DAY, 25/6	NONALY, France, Standard M. S. Standard, S. S. Stand		10130							
			Lossons learnt in plasma-treated liquid therapies for bone cancer: opportunities for plasma medicine P1 Peter Bruggeman -Plasma Regulated Biology: A Pathway Towards Defining a 'Dose' in Plasma-Medicine P2		Kabarina Bopelmone -Ponto and Pranos Lipped Chaming in the Presses of Organic Matter P1 Kana Program Hanna Organic Hanna Sabarana		 Yearse Robust-Robonanding and uses the places offset as who interacts with the biomiccule buring the decrets charge PL Robonand Carlos Physics 		Julia Bandow - Phanto-delivers biox-analysis challenger and opportunities P3 Bandow Physican Bandow Phanto-Bandow Bible	
ĺ	Refreshn (30	sent break min)	Rofeeshare (30 s	ent break nin)	Refresh (N	ment break minj	Refreshma (30 n	nt becak sin)	Refresha (30	sent break min)
	lar Cost Annual Meeting Room Mission 1 Session Chair: Paul. Cristina Canal	Room Mission 2 Session Chair: Por. Jean-Michel Pouveele	ler Cort Annual Meeting Room Mission 1 Session Chair: Prof. Daniela Bohem	Room Mindon 2 Chair: Prof. Lenka Zajičková	let Cost Annual Meeting Room Mission 1 Session Chair: Prof. Eric Robert	Room Mission 2 Session Chair: Prof. Zdenko Machala	Room Mission 1 Session Chair: Prof. Pror Bruggeman	Room Mission 2 Session Chair: Prof. Stefen Emmert	Room Mission 1 Session Chair: Prof. Erelien Smits	Room Mission 2 Session Chair: Prof. Katherina Stapelmann
	Hiromasa Tanuka -Molecular mechanisms of cell death by plasma- activated solutions in glioblastoma cells II DIAI	Ita Jankar -Gascoss plasma mamment of vascular stents - a powerful tool for new generation vascular stents OI DIB1	Utku Kiryat Firzas-Denemination of Antienicrobial Strongth of Cold Annospheric Plasma Activated Water by Colorimetric and Electrochemical Methods OI D2A1	Konstantin Kostov -Development of Remote Atmospheric Plasma Jees for Bioreedical Applications 11 D2B1	Evellen Smits -The namor immunologier's point of view on preclinical and clinical studies in the context of plasma oncology II II3A1	Nicholas I. Sponsel -Armospheric Plasma Generated Nitrate Production and Optimization in a Water-scaled DRD Bubbler. OI D201	Robin Mentheour -Antibactorial combination of cold plasma-activated water and palsed electric fields. OI D4A1	Ramona Clemon -Gas Plasma Technology Augments Ovalhumin Immunopenicity and 07 - 11 T GE Artivation Conferring Turnor Protection in Mice 11 DHB1	Lea Michach -Canductivity augments ROS and RNS delivery and turner toxicity of an argon plasma jet 11 DSA	Samb-Johanna Klose -Formation of H2O2 in a cold atmospheric p plasma jet: OI D5B
		Eine Biscop -Elacidating Non-Thermal Plasma-induced Gill Death Mechanisms for Direct and Indirect Treatment Conditions. O2 D181	Romolo Lausita -On the use of cold armosphoric prostan plasmas and plasma activated water for food processing O2 D2A1			Duncas Trosas -Characterization and Optimization of Complex Surface Dielectric Barrier Discharges for the Purpose of Food Decontamination O2 D381	Anna Machlovii -Gomparing the biocidal properties of non-thermal plasma sources with econvolid transmeet parameters by reference protocol C2 D4A1			Pablo Escot-Bocanagra -Cold Plasma in Zero Gravity and Radu Passeau Conditions for Disinfection and Decontamination in Spa and Aerospace Environments O2 D5B
	Soulder Bekeschus - Medical gis plasma augments blidder cancer cell tosticity and immanogenicity in preclinical models and patient-derived namor tissues OI DIA1	Vandana Miller - Plasma immunomodularion: secondary and toriary effects O3 D1B1	Yury Gorbanev - Plasma-Liquid Interactions: The role of liquid 11 D2A1	Eun Ha Choi-Calculation of O3 and O density containing humidity generated from nonthermal atmospheric plasma. O1 D281	Abashan Lia -Investigating Non-Thermal Plasma-Resistant Molecular Pathwaye through Development and Interroppinon of a Resistant Melanoma Gill Line: OT D3A1 Therm Defend Calif information of the one-thermal structure of the stru	Species in Sub-nanosecond Pathed Discharges using Zero-dimensional Simulations (O3 D/861	Suresh Joshi -Plasma-Based Solution for Bacterial Inactivation: A Novel Appenach 11 D4A1	Martin Weiss -Call type-specific anti-adhesion properties of peritoneal ce treatment with plasma-activated media (PAM). OI D481	Proce Locks-Development of a Fermic Ard Dografor Gill for Coupling of Gas-Logich Phone Chemical Restricts with Enhanced Biomacross OI D5A Hance Verwyvel -Eleckdeing the Interneopenicity of Non-Thermal Phanes Combinion Therapy in a DI Tamasen Middl of Haad and Neck	Andrew Gibson - Control of plasma-chemical processes i atmospheric pressure plasmas for life science-related applica II D5B
-	Francesco Tampieri -Biocompathle Composite Hydergele for Storage and Delivery of Plasma-Generated Reactive Species O2 D1A1	Johanna Striesow -Formation of lipid providation products by gas plasmas - translation from the Igonome model to human plandes: O4 D1B1		Julen Bissonnetti-Dulade -Coupling of microfluidic devices with reference cold plasma jet: O2 D2B1 Schueisen Bachesen Jernset of Durvidler on the O11 Americanian in the	Thisny Dafase -Cald plasma endoscopy applied to cholangiocarcinema: thempeutic study & fasobility study on postine anaromical models O2 D3A1 Main Mitrid - Data cold clasma neuronness of box activities released	Vaqil Sivalya -Plasma-made optical sources for ppb-level mecrossios diagnostics: O4 D381	Min Xie -Growth phase, short-living RONS and acidity govern cold	Vikas Soni-da-Vitro and In-Vivo Traument of Cancer Using Various Plasma Devices and Deuge O2 D481 D4vo Virent Oneon Jeviening of Protocond Centre with Cold	Squanous Cell Carcinoma: O2 D5A	
	Lukes Petr - Chemistry and cytotoxic properties of amino acids modified by He/O2 plasma in saline solutions O3 D1A1	Kai Masur -Plasma modulation of human progenitor cells. OS D1B1	Ana Megia -Plasma Artivated Water (PAW) Against Virus and Maltideng Resistant Bactoria: characterization and in vitro experiments O3 D2A1	effluent of the COST-jet measured by loser induced fluorescence CO D201	Maja Miletië -Does cold plasma premeanment of beta-micaleiam phosphate together with periodontal ligament stars cells orbance hone regreseration in vitro? OS DSAI	Alexandra Waskow -Understanding the molecular mechanisms of non- thermal plasma measurements on Arabidopsis thaliana seeds. OS D381	atmospheric plasma (CAP) antibacturial membrane activity in suspension O3 D4A1	Udus Kilnut Oscan - Intigation of Poinosail Cavity with Gold Jamospheric Plasma Traund Solution: Effectively Reduces Microbial Los in Rat Jame Poinositis Model: OS D4B1	Bahen Verloy -Triple co-culture spheroid model of pancreatic cancer for plasma research: O3 D5A	Masafami Ito-Growth Enhancement of Fibroblast Gelle Usi Quantitively Cosmolled Ninic-onide Radicals: 03 D5B
	Andydija Petrovic - Optimization of a DBD plasma jet in contact with liquids for application in biomedicine O4 D1A1	Shinya Kamagai -Analysis of cell irradiand with non-thermal annosphoric pressure plasma for effective gone standar. OS D102	Olivera Joranović -Plasma pin-jet for tavatment of water: production of reactive species in detilled and tap water O4 D2A1	Andra-Cóstina Bostanaro-Mycobactoricidal Efficacy of Non-Thormal Plasma Activated Water O4 D2B1	Sander Bickenchus-Repeated exposure of the onal macrosa over 12 months with cold plasma is not carcinogenic in mice O4 D3A1	Novena Puac -Plasma meanment of seeds and plant cells: tole of reactive oxygen and nitrogen species in formation of plantlets and	Counti Buissans-Impact of Bacterial Growth Phase on Liquid Decontamination Efficiency Using Annospheric Pressure Plasma. O4 D4A1	Kristian Wende-Relevance and limitation of plasma-driven pennin oridation in model and clinical application. O4 D4B1		
