



*1<sup>st</sup> Central European Symposium on Radiation Oncology:*

# ***Technological and Biological Sunrise for Radiation Oncology***

*Gliwice, May 16 -17, 2014*

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Symposium*



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***Technological and Biological Sunrise for Radiation Oncology***  
*Gliwice, May 16 -17, 2014*

*Organizers:*

**Centrum Onkologii – Instytut im. Marii Skłodowskiej-Curie Oddział w Gliwicach**  
**Górnślaska Fundacja Onkologiczna**

*Co-Organizers:*

**Department of Radiation Oncology, UT Southwestern Medical Center**  
**Polskie Towarzystwo Badań Radiacyjnych**  
**Polskie Towarzystwo Radioterapii Onkologicznej**

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*Conference venue:*

**Center of Oncology – Maria Skłodowska-Curie Memorial Institute, Gliwice Branch,  
15 Wybrzeże Armii Krajowej, 44-101, Gliwice, Poland.**

Scientific Committee:

Prof. **Hak Choy**

Prof. **Bogusław Maciejewski**

Prof. **Leszek Miszczyk**

Prof. **Michael Story**

Prof. **Rafał Suwiński**

Prof. **Rafał Tarnawski**

Prof. **Piotr Widłak** (Chairman of the Committee)

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**Ewa Początek-Gwóźdź**

**Lucyna Ponge**

**Jacek Rogoliński**

## Scientific program

### Friday; 16<sup>th</sup> May 2014

9.00                      **Opening of the Symposium:**              **Bogusław Maciejewski**

9.15 – 10.45              **New Concepts and Technologies (Part I)**

Chairman: **Leszek Miszczyk**

**Hak Choy** (*UT Southwestern Medical Center, Dallas*): Current trends in radiotherapy of lung cancer.

**Rafał Dziadziuszko** (*Medical University of Gdańsk, Gdańsk*): Lung cancer: will molecular tumor characteristics change our radiotherapy practice?

**Krzysztof Składowski** (*Institute of Oncology, Gliwice*): Comprehensive clinical, psychological, biochemical and molecular monitoring of patients with head and neck cancer undergoing definitive radiotherapy and chemotherapy.

**Tomasz Rutkowski** (*Institute of Oncology, Gliwice*): Circulating HPV DNA as a marker of treatment response in patients with oropharyngeal cancer treated with radiotherapy or radiochemotherapy.

10.45 – 11.15              Coffee break and poster viewing

11.15 – 12.50              **New Concepts and Technologies (Part II)**

Chairman: **Hak Choy**

**Andrew K. Lee** (*M.D. Anderson Cancer Center, Houston*): Clinical rationale for proton therapy.

**Paweł Olko** (*Institute of Nuclear Physics, Kraków*): Progress in proton therapy - the physicist point of view.

**Rafał Suwiński** (*Institute of Oncology, Gliwice*): Fractionation sensitivity of high-risk prostate cancer: is alpha/beta ratio always low?

**Daria Handkiewicz-Junak** (*Institute of Oncology, Gliwice*): Targeted use of alpha particles in systemic therapy of cancer.

12.50 – 14.00              Lunch break and poster viewing

14.00 – 15.30      **New Concepts and Technologies (Part III)**

Chairman: **Rafał Suwiński**

**Robert Timmerman** (*UT Southwestern Medical Center, Dallas*): Stereotactic body radiation therapy (SBRT).

**Leszek Miszczyk** (*Institute of Oncology, Gliwice*): Radiation treatment of painful vertebral haemangiomas - possible target for CK based SBRT?

**Wojciech Majewski** (*Institute of Oncology, Gliwice*): Renal cell cancer - a target for stereotactic radiotherapy.

**Sławomir Blamek** (*Institute of Oncology, Gliwice*): Long-term results of Linac-based stereotactic radiosurgery for arteriovenous malformations: When is the right time for re-irradiation of patent lesions?

**Jerzy Wydmański** (*Institute of Oncology, Gliwice*): Neoadjuvant chemoradiotherapy compared with surgery followed by postoperative chemoradiotherapy for locally advanced cancer of the stomach.

**Aleksandra Napieralska** (*Institute of Oncology, Gliwice*): CyberKnife radiosurgery as an option of treatment for prostate cancer patients with metastatic lymph nodes.

15.30 – 16.00      Coffee break and poster viewing

16.00 – 18.00      **Radiobiology and Molecular Predictors**

Chairman: **Rafał Tarnawski**

**Michael Story** (*UT Southwestern Medical Center, Dallas*): Molecular predictors of therapeutic response.

**Ingeborg Tinhofer-Keilholz** (*Charité Medical University, Berlin*): The diagnostic potential of circulating tumor cells: prognosis of clinical outcome and identification of therapeutic targets.

**Dorota Butkiewicz** (*Institute of Oncology, Gliwice*): Polymorphisms of DNA repair genes and prognosis of NSCLC.

**Dorota Słonina** (*Institute of Oncology, Kraków*): Low-dose hyper-radiosensitivity of normal cells: Should we be afraid of the effect in radiation therapy?

