

6th international conference on plasma medicine

icpm⁶

September 4-9, 2016, Bratislava, Slovakia

Plasma Medicine is a new, rapidly growing field targeting fundamental questions on the mechanisms of interaction between living organisms and gas plasmas. The conference creates a multidisciplinary forum bringing together professionals from the fields of plasma physics, medicine, biology, biochemistry, pharmacy, agriculture, and food science and industry. Its objective is to develop a common language, to better define key challenges and open questions, and to lead to international collaborations and effective solutions.

TOPICS

1. Medical treatment with plasmas
2. Plasma-cell and plasma-tissue interactions
3. Plasma-based sterilization/decontamination
4. Agricultural and food applications of plasmas
5. Pharmaceutical applications and biochemical/biomolecular engineering with plasmas
6. Plasma-surface interactions and surface functionalizations for biomedical applications
7. Fundamentals of atmospheric plasmas
8. Plasma sources for biomedical applications
9. Plasma and liquid diagnostics and sensors
10. Modeling and numerical simulations

PLENARY SPEAKERS

 **Matteo GHERARDI** (University of Bologna)

Plasma treatment in dentistry

 **Jürgen KOLB** (INP Greifswald)

Cell to cell communication induced by electric pulses and plasmas

 **Vandana MILLER** (Drexel University)

Plasma activation of immune system for cancer therapy

 **Robert SHORT** (University of South Australia)

Opportunities for plasma technologies in cell therapy and wound healing

 **Shinya TOYOKUNI** (Nagoya University)

Insight into chemical reaction mechanism in plasma medicine from viewpoints of oxidant stress

INVITED SPEAKERS

-  Jan BENEDIKT (Ruhr University Bochum)
-  Hynek BIEDERMAN (Charles University Prague)
-  Paula BOURKE (Dublin Institute of Technology)
-  Paola BRUN (University of Padova)
-  Peter CELEC (Comenius University Bratislava)
-  Natalie CHERNETS (T. Jefferson University Hospitals)
-  Pietro FAVIA (University of Bari)
-  Brendan GILMORE (Queen's University Belfast)
-  Sylvain ISÉNI (University of Orleans)
-  Mark J. JAROSZESKI (University of South Florida)
-  Katsuhisa KITANO (Osaka University)
-  Nagendra KAUSHIK (Kwangwoon University)
-  Mounir LAROUCI (Old Dominion University)
-  Petr LUKEŠ (Czech Academy of Sciences)
-  Jean-Yves MAILLARD (Cardiff University)
-  Kai MASUR (INP Greifswald)
-  Ali MESBAH (University of California Berkeley)
-  Lluís MIR (Institute Gustave-Roussy)
-  George NAIDIS (Russian Academy of Sciences)
-  Brendan NIEMIRA (USDA-ARS Research Center)
-  Shoko NISHIHARA (Soka University)
-  Deborah O'CONNELL (University of York)
-  Christian OPLÄNDER (H. Heine University Düsseldorf)
-  Kostya OSTRIKOV (CSIRO)
-  Nevena PUČ (University of Belgrade)
-  Gregor SERŠA (University of Ljubljana)
-  Kazuo SHIMIZU (Shizuoka University)
-  Elena SYSOLYATINA (Gamaleya Research Institute)
-  Hiromasa TANAKA (Nagoya University)



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associated with

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