### Monday April 1st, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Mini-course registration</td>
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<tr>
<td>09:00</td>
<td>Mini-course Plasma &amp; Cancer Introduction: M. Laroussi</td>
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<tr>
<td>09:15</td>
<td>F. Frame</td>
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<tr>
<td></td>
<td>Cancer cell biology</td>
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<tr>
<td>10:00</td>
<td>K.-D. Weltmann</td>
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<tr>
<td></td>
<td>CAP sources and their applications in different fields of plasma medicine, e.g. cancer</td>
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<tr>
<td>10:45</td>
<td>Refreshment break</td>
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<tr>
<td>11:15</td>
<td>D.B. Graves</td>
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<tr>
<td></td>
<td>Basics of redox biology and medicine</td>
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<tr>
<td>12:00</td>
<td>G. Bauer</td>
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<td>Biochemical pathways, Cancer redox biology</td>
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<tr>
<td>12:45</td>
<td>Lunch</td>
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<tr>
<td>13:45</td>
<td>A. Bogaerts</td>
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<tr>
<td></td>
<td>Modelling for plasma oncology</td>
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<tr>
<td>14:30</td>
<td>H. Tanaka &amp; M. Hori</td>
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<tr>
<td></td>
<td>Plasma activated media for cancer treatment</td>
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<td>15:15</td>
<td>V. Miller</td>
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<td>Plasma for immunotherapy</td>
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<tr>
<td>16:30</td>
<td>M. Kedar &amp; J. Sherman</td>
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<td></td>
<td>In vivo studies</td>
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<td>Animal models</td>
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<tr>
<td>17:15</td>
<td>H.-R. Metelmann</td>
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<td>Plasma medicine and cancer: Benefit for patients?</td>
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<tr>
<td>18:00</td>
<td>Workshop registration</td>
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<tr>
<td>19:00</td>
<td>Workshop welcome buffet</td>
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### Tuesday April 2nd, 2019

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<tr>
<td>08:00</td>
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<tr>
<td>09:00</td>
<td>Welcome</td>
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<tr>
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<td>H.-R. Metelmann</td>
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<tr>
<td>09:30</td>
<td>Oral 1</td>
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<td>M. Kedar</td>
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<td>C. Bengston</td>
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<tr>
<td>11:00</td>
<td>Invited lecture 2</td>
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<td></td>
<td>Y. Kodera</td>
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<td>11:30</td>
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<td>A. Privat Maldonado</td>
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<td>12:40</td>
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<td>T. Dufour</td>
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<td>M. Ma</td>
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<tr>
<td>14:40</td>
<td>Poster pitches</td>
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<td>K. Stapelmann</td>
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<td>P. Maguire</td>
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<td>C. Labay</td>
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### Wednesday April 3rd, 2019

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<tr>
<td>08:00</td>
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<td>E. Sotomayor</td>
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<td>09:30</td>
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<td>T. H. Chung</td>
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<td>E. Griseti</td>
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<td>10:30</td>
<td>Poster session II</td>
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<td>12:00</td>
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<td>C. Duchesne</td>
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<td>M. Schäfer</td>
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<td>P.-M. Giraud</td>
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<td>A. Lin</td>
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<td>J. Mora</td>
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<td>Poster Award ceremony</td>
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<td>Announcement next IWPC T</td>
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<td>Discussion &amp; Conclusion</td>
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Welcome

We are delighted to welcome you to the Sixth International Workshop on Plasma for Cancer Treatment (IWPCT 2019), held in Antwerp, Belgium, April 1 - 3, 2019. Researchers from around the world are attending to discuss their latest developments for cancer plasma therapy.

A special issue in IEEE Transactions on Radiation and Plasma Medicine will be organised, based on the invited lectures and other contributions to the workshop, with David Graves as special issue editor. The submission deadline will be end of June 2019.

We wish you a fruitful workshop and a pleasant stay in Antwerp.

Annemie Bogaerts and Evelien Smits
Chair and Co-Chair of IWPCT 2019

Scope of the workshop

The topics covered by the Workshop are the following:

- Plasma sources and plasma equipment used for cancer treatment;
- Plasma-cancer interactions: experiments, modelling and simulation;
- Destruction of cancer cells by plasma;
- Mechanisms of plasma selectivity towards cancer cells;
- Plasma-liquid interaction / plasma chemistry in biological liquids / plasma activated media for cancer treatment;
- Clinical and animal studies of cancer treatment by plasma.

