

Program at Glance – Morning

TIME	MON (Sep 5)		TUE (Sep 6)		WED (Sep 7)		THU (Sep 8)		FRI (Sep 9)	
	Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B
9 00	Welcome and opening		J. Kolb		R. Short		M. Gherardi		V. Miller	
	S. Toyokuni									
10 00	P. Celec	J. Winter	M. Jaro szeski	G. Fridman	S. Nishi hara	A. Baitukha	L. Jablo nowski	B. Gilmore	K. Rödder	J. Bene dikt
		K. Horn		D. Liu		M. Wert heimer			B. Honnorat	
	D. Graves	T. Taka matsu	Y. Yama nishi	P. Bourke	T. Freeman	P. Favia	G. Serša	A. Mai-Prochnow	N. Kaushik	Special lectures PMA ECAPM winners
	Coffee break		Coffee break		Coffee break			Coffee break		
11 05	P. Ranieri	A. Mesbah	K. Masur	K.S. Oh	K. Ostrikov	A. Liguori	H.R. Metel mann	J.-Y. Maillard	J. Bandow	G. Naidis
	R. Tero			S. Kyzek		F. Arefi-Khonsari	K. Mizuno		J. Lackmann	
	N. Cher nets	M. Janda	Š. Kubínová	N. Puač	O. Lunov	H. Bieder man	M. Keidar	J. Pawlat	J.H. Park	A. Lietz
		T. Darny	B. Boekema		A. Stancam piano		General assembly		L. O'Neill	M. Yusupov
12 05	K. Wende	S. Iséni	U. Cvelbar	B. Niemira	Lunch		Group photo		S. Maheux	T. Murakami
	I. Trizio		E. Martines						Closing	
13 30	Lunch		Lunch		Conference trip		Lunch		Lunch	

TIME	MON (Sep 5)		TUE (Sep 6)		WED (Sep 7)		THU (Sep 8)		FRI (Sep 9)	
	Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B
9:00	Welcome and opening		2 Cells and tissues		6 Surface interactions and functionalization		1-2 Dentistry		2 Immune response	
	2 RONS and oxidative stress									
9:15	8 Plasma sources		1-2 Gene transfer		2 Cells and tissues		1-2 Cancer in vivo		9 Plasma diagnostics	
9:45	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biofilms		Special lectures PMA ECAPM winners	
10:00	Coffee break		Coffee break		Coffee break		Coffee break		Coffee break	
	2 RONS and oxidative stress		1 Skin and wounds		2 Cells and tissues		1-2 Cancer in vivo		2 Biomolecules	
10:15	7 Fundamentals of atmospheric plasmas		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
10:30	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
10:45	Coffee break		Coffee break		Coffee break		Coffee break		Coffee break	
	2 RONS and oxidative stress		1 Skin and wounds		2 Cells and tissues		1-2 Cancer in vivo		2 Biomolecules	
11:05	7 Fundamentals of atmospheric plasmas		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
11:35	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
12:05	Coffee break		Coffee break		Coffee break		Coffee break		Coffee break	
	2 RONS and oxidative stress		1 Skin and wounds		2 Cells and tissues		1-2 Cancer in vivo		2 Biomolecules	
12:20	7 Fundamentals of atmospheric plasmas		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
12:35	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
	2 RONS and oxidative stress		4 Agriculture and food		6 Surface interactions and functionalization		3 Biodecontam.		10 Modeling and simulations	
13:00	Lunch		Lunch		Lunch		Lunch		Lunch	
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00:00	Lunch		Lunch		Lunch		Lunch		Lunch	
	Lunch		Lunch		Lunch		Lunch		Lunch	

Program at Glance – Afternoon

TIME	SUN (Sep 4)	MON (Sep 5)		TUE (Sep 6)		WED (Sep 7)		THU (Sep 8)	
		Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B
14 00 15 30 45		S. Bekeschus	M. Laroussi	Y. Ikehara	P. Lukeš	Conference trip		L. Mir	A. Cochis
		J. Chauvin		M. Jacofsky				U.K. Ercan	
		H. Tanaka	G. Busco	P. Brun	T. von Woedtke			N. Shimizu	K. Kitano
			T. Shimizu		F. Girard			I. Topala	
15 00 15 30 45		K. Ishikawa	D. O'Connell	M.G. Kong	H. Jablonowski			C. Canal	E. Sysolyatina
		R. Furuta		J. van der Linde	B. Tarabová			S. Hasse	
		P.M. Girard	T. Sato	K. Shimizu	D. Boehm			Coffee break	
		E.H. Choi	O. Stepanova		E. Szili				
16 00 20	Registration	Coffee break		Coffee break		Poster session 3			
		Poster session 1		Poster session 2					
17									
18 00	Welcome reception	Special session A Dosimetry in plasma medicine	Special session B Are you ready for your future?	ISPM board mtg					
19 00						Conference dinner			

