

Program

Day 1

4 September, Wednesday

- 08.00 - 9.00 am **Registration**
NIB registration desk
- 09.00 - 1.00 pm **Net4Brain Core Group Meeting** (only for core group members)
FITO conference room
- 01.00 - 2.00 pm **Lunch** (only for core group members)
FITO conference room

Start of Scientific Program (all attendees)

- 01.00 - 2.00 pm **Registration**
NIB registration desk
- 02.00 - 02.15 pm **Welcome**
NIB conference room
- Maja Ravnikar**, NIB director
 Xinzhong Li, Net4Brain COST action Chair
 Barbara Breznik & Metka Novak, Chairs of Organizing
 Committee
- 02.15 - 02.45 pm **Opening Keynote Lecture, on-line**
NIB conference room
Chair: **Xinzhong Li**
- Guohao Dai**, Northeastern University, College of Engineering,
 USA
 *Bioengineered perfused human brain microvasculature
 to model brain tumor and neurodegenerative diseases*
- 02.45 - 04.10 pm **Scientific Session 1 - WG1, Non-invasive Biomarker
Discovery**
NIB conference room
Chairs: **Aida Hajdarpasic, Tatjana Mitrovic**
- Talk 1, 20 min**
 Aida Hajdarpasic, Sarajevo Medical School, University SSST,
 Bosnia and Herzegovina
 Epigenetics as biomarkers

Talk 2, 20min

Thomas Booth, King's College London, UK

Imaging biomarkers for glioblastoma, including validated AI model for patient stratification in clinical trials

Short talk 1, 7 min

Tatjana Mitrovic, University of Nis, Serbia

Circulating Biomarkers: Is There an Ideal One?

Short talk 2, 7 min

Sagar Acharya, Medical University of Vienna, Austria

Intraoperative Precision Sampling of Tumour Microenvironments based on 7T MRSI: A pipeline development

Discussion WG1 (30 min) Mitrovic, Hajdarpasic

Revising and planning WG activities

04.10 - 04.50 pm

Coffee break & Poster session for WG1 and WG2
NIB gallery

04.50 - 06.15 pm

Scientific Session 2 - WG2, Preclinical Modelling
NIB conference room
Chairs: **Anna Golebiewska**, **Barbara Breznik**

Talk 1, 20 min

Lene Uhrbom, Uppsala University, Sweden

Preclinical modeling of high-grade glioma - an overview of patient-derived and mouse cell culture models

Talk 2, 20 min

Anna Golebiewska, Luxembourg Institute of Health,
Luxembourg & **Barbara Breznik**, National Institute of Biology,
Slovenia

Preclinical modelling expertise and database at NET4Brain consortium

Short talk 1, 7 min

Winnok De Vos, University of Antwerp, Belgium

Excessive nuclear envelope stress blunts the invasive potential of glioblastoma cells

Short talk 2, 7 min

Bilal Javed, Technological University Dublin, Ireland

Advanced 3D Cell Culture Models and Microfluidic Lab-on-Chip Devices for Glioblastoma Therapy Evaluation

Discussion WG2 (30 min) Golebiewska, Breznik

Revising and planning WG activities

06.30 pm **Welcome reception**
NIB gallery

Day 2
5 September, Thursday

Scientific Program (all attendees)

08.30 - 09.00 am **Keynote Lecture**
NIB conference room
Chair: **Radim Jancalek**

Matthew J Baker, Dxcover Ltd, University of Central
Lancashire, UK
Blood-based early diagnosis of brain cancer

09.00 - 10.30 am **Scientific Session 3 - WG3, Pathogenesis and Tumour
Profiling**
NIB conference room
Chairs: **Tugba Bagci-Onder, Yasin Kaymaz**

Talk 1, 20 min, on-line
Ibrahim Kulac, Koç University School of Medicine, Turkey
Recent advances in diagnosis of low-grade pediatric gliomas