	Parisa Shali -Plasma directly generated in liquids as an innovative method to treat cancer O5 D1A1	Sphile Hase -lavestigations on microbiome and proteome in channic wound evadates under plasma and standard wound treatment O7 D1B1	Jean-Michel Pouvole -The, so-called blob, dime mold Physanam polycophalam as a new model for biological applications of atmospheric pressure non-thermal plasmac OS D2A1	Paul Magsine -Electron and hydroxyl radical interactions with liquids, biomolecules and cells: O5 D2B1	Kai Masue Sundhadization in Plasma Medicine: From DIN Spec to EEC unadhads OS D3A1 Albert Espona-Nogaera -Dual action of BONS/Biomelecule-loaded	concepts in new-permission containants of D3B1	Soukaina Barrong: Optimizing Plasma Faserionalized Liquids for Control of Microbiological Rinks Associated with Posithry Processing Chain OS DMA1 Maxime Sahan -Rapid vizal inactivation by cold armosphoric plasma	Tomen Goling-Development, qualification and publishinary configuration of a deema plasma device for a multicenter clinical mady. OS D481		
	Valeria Veranico -The active role of the liquid in the formation of long-lived RONS in Plasma Treated Water Solutions 12 DIA1	Orvido Dusiel Contear -Healing of topid ulcere treated with atmospheric cold air plasma jet: pediminary results O8 D1B1	Aleksandra Lavrikova -Bactoria inactivation pathways induced by cold atmospheric plasma O6 D2A1	Minio Janda -The role of HNO2 in the generation of plasma activated water by transient spark discharge 12 D2B1	Hydrogels: Killing Cancer Gills and Exhancing Stem Gills Vability O6 D3A1	Senal Chaple -The effects of Gold Plasma transmetr on physicechemical and rhoological modellication of hydrocolloids. Of D2B1 Jona Doinitrovicz -Continuous flow olasma brash as an effective tool for	offering great opportunities to decontaminate materials in hospital environments. Of D4A1	Hienaki Kujiyama -The aqueous plasma therapy for ovarian cancer ~Aiming for controlling disseminated performed metastasis~ 12 D4B1	General assembly, awards coremony + Room Session Chair: Prof. Gerrit Kroesen; Prof. Marteo Gherardi,	lectures and announcement of ICPM10 Progress Prof. Ana Sohera, Prof. Romolo Laurita, Prof. Eun-Ha Choi
	ALE THE ROAT I FAMILY FRAME WAAT STREAMS & DATE	Augusto Stancampiano -In-sito sufety associates for fractioned and continuous direct plasma treatments O9 D1B1	Nishtha Gaue-Methode to enhance the anti-microhial effects of an argon plasma jet O7 D2A1	A strate when by a second space on tange 12 12 and	Augusto Stancampiano - Cold plasma and Electrochemotherapy: in vivo combined stratment OI D3A1	Jana Doininovicz-Continuous flow plasma brush as an effective tool for degradation of drags from legisl disposals O7 D3B1	Flosin Biles -The influence of chemical and physical parameters on plasma driven antibiotic degradation: O7 D431	D481		
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			Parrenia Parrenia		Lantch break (2b)		Steffen Ensmert -CEnical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Demanology 11 D442	Juliette Harley «Plasma activated liquid synonyistically enhances response) radiation for improved cancer therapy. OI D482 Zahra Nami «The interact of oxidative traves on the barrier ensembles of	87	
		Positi Associa. Positi a			er e		Thereas Fournas -Developing Barra based Therapies to combin Orthopack: Effection - Update from Bild Trioparties (35, NJ, ROD 01 Orthopack: Effection - Update from Bild Trioparties (35, NJ, ROD 01		-	
							D4A2 Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coarad Sanfaces: 02 D4A2	Application status - The first of plasma-activated liquids: in-vitro and in vitro applications. II D4B2	•	
							Enic Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O5 D4A2	Vialinit Scholtz-The non-thermal plasma and its potential utilization in the mammat of orychomycosis O3 D4R2		
		WG41 meeting of International standard IEC60601-2-91 ; Plasma weard treatment Mission 2		WIPM, Women in Plasma Medicine Room Mission 1 Section Chair: Post. Vandana Miller			Ivana Seemacki -Potentials of a plasma-aerosol system coupled with drag introduction for wound healing in vitro study. O4 D432	Baise Ociate - Cold Armospheric Plasma Promotes Killing of Staphylococcus surves by Macrophages. O4 D4B2		
		wound treatment Mission 2		Session Chair: Prof. Vandana Miller			Thoresa Freeman -Gold Plasma Treasment Reduces Osteolytic Bone Recorption OS D4A2	Xiaoliang Yao-Cold Plasma Discharge Tabe Enhances Anti-menoral Efficacy of Tensorological OS D402		
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	lat Gost Annual Meeting Room Mission 1 Session Chail: Dr. Sander Bekeschus	let Cost Annual Meeting Boom Mission 2 Session Chaile Dr. Nevena Paac	Int Cost Annual Meeting Room Mission 1 Session Chair Prof. František Krima	Room Mission 2 Session Chair: Post. Theresa Freeman			Room Mission 1 Session Chair Prof. Kristian Wende	Room Mission 2 Seosion Chair: Prof. Julia Bandow		
gistration	Zdotko Machala-Gold plasma/phonocenthysis decontamination of FFP2 requirements and indices air contaminants O1 D1A2	Sauna Sino -Interaction of a Cold Antroophoric Argon Plasma Jet Device with Haman Sin Cills OI D102	Allan Pary-Remodeling of cholangiocarcinoma microenvironment by cold atmospheric plasma through in vitro approach OI D2A2	Joseph Lonost -Spatial destiluation of cold atmospheric plasma reactive species displaying activity on bacturial cell membranes. OI D2R2	Alternoo	n excursion	Kristina Lachmann - Investigations on DBD stand PVC folls to reduce the migration of plasticians in blood bags. OI D4A3	Maria Horrera Quesafa «Combining 1798, Phenomenic Aways, Mass Spectromousy, and FTIR to explicate possible chanical pathways influenced by the CONF-Jot with an NO-rich gas administra in a simple biological model O1 De05		
	Paopale Isabelli -Cold Plasma Systems to reduce airbonne transmission of Hospital Acquired Infectious & COVID-19 O2 D1A2	Benjamin Harris - Tailoring reactive oxygen species production in public Ho-H2O plasmas through Palse Repetition Rate O2 D1B2	Mattoo Ghorandi -Control strategios fos atmosphosic pressure PECVD O2 D2A2	Thomas Thompson -Comparison of the antimicrobial activity of three Cold Plasma jets against S. aurous. O2 D2B2			Alexander Robson -Plasma Polymerised Goatings to Prevent COVID-19 Fomine Transmission O2 D4A3	Officier van Rooij -Flictmon Donsky Massammeers using Stark Broadonin of Spectral Hydrogen Lines in Plasma-Activated-Water. O2 D483	8	
[Gabriele Neterti -Statellization of disposable devices performed by indirect plasma traament O5 D1A2	James Walsh -Influence of external factors on plasma jet dynamics	Beartice Olapireola -Doposition of Arabhotic Layor onto Implant Sarfaces using Low Temperature Plasma O3 D2A2	Nagendra Kamar Kaushik - Nonthermal biocompatible plasma for immuno-modulation, synongy with nanomaneials, and comma virus inactivation O3 D2B2			Anjar Anggraini Haramaingtyas -Polyother other ketone (PEER) functionalization by ScHO3 for lumbar interbody fasion cage: O3 D4A3	Sueffon Schättler -Hydrogen peroxide production in water treated by a capillary plasma jet: O3 D403		