TIME	SUN (Sep 4)	MON (Sep 5)		TUE (Sep 6)		WED (Sep 7)		THU (Sep 8)					
		Room A	Room B	Room A	Room B	Room A	Room B	Room A	Room B				
14 00		2 Plasma activated water/media (PAW/PAM) and cells	8 Plasma sources	1 Skin and wounds	9 PAW + RONS diagnostics	Conference trip	Conference trip	1-2 Cancer cells and tissues	3 Biodecontamination				
15													
30													
45													
15 00				1-2-5 Transdermal drug delivery						Coffee break			
15 15										Poster session 3			
30													
45													
16 00	Registration	Coffee break		Coffee break									
16 20		Poster session 1		Poster session 2									
17 00													
18 00	Welcome reception	Special session A Dosimetry in plasma medicine	Special session B Are you ready for your future?		ISPM board mtg								
19 00									Conference dinner				

Program in Detail

Monday, September 5 - Morning

09:00	Welcome and opening		09:00
	2 RONS and oxidative stress Room A Chairperson: S. HAMAGUCHI		
09:15	P-1 Shinya TOYOKUNI Insight into chemical reaction mechanism in plasma medicine from viewpoints of oxidative stress		09:15
	2 RONS and oxidative stress Room A Chairperson: S. HAMAGUCHI	8 Plasma sources Room B Chairperson: J. BENEDIKT	
10:00	I-1 Peter CELEC Oxidative stress - sources, consequences and its role in the pathogenesis of diseases	O-12 Jörn WINTER Challenges and solutions on the way to a deployable plasma endoscope	10:00
		O-13 Kerstin HORN Screening test of a new pulsed mini-plasma-jet for medical application	10:15
10:30	O-1 David GRAVES Biological effects of cold atmospheric plasma: Current status	O-14 Toshihiro TAKAMATSU Development of atmospheric non-thermal plasma sources created by 3D printer for medical application	10:30
10:45	Coffee break		10:45
	2 RONS and oxidative stress Room A Chairperson: D. GRAVES	7 Fundamentals of atmospheric plasmas Room B Chairperson: V. COLOMBO	
11:05	O-2 Pietro RANIERI Propagation of plasma effects into tissue: Cell-to-cell signaling or direct ROS effects?	I-4 Ali MESBAH Model predictive control of atmospheric pressure plasmas	11:05
11:20	O-3 Ryugo TERO Degeneration of artificial cell membranes induced by plasma-generated reactive oxygen species		11:20
11:35	I-2 Natalie CHERNETS Deciphering plasma/tissue interactions to develop appropriate medical treatments	O-15 Mário JANDA Antimicrobial NO _x generated by transient spark in atmospheric dry air and air with water electrospray	11:35
		O-16 Thibault DARNY Conductive target influence on helium metastable production in a μ s plasma gun discharge	11:50
12:05	O-4 Kristian WENDE On the chemistry of remote effects of non-thermal plasmas	I-5 Sylvain ISÉNI Electric field characterization of plasma gun and multi-jet plasma arrays	12:05
12:20	O-5 Ilaria TRIZIO DBD-generated RONS in biological liquids for 2D and 3D in vitro studies on eukaryotic cells		12:20

