

## PROGRAM

### Thursday, 7 June

Start	End	Title	Speaker	Affiliation
09.00 AM	09.30 AM	Start of the day with coffee		
<b>PROTON THERAPY PHYSICS I</b>				
09.30 AM	10.00 AM	KEYNOTE: New developments in proton therapy treatment planning	Tony Lomax	PSI, Villigen
10.00 AM	10.30 AM	Smart data - The ART foundation	Hanne Kooy	MGH, Boston
10.30 AM	11.00 AM	New developments in proton therapy technology	Marco Schippers	PSI, Villigen
<b>PROTON THERAPY IN PELVIC TUMOURS</b>				
11.00 AM	11.30 AM	Proton therapy in retroperitoneal sarcoma	Bart Vanhauten	UMCG
11.30 AM	11.50 AM	IMPT in gynaecological cancer	Charlotte Brouwer	UMCG
11.50 AM	12.10 AM	IMPT in prostate cancer	Stefan Both	UMCG
12.10 PM	12.50 PM	LUNCH BREAK		
<b>PROTON THERAPY IN HEAD AND NECK TUMOURS</b>				
12.50 PM	01.20 PM	KEYNOTE: Proton therapy in head and neck cancer	Mischa Hoogeman	Erasmus MC, Rotterdam
01.20 PM	01.40 PM	Adaptive IMPT in head and neck cancer at GPTC	Dan Scandurra	UMCG
01.40 PM	02.00 PM	The added value of IMPT in the prevention of radiation-induced xerostomia	Roel Steenbakkers	UMCG
02.00 PM	02.20 PM	What if protons are not enough?. Stem cell therapy	Rob Coppes	UMCG
<b>PROTON THERAPY IN PAEDIATRIC PATIENTS</b>				
02.20 PM	02.50 PM	KEYNOTE: Proton therapy in paediatric patients	Anita Mahajan	Mayo Clinic, Rochester
02.50 PM	03.10 PM	Organization of paediatric proton therapy at UMCG	John Maduro	UMCG
03.10 PM	03.30 PM	Craniospinal axis irradiation	Hiske van der Weide	UMCG
03.30 PM	04.15 PM	TEA BREAK		
<b>FUTURE DIRECTIONS IN UMCG/GPTC</b>				
04.15 PM	04.25 PM	Introduction	Marian Joëls	UMCG
04.25 PM	04.45 PM	The biological point of view	Rob Coppes	UMCG
04.45 PM	04.55 PM	KVI-CART: experimental workplace for particle therapy research	Sytze Brandenburg	University of Groningen
04.55 PM	05.05 PM	The physics point of view	Stefan Both	UMCG
05.05 PM	05.15 PM	The physicians point of view	Hans Langendijk	UMCG
<b>CLOSING REMARKS</b>				
05.15 PM	05.20 PM	Closing remarks	Hans Langendijk	

### Accreditation

Accreditation of the program will be requested from the ABAN and VSR (Dutch participants only).

### Location

The conference will be held at DOT Groningen: [www.dotgroningen.nl](http://www.dotgroningen.nl)

Address:

Vrydemalaan 2  
9713 WS Groningen

### Travel Information

Several local buses depart from the railway station to the University Medical Center Groningen. Parking facilities are available in parking 'Boterdiep', entrance at Vrydemalaan (paid parking).

### Language

The official language during the conference is English. No simultaneous translation will be provided.

### Costs and registration

Registration is free of charge. You can sign up at [www.protontherapygroningen2018.com](http://www.protontherapygroningen2018.com)

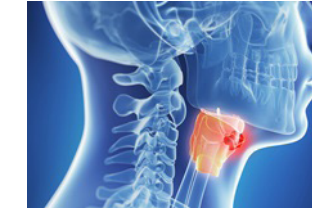
### Contact

For more information please contact the Wenckebach Instituut UMCG,

Postgraduate School of Medicine:

(t) +31-(0)50 361 90 24

(e) [paog@umcg.nl](mailto:paog@umcg.nl)



## Opening Symposium Proton Therapy @ Groningen

6 & 7 June 2018

# HIGH PRECISION, INNOVATION AND HEALTHY AGEING OF CANCER PATIENTS



**UMCG Oncology**  
Comprehensive Cancer Center



University Medical Center Groningen

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Dear Colleagues,

On behalf of the Department of Radiation Oncology at the University Medical Center Groningen, it is my pleasure to invite you to participate at our Proton Therapy Symposium, to be held at the University Medical Center Groningen, the Netherlands on 6-7 June 2018. The symposium marks the opening of the Groningen Proton Therapy Center. The scientific program will consist of lectures from top international experts and members of our team. The symposium aims to summarize what is scientifically known, learn about cutting edge research and share our strategy to bridge the gap between the clinical requirements and the current state of proton technology.

