

## Program of Plasma Bio Tutorial

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23rd June. 2024 (Sunday), #310, 80 <sup>th</sup> Anniv. Hall, KWU	
13:00 ~ 13:10	<b>Welcome School Lecture Remarks</b> <b>Prof. Eun Ha Choi Chairman of ISPB14</b>
13:10 ~ 14:10	Tutorial 1 Plasma bioscience and application(TBD) <b>Prof. Eun Ha Choi (Kwangoon University)</b>
14:10 ~ 14:20	Tea break
14:20 ~ 15:20	Tutorial 2 Agricultural and Food application using nonthermal plasma(TBD) <b>Prof. Alexander Fridman (Nyheim Chair Professor, MEM, Drexel University)</b>
15:20 ~ 15:30	Tea break
15:30 ~ 16:30	Tutorial 3 Generation of Nitrogen Atoms and their Application to Methane Dissociation <b>Prof. Han Sup Uhm(KwangWoon University)</b>
16:30 ~ 16:40	Tea break
16:40 ~ 17:40	Tutorial 4 Plasma application to food industry (TBD) <b>Prof. Gyungsoon Park (Kwangwoon University)</b>
17:40 ~ 17:50	<b>Closing remarks</b>
17:50 ~	<b>Welcome Reception (2F, Lobby)</b>

## Program of ISPB14

24th June. 2024 (Monday), #310, 80 <sup>th</sup> Anniv. Hall, KWU	
09:00 ~ 09:10	<b>Registration</b>
09:10 ~ 09:30	Welcome ISPB14 remark Eun Ha Choi
<b>Mo1</b>	<b>Session 1</b> <b>(Chairman : Eun Ha Choi)</b>
09:30 ~ 10:10	Plenary Talk 1 <b>Biological interactions of plasma-activated solutions</b> Prof.Hiromasa Tanaka (Nagoya University, Japan)
10:10 ~ 10:30	Tea Break
10:30 ~ 11:00	(Invited Talk1) Evaluation of cold atmospheric-pressure plasma induced short- and long-lived reactive oxygen and nitrogen species Jun-Seok Oh (Osaka Metropolitan University, Japan)
11:00 ~ 11:30	(Invited Talk2) Hydroxyl radical distribution in the Ar plasma jet by laser induced florescence Jun Sup Lim (Kwangwoon University, Korea)
11:30 ~ 13:00	Lunch Time
<b>Mo2</b>	<b>Session 2</b>
13:00 ~ 13:30	(Invited Talk3) The roles of aqueous biofilms in pathogen inactivation by atmospheric pressure cold plasmas Dongping Liu (Dalian University, China)
13:30 ~ 14:00	(Invited Talk4) Research on Environmental Application of Plasma Technology in KFE-IPT Yong Sup Choi (KFE-IPT, Korea)
14:00 ~ 14:20	Tea Break
14:20 ~ 14:50	(Invited Talk5) Understanding Nitrous and Nitric acids Formation in Plasma-Treated Water: Decisive Role of Nitrogen Oxides (NO <sub>x</sub> =1-3) Sanghoo Park (KAIST, Korea)
14:50 ~ 15:20	(Invited Talk6) Plasma-Activated Media for Wet-Soft Surface Treatments of Metal Oxide Semiconductor Films in Atmospheric Conditions for Biosensors Byoungchoo Park (Kwangwoon University, Korea)
15:20 ~ 15:40	Tea Break
<b>Mo3</b>	<b>Session 3</b>
15:40 ~ 16:10	(Invited Talk7) Immunoassay using optical techniques for high-performance point-of-care testing Kihyeun Kim (GIST, Korea)
16:10 ~ 16:40	(Invited Talk8) Plasma-based Technology for Modern Farming Neha Kaushik (The University of Suwon, Korea)
16:40 ~ 17:40	ISPB special talk

	Progress report of IEC 60601-2-91, WG41, TC62D: Particular standard for basic safety and essential performance of plasma wound treatment ME Eun Ha Choi
<b>17:40 ~ 19:00</b>	<b>Poster session 1 (2F, Lobby)</b>

