



Report from active participation in the International Congress of Photodynamic Applications in collaboration with European Platform for Photodynamic Medicine (EPPM) and International Photodynamic Association (IPA), 25 - 28 May 2014 – Jakub Golab

- 13.30 Parallel Sessions III:
Please note time for discussion is included in each presentation time slot.
- 13.30 (E) Immune Aspects of PDT- Invited Symposium: Room A
Chairs: Mladen Korbelik, BC, Canada/ Barbara Kramer, Salizburg
Please note time for discussion is included in each presentation time slot.
- 13.30 Strategies to potentiate immune response after photodynamic therapy, Mike Hamblin, Boston, USA.
- 13.48 PDT-generated cancer vaccines as therapeutic and investigative tool, M. Korbelik, BC, Canada.



THE INTERNATIONAL CONGRESS ON PHOTODYNAMIC APPLICATIONS

THE CAIRD HALL, DUNDEE, SCOTLAND

SUNDAY 25TH TO WEDNESDAY 28TH MAY 2014



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- 14.06 Systemic immunity after vascular-targeted PDT by hypericin, B. Kramer, Saluzburg University.
- 14.24 Anti-lymphatic effects of photodynamic therapy and their impact on immune response. . J. Golab
- 14.42 In situ cancer vaccine induced by photoimmunotherapy, W.R. Chen, Oklahoma, USA.
- 15.00 Break with exhibitors and poster viewing.

Fragment of the meeting programme on Immune Aspects of Photodynamic Therapy chaired by Mladen Korbelik and Jakub Golab as a speaker.

The international congress on photodynamic applications was organised to build upon the successful series of the International Symposium on Photodynamic Therapy (PDT). This congress was devoted to increase awareness and spread the knowledge on photodynamic techniques and technology in the laboratory and in the clinical setting.

It was also supposed to promote the application and study of photodynamic techniques and technology in research and patients' care. The biennial series of the international symposium on PDT was successfully organised by Profs Jori and Kostron for a decade, was invaluable venue to congregate scientists and clinicians from all continents interested in different facets of photodynamic technology and techniques.

The international congress on photodynamic applications from the lab to the clinic was held in The Caird Hall at the heart of Tayside and St Andrews region. It included outstanding international scientific programme committee with the best worldwide researchers and clinicians who devoted a lot of their time to the development and application of photodynamic techniques and technology.



The Caird Hall in Dundee, where the International Congress of Photodynamic Applications took place

Prof. Jakub Golab was invited with a lecture entitled: “Anti-lymphatic effects of photodynamic therapy and their impact on immune response”.

Abstract: Anti-tumor effects of photodynamic therapy result from several independent mechanisms including direct cytotoxicity towards tumor cells and induction of inflammatory response and destruction of blood vessels. We have recently observed that PDT is also capable of damaging normal lymphatic vessels. Since lymphatics provide an escape route for cancer cells and peritumoral lymphangiogenesis is associated with invasion and dissemination in cancer it is possible that their damage induced by PDT directly contributes to the antitumor activity of this treatment. Emerging evidence indicates that lymphatic vessels are modulators of anti-tumor immunity, through alterations in immune cell trafficking to and from the tumor, as well as through the influence on the inflammatory cytokine environment. Here we show that the mechanism of PDT-mediated damage to the lymphatics includes cytotoxic effects to lymphatic endothelial cells that triggers intralymphatic coagulation. We also discuss therapeutic outcomes resulting from lymphatic damage.