	Ana Saisz-Garcia - Anno-phenic Pressare Cold Plasma for Mask Disinfection O4: D1A2	II DIB2	Media Benčina -Plasma truated nanostructured TiO2 surface for vascular stores applications O4 D2A2	Julia Sume -Nosthermal Plasma as an Amininal and Immunomodulatory Agent Effective Against HSV-1 Infection: O4 D2B2				Canada Matsi - Physicochemical Investigation of Plasma Activated Liquids Organically Engineered by Cold Antrospheric Pressure Plasma fo Cancer Treatment: O4 D4R5	<	
	Torsten Gerling-Development of a mobile sensory device to trace treatment conditions for various medical plasma devices O5 D1A2	Fransish Kebra -Diagnostics of Dielectric Barrier Discharge Based Plasma Pon for Skin Treamner OS D1B2	Fornando Alho-Ellar-Anti-friction coatings on medical neefles using atmospheric-pressure plasma-polymerization O6 D2A2	Ross Duncan-Cold plasma meanment of macrophages and biofilms affects their interaction with free antibiotics and liposomes. OS D2B2			Sobal Zaidi -Bactorial Inactivation by using a DBD Plasma Sheet Generator: O5 D4A3	Ahmad Handan -Streamer propagation at water surface influence of gap docume and quantification of injected charge OS D4B3		
		Katayoon Hadan Rassani -Hermical and optical investigation of the long norm operation of an onloscopic plasma device O4 D1R2	Lieze Dankers-Annospheric plasma-fhio/functionalization of polymer surfaces for low cost microfhidic devices. O7 D2A2	Jordanne-Jenes Maybin. Gold atmospheric pressure plasma as a method to improve efficacy of antibiotics against hieffirm-forming Pseudomonas aoraginosa. Of D2R2						
		Li Lin -The Physical Effects of Plasma Medicine on Cells: Radio Fesquency Scientified Reserventifier and Renzelbilar Mechanical Waves: O6 D1B1	9							
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	SUNDAY, 26/6	MOND	AY, 27/6					
08:00 - 08:15		Opening ceremony 00						
08:15 - 08:30		Room Progress Session Chair: Prof. Gerrit Kroesen; Prof. Matteo Gherardi, Prof. Ana Sobota, Prof. Romolo Laurita, Prof. Eun-Ha Choi						
08:30 - 08:45		Cristina Canal - Lessons learnt in plasma-treated liquid therapies for bone cancer: opportunities for plasma medicine P1						
08:45 - 09:00		Room Progress Session Chair: Prof. Gerrit Kroesen						
09:00 - 09:15		Session Chair, Pr	oi. Gerrit Kroesen	09:00 - 09:15				
09:15 - 09:30		Refreshm	ent break	09:15 - 09:30				
09:30 - 09:45		(30 min)						
		1st Cost Annual Meeting Room Mission 1 Session Chair: Prof. Cristina Canal	Room Mission 2 Session Chair: Prof. Jean-Michel Pouvesle					
09:45 - 10:00		Hiromasa Tanaka -Molecular mechanisms of cell death by plasma-activated solutions in	Ita Junkar -Gaseous plasma treatment of vascular stents - a powerful tool for new generation vascular stents O1 D1B1	09:45 - 10:00				
10:00 -10:15		glioblastoma cells 11 D1A1	Eline Biscop -Elucidating Non-Thermal Plasma-induced Cell Death Mechanisms for Direct and Indirect Treatment Conditions O2 D1B1	10:00 -10:15				
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	Vandana Miller -Plasma immunomodulation: secondary and tertiary effects O3 D1B1	10:15 - 10:30				
10:30 - 10:45		Francesco Tampieri -Biocompatible Composite Hydrogels for Storage and Delivery of Plasma- Generated Reactive Species O2 D1A1	Johanna Striesow -Formation of lipid peroxidation products by gas plasmas - translation from the liposome model to human platelets O4 D1B1	10:30 - 10:45				
10:45 - 11:00		Lukes Petr -Chemistry and cytotoxic properties of amino acids modified by He/O2 plasma in saline solutions O3 D1A1	Kai Masur -Plasma modulation of human progenitor cells O5 D1B1	10:45 - 11:00				
11:00 - 11:15		Andjelija Petrovic -Optimization of a DBD plasma jet in contact with liquids for application in biomedicine O4 D1A1	Shinya Kumagai -Analysis of cell irradiated with non-thermal atmospheric pressure plasma for effective gene transfer O5 D1B2	11:00 - 11:15				
11:15 - 11:30		Parisa Shali -Plasma directly generated in liquids as an innovative method to treat cancerO5 D1A1	Sybille Hasse -Investigations on microbiome and proteome in chronic wound exudates under plasma and standard wound treatment O7 D1B1	11:15 - 11:30				
11:30 -11:45		Valeria Veronico -The active role of the liquid in the formation of long-lived RONS in Plasma	Osvaldo Daniel Cortázar -Healing of torpid ulcers treated with atmospheric cold air plasma jet: preliminary results O8 D1B1	11:30 -11:45				
11:45 -12:00		Treated Water SolutionsI2 D1A1	Augusto Stancampiano -In-vivo safety assessment for fractioned and continuous direct plasma treatments O9 D1B1	11:45 -12:00				
12:00 -12:15 12:15 -12:30 12:30 - 12:45 12:45 - 13:00 13:00 - 13:15 13:15 - 13:30			ı break Omin)	12:00 -12:15 12:15 -12:30 12:30 - 12:45 12:45 - 13:00 13:00 - 13:15 13:15 - 13:30				
13:30 - 13:45 13:45 - 14:00 14:00 -14:15		Poster session						
14:15 - 14:30 14:30 - 14:45 14:45 - 15:00			WG41 meeting of International standard IEC60601-2-91 ; Plasma wound treatment Mission 2	14:00 -14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00				
15:00 - 15:15 15:15 -15:30		Refreshm	ient break	15:00 - 15:15 15:15 -15:30				
15:30 - 15:45		(30)	min)	15:30 - 15:45				
15:45 - 16:00		1st Cost Annual Meeting Room Mission 1 Session Chair: Dr. Sander Bekeschus	lst Cost Annual Meeting Room Mission 2 Session Chair: Dr. Nevena Puac	15:45 - 16:00				
16:00 - 16:15		Zdenko Machala -Cold plasma/photocatalysis decontamination of FFP2 respirators and indoor air contaminants O1 D1A2	Susana Sério -Interaction of a Cold Atmospheric Argon Plasma Jet Device with Human Skin Cells O1 D1B2	- 16:00 - 16:15				
	Registration	Pasquale Isabelli -Cold Plasma Systems to reduce airborne transmission of Hospital Acquired Infectious & COVID-19 O2 D1A2	Benjamin Harris -Tailoring reactive oxygen species production in pulsed He+H2O plasmas through Pulse Repetition Rate O2 D1B2					
16:15 - 16:30		Gabriele Neretti -Sterilization of disposable devices performed by indirect plasma treatment O3 D1A2	James Walsh -Influence of external factors on plasma jet dynamics II D1B2	16:15 - 16:30				
16:30 - 16:45		Ana Sainz-García -Atmospheric Pressure Cold Plasma for Mask Disinfection O4 D1A2		16:30 - 16:45				
16:45 - 17:00		Torsten Gerling -Development of a mobile sensory device to trace treatment conditions for various medical plasma devices O5 D1A2	František Krėma -Diagnostics of Dielectric Barrier Discharge Based Plasma Pen for Skin Treatment O3 D1B2	16:45 - 17:00				
17:00 - 17:15	Welcome reception		Katayoon Hadian Rasnani -Electrical and optical investigation of the long term operation of an endoscopic plasma device O4 D1B2	17:00 - 17:15				
17:15 - 17:30	Jaarbeurs, 1st floor, Supernova space		Li Lin -The Physical Effects of Plasma Medicine on Cells: Radio Frequency Stimulated Intercellular and Intracellular Mechanical Waves O6 D1B1	17:15 - 17:30				
17:30 - 17:45 17:45 - 19:00				17:30 - 17:45 17:45 - 19:00				
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Fundamentals of atmospheric plasmas
Plasma agricultural applications
Plasma for pharmaceutical applications, biochemical and biomolecular engineering
Plasma for pharmaceutical applications - chinical and animal studies
Plasma neucical applications - chinical and animal studies
Plasma sources for biomedical applications
Plasma-based decontamination and sterilization
Plasma-cell and plasma-tissue interactions - biological and biochemical reactions
Plasma-surface interactions/modifications for biomedical applications
Regulatory issues in plasma medicine

