

**HIGHLIGHTS  
OF  
QUALIFICATIONS**

- **Resident in Pediatric Neurology:** Neuroscience Track 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 at Cancer Center Amsterdam
- 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



**WORK  
AUTHORIZATION**

- Permanent Resident (Green Card Holder)

**EDUCATION**

- **UT Health Houston, The BRAINS Research Laboratory** ..... (July 2022 – present)
  - 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 – 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 Microenvironment*”
  - Stanford Optogenetics 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 [<sup>123</sup>I]β-CIT SPECT Study”
  - Student Council Representative to the Medicine Faculty ..... (2003 – 2004)
- **Erasmus Project** ..... (March – December 2006)
  - Amsterdam, The Netherlands
  - Experimental medical thesis internship at the VUmc (Neurology Department)
- **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

## MEDICAL BOARDS

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

## GRANTS & FELLOWSHIPS

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

## PUBLICATIONS

1. C. Wang, S. Sinha, X. Jiang, S. Fitch, C. Wilson, **V. Caretti**, 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.
2. M.H.A. Jansen\*, T. Lagerweij\*, A.C.P. Sewing\*, D.J. Vugts, D.G. van Vuurden, C.F.M. Molthoff, **V. Caretti**, 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.
3. **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 Neurologin-3 Secretion. *Cell* (May 2015). 161(4): 803816.
4. **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.
5. **V. Caretti**\*, M. Bugiani\*, M. Freret, P. Schellen, M.H.A. Jansen, D.G. van Vuurden, G.J.L. Kaspers, P.G. Fisher, E. Hulleman, P. Wesseling, H. Vogel, M. Monje. Subventricular spread of diffuse intrinsic pontine glioma. *Acta Neuropathol* (Oct 2014). 128(4):605-7.
6. **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.
7. E. Giovannetti, Q. Wang, A. Avan, N. Funel, E. Galvani, T. Lagerweij, D. Chiasserini, J.H. Lee, **V. Caretti**, 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.
8. **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.
9. **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.
10. **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.
11. **V. Caretti**, 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).
12. S. Idema, **V. Caretti**, 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.
13. **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.
14. **V. Caretti**, D. Stoffers, A. Winogrodzka, I-U. Isaías, G. Costantino, G. Pezzoli, C. Ferrarese, A. Antonini, E-Ch. Wolters, J. Booij. Loss of thalamic serotonin transporters in early drug-naïve Parkinsons disease patients is associated with tremor: an [(123)I]beta-CIT SPECT study. *J Neural Transm* (May 2008). 115(5) 721-9.  
\* Equal Contribution

## ACADEMIC COMMITTEE & COMMUNITY SERVICE

- **Baylor Texas Children's Hospital** ..... (2021 – present)  
· Houston, TX  
*Child Neurology DEI* Diversity, Equity, and Inclusion Committee
- **MIMS PTO Board Member** ..... (2021 – 2022)  
· Houston, TX  
*Corporate Fundraising Chair* Mandarin Immersion Magnet School Parent Teacher Organization
- **MIMS Art Club** ..... (2021 – 2022)  
· Houston, TX  
*Founder and Instructor* Mandarin Immersion Magnet School

## AWARDS FOR INTERNATIONAL CLERKSHIPS, ELECTIVES & HONORS

- **Hospital Infantil Dr. Robert Reid Cabral**, Child Neurology Department ..... (March 2022)  
 · *Santo Domingo, Dominican Republic*  
 Global Health Elective: *Texas Childrens Hospital*
- **Hospital das Clinicas**, Neurology Department ..... (August – September 2007)  
 · *Belo Horizonte, Brazil*  
 From: *International Federation of Medical Students Associations*
- **Hospital Universitario Central de Asturias**, Pnumology Department ..... (August 2004)  
 · *Oviedo, Spain*  
 From: *International Federation of Medical Students Associations*
- **SLIC Facilitator** Stanford Leaders in Communication ..... (June 2014)  
 · *Stanford, CA*
- **Best Presentation Award** ..... (November 2010)  
 OOA (Annual Oncology Graduate School) Retreat  
 · *Texel, The Netherlands*
- **Travel Award** ..... (December 2007)  
 WFN World Congress on Parkinson’s Disease and Related Disorders  
 · *Amsterdam, The Netherlands*

## MEDIA

- **Brains & Bourbon** Ep18 Rethinking Brain Tumors ..... (Sept 2014)  
 · <http://goo.gl/qbEQNU>
- **Outside the tower. A night at the museum.** Mention in Letter in Science ..... (July 2014)  
 · <http://goo.gl/3oHs1X>
- **NDRI Research Nexus: Brain Donations Empower Researchers at Stanford University** ..... (Dec 2013)  
 · <http://goo.gl/PuhDzv>
- **Penguins & Pajamas** Neurotalk at the Academy of Arts and Sciences ..... (Sept 2013)  
 · <http://goo.gl/7TZ78Y>

## 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)
  - 3 Masters Students (Master Oncology, VUmc) ..... (2009 – 2011)  
 · *Amsterdam*
- **Courses Taught**
  - Neurology (Osteopath School of Milan) ..... (2005-2006)  
 · *Milan*

## PROFESSIONAL THEATER TRAINING & PERFORMANCE

- **Being Scene**, director A. Hayes ..... (November 2013)  
 · *Stanford, CA*
- **The Symphonic Body: Stanford**, director A. Carlson ..... (May 2013)  
 · *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**, 1<sup>st</sup> and 2<sup>nd</sup> year ..... (October 2002 - July 2004)  
 · *Milan, Italy*

ADDITIONAL  
INTERNATIONAL  
EXPERIENCES  
&  
VISUAL ARTWORK

- **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)
  - Various educational projects on sustainable development and human rights in elementary and secondary schools.
    - *Milan, Italy* ..... (1996 – 2007)
  - Delegate in the *Children’s Food Summit*
    - *Rome, Italy* ..... (November 1996)
  - Delegate in the *World Summit Children Project*
    - *San Jose, Costa Rica* ..... (August 1996)