Stanford



Laura van Dam

Postdoctoral Scholar, Immunology and Rheumatology

Bio

BIO

I am both trained as a biomedical researcher and medical doctor in internal medicine and strive to close the gap between the clinic and fundamental sciences with translational research. My focus is to study the mechanisms of autoimmune diseases and to translate research insights into therapeutics targeting autoimmunity. I have received my PhD in 2022 in Leiden for studying neutrophil extracellular traps and autoreactive B cells in renal autoimmune diseases. My postdoctoral research project in the Robinson lab focuses on investigating the underlying molecular mechanisms of the pathogenesis of ANCA-associated vasculitis. I particularly aim to identify potential microbial triggers and molecular mimicry in ANCA-associated vasculitis, by characterizing the nasal microbiome and sequencing T cells and B cells of ANCA-associated vasculitis patients.

HONORS AND AWARDS

- Marie Curie Fellowship, European Union (2024)
- Selected for the best 30 abstracts, ERA-EDTA (2018)
- Full travel grant NVVI, Dutch Federation of Immunology (NVVI) (2018)
- Second prize in best abstract and oral presentation, Dutch Federation of Nephrology (NFN) Benelux Kidney Meeting (2019)
- Kidney Star award recipient, American Society of Nephrology (ASN) (2019)

PROFESSIONAL EDUCATION

- PhD, Leiden University Medical Center Department of Nephrology , “Targeting autoimmunity in renal diseases: focus on neutrophil extracellular traps and autoreactive B-cells” (2022)
- MSc, University of Utrecht - Selective Utrecht Medical Master (SUMMA) , Clinical Research (2016)
- MD, University of Utrecht - Selective Utrecht Medical Master (SUMMA) , Medicine (2016)
- BSc, University of Amsterdam , Biomedical Sciences (2011)

STANFORD ADVISORS

- William Robinson, Postdoctoral Faculty Sponsor
- PJ Utz, Postdoctoral Research Mentor

Research & Scholarship

LAB AFFILIATIONS

- William Robinson, Robinson Lab (2/1/2023)

Publications

PUBLICATIONS

- **Cytotoxic T cell recognition of α-synuclein drives pathogenic immune responses in multiple system atrophy.** *Proceedings of the National Academy of Sciences of the United States of America*

  Moon, J. S., Moutusy, S. I., Zhang, M., Ndayisaba, A., Rodriguez, D., El Kodsi, D. N., Kuzkina, A., Younis, S., Jahanbani, S., Dam, L. S., Courtney, Y., Netanel, A., Sharpe, et al

  2026; 123 (14): e2537271123

- **Antigen-specific B cells cross-present citrullinated proteins to activate CD8 T cells in rheumatoid arthritis**

  Moon, J., Van Dam, L., Smith, M., Donlin, L. T., Sharpe, O., Robinson, W. H.

  OXFORD UNIV PRESS.2025

- **Characterizing ANCA-specific B Cells in ANCA-associated Vasculitis**

  van Dam, L., Zhang, M., Parsafar, S., Horomanski, A., Rasouli, S., Sharpe, O., van Leeuwen, J., Lanz, T., van Kooten, C., Teng, O., Robinson, W. H.

  WILEY.2025: 3288-3292

- **Identification of Autoreactive Cytotoxic T Cells in ANCA-Associated Vasculitis**

  van Dam, L., Younis, S., Moon, J., Zhang, M., Parfasar, S., Horomanski, A., Sharpe, O., van Leeuwen, J., Lanz, T., van Kooten, C., Teng, O., Robinson, W.

  WILEY.2024: 3781-3785

- **ExploriNg DUrable Remission with Rituximab in ANCA-associatEd vasculitis (ENDURRANCE trial): protocol for a randomised controlled trial.** *BMJ open*

  Dirikgil, E., van Leeuwen, J. R., Bredewold, O. W., Ray, A., Jonker, J. T., Soonawala, D., Remmelts, H. H., van Dam, B., Bos, W. J., van Kooten, C., Rotmans, J., Rabelink, T., Teng, et al

  2022; 12 (9): e061339

- **Compassionate Use of Avacopan in Difficult-to-Treat Antineutrophil Cytoplasmic Antibody-Associated Vasculitis.** *Kidney international reports*

  van Leeuwen, J. R., Bredewold, O. W., van Dam, L. S., Werkman, S. L., Jonker, J. T., Geelhoed, M., Langeveld, A. P., Remmelts, H. H., van den Broecke, M. M., Ray, A., Rabelink, T. J., Teng, Y. K.