Sponsorships

We gratefully acknowledge the support given by the following organisations:
Monday April 1

Minicourse: Plasma & Cancer

Organizers: Mounir Laroussi, Annemie Bogaerts, and Hans-Robert Metelmann

Session chair: Hans-Robert Metelmann

09:00 Introduction to the minicourse.
Mounir Laroussi  (*Old Dominion University, Norfolk, U.S.A.*)

09:15 Cancer cell biology.
Fiona Frame  (*University of York, Heslington, U.K.*)

10:00 CAP sources and their applications in different fields of plasma medicine, e.g., cancer.
Klaus-Dieter Weltmann  (*INP, Greifswald, Germany*)

10:45 Refreshment break

Session chair: Annemie Bogaerts

11:15 Basics of redox biology and medicine.
David B. Graves  (*University of California Berkeley, U.S.A.*)

12:00 Biochemical pathways / Cancer redox biology.
Georg Bauer  (*University of Freiburg, Freiburg, Germany*)

12:45 Lunch

Session chair: Hans-Robert Metelmann

13:45 Modelling for plasma oncology.
Annemie Bogaerts  (*University of Antwerp, Belgium*)

14:30 Plasma activated media for cancer treatment.
Hiromasa Tanaka and Masaru Hori  (*Nagoya University, Nagoya, Japan*)

15:15 Plasma for immunotherapy.
Vandana Miller  (*Drexel University, Philadelphia, U.S.A.*)

16:00 Refreshment break

Session chair: Annemie Bogaerts

16:30 In vivo studies / Animal models.
Michael Keidar and Jonathan Sherman  (*George Washington University, Washington DC, U.S.A.*)

17:15 Clinical studies.
Hans-Robert Metelmann  (*University of Greifswald, Germany*)
Tuesday April 2

Scientific programme

08:00 Workshop registration

09:00 Welcome

Session chair: Annemie Bogaerts

09:20 Invited lecture 1

Application of cold physical plasma: On the way to evidence-based medicine?
Hans-Robert Metelmann, Christian Seebauer Sander Bekeschus

09:50 Oral contribution 1

The cell activation phenomena in the cold atmospheric plasma cancer treatment.
Dayun Yan, Wenjun Xu, Xiaoliang Yao, Li Lin, Jonathan Sherman and Michael Keidar

10:10 Oral contribution 2

Plasma selectivity towards cancer cells by inactivation of cell membrane associated catalase?
Charlotta Bengtson and Annemie Bogaerts

10:30 Refreshment break

Session chair: David B. Graves

11:00 Invited lecture 2

Plasma-activated fluids as a novel treatment option for peritoneal metastasis from gastric/pancreatic cancer.
Yasuhiro Kodera, Suguru Yamada, Koji Torii, Norifumi Hattori, Shigeomi Takeda, Yusuke Sato, Hiromasa Tanaka, Masaaki Mizuno and Masaru Hori

11:30 Oral contribution 3

Guy M. Parsey, Hamid Razavi and Mark J. Kushner

11:50 Oral contribution 4

Anticancer activity of plasma-activated liquids for the treatment of peritoneal carcinosis from primitive epithelial ovarian/fallopian tube tumour.
C. Bucci, A. Bisag, Romolo Laurita, G. Girolimetti, S. Coluccelli, L.B. Amato, M. Gherardi, G. Gasparre, A.M. Perrone, A.M. Porcelli, Vittorio Colombo and Pierandrea De Iaco

12:10 Invited lecture 3

Understanding the response of solid tumours to cold atmospheric plasma using 3-dimensional models.
Angela Privat-Maldonado, Evelien Smits and Annemie Bogaerts

12:40 Lunch / ISC Meeting
Tuesday April 2

Session chair: Evelien Smits

13:50 Invited lecture 4

*In vivo treatment of carcinoma using cold atmospheric plasma jets: Safety issues and biological mechanisms.*

Thierry Dufour, F. Judée, J. Vaquero and L. Fouassier

14:20 Oral contribution 5

*Genotoxic and mutagenic properties of atmospheric pressure plasma jet on human liver cell line L02.*