Monday, September 5 - Afternoon

12:35	Lunch		12:35
	2 Plasma activated water/media and cells Room A Chairperson: T. FREEMAN		8 Plasma sources Room B Chairperson: K.-D. WELTMAN
14:00	O-6 Sander BEKESCHUS Cold physical plasma-treated medium demonstrates antitumor activity against pancreatic cancer cells <i>in vitro</i> and <i>in vivo</i>	I-6	14:00
14:15	O-7 Julie CHAUVIN Investigation of cell death mechanisms of 3D multicellular tumor spheroids (MCTS) after contact with a plasma activated medium	Mounir LAROUSI Low temperature plasma jets and their interactions with biological cells and media	14:15
14:30	I-3 Hiromasa TANAKA Pharmaceutical applications and biochemical/biomolecular engineering with plasmas	O-17 Giovanni BUSCO Study of chemico-physical properties of a He plasma gun in the context of skin physioxia for cosmetical applications	14:30
		O-18 Tetsuji SHIMIZU Surface micro-discharge plasma for disinfection	14:45
15:00	O-8 Kenji ISHIKAWA Metabolic profiles on glioblastoma (U251SP) modified in PAM	I-7 Deborah O'CONNELL Characterising a COST reference microplasma jet for biomedical applications	15:00
15:15	O-9 Ryo FURUTA Dynamic behavior of HeLa cells in plasma-activated medium		15:15
15:30	O-10 Pierre-Marie GIRARD Synergistic effect of H ₂ O ₂ and NO ₂ in cell death induced by cold atmospheric He plasma	O-19 Takehiko SATO Development of small sterilization device using LT plasma flow at atmospheric pressure	15:30
15:45	O-11 Eun Ha CHOI Plasma activated water Induced the activation of FOXO3 signaling caused cell death of squamous (A349) carcinoma	O-20 Olga STEPANOVA Bactericidal action of DBD plasma jet in helium at varying average discharge power	15:45
16:00	Coffee break		16:00
16:20	P1 Poster session 1		16:20
	Room A Chairperson: V. MILLER Moderator: A. ROUSSEAU		Room B Chairperson: N. CHERNETS
18:00	Special session A Dosimetry in plasma medicine (panelists: A. Fridman, J.-M. Pouvesle, K.-D. Weltmann)	Special session B Are you ready for your future? (for PhD students and postdocs)	18:00

Tuesday, September 6 - Morning

2 Cells and tissues		Room A	Chairperson: J.-M. POUVESLE	
09:00	P-2	Jürgen KOLB Cell to cell communication affected by electric pulses and plasmas		09:00
1-2 Gene transfer Room A Chairperson: J.-M. POUVESLE		4 Agriculture and food Room B Chairperson: E.H. CHOI		
09:45	I-8	Mark JAROSZESKI Plasmid DNA delivery using a nonthermal helium plasma in a murine model	O-29 Gregory FRIDMAN Non-equilibrium gliding arc discharge plasma-activated water in plasma agriculture: Pathogen control	09:45
			O-30 Dongping LIU Atmospheric-pressure air microplasmas for agricultural applications	10:00
10:15	O-21	Masafumi JINNO Synergistic effect between electrical and chemical factors in plasma gene transfection	I-11 Paula BOURKE Potential of atmospheric cold plasma for food preservation and processing	10:15
10:30	O-22	Yoko YAMANISHI Gene transfer by circulating plasma-bubble flow		10:30
10:45	Coffee break			10:45
1 Skin and wounds Room A Chairperson: R. SHORT		4 Agriculture and food Room B Chairperson: M. SHIRATANI		
11:05	I-10	Kai MASUR Cold plasma mediated influence on cellular redox balance to support wound healing	O-31 Kyoung Suk OH Effect for the GABA accumulation of brown rice using the plasma and the plasma discharged water	11:05
			O-32 Stanislav KYZEK Monitoring of the potential genotoxic effect of low temperature plasma in pea seeds	11:20
11:35	P2-13	Šárka KUBINOVÁ Non-thermal air plasma in skin wound healing	I-12 Nevena PUAČ Plasma treatment in seed germination	11:35
11:50	P1-56	Bouke BOEKEMA <i>In vitro</i> efficacy and safety of a new flexible volume DBD device for the treatment of diabetic foot ulcers		11:50
12:05	O-23	Uroš CVELBAR Safety level of atmospheric pressure jet skin treatment	I-13 Brendan NIEMIRA Cold plasma as a novel intervention against food-borne pathogens	12:05
12:20	O-24	Emilio MARTINES Plasma treatment of sheep skin wounds in veterinary medicine		12:20

