#### **OBJECTIVE**

• To find a cure for brain cancer in children, with focus on DIPG

## HIGHLIGHTS OF QUALIFICATIONS

- Resident in Pediatric Neurology: Baylor Texas Children's Hospital
- California Medical License
- Former Resident in Pediatric Neurology: Stanford Medicine
- Former Postdoctoral Fellow in Postnatal Neurodevelopment at Stanford
- PhD in Pediatric Neuro-Oncology
- Licensed **Doctor of Medicine** in the EU
- First authorship on 10 published manuscripts
- Began a novel line of research on DIPG
- Setup in vivo work in the NRG
- Numerous grants, awards and scholarships
- Extensive mentoring, international and volunteer experience



• Permanent Resident (Green Card Holder)



**EDUCATION** 

Baylor Texas Children's Hospital	(August 2019 - present)
· Houston, TX, USA	
Pediatric Neurology Resident	
Stanford University School of Medicine	(June 2017 – June 2019)
· Stanford, CA, USA	
Pediatric Neurology Resident	
Stanford University	(October 2012 – May 2017)
· Stanford, CA, USA	
Monje Lab	
Postdoctoral Fellow: "Neuro-glial Interactions in the Glioma Microer	
Stanford Optogentics Innovation Laboratory Course	(January 2013)
Cancer Center Amsterdam, VUmc	(May 2008 – July 2012)
· Amsterdam, The Netherlands	
Neuro-Oncology Research Group (NRG), VU University Medical Cer	
Ph.D. Project: "Diffuse intrinsic pontine gliomas: towards new treatm	nent strategies"
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Bicocca University of Medicine	~
Bicocca University of Medicine     Milan, Italy	~
Bicocca University of Medicine     Milan, Italy  Degree: Doctor of Medicine	(October 2000 – March 2007)
• Bicocca University of Medicine  • Milan, Italy  Degree: Doctor of Medicine  Thesis: "Non-dopaminergic systems in Parkinson's Disease: an [123 I]β-CIT	(October 2000 – March 2007)  SPECT Study"
Bicocca University of Medicine     Milan, Italy     Degree: Doctor of Medicine     Thesis: "Non-dopaminergic systems in Parkinson's Disease: an [123 I]β-CIT Student Council Representative to the Medicine Faculty	(October 2000 – March 2007)  SPECT Study"
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GRANTS
&
FELLOWSHIPS

# Lyla Nsouli foundation Brain Cancer Research Grant (2015) Bear Necessities Pediatric Cancer Foundation fellowship (2014) Child Health ResearchInstitute (CHRI) Grant Support Award (2013) Deans Postdoctoral Fellowship (Stanford University) (2013) American Italian Cancer Foundation (AICF) fellowship (not accepted) (2013)