Mingyu Ma, Jiangwei Duan, Xinpei Lu and G. He

14:40 Poster pitches

15:30 Poster session I / Belgian beers

Session chair: Klaus-Dieter Weltmann

17:10 Invited lecture 5

*Plasma-induced glutathione modifications and possible implications for cancer therapy.*

Katharina Stapelmann, Friederike Kogelheide, Brayden Myers, Duncan Trosan, Christina Klinkhammer, Jan-Wilm Lackmann, Hager Mohamed, Fred Krebs, Vandana Miller and Pietro Ranieri

17:40 Oral contribution 6

*Remote plasma jet and plasma-activated microdroplet interactions with amino acids.*

Paul Maguire, Harold McQuaid, David Rutherford and Davide Mariotti

18:00 Oral contribution 7

*Plasma-treated gelatine/alginate hydrogels as reservoir of RONS.*

Cédric Labay, Marcel Roldán, Maria-Pau Ginebra and Cristina Canal

18:20 End

19:00 Workshop dinner

Universiteitsclub, Prinsstraat 13b, Antwerpen
Tuesday April 2

Poster session I

1. Plasma sources and plasma equipment used for cancer treatment

P-I-1. Chemical kinetics and reactive species delivery in needle-like plasma sources for treatment of internal cancers.
Andrew R. Gibson, S. Schröter, T. Gans, Mark J. Kushner and Deborah O’Connell

P-I-2. Data analytics using machine learning for real-time diagnostics of cold atmospheric plasma sources.
David B. Graves, D. Gidon, X. Pei, A.D. Bonzanini and A. Mesbah

Michael Keidar, Eda Gjika, Li Lin, Dayun Yan, Carles Corbella and Jonathan Sherman

2. Plasma-cancer interactions: experiments, modelling and simulation

P-I-4. Optimisation of cold atmospheric plasma induced endocytosis of anti-cancer genes in glioblastoma multiforme cells.
Sean Behan, Laurence Scally, Vladimir Milosavljevic, Paula Bourke, Eline Manaloto, Renee Malone, Patrick Cullen and James F. Curtin

P-I-5. The effect of oxygen admixtures on the electric field induced by an atmospheric pressure helium plasma jet.
Constantinos Lazarou, Charalambos Anastassiou, I. Topala, A.S. Chiper, I. Mihaila, V. Pohoata and G.E. Georghiou

P-I-6. Will oxidation stimulate or destabilise amyloid fibril formation? Answers from atomic scale simulations.
Jamoliddin Razzokov, Maksudbek Yusupov and Annemie Bogaerts

P-I-42. How the cell membrane composition influences plasma-induced cellular effects.

3. Destruction of cancer cells by plasma

Charalambos Anastassiou, C.T. Mihai, I. Topala, I. Mihala, Constantinos Lazarou and G.E. Georghiou

P-I-8. Structural modification of NOXA1 SH3 enzyme domain by plasma can downregulate NF-κB, a major contributor to tumour development.
Pankaj Attri, Weontae Lee, Eun Ha Choi and Annemie Bogaerts

Jean-Sébastien Boisvert, Audrey Glory, Julie Lafontaine, Sylvain Coulombe and Philip Wong

P-I-10. ROS-therapy increases the immunogenicity of B16F10 melanoma cells in vitro and in vivo.
Ramona Clemen, Eric Freund, S.K. Sagwal and Sander Bekeschus
4. Mechanisms of plasma selectivity towards cancer cells

P-I-11. The hydrogen peroxide metabolism in tumour cells decreases through structural modification of catalase: A possible mechanism in plasma medicine.
Pankaj Attri and Annemie Bogaerts

P-I-12. Selectivity of plasma treatment and influence of the cell culture medium.
Eline Biscop, Wilma Van Boxem, Jinthe Van Loenhout, Evelien Smits and Annemie Bogaerts

5. Plasma-liquid interaction / plasma chemistry in biological liquids / plasma activated media for cancer treatment

Daniela Boehm, Peng Lu, Evanthia Tsoukou, Caitlin Heslin and Paula Bourke

P-I-14. On the penetration of various RONS generated by a cold plasma jet across skin tissues: Experiments and simulations.
Jiangwei Duan, Maksudbek Yusupov, Xinpei Lu and Annemie Bogaerts

Audrey Glory, Jean-Sébastien Boisvert, Julie Lafontaine, Sylvain Coulombe and Philip Wong

