Technological breakthroughs in brain tumor treatment

October 31, 2014
Rotterdam, The Netherlands

Date	**Friday October 31, 2014**
Venue	**Collegezaal 2, Erasmus MC (faculteit), Onderwijscentrum**
Address	**Wytemaweg 80, 3015 CN Rotterdam**
Directions	**www.erasmusmc.nl/overerasmusmc/bereikbaarheid/**
Participant mix	**Neurologists, Neuro-oncologists, Neurosurgeons, Radiation Oncologists, Medical Oncologists, Radiologists**
Language	**English**
Registration	**www.hetcongresbureau.nl**
Fee	**The symposium is at no cost**
Accreditation	**Accreditation has been requested from NVN, NVVN, NVRO, NIV, NVR**

Organization and information

Erasmus MC – Het Congresbureau
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Speakers
Peter van de Spek, Vassilis Golfinopoulis, Mischa Hoogeman, Jean-Philippe Pignol, Wiro Niessen and Clemens Dirven

Keynote Lecture
Stefan Vilsmeier, CEO of Brainlab and recipient of the ISHA award for Medical Engineering

brain tumor center

Erasmus MC
University Medical Center Rotterdam
Cancer Institute

The care for brain tumor patients is increasingly multidisciplinary and complex, one of the reasons for the foundation of the **Brain Tumor Center** at Erasmus MC in 2013. Technological innovations have a substantially growing impact on the diagnosis and treatment of brain tumor patients. In this symposium, technologies that are expected to have a large impact on patient care in the coming 5 years, will be discussed.

The first session '**Power of –omics**' will discuss how to extract clinically useful knowledge from the ever increasing amount of data resulting from technological advances such as next generation sequencing. Also, the use of collaborative molecular screening platforms to bring precision medicine to the brain tumor patient will be discussed.

Erasmus MC and LUMC have joined forces with the TU Delft to realize the first treatment center for **proton therapy** in The Netherlands in 2016: the Holland Particle Therapy Centre (HollandPTC). In the second session, the basic physics, theoretical advantages and neuro-oncological indications of proton therapy will be presented.

The last session will focus on recent and future advances in i**maging technologies and neurosurgery**. The impact of new technologies on diagnosis and treatment are presented in recent and expected innovations in brain tumor surgery.

In the keynote lecture, the future of **neuronavigation** will be discussed. Stefan Vilsmeier (1967) is recipient of the International Steven Hoogendijk Award (ISHA) for Medical Engineering that was instituted by Het Bataafsch Genootschap, one of the oldest Dutch scientific societies (www.bataafschgenootschap.nl). He is not only the founding father of neuronavigation but also the CEO of Brainlab, a company specialized in surgical navigation systems that are used by most US topranked hospitals for neurology and neurosurgery.

We are looking forward to seeing you in Rotterdam!

The scientific and organizing committee and ISHA jury:
Martin van den Bent, Clemens Dirven and Peter Sillevis Smitt

Program, October 31, 2014

09:00 – 09:25	**Registration and coffee**
09:25 – 09:30	**Official opening**

A. Power of -omics

09:30 – 09:55	**Peter van der Spek (Head Dpt Bioinformatics, Erasmus MC, Rotterdam)**
	From data to knowledge: new insights in brain cancer subtyping
09:55 – 10:20	**Vassilis Golfinopoulis (Medical Vice Director, EORTC, Brussels)**
	The EORTC SPECTA platform: delivering the promise of precision medicine for (brain)cancer

B. Promise of proton therapy

10:20 – 10:45	**Mischa Hoogeman (Medical Physics, Dpt Radiation Oncology, Erasmus MC, Rotterdam)**
	The promises and challenges of proton therapy
10:45 – 11:10	**Jean-Philippe Pignol (Head Dpt Radiation Oncology, Erasmus MC, Rotterdam)**
	And protons for all?
11:10 – 11:40	**Coffee break**

C. Future of imaging and neurosurgery

11:40 – 12:05	**Wiro Niessen (Biomedical Imaging Group Rotterdam, Dpts Medical Informatics & Radiology, Erasmus MC, Rotterdam and Dpt Imaging Science and Technology, Faculty of Applied Sciences, Delft University of Technology, Delft)**
	Imaging brain anatomy, function and connectivity for improved diagnosis and therapy
12:05 – 12:30	**Clemens Dirven (Head Dpt Neurosurgery, Erasmus MC, Rotterdam)**
	The future of brain tumor surgery
12:30 – 13:00	**Stefan Vilsmeier (CEO Brainlab, Munich, Germany)**
	Neuronavigation: the best is yet to come? (Key note address)

Presentation of the International Steven Hoogendijk Award for Medical Engineering to Stefan Vilsmeier, Burgerzaal van het Stadhuis, Coolsingel 40, 3011AD Rotterdam

15:30	**Laudatio, presentation of ISHA award to Mr Vilsmeier by Mayor Aboutaleb, presentation by Mr Vilsmeier**
17:00	**Reception**