1	TUESDAY, 28/6						
08:00 - 08:15	0						
08:15 - 08:30							
08:30 - 08:45			08:30 - 08:45				
08:45 - 09:00	Room I	vay Towards Defining a 'Dose' in Plasma-Medicine P2 Progress	08:45 - 09:00				
09:00 - 09:15	Session Chair: Pr	of. Eun-Ha Choi	09:00 - 09:15				
09:15 - 09:30			09:15 - 09:30				
		ent break nin)					
09:30 - 09:45	1st Cost Annual Meeting		09:30 - 09:45				
	Room Mission 1 Session Chair: Prof. Lenka Zajičková						
09:45 - 10:00			09:45 - 10:00				
	Utku Kürşat Ercan -Determination of Antimicrobial Strength of Cold Atmospheric Plasma Activated Water by Colorimetric and Electrochemical Methods O1 D2A1						
10:00 -10:15	Romolo Laurita -On the use of cold atmospheric pressure plasmas and plasma activated water for food processing O2 D2A1	Konstantin Kostov -Development of Remote Atmospheric Plasma Jets for Biomedical Applications II D2B1	10:00 -10:15				
10:15 - 10:30		Eun Ha Choi-Calculation of O3 and O density containing humidity generated from nonthermal	10:15 - 10:30				
10.15 10.50	Van Casharan Diama Limid Lateration, The set of invit 14 D044	atmospheric plasma O1 D2B1	10.15 10.50				
10:30 - 10:45	Yury Gorbanev - Plasma-Liquid Interactions: The role of liquid 11 D2A1	Julien Bissonnette-Dulude -Coupling of microfluidic devices with reference cold plasma jet O2 D2B1	10:30 - 10:45				
10:45 - 11:00	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	10:45 - 11:00				
11:00 - 11:15	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	11:00 - 11:15				
11:15 - 11:30	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 Magnire -Electron and hydroxyl radical interactions with liquids, biomolecules and cells O5 D2B1	11:15 - 11:30				
11:30 -11:45	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 12 D2B1					
11:45 -12:00	Nishtha Gaur -Methods to enhance the anti-microbial effects of an argon plasma jet O7 D2A1 $$						
12:00 -12:15 12:15 -12:30 12:30 - 12:45 12:45 - 13:00 13:00 - 13:15 13:15 - 13:30	Lunch break (1h 30 min)	ISPM Board of Director meeting Quest Room	12:00 -12:15 12:15 -12:30 12:30 - 12:45 12:45 - 13:00				
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	Poster	session	13:15 - 13:30 13:30 - 13:45				
13:30 - 13:45 13:45 - 14:00 14:00 -14:15	Poster	session	13:15 - 13:30				
13:45 - 14:00	Poster	WIPM, Women in Plasma Medicine Room Mission 1	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30				
13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45	Poster	WIPM, Women in Plasma Medicine	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 - 14:15 14:15 - 14:30 14:30 - 14:45				
13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00 15:00 - 15:15		WIPM, Women in Plasma Medicine Room Mission 1 Session Chair: Prof. Vandana Miller	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00 15:00 - 15:15				
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Fundamentals of atmospheric plasmas