P-I-17. Effect of cold atmospheric plasma on wound healing.
Kobra Hajizadeh, K. Haji-Sharifi and H. Mehdian

Kobra Hajizadeh, K. Haji-Sharifi and H. Mehdian

6. Clinical and animal studies of cancer treatment by plasma

Pankaj Attri, Chang-Hyun Song, Sae-Kwang Ku, Annemie Bogaerts and Eun Ha Choi

P-I-20. Treatment of radiation dermatitis with cold atmospheric pressure plasma and assessment of pathomechanisms in mice.
Thoralf Bernhardt, Thomas Borchardt, Wolfgang Viöl, Guido Hildebrandt, Brigitte Vollmar, Steffen Emmert and Lars Boeckman

P-I-xx. = poster pitch
Wednesday April 3

08:00 Workshop registration

Session chair: Deborah O’Connell

09:00 Invited lecture 6

Anti-tumour immune effects triggered by cold atmospheric plasma.
Eduardo M. Sotomayor, Fengdong Cheng and Michael Keidar

09:30 Oral contribution 8

To ground or not to ground? That is the question … during plasma medical treatment.
Augusto Stancampiano, Thai-Hoa Chung, S. Dozias, Jean-Michel Pouvesle, Lluis M. Mir and Eric Robert

09:50 Oral contribution 9

Electropermeabilisation enhancement by grounded and compensated plasma-treated PBS+/−.
Thai-Hoa Chung, Augusto Stancampiano, F.M. André, S. Dozias, Jean-Michel Pouvesle, Eric Robert and Lluis M. Mir

10:10 Oral contribution 10

Potentiation of plasma-activated liquid cytotoxicity with pulsed electric fields for cancer treatment.
Elena Griseti, Jelena Kolosnjaj-Tabi, Laure Gibot, Mohammed Yousfi, Marie Pierre Rols, Nofel Merbah and Muriel Golzio

10:30 Poster session / Refreshments

Session chair: Michael Keidar

12:00 Oral contribution 11

Plasma effect on angiogenesis in vitro, ex vivo and in vivo.
Constance Duchesne, Antoine Rousseau, Jean-Jacques Lataillade and Nadira Frescaline

12:20 Oral contribution 12

Does the (biological) target predetermine the impact of CAP?
Kristian Wende, Giuliana Bruno, Sebastian Wenske, Thomas von Woedtke, Klaus-Dieter Weltmann and Jan-Wilm Lackmann

12:40 Lunch / ISC Meeting

Session chair: Jean-Michel Pouvesle

13:50 Invited lecture 7

Improvement of precancerous lesions in the oral cavity by cold plasma application.
Sybille Hasse, Christian Seebauer, Sander Bekeschus, Maria Segebarth, Thomas von Woedtke and Hans-Robert Metelmann
Wednesday April 3

Scientific programme

14:20 Invited lecture 8
Therapeutic potential of cold atmospheric plasma for the treatment of drug-resistant breast cancer cells.
Sungbin Park, Hyeon Woo Kim, Dawoon Jeong, Juyeon Ham, Eun Ha Choi and Sun Jung Kim

14:50 Oral contribution 13
The synergistic cytotoxicity of combined cold atmospheric plasma and silver nanoparticles on brain cancer cells.
Eline Manaloto, Aoife Gowen, Alan Casey, Patrick Cullen and James F. Curtin

15:10 Oral contribution 14
Investigation of cold atmospheric pressure plasma and small molecules as an innovative therapy for the treatment of squamous cell carcinoma of the skin in vitro and in vivo.
Mirijam Schäfer, Marie Luise Semmler, Franziska Wendt, Tobias Fischer, Robert Ramer, Burkhard Hinz, Steffen Emmert and Lars Boeckmann

15:30 Refreshment break

Session chair: Vandana Miller

16:00 Invited lecture 9
Reinvestigation of in vitro plasma treatment conditions so that it better reproduces in vivo conditions: A biologist’s point of view.
Pierre-Marie Girard and Joao Santos Sousa

16:30 Oral contribution 15
Dual advantage of DBD plasma: Increase tumour immunogenicity and overcome immunosuppression.
Abraham Lin, Joey De Backer, Hanne Verswyvel, Jinthe Van Loenhout, Sylvia Dewilde, Evelien Smits and Annemie Bogaerts

