



Universiteit  
Leiden  
The Netherlands

## Nanosized blood microparticles

Yuana, Y.

### Citation

Yuana, Y. (2011, October 27). *Nanosized blood microparticles*. Retrieved from <https://hdl.handle.net/1887/17987>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/17987>

**Note:** To cite this publication please use the final published version (if applicable).

## Curriculum vitae

Yuana was born in 1976, in Jakarta, Indonesia. In 1994, she was graduated from Christian I High School in Jakarta. In the same year, she continued her study at the Department of Food Technology in Bogor Agricultural University in Bogor, Indonesia and obtained her Bachelor of Science degree in 1998. In 1999, she started her study at the Department of Pharmacognosy, Institute of Biology at Leiden University in Leiden, The Netherlands and obtained her Master of Science degree in Biodiversity and Natural Products in 2001. From 2003, she was appointed at the Department of Medical Oncology in the Free University Medical Center in Amsterdam, where she worked on a project of circulating endothelial cells as markers for anti-angiogenic therapy. In 2006, she started her PhD thesis on the role of blood microparticles in cancer associated-thrombosis at the Department of Clinical Oncology in Leiden University Medical Center in Leiden under the supervision of Prof. Dr. S. Osanto and Prof. Dr. R.M. Bertina. The research was funded by a grant of the Dutch Cancer Society ("Microparticles, the missing link between Cancer and Thrombosis?") and experiments were conducted in the Einthoven Laboratory for Experimental Vascular Medicine, of the Leiden University Medical Center. Much of the work was done in close collaboration with the Department of Molecular Cell Biology, Section Electron Microscopy, of the Leiden University Medical Center, the Department of Biophysical Structural Chemistry, Leiden Institute for Chemistry and the Leiden Institute of Physics, of the Leiden University. One of her research highlights is the development of a novel method to detect blood microparticles by using atomic force microscopy (supervised by Prof. Dr. T.H. Oosterkamp and her promotores). She received a Young Investigator Award for this work at the 2009 International Society of Thrombosis and Haemostasis (ISTH) congress in Boston. She participated in the ISTH Scientific Subcommittee collaborative workshop on standardization of platelet-derived microparticle enumeration by flow cytometry with calibrated beads.



## List of publications

**Yuana Y**, Kuil ME, Oosterkamp TH, Bertina RM, Osanto S. Atomic force microscopy and the detection of nanosized blood microparticles. In: Nanomedicine and the Cardiovascular System. Science Publishers 2011.

Auwerda JJ, **Yuana Y**, Osanto S, de Maat MP, Sonneveld P, Bertina RM, Leebeek FW. Microparticle-associated tissue factor activity and venous thrombosis in multiple myeloma. *Thromb Haemost* 2011;105(1):14-20.

**Yuana Y**, Bertina RM, Osanto S. Pre-analytical and analytical issues in the analysis of blood microparticles. *Thromb Haemost* 2010;105(3):396-408.

**Yuana Y**, Oosterkamp TH, Bahatyrova S, Ashcroft B, Garcia RP, Bertina RM, Osanto S. Atomic force microscopy: a novel approach to the detection of nanosized blood microparticles. *J Thromb Haemost* 2010;8(2):315-23.

Vroling L, **Yuana Y**, Schuurhuis GJ, van Hinsbergh VW, Gundy C, de Haas R, van Crujsen H, Boven E, Hoekman K, Broxterman HJ. VEGFR2 expressing circulating (progenitor) cell populations in volunteers and cancer patients. *Thromb Haemost.* 2007;98(2):440-50.

Fontijn D, Duyndam MC, van Berkel MP, **Yuana Y**, Shapiro LH, Pinedo HM, Broxterman HJ, Boven E. CD13/Aminopeptidase N overexpression by basic fibroblast growth factor mediates enhanced invasiveness of 1F6 human melanoma cells. *Br J Cancer.* 2006;94(11):1627-36.

Hansma AH, Broxterman HJ, van der Horst I, **Yuana Y**, Boven E, Giaccone G, Pinedo HM, Hoekman K. Recombinant human endostatin administered as a 28-day continuous intravenous infusion, followed by daily subcutaneous injections: a phase I and pharmacokinetic study in patients with advanced cancer. *Ann Oncol.* 2005;16(10):1695-701.



## Acknowledgments

The results produced in this thesis are a reflection of a good collaboration between researchers with various expertise. Especially I would like to thank Tjerk Oosterkamp and Svetlana Bahatryrova who guided me through the knowledge of AFM. Also I thank Brian Ashcroft, Maarten van Es, and Frederica Galli who gave their excellent technical support during my research in the laboratory of Leiden Institute of Physics. I would like to thank Jan de Sonnevile and Maxim Kuil for their innovative contribution in designing the microfluidic chip. My enthusiastic students, Nicole de Groot and Wendy Damman, I like to thank you both for your assistance in setting up some of the experimental methods used in my project. I thank all the nurses in the Oncology poli, especially Jeanne van Stijn for helping me in patients-related research.

I have enjoyed my time working in the Clinical Oncology Laboratory. The members of the laboratory were always helpful, especially Lien who works behind the scene and keeps the laboratory up and running. I really thank you all for all fun in lab-weekends/outings and talks in coffee/lunch breaks. I thank colleagues in the Einthoven laboratory for their warm welcome when I had to move my research activities from the laboratory on the 5<sup>th</sup> floor to the 2<sup>nd</sup> floor. I especially enjoyed the time during meetings and congresses with you all. Patricia, Begum, Bernadine, and Chun Yu, in the last couple years of my project we shared good moments in the office room on the 7<sup>th</sup> floor and also helped each other in difficult times. Thank you for all fun talks and outings.

Finally, I would like to thank Patricia and Mark to become my paranimfs. Patricia, for all the hard work we did for more than 4 years in this project, I also wish you all the best for pursuing your dream and moving forward in a more challenging career. Mark, 9 years ago I was one of your paranimfs. It is really special to have you sitting now next to me during the defense of my thesis. After this, we and our newly born child, Oliver, will continue our exciting journey together.