Plasma for pharmaceutical applications, biochemical and biomolecular engineering Plasma liquid interactions, plasma activated liquid Plasma medical applications, edinical and entered

Plasma-based decontamination and sterilization

Plasma-cell and plasma-tissue interactions - biological and biochemical reactions Plasma-surface interactions/modifications for biomedical applications Regulatory issues in plasma medicine

	WEDNESDAY, 29/6					
08:00 - 08:15						
08:15 - 08:30						
08:30 - 08:45	Kadada Sandaran Diaman di Dama Linda Charlanda da Daman di Mana Di					
08:45 - 09:00						
09:00 - 09:15	Session Chair: Kristina Lachmann					
09:15 - 09:30	Refreshm	ent break	09:15 - 09:30			
09:30 - 09:45		nin)	09:30 - 09:45			
	1st Cost Annual Meeting Described Section 2					
00.45 40.00	Room Mission 1 Session Chair: Prof. Eric Robert	Session Chair: Prof. Zdenko Machala				
09:45 - 10:00		Nicholas L Sponsel -Atmospheric Plasma Generated Nitrate Production and Optimization in a Water-	09:45 - 10:00			
	Evelien Smits -The tumor immunologist's point of view on preclinical and clinical studies in the	sealed DBD Bubbler O1 D3B1				
10:00 -10:15	context of plasma oncology I1 D3A1	Duncan Trosan -Characterization and Optimization of Complex Surface Dielectric Barrier Discharges for	10:00 -10:15			
10:00 -10:15		the Purpose of Food Decontamination O2 D3B1	10:00 -10:15			
10:15 - 10:30	Augusto Stancampiano -Cold plasma and Electrochemotherapy: in vivo combined treatment O1 D3A1	Hemaditya Malla -Identifying Important Reactive Oxygen-Nitrogen Species in Sub-nanosecond Pulsed	10:15 - 10:30			
		Discharges using Zero-dimensional Simulations O3 D3B1				
10:30 - 10:45	Thierry Dufour -Cold plasma endoscopy applied to cholangiocarcinoma: therapeutic study & feasibility	Vasyl Shvalya -Plasma-made optical sensors for ppb level mycotoxins diagnostics O4 D3B1	10:30 - 10:45			
	study on porcine anatomical models O2 D3A1					
10:45 - 11:00	Maja Miletić -Does cold plasma pretreatment of beta-tricalcium phosphate together with periodontal	Alexandra Waskow -Understanding the molecular mechanisms of non-thermal plasma treatments on Arabidopsis thaliana seeds O5 D3B1	10:45 - 11:00			
	ligament stem cells enhance bone regeneration in vivo? O3 D3A1	Atabidopsis tranana secus O5 D5D1				
11:00 - 11:15	Sander Bekeschus -Repeated exposure of the oral mucosa over 12 months with cold plasma is not		11:00 - 11:15			
	carcinogenic in mice O4 D3A1	Nevena Puac -Plasma treatment of seeds and plant cells: role of reactive oxygen and nitrogen				
11:15 - 11:30	Kai Masur -Standardization in Plasma Medicine: From DIN Spec to IEC standards O5 D3A1	species in formation of plantlets and embryos in non-permissive conditions 11 D3B1	11:15 - 11:30			
11:30 -11:45	Albert Espona-Noguera -Dual action of RONS/Biomolecule-loaded Hydrogels: Killing Cancer Cells and Enhancing Stem Cells Viability O6 D3A1	Sonal Chaple -The effects of Cold Plasma treatment on physicochemical and rheological modification o hydrocolloids O6 D3B1	11:30 -11:45			
	Linning over Octo Finolity Of Dott					
11:45 -12:00	Abraham Lin -Investigating Non-Thermal Plasma-Resistant Molecular Pathways through Development and Interrogation of a Resistant Melanoma Cell Line O7 D3A1	Anna Dzimitrowicz -Continuous flow plasma brush as an effective tool for degradation of drugs from liquid disposals O7 D3B1	11:45 -12:00			
12:00 -12:15	Group		12:00 -12:15			
12:15 -12:30	Gioup	11010	12:15 -12:30			
12:30 - 12:45			12:30 - 12:45			
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17:00 - 17:15	15 174					