#### **PUBLICATIONS**

- 1. M.H.A. Jansen\*, T. Lagerweij\*, A.C.P. Sewing\*, D.J. Vugts, D.G. van Vuurden, C.F.M. Molthoff, <u>V. Caretti</u>, S.J.E. Veringa, N. Petersen, A.M. Carcaboso, D.P. Noske, W.P. Vandertop, P. Wesseling, G.A.M.S. van Dongen, G.J.L. Kaspers, E. Hulleman. Bevacizumab targeting diffuse intrinsic pontine glioma: results of 89Zr-bevacizumab PET imaging in brain tumor models. *Mol Cancer Ther* (Sept 2016). 15(9):2166-74.
- H.S. Venkatesh\*, T.B. Johung\*, V. Caretti\*, A. Noll, Y. Tang, S. Nagaraja, E.M. Gibson, C.W. Mount, J. Polepalli, S.S. Mitra, P.J. Woo, R.C. Malenka, H. Vogel, M. Bredel, P. Mallick, M. Monje. Neuronal Activity Promotes Glioma Growth through Neuroligin-3 Secretion. *Cell* (May 2015). 161(4): 803816.
- A.C.P. Sewing\*, V. Caretti\*, T. Lagerweij\*, P. Schellen, M.H.A. Jansen, D.G. van Vuurden, S. Idema, C.F. Molthoff, W.P. Vandertop, G.J.L. Kaspers, D.P. Noske, E. Hulleman. Convection enhanced delivery of carmustine to the murine brainstem: A feasibility study. J Neurosci Methods (Dec 2014). 238:88-94.
- V. Caretti\*, M. Bugiani\*, M. Freret, P. Schellen, M.H.A. Jansen, D.G. van Vuurden, G.J.L. Kaspers, PG Fisher, E Hulleman, P. Wesseling, H Vogel, M Monje. Subventricular spread of diffuse intrinsic pontine glioma. *Acta Neuropathol* (Oct 2014). 128(4):605-7.
- 5. V. Caretti, C. Sewing, T. Lagerweij, P. Schellen, M. Bugiani, M.H.A. Jansen, D.G. van Vuurden, A.C. Navis, I. Horsman, P. Wesseling, W.P. Vandertop, D.P. Noske, G.J.L. Kaspers, E. Hulleman, H. Vogel, M. Monje\*, T. Wurdinger\*. Human pontine glioma cells can induce murine tumors. *Acta Neuropathol* (Apr 2014). 127(6):897-909.
- E. Giovannetti, Q.Wang, A. Avan, N. Funel, E. Galvani, T. Lagerweij, D. Chiasserini, J.H. Lee, <u>V. Caretti</u>, A. van der Velde, U. Boggi, Y. Wang, E. Vasile, G.J. Peters, T. Wurdinger, G. Giaccone. Role of CYB5A in pancreatic cancer prognosis and autophagy modulation. *JNCI* (Jan 2014). 106(1):djt346.
- A. Avan\*, <u>V. Caretti\*</u>, N. Funel\*, E. Galvani, M. Maftouh, R.J. Honeywell, T. Lagerweij, O.V. Tellingen, D. Campani, D. Fuchs, H.M. Verheul, G.J. Schuurhuis, U. Boggi, G.J. Peters, T. Wrdinger, E. Giovannetti. Crizotinib inhibits metabolic inactivation of gemcitabine in c-Met-driven pancreatic carcinoma. *Cancer Res* (Nov 2015). 73(22):6745-56.
- 8. V. Caretti\*, L. Hiddingh\*, T. Lagerweij, P. Schellen, P.W. Koken, E. Hulleman, D. van Vuurden, W.P. Vandertop, G. Kaspers, D.P. Noske, T. Wurdinger. WEE1 Kinase Inhibition Enhances the Radiation Response of Diffuse Intrinsic Pontine Gliomas. *Mol Cancer Ther* (Feb 2013). 12(2):141-50.
- 9. V. Caretti\*, M.H.A. Jansen\*, D.G. van Vuurden, T. Lagerweij, M. Bugiani, I. Horsman, H. Wessels, P. van der Valk, J. Cloos, D.P. Noske, W.P. Vandertop, P. Wesseling, T. Wurdinger, E. Hulleman, G. Kaspers. Implementation of a Multi-Institutional Diffuse Intrinsic Pontine Glioma Autopsy Protocol and Characterization of a Primary Cell Culture. *Neuropathol Appl Neurobiol* (Jun 2013). 39(4):426-36.
- 10. <u>V. Caretti</u>, D.P Noske, W.P. Vandertop, G. Kaspers, T. Wurdinger. Pioneering Preclinical Research in Diffuse Intrinsic Pontine Glioma: Towards New Treatment Strategies. *PhD Thesis* (July 2012).
- 11. S. Idema, <u>V. Caretti</u>, M. Lamfers, V. van Beusechem, D. Noske, W.P. Vandertop, C. Dirven. Anatomical differences determine distribution of adenovirus after convection-enhanced delivery to the rat brain. *PLoS One* (October 2011). 6(10) e24396.
- 12. V. Caretti, I. Zondervan, D. Meijer, S. Idema, W. Vos, B. Hamans, M. Bugiani, E. Hulleman, P. Wesseling, W. Vandertop, D. Noske, P. David G. Kaspers, C. Molthoff, T. Wurdinger. Monitoring of tumor growth and post-irradiation recurrence in a diffuse intrinsic pontine glioma mouse model. *Brain Pathology* (July, 2011). 21(4) 441-51.
- 13. V. Caretti, D. Stoffers, A. Winogrodzka, I-U. Isaias, G. Costantino, G. Pezzoli, C. Ferrarese, A. Antonini, E-Ch. Wolters, J. Booij. Loss of thalamic serotonin transporters in early drug-nave Parkinsons disease patients is associated with tremor: an [(123)I]beta-CIT SPECT study. *J Neural Transm* (May 2008). 115(5) 721-9.

