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## HIGHLIGHTS OF QUALIFICATIONS

• Assistant Professor, Pediatrics, Division of Child Neurology and Principal Investigator:

**UTHealth Houston** 

• Residency: Baylor Texas Children's Hospital Pediatric Neurology - Neuroscience Track

- Texas Medical License
- California Medical License
- Residency: Stanford Medicine

Pediatric Neurology

• Former Postdoctoral Fellow at Stanford

Postnatal Neurodevelopment

• PhD Cancer Center Amsterdam

Pediatric Neuro-Oncology

- Licensed **Doctor of Medicine** in the EU
- First authorship on 10 published manuscripts, and 16 total
- 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

### WORK AUTHORIZATION

• Permanent Resident (Green Card Holder)

#### **EDUCATION**

· Houston, TX, USA McCullough Lab Postdoctoral Fellow: "The Role of Gut Dysbiosis in Sexually Dimorphic Outcomes after Neonatal Hypoxic Ischemic Encephalopathy" Baylor / Texas Children's Hospital (August 2019 – August 2023) · 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 Microenvironment" 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 Center (VUmc) Ph.D. Project: "Diffuse intrinsic pontine gliomas: towards new treatment strategies" • Bicocca University of Medicine (October 2000 – March 2007) · Milan, Italy Degree: Doctor of Medicine

Thesis: "Non-dopaminergic systems in Parkinson's Disease: an [123 I]β-CIT SPECT Study"

• Erasmus Project	(March – December 2006)
· Amsterdam, The Netherlands	
Experimental medical thesis internship at the VUmc (Neurology Departmen	t)
Impington Village College	(September 1998 – May 2000)
· Cambridge, United Kingdom	
International Baccalaureate	
Ranked 1 <sup>st</sup> among all foreign students and 2 <sup>nd</sup> in the graduating class.	
Tito Livio Liceum	(1994 – 1998)
· Milan, Italy	
Classical Studies including Greek and Latin	
·	
International Baccalaureate Ranked 1 <sup>st</sup> among all foreign students and 2 <sup>nd</sup> in the graduating class.  • Tito Livio Liceum  • Milan, Italy	(1994 – 1998)

# GRANTS & FELLOWSHIPS

PERF®-CNS Elterman & Shields Grant	(2024
DoP Pilot Grant Award UTHealth Houston	(2023
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. Korf JM, McCullough LD, Caretti V. A narrative review on treatment strategies for neonatal hypoxic ischemic encephalopathy. *Transl Pediatr*. 2023 Aug 30;12(8):1552-1571. doi: 10.21037/tp-23-253. Epub 2023 Aug 22. PMID: 37692539; PMCID: PMC10485647.
- Perla M, <u>Caretti V</u>, Moro MA, McCullough LD. Role of the Meningeal Lymphatics in Stroke. Stroke. 2023 Jun;54(6):1670-1673. doi: 10.1161/STROKEAHA.123.043424. Epub 2023 May 22. PMID: 37216448; PMCID: PMC10204316.
- C. Wang, S. Sinha, X. Jiang, S. Fitch, C. Wilson, <u>V. Caretti</u>, A. Ponnuswami, M. Monje, G. Grant, F, Yang. A comparative study
  of brain tumor cells from different age and anatomical locations using 3D biomimetic hydrogels. *Acta Biomaterialia* (Sept 2020).
  2020.09.007.
- 4. 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.
- 5. V. Caretti\*, H.S. Venkatesh\*, T.B. Johung\*, 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): 803–816.
- V. Caretti\*, A.C.P. Sewing\*, 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.
- 7. 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.
- 8. <u>V. Caretti</u>, 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.
- V. Caretti\*, A. Avan\*, 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.
- 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.
- 12. 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.
- 13. <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).
- 14. 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.
- 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.

