

**[FrB4] Plasma Agricultural Applications****Date / Time** August 6 (Fri.), 2021 / 14:35-16:00**Channel** Channel B**Session Chair** Prof. Gyungsoon Park (Kwangwoon Univ., Korea)**FrB4-1****14:35-15:00****[Invited]****Selected Applications of Low Temperature Atmospheric Pressure Plasmas for Agriculture, Food Technology and Medicine**Joanna Pawlat<sup>1</sup>, Piotr Terebun<sup>1</sup>, Michał Kwiatkowski<sup>1</sup>, Barbara Chudzik<sup>3</sup>, Marek Kopacki<sup>2</sup>, Agata Przekora<sup>4</sup>, Grażyna Ginalska<sup>4</sup>, Agnieszka Starek<sup>2</sup>, Zdenko Machala<sup>5</sup>, and Karol Hense<sup>5</sup><sup>1</sup>Lublin Univ. of Tech., Poland, <sup>2</sup>Univ. of Life Sciences in Lublin, Poland, <sup>3</sup>Maria Curie– Skłodowska Univ., Poland, <sup>4</sup>Medical Univ. of Lublin, Poland, <sup>5</sup>Comenius Univ., Slovakia**FrB4-2****15:00-15:15****Effects of Plasma Treated Air and Plasma Treated Water on Plant Seed Germination and Inactivation Potential of Bacterial Cells and Spores**

Henrike Brust, Nicola Wannicke, Jasmin Werner, Sabine Bousselmi, Robert Wagner, Jörg Stachowiak, Jörg Ehlbeck, and Klaus-Dieter Weltmann

*INP Greifswald, Germany***FrB4-3****15:15-15:30****Effect of Atmospheric Cold Plasma Treatment on Cereal Food Allergens**Sing Wei Ng<sup>1</sup>, Peng Lu<sup>1</sup>, Daniela Boehm<sup>2</sup>, and Paula Bourke<sup>1,2</sup><sup>1</sup>Univ. College Dublin, Ireland, <sup>2</sup>Technological Univ. Dublin, Ireland**FrB4-4****15:30-15:45****Plasma Activated Water as Novel Resistance Inducer for Plants in Greenhouse and Open Field**

Alina Bisag, Enrico Biondi, Alessandro Canel, Vittorio Colombo, Nicoletta Contaldo, Matteo Gherardi, Romolo Laurita, Set Perez, Yuri Zambon, and Assunta Bertaccini

*Alma Mater Studiorum-Univ. of Bologna, Italy***FrB4-5****15:45-16:00****Effect of Atmospheric Pressure DBD on Physio-chemical and Microbial Parameters of Groundwater and its Use in Agriculture**

Rajesh Prakash Guragain, Bishnu Prasad Pandey, and Deepak Prasad Subedi

*Kathmandu Univ., Nepal*