Legend
Plenary
Fundamentals of atmospheric plasmas
Plasma agricultural applications
Plasma for pharmaceutical applications, biochemical and biomolecular engineering
Plasma liquid interactions, plasma activated liquids
Plasma medical applications - clinical and animal studies
Plasma sources for biomedical applications
Plasma-based decontamination and sterilization
Plasma-cell and plasma-tissue interactions - biological and biochemical reactions
Plasma-surface interactions/modifications for biomedical applications
Regulatory issues in plasma medicine

	THURSDAY, 30/6					
08:00 - 08:15						
08:15 - 08:30						
08:30 - 08:45	Yuzuru Ikehara -Understanding and uses the plasma effects as what interacts with the biomolecules having the electric charge P4					
08:45 - 09:00	Room Progress Session Chair: Prof. Masaru Hori					
09:00 - 09:15						
09:15 - 09:30 09:30 - 09:45	Refreshment break (30 min)					
07.50 - 07.45	Room Mission 1 Room Mission 2					
09:45 - 10:00	Session Chair: Prof. Peter Bruggeman	Session Chair: Prof. Stefen Emmert	09:45 - 10:00			
	Robin Mentheour -Antibacterial combination of cold plasma-activated water and pulsed electric fields O1 D4A1					
10:00 -10:15	Anna Machková -Comparing the biocidal properties of non-thermal plasma sources with controlled treatment parameters by reference protocol O2 D4A1	Ramona Clemen -Gas Plasma Technology Augments Ovalbumin Immunogenicity and OT-II T Cell Activation Conferring Tumor Protection in Mice 11 D4B1	10:00 -10:15			
10:15 - 10:30	Survey In the Discover David Schwitzer Ser Daviesia I I and and an A Namel America & 11 DA44	Martin Weiss -Cell type-specific anti-adhesion properties of peritoneal cell treatment with plasma- activated media (PAM) O1 D4B1	10:15 - 10:30			
10:30 - 10:45	Suresh Joshi -Plasma-Based Solution for Bacterial Inactivation: A Novel Approach 11 D4A1	Vikas Soni -In-Vitro and In-Vivo Treatment of Cancer Using Various Plasma Devices and Drugs O2 D4B1	10:30 - 10:45			
10:45 - 11:00	Min Xie -Growth phase, short-living RONS and acidity govern cold atmospheric plasma (CAP) antibacterial membrane activity in suspension O3 D4A1	Utku Kürsat Ozean -Irrigation of Peritoneal Cavity with Cold Atmospheric Plasma Treated Solution Effectively Reduces Microbial Load in Rat Acute Peritonitis Model O3 D4B1	10:45 - 11:00			
11:00 - 11:15	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	11:00 - 11:15			
11:15 - 11:30	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	11:15 - 11:30			
11:30 -11:45	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	11:30 -11:45			
11:45 -12:00	Florin Bilea -The influence of chemical and physical parameters on plasma driven antibiotic degradation O7 D4A1					
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13:15 - 13:30			13:00 - 13:15 13:15 - 13:30			
	Room Mission 1 Session Chair: Prof. Thomas von Woedtke	Room Mission 2 Session Chair. Prof. Robert Short	13:15 - 13:30			
13:15 - 13:30 13:30 - 13:45	Session Chair: Prof. Thomas von Woedtke	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved				
	Session Chair: Prof. Thomas yon Woedtke	Session Chair: Prof. Robert Short	13:15 - 13:30			
13:30 - 13:45	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology II D4A2 'Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy. OI D4B2 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers. O2 D4B2	13:15 - 13:30 13:30 - 13:45			
13:30 - 13:45 13:45 - 14:00	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology II D4A2	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synengistically enhances response to radiation for improved cancer therapy O1 D4B2	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00			
13:30 - 13:45 13:45 - 14:00 14:00 -14:15	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology 11 D4A2 Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, ROI) O1 D4A2	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy O1 D4B2 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2 Kyriakos Sklias -The role of short- and long-lived reactive species on the anti-cancer action	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 -14:15			
13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology 11 D4A2 Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, R01) O1 D4A2 Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coated Surfaces O2 D4A2 Eric Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O3 D4A2 Ivana Sremacki -Potentials of a plasma-aerosol system coupled with drug introduction for wound	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy O1 D4B2 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2 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 11 D4B2 Vladimir Scholtz-The non-thermal plasma and its potential utilization in the treatment of onychomycosis O3 D4B2 Blaise Océane -Cold Atmospheric Plasma Promotes Killing of Staphylococcus aureus by	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30			
13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology 11 D4A2 Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, ROI) O1 D4A2 Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coated Surfaces O2 D4A2 Eric Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O3 D4A2 Ivana Sremacki -Potentials of a plasma-aerosol system coupled with drug introduction for wound healing: in vitro study O4 D4A2	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy O1 D4B2 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2 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 11 D4B2 Vladimir Scholtz-The non-thermal plasma and its potential utilization in the treatment of onychomycosis O3 D4B2 Blaise Océane -Cold Atmospheric Plasma Promotes Killing of Staphylococcus aureus by Macrophages. O4 D4B2 Xiaoliang Yao -Cold Plasma Discharge Tube Enhances Anti-tumoral Efficacy of Temozolomide O5	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45			
13:30 - 13:45 13:45 - 14:00 14:00 -14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology 11 D4A2 Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, ROI) O1 D4A2 Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coated Surfaces O2 D4A2 Eric Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O3 D4A2 Ivana Sremacki -Potentials of a plasma-aerosol system coupled with drug introduction for wound healing; in vitro study O4 D4A2 Theresa Freeman -Cold Plasma Treatment Reduces Osteolytic Bone Resorption O5 D4A2	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy OI D4B2 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2 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 11 D4B2 Vladimir Scholtz-The non-thermal plasma and its potential utilization in the treatment of onychomycosis O3 D4B2 Blaise Océane -Cold Atmospheric Plasma Promotes Killing of Staphylococcus aureus by Macrophages. O4 D4B2 Xiaoliang Yao -Cold Plasma Discharge Tube Enhances Anti-tumoral Efficacy of Temozolomide O5 D4B2	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 - 14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00			
13:30 - 13:45 13:45 - 14:00 14:00 - 14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00 15:00 - 15:15 15:15 - 15:30	Session Chair: Prof. Thomas von Woedtke Steffen Emmert -Clinical Plasma Medicine: From Routine Application in Wound Healing to New Applications in Dermatology 11 D4A2 Theresa Freeman -Developing Plasma based Therapies to combat Orthopaedic Infection - Update from R01 Tripartite (USA, NI, R01) O1 D4A2 Lucie Blahova -Role of Glycocalyx in Cell Adhesion on Plasma Polymer Coated Surfaces O2 D4A2 Eric Robert -Boost of cosmetic active ingredients penetration triggered and controlled by the delivery of non-thermal kHz plasma jet on human skin explants O3 D4A2 Ivana Sremacki -Potentials of a plasma-aerosol system coupled with drug introduction for wound healing in vitro study O4 D4A2 Theresa Freeman -Cold Plasma Treatment Reduces Osteolytic Bone Resorption O5 D4A2 Refreshm	Session Chair: Prof. Robert Short Juliette Harley -Plasma activated liquid synergistically enhances response to radiation for improved cancer therapy. OI D482 Zahra Nasri -The impact of oxidative stress on the barrier properties of lipid bilayers O2 D4B2 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 11 D4B2 Vladimir Scholtz-The non-thermal plasma and its potential utilization in the treatment of onychomycosis O3 D4B2 Blaise Océane -Cold Atmospheric Plasma Promotes Külling of Staphylococcus aureus by Macrophages. O4 D4B2 Xiaoliang Yao -Cold Plasma Discharge Tube Enhances Anti-tumoral Efficacy of Temozolomide O5 D4B2 ent break	13:15 - 13:30 13:30 - 13:45 13:45 - 14:00 14:00 - 14:15 14:15 - 14:30 14:45 - 15:00 15:00 - 15:15 15:15 - 15:30 15:30 - 15:45			
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- Plenary Fundamentals of atmospheric plasmas Plasma agricultural applications Plasma for pharmaceutical applications, biochemical and biomolecular engineering Plasma liquid interactions, plasma activated liquids Plasma medical applications – clinical and animal studies Plasma asources for biomedical applications Plasma-based decontamination and sterilization
- Plasma-cell and plasma-tissue interactions biological and biochemical reactions
 Plasma-surface interactions/modifications for biomedical applications
 Regulatory issues in plasma medicine

