macromolecular Drug Transfer to Epithelial Cells Using Non-Invasive Microplasma
- P2 32 Ilva Noa Stellingwerf: Cancer cell metabolism and cold atmospheric plasma treatment
- P2 33 Shu Xiao: Nanosecond Pulses Delivered by Plasma Streamer Channels Modulate Cell Response in Space (in-vitro Study)
- P2 34 Mohamed Boudifa: On the effect of atmospheric plasma jet on 3D printing of hydrogels for tissue engineering
- P2 35 Amy Crisp: Polyethylene Oxide Coatings Towards the Prevention of Biofilm Development
- P2 36 Chloe Frewen: Deposition of an anti-adherent coating onto implant surfaces using Low Temperature Plasma.
- P2 37 Laurine Martocq: Allylamine Plasma Polymer Coatings for Biomedical Applications
- P2 38 Linh Nhat Nguyen: Plasma-assisted fabrication of gold nanoparticles-decorated manganese dioxide nanosheets for plasma-starvation therapy
- P2 39 Aysegül UYGUN OKSUZ: POLYMER BASED SURFACE MODIFICATION USING CAP
- P2 40 Alessio Quadrelli: Surface-regulated growth of TEMPO plasma polymers
- P2 41 Nikola Skoro: Cold Atmospheric Plasma treatment of dentin substrate for adhesive dental procedures
- P2 42 Lenka Zajíčková: Copper-coated Polymer Nanofibers for Antibacterial and Antiviral Applications
- P2 43 Konstantinos Papangelis: Characterisation of a Cold Atmospheric Pressure Plasma Torch for Medical Applications: Demonstration of Device Safety