Tuesday, September 6 - Afternoon

12:35	Lunch		12:35
	1-2 Skin and wounds Room A Chairperson: U. CVELBAR	9 PAW + RONS diagnostics Room B Chairperson: M. HORI	
14:00	O-25 Yuzuru IKEHARA Mechanism of blood coagulation induced by plasma treatment in addition to the acceleration of the natural blood coagulation process	I-16 Petr LUKEŠ Diagnostics of reaction kinetics in air plasma treated liquids	14:00
14:15	O-26 Marc C. JACOFKY Hemostasis with tissue preservation using the Plaz4™ atmospheric pressure plasma jet <i>in vivo</i>		14:15
14:30	I-14 Paola BRUN Mechanisms of wound healing and disinfection in a plasma source for the treatment of corneal infections	O-33 Thomas von WOEDTKE The redox potential in liquids as possible parameter to estimate and compare biological plasma effects	14:30
		O-34 Fanny GIRARD Combining spectro-electrochemical methods to characterize the RONS generated in physiological buffer exposed to diffuse cold atm. plasmas	14:45
15:00	O-27 Michael Gangyu KONG An evaluation of a CAP-based treatment of psoriasis	O-35 Helena JABLONOWSKI Plasma induced reactive oxygen species in biorelevant liquids: different species have various origins	15:00
15:15	P2-9 Julia van der LINDE Repeated cold atmospheric plasma application to intact skin causes no sensitization in vivo - an OECD protocol	O-36 Barbora TARABOVÁ Challenges of RONS detection in air plasma activated solutions by colorimetric and fluorescent based assays	15:15
	1-2-5 Transdermal drug delivery	O-37 Daniela BOEHM Plasma activated liquids show distinct biocidal effects between microbial and mammalian cells	15:30
15:30	I-15 Kazuo SHIMIZU Feasibility study of plasma drug delivery for improving precutaneous absorption of skin	O-38 Endre SZILI Effect of sparging in plasma medicine	15:45
16:00		Coffee break	
16:20	P2 Poster session 2		16:20
18:00		ISPM board meeting	18:00

Wednesday, September 7

09:00		6 Surface interactions Room A Chairperson: F. AREFI-KHONSARI	09:00
		P-3 Robert SHORT Opportunities for plasma technologies in cell therapy and wound healing	
09:45		2 Cells and tissues Room A Chairperson: J. BANDOW	6 Surface interactions and functionalization Room B Chairperson: F. AREFI-KHONSARI
		I-17 Shoko NISHIHARA Atmospheric-pressure plasma irradiation on embryonic stem cells: signals and differentiation	O-43 Alibi BAITUKHA Carboplatin drug delivery systems prepared by catalyst free PECVD reactor for biomedical application
			O-44 Michael R. WERTHEIMER Chemical aspects of endothelial cell adhesion and growth for vascular grafts
		O-39 Theresa FREEMAN Tissue growth, repair and regeneration due to ASK1 inhibition is further enhanced by cold atmospheric dielectric barrier discharge treatment	I-19 Pietro FAVIA Surface modification plasma processes for advanced biomedical applications
		O-40 Shota SASAKI Interaction between plasma-activated calcium ion channel and uptake of drug-simulated molecule	
10:45		Coffee break	
11:05		2 Cells and tissues Room A Chairperson: M. KEIDAR	6 Surface interactions and functionalization Room B Chairperson: P. FAVIA
		I-18 Kostya (Ken) OSTRIKOV Plasma, cell and cancer	O-45 Anna LIGUORI Non-equilibrium atmospheric pressure plasma technology for anti-CD 10 antibody immobilization on PLLA nanofibres
			O-46 Farzaneh AREFI-KHONSARI Deposition of thin films using a transporting discharge at atmospheric pressure
		O-41 Oleg LUNOV Towards the understanding of non-thermal plasma effects on bacteria and mammalian cells	I-20 Hynek BIEDERMAN Plasma surface modification for biomedical applications
		O-42 Augusto STANCAMPIANO Effect of cold atmospheric plasma on human papillomavirus type 16 infected keratinocytes	
12:05		Lunch	
13:30		Conference trip	

Thursday, September 8 - Morning

	1-2 Dentistry Room A Chairperson: M. LAROUSI		
09:00	P-4 Matteo GHERARDI Plasma treatment in dentistry		09:00
	1-2 Dentistry Room A Chairperson: M. LAROUSI	3 Biofilms Room B Chairperson: S. ERMOLAEVA	
09:45	O-47 Lukasz JABLONOWSKI Atmospheric pressure plasma application in the oral cavity: Short term experiments in mice	I-23 Brendan GILMORE Controlling bacterial biofilm and virulence using non thermal plasmas	09:45
10:00	O-48 Bruno HONNORAT Therapeutic effect of cold atmospheric plasma on oral cavity squamous cell carcinomas		10:00
	1-2 Cancer <i>in-vivo</i>		
10:15	I-21 Gregor SERŠA Anti-vascular effects of electroporation - implications for electrochemotherapy and gene therapy	O-56 Anne MAI-PROCHNOW Cold plasma treatment of single- and mixed- species biofilms	10:15
10:30		O-57 Zuzana KOVAL'OVÁ Biofilm thickness and biomass reduction after treatment with DC air corona discharges	10:30
10:45	Coffee break		10:45
	1-2 Cancer <i>in-vivo</i> Room A Chairperson: E. ROBERT	3 Biodecontamination Room B Chairperson: B. GILMORE	
11:05	O-49 Hans-Robert METELMANN Cancer treatment and physical plasma: A clinical phase-I-study concept and first results	I-24 Jean-Yves MAILLARD Bacterial spore structures and their protective role in biocide resistance	11:05
11:20	O-50 Kazuo MIZUNO Nanosecond pulsed streamer discharge delayed the tumor growth at unirradiated sites <i>in vivo</i>		11:20
11:35	O-51 Michael KEIDAR Toward understanding the selective anti-cancer capacity of cold atmospheric plasma - an aquaporins-based model		11:35
11:50	O-58 Joanna PAWŁAT Comparison of RONS generation and biodecontamination by AP plasma sources: transient spark, mini glide-arc and DBD jet		11:50
11:50	General assembly		11:50
12:20	Group photo		12:20