	FRIDAY, 1/7					
08:00 - 08:15						
08:15 - 08:30						
08:30 - 08:45	Left Discher Blume Alter Mannehlen die Bauer alle erwendelte BF					
08:45 - 09:00	Julia Bandow -Plasma-driven biocatalysis: challenges and opportunities P5 Room Progress Session Chair Prof. Vandana Miller					
09:00 - 09:15	Session Unair, Pro)i. Vandana Miller	09:00 - 09:15			
09:15 - 09:30	Refreshm	ent break	09:15 - 09:30			
09:30 - 09:45	(30)	min)	09:30 - 09:45			
	Room Mission 1 Session Chair: Prof. Evelien Smits	Room Mission 2 Session Chair: Prof. Katherina Stapelmann				
09:45 - 10:00	Lea Miebach -Conductivity augments ROS and RNS delivery and tumor toxicity of an argon	Sarah-Johanna Klose -Formation of H2O2 in a cold atmospheric pressure plasma jet O1 D5B	09:45 - 10:00			
10:00 -10:15	plasma jet 11 D5A	Pablo Escot-Bocanegra -Cold Plasma in Zero Gravity and Reduced Pressure Conditions for Disinfection and Decontamination in Spacecraft and Aerospace Environments O2 D5B	10:00 -10:15			
10:15 - 10:30	Bruce Locke -Development of a Formic Acid Degrader Cell for Coupling of Gas-Liquid Plasma Chemical Reactors with Enhanced Bioreactors O1 D5A	Andrew Gibson -Control of plasma-chemical processes in atmospheric pressure plasmas for life	10:15 - 10:30			
10:30 - 10:45	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	science-related applications II D5B	10:30 - 10:45			
10:45 - 11:00	Ruben Verloy -Triple co-culture spheroid model of pancreatic cancer for plasma research O3 D5A	Masafumi Ito -Growth Enhancement of Fibroblast Cells Using Quantitively Controlled Nitrie-oxide Radicals O3 D5B	10:45 - 11:00			
11:00 - 11:15			11:00 - 11:15			
11:15 - 11:30						
11:30 -11:45	General assembly, awards ceremony + lectures and announcement of ICPM10 Room Progress Session Chair: Prof. Gerrit Kroesen; Prof. Matteo Gherardi, Prof. Ana Sobota,					
11:45 -12:00	Prof. Romolo Laurita, Prof. Eun-Ha Choi					
12:00 -12:15 12:15 -12:30						
	Legend					
	Plenary					
	Fundamentals of atmospheric plasmas					

Plasma for pharmaceutical applications, biochemical and biomolecular engineering Daema lia liquid interactions, plasma ad Plasma-based decontamination and sterilization Plasma-cell and plasma-tissue interactions - biological and biochemical reactions Plasma-surface interactions/modifications for biomedical applications Regulatory issues in plasma medicine

Poster session MONDAY 27-6-2022

P1 1 Anthony Cordero: Characterization of non-thermal plasma jet kINPen® IND by Optical Emission Spectroscopy

P1 2 Felix Matthias Fuchs: In vitro analysis of the efficacy of an atmospheric dielectric barrier discharge on hidradenitis suppurativa (acne inversa) associated bacteria

P1 3 Maria C. Garcia: Optical Emission Spectroscopy Diagnosis of Helium Cold Atmospheric Plasmas

P1 4 Niklas Nawrath: Influence of nitrogen, oxygen and water admixture on chemical modifications of cysteine by a dielectric barrier discharge

P1 5 Luise Semmler: Assessment of How Modulation of Treatment Time Effects the Outcome of Cold Plasma Treatment in Different Cell Types and Cell States

P1 6 Hiroshi Hashizume: Effectiveness of Plasma Treatment for Various Rice Cultivation

P1 7 Yoshihisa Ikeda: Mechanism of molecular introduction into plant callus by plasma treatment

P1 8 Cristina Muja: Low pressure plasma as a tool in crop molds and mycotoxins management

P1 9 Zuzana Okruhlicová: Effects of plasma activated water on germination and growth of maize

P1 10 Jinjie He: Plasma-activated Water Disinfection of Escherichia coli O157:H7 on Spinach, Kale and Lettuce

P1 11 Anna Machková: Effect of cold plasma treatment on germination and early growth of leguminous plants

P1 12 Nina Recek: Improved germination and yield of corn seeds after treatment with low-pressure oxygen plasma in an industrial reactor

P1 13 Conner Robinson: Harnessing Atmospheric Low Temperature Plasmas Reactive Oxygen-Nitrogen Species for On-Demand Fertilizer Production