16:50 Oral contribution 16
Plasma cancer treatment – Role of ROS-composition and tumour cell type.
Sander Bekeschus, Rajesh Gandhirajan, Eric Freund, Ramona Clemen, Klaus-Dieter Weltmann and Hans-Robert Metelmann

17:10 Invited lecture 10
What is a paediatric tumour?
Juame Mora

17:40 Poster award ceremony
Announcement of next IWPCT
Discussion & conclusion
Wednesday April 3

1. Plasma sources and plasma equipment used for cancer treatment

P-II-22. Assessment of cold atmospheric pressure plasma and small molecules as an innovative therapy for the treatment of malignant melanoma in vitro and in vivo.
Marie Luise Semmler, Mirijam Schäfer, Anna-Christin Waldner, Tobias Fischer, Henrike Rebl, J. Barbara Nebe, Steffen Emmert and Lars Boeckmann

P-II-23. Electric field measurement in artificial tissue for cold atmospheric plasma cancer treatment.
Denis B. Zolotukhin, Li Lin and Michael Keidar

2. Plasma-cancer interactions: experiments, modelling and simulation

Priyanka Shaw, Naresh Kumar, Sylvia Dewilde and Annemie Bogaerts

Hanne Verswyvel, Abraham Lin, Angela Privat Maldonado, Annemie Bogaerts and Evelien Smits

P-II-26. Effect of lipid and protein oxidation on the permeation of H2O2 (hydrophilic) and NO (hydrophobic) species across aquaporin 1.
Maksudbek Yusupov and Annemie Bogaerts

3. Destruction of cancer cells by plasma

Naresh Kumar, Priyanka Shaw, Sylvia Dewilde and Annemie Bogaerts

P-II-29. Cold atmospheric plasma-activated Ringer’s solution induce cytotoxic effects on human osteosarcoma cells.
Miguel Mateu-Sanz, Juan Tornín and Cristina Canal

Dominika Sersenová, Helena Gbelcová, Vanda Repíská and Zdenko Machala

P-II-31. Danger signalling through different sources of ROS in glioblastoma multiforme.
4. Mechanisms of plasma selectivity towards cancer cells

P-II-32. Pyruvate plays a main role to ensure the anti-tumoural selectivity of cold atmospheric plasma in osteosarcoma. 
Juan Tornín, Miguel Mateu-Sanz, Aida Rodriguez, René Rodríguez and Cristina Canal

5. Plasma-liquid interaction / plasma chemistry in biological liquids / plasma activated media for cancer treatment

P-II-33. Evaluation of a photo-cross-linked hydrogel as carrier of reactive species generated by plasma jets. 
Inès Hamouda, Cédric Labay, Maria-Pau Ginebra, Erwan Nicol and Cristina Canal

P-II-34. On the selectivity of PAM. 
Mounir Laroussi

P-II-35. Formation of reactive chlorine species in plasma treated saline solution. 
Petr Lukes and Vit Jirasek

P-II-37. Modulating the cytotoxic effects of plasma activated liquids against cancerous cell lines. 
Evanthia Tsoukou, Peng Lu, Paula Bourke and Daniela Boehm

P-II-38. Effect of cold atmospheric pressure plasma treated medium on dermal cancer cells in vitro. 
Anna-Christin Waldner, Claudia Bergemann, Henrike Rebl, Florian Wieland, Steffen Emmert and J. Barbara Nebe

P-II-41. Formation of RONS including ONOO⁻ and O₂⁻ in physiological buffers exposed to cold atmospheric plasmas. 
Fanny Girard-Sahun, Vasilica Badets, Pauline Lefrançois, Sylvie Blanc, Neso Sojic, Stéphane Arbault and Franck Clément

6. Clinical and animal studies of cancer treatment by plasma

Eric Freund, Ramona Clemen, K.R. Liedtke, L.-I. Partecke and Sander Bekeschus

P-II-40. Cold plasma treatment of actinic keratosis and warts. 
Peter Friedman, Gregory Fridman and Alexander Fridman

P-II-xx. = poster pitch
Venue

Universiteit Antwerpen, “Klooster van de Grauwzusters”, Lange St. Annastraat 7, Antwerpen

Workshop venue: Klooster van de Grauwzusters
Lange St. Annastraat 7, Antwerpen

Workshop dinner venue: University Club
Prinsstraat 13b, Antwerpen

to Antwerp Central Railway Station