### MEDICAL BOARDS

USMLE Step 1, 2CS, 2CK, 3 (October 2015 - August 2019)
 Medical Licensing Exam (July 2007)

· Milan, Italy

# MENTORSHIP & TEACHING

#### • Students Mentored

- 2 Undergraduate, 1 Medical, and 2 PhD Students (Stanford University) (2013 2016)
   Stanford, CA
   1 Undergraduate awarded the Stanford Firestone Medal (2016)
- · Amsterdam

#### Courses Taught

- Neurology (Osteopath School of Milan) (2005-2006)
  - · Milan

<sup>\*</sup> Equal Contribution

AWARDS FOR	• Hospital das Clinicas, Neurology Department (August – September 2007) • Belo Horizonte, Brazil	
INTERNATIONAL CLERKSHIPS	From: International Federation of Medical Students Associations  • Hospital Universitario Central de Asturias, Pnumology Department	
	· Oviedo, Spain	
	From: International Federation of Medical Students Associations	
HONORS	• SLIC Facilitator Stanford Leaders in Communication (June 2014) · Stanford, CA	
	Best Presentation Award OOA (Annual Oncology Graduate School) Retreat  To A TO Not to be a second of the seco	
	<ul> <li>Texel, The Netherlands</li> <li>Travel Award (December 2007)</li> <li>WFN World Congress on Parkinson's Disease and Related Disorders</li> <li>Amsterdam, The Netherlands</li> </ul>	
MEDIA	• Brains & Bourbon Ep18 Rethinking Brain Tumors(Sept 2014)	
WIEDIA	• brains & Bourbon Ept's Retiniking Brain Tumors	
	• Outside the tower. A night at the museum. Mention in Letter in Science	
	<ul> <li>http://goo.gl/3oHs1X</li> <li>NDRI Research Nexus: Brain Donations Empower Researchers at Stanford University(Dec 2013)</li> </ul>	1
	<ul> <li>http://goo.gl/PuhDzv</li> <li>Penguins &amp; Pajamas Neurotalk at the Academy of Arts and Sciences</li></ul>	,
	http://goo.gl/7TZ78Y	
SYMPOSIA & CONGRESSES	<ul> <li>Oral Presentations:         <ul> <li>DIPG Research Related:</li> <li>International Symposium on Pediatric Neuro-Oncology</li> <li>2 oral presentations</li> </ul> </li> </ul>	
	<ul> <li>Toronto, Canada</li> <li>Xth Dutch Pediatric Brain Tumor Group</li> </ul>	
	(KNOP & DCOG) symposium (June 2009)	
	<ul> <li>Nijmegen, The Netherlands</li> <li>Barcelona DIPG workshop (February 2009)</li> </ul>	ı
	· Barcelona, Spain	
	<ul> <li>Parkinsons Research Related:</li> </ul>	
	• WFN World Congress on Parkinson's Disease (December 2007)	
	and Related Disorders  • Amsterdam, The Netherlands	
	· Amsterdam, The Netherlands	
PROFESSIONAL THEATER	• Being Scene, director A. Hayes	
TRAINING & PERFORMANCE	• The Symphonic Body: Stanford, director A. Carlson (May 2013)  • Stanford, CA	
	• Advanced Theatre Laboratory, director G. Bagnoli	
	• Advanced Stage for Actors, director G. Bagnoli (August 2005)  • Florence, Italy	
	• 'Quelli di Grock' Theater School, 1 <sup>st</sup> and 2 <sup>nd</sup> year	

# ADDITIONAL INTERNATIONAL EXPERIENCES

Editorial International Meeting	(1993 – 1999)	
· Buntingford, United Kingdom		
The White House International Centre (Peace Child International)		
Financed by the United Nations.		
Artist-Editor and painter for the books:		
- 'Pachamama'	(1999)	
- 'Global Environment Outlook'	(1998)	
– 'a World in our Hands'	(1995)	
- 'Rescue Mission Planet Earth'	(1993)	
International Children's Peace Council	(1993 – 1998)	
<ul> <li>Various educational projects on sustainable development and human rigi</li> </ul>	hts in elementary and	
secondary schools.	-	
· Milan, Italy	(1996 – 2007)	
<ul> <li>Delegate in the Children's Food Summit</li> </ul>		
· Rome, Italy	(November 1996)	
- Delegate in the World Summit Children Project		
· San Jose, Costa Rica	(August 1996)	