Talk 2, 20min
Sevin Turcan, Ruprecht-Karls-Universitaet Heidelberg,
Germany
*Tumor heterogeneity and therapeutic vulnerabilities in IDH
mutant gliomas*

Short talk 1, 7 min
Sofija Jovanović Stojanov, Institute for Biological Research
"Siniša Stanković", National Institute of the Republic of Serbia,
Serbia
*3D Glioblastoma Cell Culture within Alginate Microfibers for
Long-Term Evaluation of Drug Effects*

Short talk 2, 7 min
Andreani Odysseos, Biomedical Research at EPOS-lasis, Cyprus
*Bio-Nanomachine Interfaces in Externally Controllable
Nanonetworks for Brain Tumour Management*

- Short talk 3, 7 min**
Vanessa Vermeirssen, Ghent University, Belgium
Characterizing regulatory heterogeneity and plasticity in glioblastoma through single-cell multi-omics data modelling
- Discussion WG3 (30 min)** Bagci-Onder, Kaymaz
Revising and planning WG activities
- 10.30 - 11.00 am **Coffee break & Poster session for WG3, WG4 and WG5**
NIB gallery
- 11.00 - 12.25 pm **Scientific Session 4 - WG4, Mathematical & Computational Modelling**
NIB conference room
Chair: **Gabriel F. Calvo**
- Talk 1, 20 min**
Robertas Damaševičius, Kaunas University of Technology, Lithuania
AI applications in Brain cancer
- Talk 2, 20min**
Margarida Julià-Sapé, Universitat Autònoma de Barcelona, Spain
Non-invasive monitoring to improve glioblastoma follow-up
- Short talk 1, 7 min, on-line**
Roberta Coletti, NOVA Math, Nova School of Science and Technology, Portugal
Advancing Glioma Research through Multi-Omics Network Discovery and Analysis
- Short talk 2, 7 min**
Ana Matoso, Institute for Systems and Robotics, Portugal
Towards a deep learning approach for classifying treatment response in glioblastomas
- Discussion WG4 (30 min)** Calvo
Revising and planning WG activities
- 12.25 - 13.30 pm **Lunch with optional NIB cancer research labs**
NIB gallery
- 13.30 - 23.00 pm **Welcome excursion, discussion and networking**
Lake Bled and Tulipan restaurant

Day 3

6 September, Friday

Scientific Program (all attendees)

- 09.00 - 10.30 am **Scientific Session 5 - WG5, Clinical Treatment Recommendation**
NIB conference room
Chair: Oliver Hanemann
- Talk 1, 20 min**
Marija Skoblar Vidmar, Institute of Oncology Ljubljana, Slovenia
Recurrent glioma: a diagnostic and therapeutic challenge
- Talk 2, 20min**
Johannes Haybäck, Tyrolpath Obrist Brunhuber GmbH, Austria
Eukaryotic translation initiation factors in brain tumors
- Short talk 1, 7 min**
Catarina Passarinho, Institute for Systems and Robotics (ISR-Lisboa), Portugal
Optimising Automated Segmentation of High-Grade Gliomas Through Deep Learning Strategies
- Short talk 2, 7 min**
Michal Hendrych, Department of Pathology, St. Anne's University Hospital and Faculty of Medicine, Masaryk University Brno, Czech Republic
Astrocytoma IDH-mutant with primitive neuronal component is a distinct subtype
- Discussion WG5 (30 min), Hanemann**
Revising and planning WG activities
- 10.30 - 11.00 am **Net4Brain Network discussion, dissemination & closing remarks**
NIB conference room
Chairs: Xinzhong Li, WG6 leader and SCC Terezia Kiskova
- 11.00 - 11.30 am **Coffee break**
NIB gallery
- 11.30 - 13.00 pm **Management Committee Meeting (only for MC members)**
- 13.00 - 13.30 pm **Lunch (only for MC members)**
NIB gallery