**Piotr Widłak** (*Institute of Oncology, Gliwice*): Blood proteome and lipidome in response to IMRT treatment.

19.00                      Conference Dinner (Silvia Gold Hotel, 8 Studzienna Str., Gliwice)

**Saturday; 17<sup>th</sup> May, 2014**

9.15 – 10.45            ***Molecular Biology in Radiation Oncology***

Chairman: **Michael Story**

**Michael Baumann** (*Carl Gustav Carus University Hospital, TUD, Dresden*): Integrating technology and biology for improved radiotherapy.

**Raquibul Hannan** (*UT Southwestern Medical Center, Dallas*): Immune modulation by radiotherapy.

**Michał Jarzab** (*Institute of Oncology, Gliwice*): Tumor heterogeneity as a prognostic/predictive marker in breast cancer preoperative treatment.

**Dagmara Rusinek** (*Institute of Oncology, Gliwice*): Radiation-induced vs BRAF-driven papillary thyroid cancer: seeking for molecular mechanisms in highly radiosensitive malignancy.

10.45 – 11.15            Coffee break

11.15 – 12.45            ***Imaging in Radiation Oncology***

Chairman: **Piotr Wiđlak**

**Steve Jiang** (*UT Southwestern Medical Center, Dallas*): High speed data processing for real time image guidance.

**Bram Stieltjes** (*German Cancer Research Center, DKFZ, Heidelberg*): Advanced magnetic resonance diffusion imaging in oncology.

**Łukasz Boguszewicz** (*Institute of Oncology, Gliwice*): Pattern recognition based on 1H-MR spectroscopy in monitoring of posterior fossa tumors treatment outcome.

**Rafał Tarnawski** (*Institute of Oncology, Gliwice*): Integration of PET/CT (68)Ga-DOTATATE for robotic radiation therapy treatment planning.

12.45                      ***Closing remarks:***    **Bogusław Maciejewski & Hak Choy**

13.00                      *Lunch*

## **Poster session**

- [P1] Adamczyk A, Niemiec J, Ambicja A, Mucha-Malecka A, Wysocki WM, Cichocka A, Mitus J, Ryś J: Differences in protein expression between primary tumour and synchronous lymph node metastases in invasive ductal breast cancer.
- [P2] Biesaga B, Niemiec J, Ziobro M, Wysocka J, Kruczek A, Sokołowski A: The prognostic potential of breast cancer biological characteristics for adjuvant treatment with anthracyclines.
- [P3] Gabryś D, Piela A, Walaszczyk A, Jelonek K, Pietrowska M, Trela K, Kulik R, Wziętek I, Namysł-Kaletka A, Widłak P: Cardiac toxicity after breast cancer patients treatment
- [P4] Gramatyka M: Metformin and resveratrol do not show cytoprotective activity in cardiomyocytes exposed to ionizing radiation and/or epirubicin.
- [P5] Jelonek K, Wojakowska A, Marczyk Ł, Mueer A, Tinhofer-Keilholz I, Łysek-Gładysińska M, Widłak P, Pietrowska M: Composition of proteins and lipids of exosomes secreted from cancer cells is affected by ionizing radiation.
- [P6] Matulewicz Ł, Renner WD: Implementation of exit detector data based IMRT QA system for 3D absolute in vivo dose measurements.
- [P7] Namysł-Kaletka A, Wydmański J, Tukiendorf A, Kawczyński R: Influence of blood parameters on outcome of gastric cancer patients.
- [P8] Niemiec J, Adamczyk A, Ambicka A, Mucha-Malecka A, Wysocki WM, Majchrzyk K, Ryś J: Prognostic value of lymphatic vessel density in invasive ductal breast cancer for patients treated with different schedules
- [P9] Słonina D, Gasińska A, Janecka A, Biesaga B, Kabat D: Activity of early G2-phase checkpoint in HRS-positive and HRS-negative fibroblasts of patients with cervix cancer.
- [P10] Smolska-Ciszewska B: Quality of life of patients with localized prostate cancer undergoing radical radiotherapy.
- [P11] Szczurek Ł: Daily quality control aspects of the Linac dose monitor calibration.
- [P12] Widłak P, Pietrowska M, Polańska J, Rutkowski T, Wygoda A, Tarnawski R, Składowski K: Radiotherapy-related Changes in Serum Proteome Patterns Are Affected by Low-to-Medium Doses of Radiation Delivered to Large Volumes of Normal Tissue
- [P13] Wydmański J, Chweduk A, Gdowicz-Kłósek A, Kaniszewska-Dorsz Ż, Namysł-Kaletka A, Kawczyński R, Polanowski P, Kraszkievicz M: Lymphocyte depletion after preoperative chemoradiotherapy for operable gastric cancer.
- [P14] Wziętek I, Idasiak A, Namysł-Kaletka A, Gabryś D, Kryj M, Chmielarz A, Wydmański J, Suwiński R: Timing of prophylactic cranial irradiation in patients with limited-disease small cell lung cancer: is there a need to rush?



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**Notes:**