P1 14 Mohsen Ahmadi: Potential of Cold Physical Plasma in Prodrug Activation

P1 15 Daniela Boehm: The role of bacterial growth phase in determining the susceptibility to inactivation by plasma activated liquids

P1 16 Tim Dirks: Immobilization protects enzymes from inactivation in plasma-driven biocatalysis

P1 17 Mostafa Elsayed Hassan: Transport of Gaseous Species H2O2, HNO2, NO2, NO, and O3 into Water Microdroplets

P1 18 Kinga Kutasi: RONS enriched alginate hydrosols and hydrogels

P1 19 Beatriz Pinheiro Lopes: Combined effect of Plasma Activated Water and Topotecan on cell growth and cell survival in glioblastoma cells

P1 20 Laura Mc Clenaghan: Investigating the antimicrobial efficacy of plasma activated water against food pathogens and spoilage organisms

P1 21 amaury Rouillard: Continuously Plasma Treated Water Spray for Medical and Cosmetic Applications

P1 22 Calum Thomas Ryan: Particle Image Velocimetry for Plasma-Fluid Interactions

P1 23 Orla Nic Shiurdain: Optimising Plasma functionalised liquids for the prevention and control of device associated and invasive infections

P1 24 Fernando Alba-Elías: Long-term antimicrobial effect of plasma activated water generated with two different plasma-water interactions

P1 25 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 26 Ross Fladeland: Exposure to helium gas discharge tube results in blood brain barrier disruption

P1 27 Kenjirou Onishi: A simple method for establishing cells with higher safety for gene therapy by using surface discharge.

P1 28 Thoralf Bernhardt: Evaluation of Methods for Standardized Testing of Cytotoxicity and Genotoxicity of Cold Plasma Sources for Medical Use

P1 29 Ramona Clemen: Defective wound healing and antimicrobial drug resistance – a target for gas plasma therapy?

P1 30 Mestre Eloïse: Electrical characterization of an argon/CO2 and helium/CO2 plasma jet for wound healing

P1 31 Vladimir Scholtz: Portable Plasma Sources for Biomedical Applications Based on Cometary and Point-to-Ring Corona Discharges

P1 32 Mahreen Khan: Use of low-frequency pulse modulation for control of RF atmospheric pressure helium plasma jet

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 Filippo Capelli: Plasma assisted decontamination of food packaging material

P2 3 Utku Kürşat Ercan: Utilization of a Machine Learning Method for the Prediction of Antimicrobial Activity of Cold Atmospheric Plasma-Activated Liquids

P2 4 Karol Hensel: Effects of cold plasma generated by transient spark discharge on proteins and amino acids in water solutions

P2 5 Carmen Kirner: Viability of commercially available non-thermal atmospheric pressure plasma (APP) sources for decontamination of polypropylene surfaces

P2 6 Emilio Martines: On the Occurrence of Resistance to Helium Plasma Treatment in Bacteria

P2 7 Martina Modic: Investigating the Mechanisms of Plasma Activated Water Deactivation of Medically Important Biofilms

P2 8 Erika Muratov: Analysis of biofilm inactivation mechanisms under cold plasma treatment

P2 9 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 10 Jovana Petkovic: Are bubbles efficient in the production of plasma-treated water?

P2 11 Stephan Reuter: Plasma Tailoring for Pathogen Inactivation

P2 12 Roopesh Mohandas Syamaladevi: Inactivation mechanisms of Listeria monocytogenes during in-package atmospheric cold plasma treatment and post-treat

P2 13 Kristína Trebulová: Impact of cold plasma treatment on the yeast candida glabrata

P2 14 Darina Truchlá: Cold air plasma of streamer corona discharge for decontamination and wound healing

P2 15 Behnaz Bagheri: Molecular dynamics study of effect of oxidation induced by plasma on properties of lipid bilayers

P2 16 Fred Krebs: Immunomodulatory effects of non-thermal plasma in a model of latent HIV-1 infection: Implications for an immunotherapy effective against HI'

P2 17 Jaroslav Kristof: Rat Intestine Cells Absorption of Fluorescein Isothiocyanate–Dextran Induced by Microplasma Treatment

P2 18 Angela Maldonado: Cold atmospheric plasma does not affect stellate cells phenotype in pancreatic tissues in ovo

P2 19 Aurélie Marches: Cold atmospheric helium plasma activates migration but not proliferation of human keratinocytes

P2 20 Jose Moreno Martinez: Application of cytogenetic marker for the quantification of radio-induced damage produced by a pulsed x-ray plasma focus devices

P2 21 Aled Morton: Cold atmospheric plasma for the treatment of intracellularly infected osteoblasts and osteoclasts

P2 22 Kae Nakamura: Immunostimulatory Effect of Plasma-Activated Solutions in the Intraperitoneal Environment of Ovarian Cancer

P2 23 Slavomír Pásztor: Chemical Analysis of Four Types of Plasma Activated Liquid Stored at Different Temperatures and Neutrophils Treated by PAL

P2 24 Yokoyama Ryo: Study on Control of Macromolecular Drug Transfer to Epithelial Cells Using Non-Invasive Microplasma

P2 25 Ilva Noa Stellingwerf: Cancer cell metabolism and cold atmospheric plasma treatment

P2 26 Shu Xiao: Nanosecond Pulses Delivered by Plasma Streamer Channels Modulate Cell Response in Space (in-vitro Study)

P2 27 Mohamed Boudifa: On the effect of atmospheric plasma jet on 3D printing of hydrogels for tissue engineering

P2 28 Amy Crisp: Polyethylene Oxide Coatings Towards the Prevention of Biofilm Development

P2 29 Chloe Frewen: Deposition of an anti-adherent coating onto implant surfaces using Low Temperature Plasma.

P2 30 Laurine Martocq: Allylamine Plasma Polymer Coatings for Biomedical Applications

P2 31 Aysegul Uygun Oksuz: POLYMER BASED SURFACE MODIFICATION USING CAP

P2 32 Alessio Quadrelli: Surface-regulated growth of TEMPO plasma polymers

P2 33 Nikola Skoro: Cold Atmospheric Plasma treatment of dentin substrate for adhesive dental procedures

P2 34 Lenka Zajíčková: Copper-coated Polymer Nanofibers for Antibacterial and Antiviral Applications

P2 35 Konstantinos Papangelis: Characterisation of a Cold Atmospheric Pressure Plasma Torch for Medical Applications: Demonstration of Device Safety