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Thromboinflammation in high-risk human populations

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Curriculum Vitae

Lushun Yuan was born in Shanghai, China in 1992. In September 2011, he began his study of clinical medicine at Wuhan University, China. Following this, he interned for six months as a trainee in CHU Brabois, Service d'Urologie, Université de Lorraine, Nancy, France, starting from September 2015. In the summer of 2016, he obtained his Bachelor degree of Clinical medicine. In the same year, he started the master study of Clinical medicine (Surgery) and research in the department of Urology, Zhongnan Hospital of Wuhan University, China. There he worked as an intern in the department of Urology and did the research on urological malignancies. In June 2018, he graduated from Wuhan University in China with a Master of Clinical Medicine (Surgery). Meanwhile, he received funding from the China Scholarship Council for his PhD studies at Leiden University Medical Center in the Netherlands. From October 2018, he worked as a PhD candidate in the Department of Internal medicine, Division of Nephrology at Leiden University Medical Center. Under the supervision of Prof. T.J. Rabelink and Dr. B.M. van den Berg, he started the work of thromboinflammation in high-risk human populations. The results of his research were published in peer-reviewed international scientific journals and are presented in this thesis. After receiving his PhD, he will begin his residency training at Shanghai General Hospital in China.

List of publications

1. **Lushun Yuan**, Shuzhen Cheng, Wendy M P J Sol, Anouk I M van der Velden, Hans Vink, Ton J Rabelink, Bernard M van den Berg. Heparan sulfate mimetic fucoidan restores the endothelial glycocalyx and protects against dysfunction induced by serum of COVID-19 patients in the intensive care unit. *ERJ Open Res.* 2022 May 3;8(2):00652-2021.
2. **Lushun Yuan**, Ruifang Li-Gao, Aswin Verhoeven, Huub J. van Eyk, Maurice B. Bizino, Patrick C.N. Rensen, Ingrid M. Jazet, Hildo J. Lamb, Ton. J Rabelink, Martin Giera, Bernard M. van den Berg. Altered HDL composition is associated with risk for complications in type 2 diabetes mellitus in South Asian descendants: a cross-sectional, case-control study on lipoprotein subclass profiling. *Diabetes Obes Metab.* 2023 Aug;25(8):2374-2387.
3. **Lushun Yuan**, Jihee Han, Anouk I.M. van der Velden, Hans Vink, Renée de Mutsert, Frits R. Rosendaal, Astrid van Hylckama Vlieg, Ruifang Li-Gao, T.J Rabelink, Bernard M. van den Berg. Sex-specific association between microvascular health and coagulation parameters: the Netherlands Epidemiology of Obesity (NEO) Study. *J Thromb Haemost.* 2023 Jun 8;S1538-7836(23)00442-7.
4. **Lushun Yuan**, Niek Blomberg, Aswin Verhoeven, Huub J. van Eyk, Maurice B. Bizino, Patrick C.N. Rensen, Ingrid M. Jazet, Hildo J. Lamb, Ton. J Rabelink, Martin Giera, Bernard M. van den Berg. Diacylglycerol abnormalities in diabetic nephropathy in Dutch South Asians and Dutch white Caucasians with type 2 diabetes mellitus: lipidomic phenotyping of plasma in a cross-sectional study. (under review)
5. **Lushun Yuan**, Aswin Verhoeven, Shuzhen Cheng, Wendy M P J Sol, Ton. J Rabelink, Martin Giera, Bernard M. van den Berg. High-density lipoprotein composition related to endothelial dysfunction is associated with disease outcome in COVID-19 patients. *Metabolites* (in preparation)

6. Shuzhen Cheng, Di Wu, **Lushun Yuan**, Hanxiong Liu, Hesham R Ei-Seedi, Ming Du. *Crassostrea gigas*-Based Bioactive Peptide Protected Thrombin-Treated Endothelial Cells against Thrombosis and Cell Barrier Dysfunction. *J Agric Food Chem.* 2022 Aug 10;70(31):9664-9673.
7. Gangqi Wang, Bram Heijs, Sarantos Kostidis, Rosalie G J Rietjens, Marije Koning, **Lushun Yuan**, Gesa L Tiemeier, Ahmed Mahfouz, Sébastien J Dumas, Martin Giera, Jesper Kers, Susana M Chuva de Sousa Lopes, Cathelijne W van den Berg, Bernard M van den Berg, Ton J Rabelink. Spatial dynamic metabolomics identifies metabolic cell fate trajectories in human kidney differentiation. *Cell Stem Cell.* 2022 Nov 3;29(11):1580-1593.e7.

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