  2022; 7 (3): 624-628

- **PR3-ANCAs predict relapses in ANCA-associated vasculitis patients after rituximab.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*

  van Dam, L. S., Dirikgil, E., Bredewold, E. W., Ray, A., Bakker, J. A., van Kooten, C., Rabelink, T. J., Teng, Y. K.

  2021; 36 (8): 1408-1417

- **Long-term effects of combined B-cell immunomodulation with rituximab and belimumab in severe, refractory systemic lupus erythematosus: 2-year results.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*

  Kraaij, T., Arends, E. J., van Dam, L. S., Kamerling, S. W., van Daele, P. L., Bredewold, O. W., Ray, A., Bakker, J. A., Scherer, H. U., Huizinga, T. J., Rabelink, T. J., van Kooten, C., Teng, et al

  2021; 36 (8): 1474-1483

- **Highly Sensitive Flow Cytometric Detection of Residual B-Cells After Rituximab in Anti-Neutrophil Cytoplasmic Antibodies-Associated Vasculitis Patients.** *Frontiers in immunology*

  van Dam, L. S., Oskam, J. M., Kamerling, S. W., Arends, E. J., Bredewold, O. W., Berkowska, M. A., van Dongen, J. J., Rabelink, T. J., van Kooten, C., Teng, Y. K.

  2020; 11: 566732

- **A reverse translational study on the effect of rituximab, rituximab plus belimumab, or bortezomib on the humoral autoimmune response in SLE.** *Rheumatology (Oxford, England)*

  van Dam, L. S., Osmani, Z., Kamerling, S. W., Kraaij, T., Bakker, J. A., Scherer, H. U., Rabelink, T. J., Voll, R. E., Alexander, T., Isenberg, D. A., van Kooten, C., Teng, Y. K.

  2020; 59 (10): 2734-2745

- **Intrinsically Distinct Role of Neutrophil Extracellular Trap Formation in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis Compared to Systemic Lupus Erythematosus.** *Arthritis & rheumatology (Hoboken, N.J.)*

van Dam, L. S., Kraaij, T., Kamerling, S. W., Bakker, J. A., Scherer, U. H., Rabelink, T. J., van Kooten, C., Teng, Y. K.
2019; 71 (12): 2047-2058

- **Clinical Implications of Excessive Neutrophil Extracellular Trap Formation in Renal Autoimmune Diseases.** *Kidney international reports*
  van Dam, L. S., Rabelink, T. J., van Kooten, C., Teng, Y. K.
  2019; 4 (2): 196-211
- **A High-throughput Assay to Assess and Quantify Neutrophil Extracellular Trap Formation.** *Journal of visualized experiments : JoVE*
  Arends, E. J., van Dam, L. S., Kraaij, T., Kamerling, S. W., Rabelink, T. J., van Kooten, C., Teng, Y. K.
  2019
- **Excessive neutrophil extracellular trap formation in ANCA-associated vasculitis is independent of ANCA.** *Kidney international*
  Kraaij, T., Kamerling, S. W., van Dam, L. S., Bakker, J. A., Bajema, I. M., Page, T., Brunini, F., Pusey, C. D., Toes, R. E., Scherer, H. U., Rabelink, T. J., van Kooten, C., Teng, et al
  2018; 94 (1): 139-149
- **Expression and clinical association of programmed cell death-1, programmed death-ligand-1 and CD8+ lymphocytes in primary sarcomas is subtype dependent.** *Oncotarget*
  van Erp, A. E., Versleijen-Jonkers, Y. M., Hillebrandt-Roeffen, M. H., van Houdt, L., Gorris, M. A., van Dam, L. S., Mentzel, T., Weidema, M. E., Savci-Heijink, C. D., Desar, I. M., Merks, H. H., van Noesel, M. M., Shipley, et al
  2017; 8 (41): 71371-71384
- **Deficiency of Nuclear Receptor Nur77 Aggravates Mouse Experimental Colitis by Increased NFkB Activity in Macrophages** *PLOS ONE*
  Hamers, A. A. J., van Dam, L., Duarte, J., Vos, M., Marinkovic, G., van Tiel, C. M., Meijer, S. L., van Stalborch, A., Huveneers, S., Velde, A., de Jonge, W. J., de Vries, C. J. M.
  2015; 10 (8): e0133598
- **The role of programmed cell death-1 (PD-1) and its ligands in pediatric cancer.** *Pediatric blood & cancer*
  van Dam, L. S., de Zwart, V. M., Meyer-Wentrup, F. A.
  2015; 62 (2): 190-197