Thursday, September 8 - Afternoon

12:35	Lunch		12:35
	1-2 Cancer cells and tissues Room A Chairperson: R. SATAVA	3 Biodecontamination Room B Chairperson: A. MIZUNO	
14:00	I-22 Lluís MIR Pulsed electric field effects on cells and associated cancer treatments	O-59 Andrea COCHIS Effective decontamination of soft relime-based oral cancer shutters by means of non-thermal atmospheric plasma	14:00
14:15		O-60 Utku Kürşat ERCAN Evaluation of antimicrobial activity of nebulized plasma-treated liquids for control of ventilator associated pneumonia	14:15
14:30	O-52 Nobuyuki SHIMIZU Systematization of the mechanism by which plasma irradiation causes cell growth and tumor cell death	I-25 Katsuhisa KITANO Identification of chemical species for bactericidal effects of cryo-preserved plasma treated water	14:30
14:45	O-53 Ionuț TOPALĂ Viability and cell biology for HeLa and VERO cells after exposure to low temperature air DBD plasma		14:45
15:00	O-54 Cristina CANAL Atmospheric pressure plasma jet selectivity towards bone cancer	I-26 Elena SYSOLIATINA Cold plasma against mycoplasma, a cell-wall-deficient membrane parasite of eukaryotic cells	15:00
15:15	O-55 Sybilie HASSE Cold argon plasma as an adjuvant therapy option in progressive head and neck cancer - results of a preclinical study		15:15
15:30	Coffee break		15:15
15:50	P3 Poster session 3		15:50
19:00	Conference dinner		19:00

Friday, September 9

09:00	2 Immune response Room A Chairperson: A. FRIDMAN		9 Plasma diagnostic Room B Chairperson: M.G. KONG		09:00
	<p>P-5</p> <p style="text-align: center;">Vandana MILLER</p> <p style="text-align: center;">Plasma onco-immunotherapy: The future of cancer treatment?</p>				
09:15	O-61	Katrin RÖDDER Cold plasma treatment of murine cancer cells triggers immunogenic responses in splenocytes <i>ex vivo</i>	I-28	Jan BENEDIKT Molecular beam mass spectrometry and vacuum UV spectroscopy of atmospheric pressure plasmas	09:15
10:00	O-62	Yosky KATAOKA Effect of atmospheric-pressure plasma irradiation on the central nervous system of adult rats			10:00
10:15	I-27	Nagendra KAUSHIK Immuno-modulatory effect of bio-plasma and its application in cancer treatment	Special lectures Plasma Medicine Award and Early Career Award in Plasma Medicine winners		10:15
10:45	Coffee break				10:45
	2 Biomolecules Room A Chairperson: T. von WOEDTKE		10 Modelling and simulations Room B Chairperson: M. YOUSFI		
11:05	O-63	Julia BANDOW Plasma-based inactivation of proteins	I-29	George NAIDIS Production of reactive species in cold atmospheric-pressure plasma jets	11:05
11:20	O-64	Jan-Wilm LACKMANN Cysteine as a model for comparing the impact of plasmas on biological samples			11:20
11:35	O-65	Ji Hoon PARK Effect of cold atmospheric plasma and ns pulsed plasma on protein folding and deactivation of drug resistance bacteria	O-68	Amanda LIETZ Impact of electrode placement on RONS production in atmospheric pressure plasma jets	11:35
11:50	O-66	Liam O'NEILL Deposition of biomolecules via non-thermal plasma devices	O-69	Maksudbek YUSUPOV Effect of electric field on pore formation in model systems for lipid membrane and skin barrier: A molecular dynamics study	11:50
12:05	O-67	Simon MAHEUX Effect of small unilamellar liposome composition on their degradation mechanism in physiological liquids by ns pulsed cold atmospheric plasma	O-70	Tomoyuki MURAKAMI Modelling of plasma interaction with gas-liquid interface	12:05
12:20	Closing				12:20
12:35	Lunch				12:35