<b>25th June. 2024 (Tuesday), #310, 80<sup>th</sup> Anniv. Hall, KWU</b>	
<b>Tu1</b>	<b>Session 4</b>
<b>9:00 ~ 9:30</b>	(Invited Talk9) Elucidating the Anti-Proliferative Mechanism of Cold Atmospheric Plasma: Involvement of Noncoding RNAs in Breast Cancer Cells Sun Jung Kim (Dongguk University, Korea)
<b>9:30 ~ 10:00</b>	(Invited Talk10) Atmospheric pressure air plasma sources and their applications Xinpei Lu (HuaZhong University of Science and Technology, China)
<b>10:00 ~ 10:30</b>	(Invited Talk11) Quantification of RONS introduced into seeds by atmospheric pressure plasmas. Kazunori Koga (Kyushu University, Japan)
<b>10:30 ~ 10:50</b>	Tea Break
<b>10:50 ~ 11:20</b>	(Invited Talk12) Plasma-Generated Nitric Oxide Water for Biological Applications: Pathogen Inactivation, Nano-biotechnology, and Cosmetic Innovations Nagendra Kaushik (Kwangwoon Univ.,Korea)
<b>11:20 ~ 11:50</b>	(Invited Talk13) The Affected Of Non-thermal Plasma Jet at Atmospheric Pressure To Cytotoxicity Effect On Candida albicans Pradoong Suanpoot (Maejo University, Chiang Mai)
<b>11:50 ~ 13:00</b>	Lunch Time
<b>13:00 ~ 17:00</b>	<b>Excursion</b>
<b>17:00 ~</b>	<b>Banquet</b>

26th June. 2024 (Wednesday), #310, 80 <sup>th</sup> Anniv. Hall, KWU	
<b>We1</b>	<b>Session 5</b>
<b>9:30 ~ 10:10</b>	Plenary Talk 2 Input of bactericidal and regenerative effects in wound healing upon non-thermal plasma treatments Prof. Svetlana Ermolaeva (Microbiology, Sechenov Medical University, Russia)
<b>10:10 ~ 10:40</b>	(Invited Talk14) Plasma Promotion on Rice Growth and Multi-omics Analysis Feng Huang (China Agricultural University, China)
<b>10:40 ~ 10:50</b>	Tea Break
<b>10:50 ~ 11:20</b>	(Invited Talk15) Plasma application to soil microorganisms Gyungsoon Park (Kwangwoon Univ.,Korea)
<b>11:20 ~ 11:50</b>	(Invited Talk16) Approach to study the effects of cold plasma in combination with biostimulants on faba bean ( <i>Vicia faba</i> L.) Henrike Brust (INP, Germany)
<b>11:50 ~ 13:00</b>	Lunch Time
<b>We2</b>	<b>Session 6</b>
<b>13:00 ~ 14:00</b>	<b>Poster session 2 (2F, Lobby)</b>
<b>14:00 ~ 14:30</b>	(Invited Talk17) Anti-cancer property of non-thermal plasma activated medium in lung cancer stem-like cell by targeting peroxiredoxin 5 Hu-Nan Sun (Heilongjiang Bayi Agricultural University, China)
<b>14:30 ~ 15:00</b>	(Invited Talk18) Utilization of plasma technology in agriculture Mi Ja Lee (National Institute of Crop Science, Rural Development Administration, Korea)
<b>15:00 ~ 15:10</b>	Tea break
<b>We3</b>	<b>Session 7</b>
<b>15:10 ~ 15:40</b>	(Invited Talk19) Effective Degradation of Pharmaceutical Compounds in Sequential DBD Plasma Using 3-Electrode Fenton Electrolysis Min Jang (Kwangwoon University, Korea)
<b>15:40 ~ 16:10</b>	(Invited Talk20) Synergistic effect of cold plasma and sulfate radical advanced oxidation process in the efficient removal of dyes from aqueous solutions Jae-Kyu Yang (Kwangwoon University, Korea)
<b>16:10 ~ 16:30</b>	Tea break

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<b>16:30 ~ 17:00</b>	(Invited Talk21) Particular Standards of non-thermal plasma wound treatment equipment Jin Sung Choi (Kwangwoon Univ.,Korea)
<b>17:00 ~ 17: 20</b>	Break
<b>17:20 ~ 18:00</b>	Poster Award & Closing Declaration Eun Ha Choi, Chairman of ISPB14