



**Karolinska
Institutet**



Short CV **Vivianne Malmström**

Research group leader Division of rheumatology, Dept of Medicine

Research group leader Center for Molecular Medicine (CMM)

Karolinska Institutet (KI), Stockholm, Sweden

Professor in rheumatological immunology since 2014

PhD 1997 Lund University, post doc (1) at University of Oxford 1997-2000,
Transitioned to KI in 2000, assoc prof at KI from 2006

Visiting professor in Oxford (Kennedy inst for rheumatology) 2015-16

Research interest: Autoimmunity and immune tolerance. Adaptive immunity in rheumatic disease. Antigen specificity including TCR and BCR repertoires.

PhD graduates in research group

As main supervisor 9 previous and 2 present

As co-supervisor 17 previous and 4 current

Postdoc supervisor 16 previous and 2 current

Head of CMM flow cytometry core facility

2015-2021 Board member of the Scandinavian society of immunology (SSI)

Research grants (recent selection)

Swedish research council	2020-2026, € 740 000
Swedish rheumatism association	2020-2027, € 220 000
King Gustav Vth 80y fund	2020-2027, € 360 000
Börje Dahlin foundation	2026, € 270 000

Pfizer research grant	2022-2024, € 1 000 000
Governmental grant for clinical research	2023-2026, € 180 000

EU and IMI project activity: Autocure (2006-2011) FP6 project
BTCure (2011-2017) IMI project
RTCure (2017-2023) IHI project
MDR-RA (2025-2029)

Evaluation of grants and thesis etc

External examiner for PhD thesis	8 national and 5 international
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Wellcome trust, Dutch rheuma association, Icelandic research fund, Academy of Finland, Deutsche forschungsgemeinschaft (DFG), ERC starting grants...

2018-2021, 2022-2025

Scientific advisory board (SAB) member of DRFZ (Deutsche ReumaForschungsZenter) Berlin

Invited speaker (a recent selection)

2026	6 th International Therapeutic Tolerance Workshop, Newcastle UK
2025	IFRA (international forum for rheumatoid arthritis) Oxford, UK
2025	EULAR Barcelona
2024	ACR Washington DC
2023	EULAR Milan
2023	EWRR (European workshop for rheumatology research) Dublin
2022	BSI Liverpool
2022	ACR Philadelphia
2022	5 th International Therapeutic Tolerance Workshop, Newcastle UK

Key publications

overall 153 original papers, 24 reviews and 11 editorials and letters
h-index 59 (web of science)

Michaëlsson E, Malmström V, Burkhardt H, Engström E and Holmdahl R. T-cell recognition of carbohydrates on type II collagen. **J Exp Med.** 1994. 180: 745-749.

Malmström V, Michaëlsson E, Burkhardt H, Mattsson R, Vuorio E and Holmdahl R. Systemic versus Cartilage Specific Expression of a Type II Collagen Specific T Cell Epitope Determines the Level of Tolerance and Susceptibility to Arthritis. **Proc Natl Acad Sci (USA)**. 1996. 93: 4480-4485

Read S, Malmström V and Powrie F. CTLA-4 plays an essential role in the function of CD25+CD4+ regulatory cells which control intestinal inflammation. **J Exp Med** **2000**. 192:295-302

Cao D*, [Malmström V*](#), Baecher-Allen C, Hafler D, Klareskog L and Trollmo C. Isolation and functional characterization of regulatory CD25bright CD4+ T cells from the target organ of patients with rheumatoid arthritis. **Eur J Immunol.** **2003.** 33:215-223

Snir O, Rieck M, Gebe JA, Yue BB, Rawlings CA, Nepom G, [Malmström V](#) and Buckner JH. Identification and functional characterization of T cells reactive to citrullinated vimentin in HLA-DRB1*0401 humanized mice and rheumatoid arthritis patients. **Arthritis Rheum** **2011** 63:2873-2883. (IF:7.87) ([highlighted in an editorial in the October issue of A&R](#))

Gerstner C, Dubnovitsky A, Sandin C, Kozhukh G, Uchtenhagen H, James EA, Rönnelid J, Ytterberg AJ, Pieper J, Reed E, Tandre C, Rieck M, Zubarev R, Rönnblom L, Sandalova T, Buckner JH, Achour A and [Malmström V](#). Functional and structural characterization of a novel HLA-DRB1*04:01-restricted a-enolase T cell epitope in Rheumatoid Arthritis. **2016 Frontiers Immunology** 7:494

[Malmström V](#), Catrina AI, and Klareskog L. The immunopathogenesis of seropositive rheumatoid arthritis: from triggering to targeting. **2017 Nat Rev Immunol** 17:60-75.

Steen J, Forsström B, Sahlström P, Odowd V, Israelsson L, Krishnamurthy A, Badreh S, Mathsson Alm L, Compson J, Ramsköld D, Ndlovu W, Rapecki S, Hansson M, Titcombe PJ, Bang H, Mueller DL, Catrina AI, Grönwall C, Skriner K, Nilsson P, Lightwood D, Klareskog L*, [Malmström V*](#). Human plasma cell derived monoclonal antibodies to post-translationally modified proteins recognize amino acid motifs rather than specific proteins. **2019 Arthritis Rheum** 71:196-209 ([highlighted in the clinical connection section of the February issue of A&R, page A18](#))

Carlberg K, Korotkova M, Larsson L, Catrina AI, Ståhl PL*, and [Malmström V*](#). Exploring inflammatory signatures in arthritic joint biopsies with spatial transcriptomics. **2019 Sci Rep** 9:18975

Sharma RK, Boddul SV, Yoosuf N, Turcinov S, Dubnovitsky A, Kozhukh G, Wermeling F, Kwok WW, Klareskog L and [Malmström V](#). Biased TCR gene usage in citrullinated Tenascin C specific T-cells in RA: Implications for future T-cell directed therapies. **2021 Sci Rep** 11:24512

Turcinov S, af Klint E, van Schoubroeck B, Kouwenhovenn A, Sohel MM, Chemin K, Wils H, van Hove C, de Bondt A, Keustermans K, van Houdt J, Reumers J, Felix N, Rao NL, Peters P, Stevenart F, Klareskog L, McKinnon M, Baker D, Suri A, [Malmström V](#). Diversity and clonality of the T cell receptor repertoire and antigen specificities in small joints of early RA. **2023 Arthritis Rheum** 75:673-684

Joshua V, Loberg-Haarhaus M*, Hensvold A*, Wähämaa H, Gerstner C, Hansson M, Israelsson L, Stålesen R, Sköld M, Grunewald J, Grönwall C, Klareskog L, Rethi B, Catrina AI and [Malmström V](#). Rheumatoid arthritis specific autoimmunity in the lung before, and at, onset of disease. **2023 Arthritis Rheum** 75:1910-22 ([highlighted in the clinical connection section of the November issue of A&R](#))

Ye K, Dunst J, Köhler S, Francis N, You Y, Dubnovitsky A, Kramer A, Hanada K-I, Regen T, Waisman A, [Malmström V](#), Kisielow J, Winkler T, Krey T and Kreslavsky T. Superantigen-like activation of Vd7 TCRs by IL17 receptor A chain drives the differentiation of TH1-like gd T cells. **2026 Science in press**