	Loss of thalamic serotonin transporters in early drug-naive Parkinson's disease patients is associated with tremor: an [(123)I]beta-C. SPECT study. <i>J Neural Transm</i> (May 2008). 115(5) 721-9.  * Equal Contribution	iT		
MEDICAL BOARDS	• American Board of Psychiatry and Neurology (ABPN), Child Neurology Certification (September 2023)			
DOMEDO	• USMLE Step 1, 2 CS, 2 CK, 3 (October 2015 - August 201	9)		
	Medical Licensing Exam			
	· Milan, Italy			
ACADEMIC	• Baylor Texas Children's Hospital (2021 – presen	t)		
COMMITEE	· Houston, TX			
& COMMINITY	Child Neurology DEI (Diversity, Equity, and Inclusion) Committee	2.		
COMMUNITY SERVICE	• MIMS PTO Board Member (2021 – 2021) • Houston, TX	2)		
	Corporate Fundraising Chair Mandarin Immersion Magnet School Parent Teacher Organization			
	• MIMS Art Club (2021 – 2022)	2)		
	· Houston, TX			
	Founder and Instructor Mandarin Immersion Magnet School			
AWARDS	• PERF-CNS Elterman & Shields Research Grant, Child Neurology Society (August 202-	4)		
FOR	· Houston, TX			
INTERNATIONAL	From: Pediatric Epilepsy Research Foundation			
CLERKSHIPS, ELECTIVES &	• Hospital Infantil Dr. Robert Reid Cabral, Child Neurology Department (March 202)	2)		
HONORS	· Santo Domingo, Domenican Republic From: Baylor / Texas Children's Hospital			
HONORS	Hospital das Clinicas, Neurology Department	7)		
	• Hospital das Chincas, Neurology Department (August – September 200 • Belo Horizonte, Brazil	1)		
	From: International Federation of Medical Students Associations			
	• Hospital Universitario Central de Asturias, Pnumology Department	4)		
	From: International Federation of Medical Students Associations			
	• SLIC Facilitator Stanford Leaders in Communication (June 2014)	4)		
	· Stanford, CA			
	• Best Presentation Award (November 2010)	0)		
	OOA (Annual Oncology Graduate School) Retreat  • Texel, The Netherlands			
	• Travel Award (December 200)	7)		
	WFN World Congress on Parkinson's Disease and Related Disorders  • Amsterdam, The Netherlands			
MEDIA	• Brains & Bourbon Ep18 Rethinking Brain Tumors	4)		
	· http://goo.gl/qbEQNU			
	• Outside the tower. A night at the museum. Mention in Letter in Science	4)		
	· http://goo.gl/3oHs1X			
	• NDRI Research Nexus: Brain Donations Empower Researchers at Stanford University (Dec 201)	3)		
	http://goo.gl/PuhDzv	•		
	• Penguins & Pajamas Neurotalk at the Academy of Arts and Sciences (Sept 201)	3)		
	· http://goo.gl/7TZ78Y			

16. <u>V. Caretti</u>, D. Stoffers, A. Winogrodzka, I-U. Isaias, G. Costantino, G. Pezzoli, C. Ferrarese, A. Antonini, E-Ch. Wolters, J. Booij.

MENTORSHIP	Students Mentored	
&	- 2 research assistant, and 1 PhD candidate (UT Health)	(2023 – present)
TEACHING	· Houston, TX	
	<ul> <li>2 Undergraduate, 1 Medical, and 2 PhD Students (Stanford University)</li> </ul>	sity) (2013 – 2016)
	· Stanford, CA	
	<ul> <li>1 Undergraduate awarded the Stanford Firestone Medal</li> </ul>	(2016)
	- 3 Masters Students (Master Oncology, VUmc)	(2009 – 2011)
	· Amsterdam	
	• Courses Taught	
	- Neurology (Osteopath School of Milan)	(2005-2006)
	· Milan	
PROFESSIONAL	Being Scene, director A. Hayes	(November 2013)
THEATER	· Stanford, CA	
TRAINING &	The Symphonic Body: Stanford, director A. Carlson	(May 2013)
PERFORMANCE	· Stanford, CA	,
	Advanced Theatre Laboratory, director G. Bagnoli	(October 2004 — February 2006)
	· Milan, Italy	•
	Advanced Stage for Actors, director G. Bagnoli	(August 2005)
	· Florence, Italy	· · ·
	• 'Quelli di Grock' Theater School, 1st and 2nd year	(October 2002 — July 2004)
	Milan, Italy	· ,
ADDITIONAL	Editorial International Meeting	(1993 – 1999)
INTERNATIONAL	· Buntingford, United Kingdom	,
EXPERIENCES	The White House International Centre (Peace Child International)	
&	Financed by the United Nations.	
VISUAL ARTWORK	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 huma secondary schools.</li> </ul>	n rights in elementary and
	· Milan, Italy	(1996 – 2007)
	<ul> <li>Delegate in the Children's Food Summit</li> </ul>	(2220 2007)
	· Rome, Italy	(November 1996)
	Delegate in the World Summit Children Project	(
	· San Jose, Costa Rica	(August 1996)
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