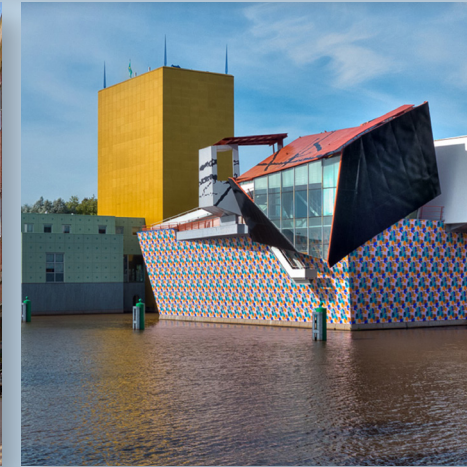
Thank you, and we look forward to seeing you in Groningen!  
Sincerely,

Professor Hans Langendijk  
*Chair of the department of Radiation Oncology*

Professor Stefan Both  
*Head of Medical Physics of the department of Radiation Oncology*

Professor Rob Coppes  
*Head of Radiation Biology section, department of Radiation Oncology*

Professor Sytze Brandenburg  
*Professor Accelerator Physics KVI - Center for Advanced Radiation Technology*



## PROGRAM

### Tuesday, June 5

06.00 PM 08.30 PM Registration, network reception and guided tour at the UMC Groningen proton therapy center

### Wednesday, June 6

Start	End	Title	Speaker	Affiliation
09.00 AM	09.30 AM	Registration & Coffee		
<b>OPENING</b>				
09.30 AM	09.40 AM	Welcome and opening	Hans Langendijk	UMCG
09.40 AM	10.00 AM	GPTC equipment and configuration	Arturs Meijers	UMCG
<b>THE MODEL-BASED APPROACH</b>				
10.00 AM	10.20 AM	Model-based selection in routine clinical practice	Hans Langendijk	UMCG
10.20 AM	10.40 AM	Development and selection of NTCP-models for model-based selection	Arjen van der Schaaf	UMCG
10.40 AM	11.00 AM	NTCP-model enrichment using radiomics	Marianna Sijtsma	UMCG
11.00 AM	11.30 AM	COFFEE BREAK		
<b>PROTON THERAPY in CENTRAL NERVOUS SYSTEM TUMOURS</b>				
11.30 AM	12.00 PM	KEYNOTE: Proton therapy in brain tumors	Helen Shih	MGH, Boston
12.00 PM	12.20 PM	Radiobiological aspects of brain irradiation	Lara Barazzuol	UMCG
12.20 PM	12.40 PM	Physical aspects of CNS pencil beam scanning	Roel Kierkels	UMCG
12.40 PM	01.40 PM	LUNCH BREAK		
<b>PROTON THERAPY IN THORACIC TUMOURS</b>				
01.40 PM	02.10 PM	KEYNOTE: Proton therapy in lung cancer	Steve Hahn	MDA, Houston
02.10 PM	02.30 PM	The potential role of protons to prevent cardiopulmonary toxicity	Peter van Luijk	UMCG
02.30 PM	02.50 PM	Proton therapy in esophageal cancer	Kristel Muijs	UMCG
02.50 PM	03.10 PM	Motion mitigation in pencil beam scanning proton therapy of intrathoracic tumors	Antje Knopf	UMCG
<b>PROTON THERAPY AND SYSTEMIC TREATMENT</b>				
03.10 PM	03.40 PM	KEYNOTE: Proton therapy and targeted agents	Gilles McKenna	UoO, Oxford
03.40 PM	04.25 PM	TEA BREAK		
<b>PROTON THERAPY IN BREAST CANCER</b>				
04.25 PM	04.55 PM	KEYNOTE: Proton therapy in breast cancer	Shannon MacDonald	MGH, Boston
04.55 PM	05.15 PM	Radiation-induced cardiac toxicity in breast cancer radiotherapy	Anne Crijns	UMCG
05.15 PM	05.35 PM	Physical aspects of breast cancer pencil beam scanning	Estelle Batin	UMCG