In vitro models of bone-forming tumours: from target to treatment

Franceschini, N.

Curriculum Vitae

Natasja Franceschini was born on 3 February 1993 in The Hague, the Netherlands. She attended high school at Stanislascollege in Delft, where she graduated in 2011. After obtaining her diploma, she studied Medicine at Leiden University, but quickly realized this study was not a good match with her. Afterwards, she decided to study Biomedical Sciences at the Vrije Universiteit in Amsterdam instead. She continued her studies in the biomedical sciences with a Masters in Molecular Medicine at the Erasmus University in Rotterdam and obtained her degree in 2017. During the Molecular Medicine track, she had the opportunity to join two research labs in the Erasmus Medical Center for an internship. Her first master internship focused on senescence in mesenchymal stem cells, in the research group of Prof. Dr. Gerjo van Osch. Her second internship focused on bone metastasis, in the research group of Dr. Marjolein van Driel. Combining both topics has led her to conduct her PhD research on modeling bone-forming tumours at the Pathology department in the Leiden University Medical Center, in the bone and soft tissue tumour group led by Prof. Dr. Judith Bovée. Natasja is currently working as a Program Manager at Lygature, where she is responsible for the management of public-private partnerships.

List of publications

Johannes Lehmann, Roberto Narcisi, **Natasja Franceschini**, Danai Chatzivasileiou, Cindy G. Boer, Wendy J. L. M. Koevoet, Diana Putavet, Dubravka Drabek, Rien van Haperen, Peter L. J. de Keizer, Gerjo J. V. M. van Osch, Derk ten Berge. WNT/beta-catenin signalling interrupts a senescence-induction cascade in human mesenchymal stem cells that restricts their expansion. Cell Mol Life Sci 2022. doi: 10.1007/s00018-021-04035-x

Natasja Franceschini, Raffaele Gaeta, Paul Krimpenfort, Inge Briaire-de Bruijn, Alwine B. Kruisselbrink, Karoly Szuhai, Ieva Palubeckaitė, Anne-Marie Cleton-Jansen, Judith V.M.G. Bovée. A murine mesenchymal stem cell model for initiating events in osteosarcomagenesis points to CDK4/CDK6 inhibition as a therapeutic target. Lab Invest 2021. doi: 10.1038/s41374-021-00709-z

Natasja Franceschini, Jan Oosting, Maud Tamsma, Bertine Niessen, Inge Briaire-de Bruijn, Brendy van den Akker, Alwine B. Kruisselbrink, Ieva Palubeckaite, Judith V.M.G. Bovée, Anne-Marie Cleton-Jansen. Targeting the NAD salvage synthesis pathway as a novel therapeutic strategy for osteosarcomas with low NAPRT expression. Int J Mol Sci 2021. doi: 10.3390/ijms22126273

Natasja Franceschini, Bas Verbruggen, Marianna A. Tryfonidou, Alwine B. Kruisselbrink, Hans Baelde, Karin E. de Visser, Anne-Marie Cleton-Jansen, Judith V.M.G. Bovée. Transformed canine and murine mesenchymal stem cells as a model for sarcoma with complex genomics. Cancers 2021. doi: 10.3390/cancers13051126

Natasja Franceschini, Suk Wai Lam, Anne-Marie Cleton-Jansen and Judith V.M.G. Bovée. What's new in bone forming tumours of the skeleton? Virchows Arch 2020. doi: 10.1007/s00428-019-02683-w

Nawoord

Ik wil graag iedereen bedanken die geholpen heeft met het tot stand komen van dit proefschrift.

Allereerst wil ik Judith Bovée en Anne-Marie Cleton-Jansen bedanken dat ik mijn promotieonderzoek heb mogen uitvoeren en voor alle hulp die het uiteindelijk tot een mooi geheel hebben gemaakt.

Inge, Pauline, Brendy, Alwine en Hans: bedankt voor alle hulp in het lab en in het bijzonder voor het afronden van alle experimenten nadat ik het lab al had verlaten. Karoly, thank you for all your support and for always being able to come up with new ideas for experiments.

All PhD students and postdocs in P1-39 and P1-40, thank you for making my time at Pathology much more enjoyable. In particular Sheena, thank you for your never-ending voice messages, the endlessly wrapped birthday gift that made me crazy, all your Netflix show recommendations, and the surprise chocolates when I needed them the most. To summarize: you were always there for me and I hope I can return the favour when you are finishing your PhD.

Tenslotte wil ik ook mijn familie en vrienden bedanken voor alle steun de afgelopen jaren, en één persoon in het bijzonder: lieve Luke, dank je wel voor alle support, de mooie reizen die we gemaakt hebben, en jouw grapjes en liedjes die me stiekem toch wel op weten te vrolijken. Ik ben je erg dankbaar voor alle mooie momenten die we al samen hebben beleefd en hoop dat er nog velen komen.