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Malaria vaccinology: from the development of a new malaria vaccine to the ethics of clinical trial participation

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Curriculum vitae

Olivia Aurelia Catherina Lamers was born on the 18th of January 1994 in Freiburg im Breisgau, Germany. She went to school in Germany and Italy, graduating from high school in 2012. She then moved to The Netherlands where she enrolled in a Liberal Arts and Sciences bachelor with a focus on life sciences at Maastricht University College, The Netherlands. As part of the programme she spent a semester at the University of Sydney, Australia. She graduated in 2015.

Given her desire to combine basic research with medical care, she pursued the Selective Utrecht Medical Master (SUMMA), from which she graduated in 2020. Her master thesis focussed on post-operative opioid use in Netherlands and the United States of America, the findings of which were published in *Pain Management* and *Anesthesia & Analgesia*. During her master's, Olivia took part in a global health course, which ignited her interest for neglected tropical diseases and specifically malaria. She then proceeded to do a Ph.D. on the topic of malaria in Prof. Dr. Meta Roestenberg's group at Leiden University Medical Center in Leiden, The Netherlands, the results of which are presented in this thesis.

List of publications

1. Lamers, Olivia AC, et al. "Ins en outs van stoppen met roken behandeling." *PIL* (2018).
2. Lamers, Olivia AC, et al. "Opioid-related beliefs and prescription modalities for postoperative pain of Dutch and American physicians." *Pain management* 9.3 (2019): 239-250.
3. Lamers, Olivia AC, et al. "Treatment strategies for GLILD in common variable immunodeficiency: a systematic review." *Frontiers in immunology* 12 (2021): 606099.
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5. Lamers, Olivia AC., et al. "The path from early-to late-liver stage arresting genetically attenuated parasites as a malaria vaccination strategy." *npj Vaccines* 10.1 (2025): 218.
6. Lamers, Olivia AC, et al. "What motivates SARS-CoV-2 vaccine trial participants? A pre-and post-participation survey study." *Trials* 25.1 (2024): 740.
7. Franke-Fayard, Blandine, et al. "Creation and preclinical evaluation of genetically attenuated malaria parasites arresting growth late in the liver." *npj Vaccines* 7.1 (2022): 139.
8. van der Plas, Johan L., et al. "Causal chemoprophylactic activity of cabamiquine against *Plasmodium falciparum* in a controlled human malaria infection: a randomised, double-blind, placebo-controlled study in the Netherlands." *The Lancet Infectious Diseases* 23.10 (2023): 1164-1174.
9. Koopman, Jan Pieter R., et al. "Safety and infectivity of female cercariae in *Schistosoma*-naïve, healthy participants: A controlled human *Schistosoma mansoni* infection study." *EBioMedicine* 97 (2023).
10. Roozen, Geert VT, et al. "Intradermal delivery of the third dose of the mRNA-1273 SARS-CoV-2 vaccine: safety and immunogenicity of a fractional booster dose." *Clinical Microbiology and Infection* (2024).
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13. Koopman, Jan Pieter R., et al. "Clinical tolerance but no protective efficacy in a placebo-controlled trial of repeated controlled schistosome infection." *The Journal of Clinical Investigation* 135.4 (2025).
14. Colstrup, Emil, et al. "Correlative humoral and cellular immunity to genetically attenuated malaria parasites in humans." *iScience* 28.6 (2025).

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