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Novel strategies targeting lipid metabolism to combat sepsis

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List of Publications

1. Li M[#], Barros-Pinkelning M[#], Arbous MS, Christoffersen C, Rensen PCN, Kooijman S. High density lipoprotein: both a biomarker and therapeutic target in sepsis. **Critical Care** **2025**, 29: 453.
doi: 10.1186/s13054-025-05702-2. 2025 Oct 27. PMID: 41146232.
2. Li M, Arbous MS, Kastelein JJP, Rensen PCN, Kooijman S, Noordam R. Genetically-influenced HDL Concentration, Composition and Modulation and the Risk of Sepsis: A Mendelian Randomization Study [preprint]. **MedRxiv** **2025**.
doi: 10.1101/2025.03.31.25324957.
3. Li M, Noordam R, Winter EM, van Meurs M, Bouma HR, Arbous MS, Rensen PCN, Kooijman S. Hydrocortisone-associated death and hospital length of stay in patients with sepsis: A retrospective cohort of large-scale clinical care data. **Biomed Pharmacother** **2024**, 170: 115961.
doi: 10.1016/j.biopha.2023.115961. Epub 2023 Nov 30. PMID: 38039761.
4. Li M, Noordam R, Trompet S, Winter EM, Jukema JW, Arbous MS, Rensen PCN, Kooijman S. The impact of statin use on sepsis mortality. **J Clin Lipidol** **2024**, 18: e915-925.
doi: 10.1016/j.jacl.2024.07.006. Epub 2024 Jul 27. PMID: 39299824.
5. Li M, Barros-Pinkelning M, Weiss G, Rensen PCN, Kooijman S. Brown adipose tissue facilitates the fever response following infection with Salmonella enterica serovar Typhimurium in mice. **J Lipid Res** **2024**, 65: 100617.
doi: 10.1016/j.jlr.2024.100617. Epub 2024 Aug 9. PMID: 39128824
6. Modder M, In het Panhuis W, Li M, Afkir S, Dorn AL, Pronk ACM, Streefland TCM, Lalai RA, Pierrou S, Nilsson SK, Olivecrona G, Kooijman S, Rensen PCN, Schönke M. Liver-targeted Angptl4 silencing by antisense oligonucleotide treatment attenuates hyperlipidemia and atherosclerosis development in APOE*3-Leiden.CETP mice. **Cardiovasc Res** **2024**, 120: 2179-2190.
doi: 10.1093/cvr/cvae195. Epub 2024. PMID: 39259836.
7. White NA[#], Xiao Z[#], DE Winter EP, Li M, DE Vries MR, VAN DER Bogt KE, Rotmans JI. Hemodynamic considerations in arteriovenous vascular access modalities for hemodialysis. **J Cardiovasc Surg** **2024**, 66: 3-16
doi: 10.23736/S0021-9509.24.13205-3. Epub 2024 Nov 29. PMID: 39612189.

8. Gui C, Xiao Z, Li M, Xu J. Air pollution promotes the incidence and progression of cardiovascular-kidney-metabolic syndrome: a nationwide prospective cohort study. **BMC Public Health, in press**
9. Gui C[#], Xiao Z[#], Li M, Xu J. Moderate adiposity mitigates renal functional decline during aging in healthy middle-aged and older population. Submitted.
10. Li M, Ditmarsch M, Davidson M, De Kleer M, Brunham L, Noordam R, Kastelein JJP, Rensen PCN, Kooijman S. Inhibition of cholesteryl ester transport protein by obicetrapib prevents polymicrobial sepsis-related mortality in APOE*3-Leiden.CETP mice. In preparation.
11. Li M[#], van der Vaart JI[#], Stattau Bisgaard L, Christoffersen C, Kooijman S, Rensen PCN. Role of Apolipoprotein M in modulating sepsis pathophysiology. In preparation.
12. Li M[#], van der Vaart JI[#], Noordam R, van Vlijmen BJM, Rensen PCN, Kooijman S. Impact of Apolipoprotein F on sepsis-related mortality and recovery. In preparation.

Curriculum vitae

Mohan Li was born on the 1st of February 1994, in Xuzhou, Jiangsu province, China.

In June 2012, she obtained her high school diploma at Xuzhou No.1 Middle School. In September 2012, she was enrolled in a combined Bachelor's and Master's program in Clinical Medicine at Soochow University. In August 2017, she commenced China's standardized residency training at The First Affiliated Hospital of Soochow University. From 2017 to 2020, Mohan served as a teaching assistant for a clinical skills course at Soochow University, designed for international medical students.

In June 2020, she obtained both her bachelor's and master's degrees in Clinical Medicine, graduating with honors and receiving scholarships. From December 2020, Mohan worked as a Medical Assistance Expert at The Affiliated Kezhou People's Hospital of Nanjing Medical University, focusing on medical aid and training in clinical study design.

In September 2021, Mohan joined the group of Prof. dr. Patrick Rensen within the Division of Endocrinology at the Department of Internal Medicine of the Leiden University Medical Center in the Netherlands. Under the supervision of Prof. dr. Patrick Rensen, Dr. Sander Kooijman, and Dr. Raymond Noordam, she focused on the crosstalk between lipid metabolism and sepsis. In May 2025, Mohan was awarded a grant of the Leiden University Fund to further investigate the role of HDL in sepsis.

The majority of her doctoral research, which is presented in this thesis, was completed by 2025.

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this path has been filled with countless moments when lightning brushed past the stars, yet I never stopped moving forward. I am therefore deeply grateful to Xinghui Shen for being with me during the final stage of my PhD, giving me the courage to face setbacks and adversity.]

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This journey has been long, yet it has felt like a gentle breeze carrying me across calm seas. At last, I arrive here—stronger, wiser, and with both an M.D. and a Ph.D.

Per aspera ad astra.