



**Karolinska
Institutet**



**Second Radiotherapy Workshop
within the framework of the “Twinning agreement” between the
National Institute of Oncology, Budapest, Karolinska Institutet
12th -13th May, 2025**

Venue:

**Karolinska University Hospital, Main entrance: Eugeniavägen 3, Solna, Lecture
hall J3:04 Torsten N Wiesel**

Organizing Committee from National Institute of Oncology

Assoc. Prof. Dr. **Zoltán TAKÁCSI-NAGY**, Head of the Center of Radiotherapy, National Institute of Oncology

Prof. Dr. **Tibor MAJOR**, Head of Medical Physics, National Institute of Oncology

Organizing Committee from Karolinska University Hospital and Karolinska Institutet

Chief Medical Officer/PhD **Mattias HEDMAN**, Karolinska University Hospital, Medical unit Radiation Oncology, Karolinska Institutet, Dep. Oncology/Pathology

Chief Medical physicist/Associate Professor **Giovanna GAGLIARDI**, Karolinska University Hospital, Section of Radiotherapy Physics and Engineering, Karolinska Institutet, Dep. Oncology/Pathology

Senior Consultant/Associate Professor **Alexander VALDMAN**, Karolinska University Hospital, Medical unit Radiation Oncology, Karolinska Institutet, Dep. Oncology/Pathology

Medical physicist/ Professor **Åsa CARLSSON TEDGREN**, Karolinska University Hospital, Medical Radiation Physics and Nuclear Medicine, Karolinska Institutet, Dep. Oncology/Pathology

PhD **Kristina VIKTORSSON**, Karolinska Institutet, Dep. Oncology/Pathology, Scientific coordinator of radiotherapy, Radiumhemmets forskningsfonder



Programme 12th of May, Monday

09:30 – 09:45 **Welcome note**

Prof. /Director Cancer Research KI **Elias Arnér**, KI
MD/PhD/ Chief Medical Officer **Mattias Hedman**, Karolinska University Hospital
Assoc. Prof. Dr. **Zoltán Takácsi-Nagy**, Head of the Center of Radiotherapy, National Institute of Oncology

Session 1 Presentation of the RT departments at Karolinska University Hospital and National Institute of Oncology and the EUnetCCC project

- 09:45 – 10.05 Introduction of Radiotherapy Department at Karolinska University Hospital (**M. Hedman**, RO)
- 10.10 -10:40 Introduction of Radiotherapy Center of NIO (**Z. Takácsi-Nagy**, RO)
- 10.40-10.55 Introduction to the EUnetCCC project and the work group on research activities
(**E. Jolly**, Head of Karolinska CCC Project Unit, WP lead EUnetCCC, **L.Bäckdahl**, Research coordinator, Cancer research KI and **Z. Takácsi-Nagy**, RO)

Coffee break

Session 2- Brachytherapy (Chairman: **Å. Carlsson Tedgren**, MP, Karolinska)

- 11.10- 11.40 Brachytherapy at Karolinska
(**Å. Carlsson Tedgren**, MP and **M. Dubanski**, RO)
- 11.40- 12.10 Brachytherapy of breast cancer (**C. Polgar**, RO)
- 12.10- 12.40 Brachytherapy vs. modern EBRT techniques regarding dosimetry
(**T. Major**, MP)

Lunch

Session 3- Clinical Radiotherapy (Chairmans: **Rolf Lewensohn**, Oncologist and **Eva Onjukka**, MP)

- 13.40-14.10 Contact brachytherapy for rectal cancer (**A.Valdman**, RO)
- 14.10-14.40 RT in childhood cancer (**A. Embring**, RO)
- 14.40-15.10 Reirradiation of prostate cancer (**P. Ágoston**, RO)

Coffee break

Session 4- SBRT at NIO and Karolinska (Chairmans: **Rolf Lewensohn**, Oncologist and **Eva Onjukka**, MP)



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| 15.40-16.10 | Long-term clinical results with Linac and Cyberknife based SBRT for primary lung cancer (L. Jánváry , RO) |
| 16.10-16.30 | Clinical benefit of SBRT in oligometastatic NSCLC (K. Lindberg , Oncologist) |
| 16.30 -16.50 | Modelling the risk of bleeding after SBRT of centrally located lung tumors (E. Onjukka , MP and K. Karlsson , MP) |
| 16.50.-17.10 | SBRT for malignant melanoma- the PROMMEL study (H. Helgadottir , Oncologist). |
| 17.10-17.20 | Wrap up of the day |



Programme 13th of May, Tuesday

Session 5 Preclinical and translational research (Chair: K.Viktorsson, KI)

- 8.30-9.00 Brachytherapy and research- Examples of PhD projects at Karolinska/Karolinska Institutet
- 8.30-8.40 Independent verification of dosimetric data for ^{106}Ru brachytherapy (**S. Dahlander**, MP, PhD stud.).
- 8.40-8.50 Improved heterogeneity handling in the collapsed cone dose engine for brachytherapy (**F, Alpsten**, MP, PhD stud.)
- 8.50-9.00 Outcomes of patients treated with adjuvant brachytherapy for cancer of oral tongue (**E, Björgevinnson**, RO, PhD stud.)
- 9.00-9.10 General discussion
- 9.15-9.45 Biologically Optimised Adaptive RT (**I.Toma Dasu**, MP)
- 9.45-10.15 Preventing cognitive decline after brain radiotherapy (**K. Blomgren**, Prof.)

Coffee break

- 10.30-10.50 Decoding tumor ecosystem dynamics to improve radiotherapy responses in prostate cancer (**Pavitra Kannan**, RB).
- 10.50-11.20 Improving RT with DDR inhibitors: clinic to bench and back to FDA/EMA approval (**T. Helleday**, Prof.)

Session 6 Radionuclide Therapy and Theranostics at Karolinska (Chair: A. Valdman)

- 11.20-11.50 Theranostics - See what You treat and Treat what You see (**C.Hindorf**, MP)
- 11.50-12.10 Development of radiopharmaceutical therapy for metastatic neuroblastoma- from bedside to bench and back (**J.Stenman**, MD/PhD/ Senior Lecturer)
- 12.10-12.40 Round table discussion & closing of the workshop (**E. Arnér**, KI, **M. Hedman**, KI/Karolinska, **C. Polgar**, **Z. Takácsi-Nagy**, **T. Major** NIO)
- 12:40 Lunch to go

Abbreviations: RO: radiation oncologist; MP: medical physicist; RB: radiobiologist