



SIOP-Europe Brain Tumour Group Pre-ISPAN Neuro-Oncology Symposium

**Organized by
SIOP-E BTG Training & Education Group**

**Convenors:
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**Marina Bay Sands, Singapore
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Molecular basis of Neuro-Oncology for Neurosurgeons: An update

The pre-meeting neuro-pathology, oncology and neurosurgery symposium is a half-day event, at the ISPN Congress venue at the Marina Bay Sands complex, in Singapore.

The symposium will deliver the exciting recent advances in the understanding of molecular biology of brain tumours by diverse but collaborating specialities.

The latest WHO classification 2021, includes an integrated diagnostic scheme that combines histological and molecular genetic information to provide the most accurate diagnostic and prognostic information. A summary of important new changes in the WHO CNS5 is explained.

Prof David Ellison and his team at St Jude Hospital have developed diagnostic clinical and molecular integrated neuropathological processes that allow implementation of these advances. The journey from the surgeon's table to the clinical pathologist's microscope and to the molecular pathologist's stratification tools is detailed by Dr Ash Merve from Great Ormond Street Hospital for Children.

Dr Enrica Tan will talk about how she used approaches for clinical molecular characterization of MB using historical samples to update the diagnosis of these patients.

Prof. Roger Packer will detail the progress made in translational medicine and emerging therapies along with our understanding of molecular biology and targeted treatments

Prof. Christian Dorfer will talk about how neurosurgeons may be changing their surgical approach based on the molecular stratification of MB and stresses the neurosurgical perspective on the site of origin of MB.

Germ Cell tumours is a mixed section with Prof Gabriele Calaminus from Germany, who is one of the most recognized names in the field. She will share experiences with Prof Bob Chen from Taiwan. They will discuss medical and surgical management.

Brainstem particularly H3K27M midline tumours remain a serious challenge to successful treatment. The use of Stereotactic & Robotic Brainstem Biopsy has significantly improved safety and in the era of molecular stratification may help identify biomarkers that may demonstrate increased survival or increased response to targeted therapies. A diagnostic brainstem biopsy has become the gatekeeper to a much-needed path for targeted biological therapies through clinical trials.

Finally, we review the impact of genomics on third-world oncological care. Prof. Simon Bailey from Newcastle, UK will talk on "How genomic Innovations are transforming outcomes in children's brain tumours in middle & low-income countries" Following this there will be a round table of experts from Latin America, Asia and Africa to offer their views on how they can further embed Molecular diagnosis into their clinical practice and how this influences surgical culture and approach to treatment. Prof Bailey & Mr Solanki will put it all together and summarise the round table discussion.

We Look forward to seeing all of you at the Molecular Biology in Neuro-oncology Symposium!

Guirish A Solanki John Apps Christian Dorfer Claudia Faria Enrico Opocher Yasmin Lassen