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Unravelling vascular tumors : combining molecular and computational biology

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Curriculum vitae

David Gerardus Pieter van IJzendoorn was born on December 3, 1990, in Leiden, the Netherlands. He attended bilingual pre-university education (natural sciences and technology track) at the Rijnlands Lyceum in Oegstgeest where he graduated in 2009. In 2010 he started with his medical studies at Leiden University. During the bachelor phase of his medical studies he followed the honors program and successfully finished the pre-master Biomedical sciences. A bachelor research internship at the Sir William Dunn School of Pathology at the University of Oxford supervised by Prof. dr. A.B. Hassan focused on the effect of mifamurtide on macrophages for the treatment of osteosarcoma. In a research internship during the master he participated in research into the effect of Wnt-inhibitors in osteosarcoma supervised by dr. A.M. Cleton-Jansen at the Department of Pathology of the Leiden University Medical Center. Thereafter he decided to put his masters study on hold to conduct his PhD research at the Department of Pathology of Leiden University Medical Center with prof. dr. J.V.M.G. Bovée and dr. K. Szuhai as his advisers. During his PhD research he received a travel grant from the Leiden University Fund that enabled him to spend three months at the Department of Biostatistics and Computational Biology of the Dana-Farber Cancer Institute, Harvard Medical School in Boston (MA), USA, supervised by dr. M.L. Kuijjer. The results of his PhD research are presented in this thesis. He is currently attending the clinical rotations to obtain his MD.

List of publications

- **van IJendoorn DGP**, Salvatori DCF§, Cao X§, van den Hil F, Briaire-de Bruijn IH, de Jong D, Mei H, Mummery CL, Szuhai K, Bovée JVMG†, Orlova VV†. Pseudomyogenic hemangioendothelioma recapitulated in endothelial cells from human induced pluripotent stem cells engineered to express the *SERPINE1-FOSB* translocation. *Submitted*. §,†Shared authorship
- Lam SW, **van IJendoorn DGP**, Cleton-Jansen AM, Szuhai K, Bovée JVMG. Molecular Pathology of Bone Tumors. *J Mol Diagnostics*. 2019;21: 171-182.
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I am grateful to my colleagues at the Department of Pathology and the Department of Cell and Chemical Biology (former Department of Molecular Cell Biology) for their support in the lab as well as their timely distractions outside of the lab. Danielle, thank you for always making time to discuss my experiments, for your indispensable help in the lab but most of all for your friendship. Inge, I thank you for your support with the technicalities of my experiments and our discussions. Renier, you made our room lively and my time as a PhD student so much more enjoyable.

I am grateful to dr. M.L. Kuijjer for the warm welcome in Boston and for her constructive feedback on my computational biology work. At the start of a career in science and at its critical junctures you sometimes need some wise advice, which prof. dr. H.J. Tanke and prof. dr. P.C.W. Hogendoorn were always willing to provide.

My loving parents, Jeanet and Rien, your advices and encouragements during our weekly dinners, many holidays and ice-skating excursions have been invaluable. Finally, Anne-Marlijn, thank you for your support and our many adventures.