

[FrA4] Plasma-based Decontamination and Sterilization**Date / Time** August 6 (Fri.), 2021 / 14:35-16:00**Channel** Channel A**Session Chair** Dr. Eric Robert (Gremi CNRS Universite d`Orrleans, France)**FrA4-1****14:35-15:00****[Invited]****Plasma Systems and Processes for the Containment of SARS-CoV-2 Diffusion through Bioaerosol and Fomite Routes**

Romolo Laurita, Alina Bisag, Pasquale Isabelli, Cristiana Bucci, Filippo Capelli, Giorgio Dirani, Matteo Gherardi, Giulia Laghi, Alessandro Paglianti, Vittorio Sambri, Silvia Tappi, Pietro Rocculi, Elisabetta Suffredini, and Vittorio Colombo
Alma Mater Studiorum-Università di Bologna, Italy

FrA4-3**15:00-15:15****Non-equilibrium Atmospheric Pressure Plasma Assisted Inactivation of Bioaerosols**

Pasquale Isabelli^{1,3}, Alina Bisag¹, Cristiana Bucci¹, Filippo Capelli^{1,2}, Giulia Laghi¹, Vittorio Colombo^{1,2,3,4}, Matteo Gherardi^{1,2,3}, and Romolo Laurita^{1,2,3}

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FrA4-4**15:15-15:30****Combined Modeling Approach to Study the Interaction of a Cold Plasma Jet with Solid Tumors**

Kristaq Gazeli¹, Constantinos Lazarou¹, Odhisea Gazeli¹, Myrianthi Hadjicharalambous¹, Charalambos Anastassiou¹, Vasileios Vavourakis^{1,2}, Panagiotis Svarnas³, George E. Georghiou¹

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FrA4-5**15:30-15:45****Direct Plasma Deposition of Collagen for Cell Culture**

Denis O Sullivan^{1,2}, Liam O'Neill¹, and Paula Bourke²

¹Ballingarrane Science and Tech. Park Clonmel, Ireland, ²Univ. College Dublin, Ireland

FrA4-2**15:45-16:00****Evaluation of the Mutagenic Effects of Cold Atmospheric Plasma Jet Treatment on *Escherichia Coli* Relative to Other Known Mutagens**

Bethany Patenall¹, Hollie Hathaway², Naing The¹, Amber Young³, Sarah Allinson², Robert Short², and Toby Jenkins¹

¹Univ. of Bath, UK, ²Univ. of Lancaster, UK, ³Bristol Royal Infirmary