

Employment

Associate professor, Supervisor, Professor

Infection Medicine (BMC)
Lund University
Lund, Sweden
2015 Sept 21 → present

Project manager

Infection and immunomodulation
Lund University
Lund, Sweden
2016 Jun 23 → present

Head of department

Department of Clinical Sciences, Lund
Lund University
Lund, Sweden
2025 Jan 1 → present

Affiliated researcher, Project coordinator

Infect@LU
Lund University
Lund, Sweden
2025 Jun 24 → present

Research outputs

Streptococcus pyogenes nuclease A interferes with host complement functions

A. Bennig, I., Ströbaek, J., Mamede, R., Neumann, A., Friães, A., Ramirez, M., Hall, M., Collin, M., Malmström, L., Ekström, S., Frick, I.-M., Björck, L. & Happonen, L. J., 2025 Aug 25, bioRxiv, p. 1-16.

Illuminating the Invisible: Green Fluorescent Protein as a Beacon for Antibiotic-Induced Phage Activity in Escherichia coli.

Silva, M. J., Van Den Bossche, T., Collin, M. & Lood, R., 2025 Jul 16, In: Antibiotics. 14, 7, 714.

Functional insights from recombinant production of bacterial proteases in Saccharomyces cerevisiae

Lindh, T., Collin, M., Lood, R. & Carlquist, M., 2025 May 22, In: Microbial Cell Factories. 24, 1, 119.

Immunomodulating Enzymes from Streptococcus pyogenes-In Pathogenesis, as Biotechnological Tools, and as Biological Drugs

Happonen, L. & Collin, M., 2024 Jan 18, In: Microorganisms. 12, 1, 200.

Hydroxyapatite: An Antibiotic Recruiting Moiety for Local Treatment and Prevention of Bone Infections

Sebastian, S., Huang, J., Liu, Y., Tandberg, F., Collin, M., Puthia, M. & Raina, D. B., 2024, In: Journal of Orthopaedic Research. 42, 1, p. 212-222 11 p.

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Bacterial Pathogenesis: Methods and Protocols

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Expression of the Bacterial Enzyme IdeS Using a GFP Fusion in the Yeast *Saccharomyces cerevisiae*

Lindh, T., Collin, M., Lood, R. & Carlquist, M., 2023, *Bacterial pathogenesis: Methods and protocols*. Nordenfelt, P. & Collin, M. (eds.). 2nd ed. Humana Press, p. 131-146 (Methods in molecular biology (Clifton, N.J.)).

Preface

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Systemic rifampicin shows accretion to locally implanted hydroxyapatite particles in a rat abdominal muscle pouch model

Sebastian, S., Huang, J., Liu, Y., Collin, M., Tägil, M., Raina, D. B. & Lidgren, L., 2023, In: *Journal of Bone and Joint Infection*. 8, 1, p. 19-28

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Extended local release and improved bacterial eradication by adding rifampicin to a biphasic ceramic carrier containing gentamicin or vancomycin

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Rasmussen, M. & Collin, M., 2021 Nov 1, In: *Clinical Infectious Diseases*. 73, 9, p. E2580-E2581

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***Streptococcus pyogenes* evades adaptive immunity through specific IgG glycan hydrolysis**

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Comments on letter to the editor by Faniyan et al. in response to Imported leishmaniasis in Sweden 1993-2016

Söbirk, S. K., Inghammar, M., Collin, M. & Davidsson, L., 2019, In: *Epidemiology and Infection*. 47, p. e47

Chronic active arthritis driven by macrophages without involvement of T cells: A Novel Experimental Model of Rheumatoid Arthritis

Hagert, C., Sareila, O., Kelkka, T., Nandakumar, K. S., Collin, M., Xu, B., Guérard, S., Bäcklund, J., Jalkanen, S. & Holmdahl, R., 2018 Aug, In: *Arthritis & Rheumatology*. 70, 8

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Shadnezhad, A., Nägeli, A. & Collin, M., 2016 Nov 8, In: *BMC Microbiology*. 16, 1, 10 p.

EndoSd: An IgG glycan hydrolyzing enzyme in *Streptococcus dysgalactiae* subspecies *dysgalactiae*

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Bacterial Sensing and Signaling

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Kan man snacka bort representativ demokrati?

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Activities

Bacterial antibody hydrolyzing enzymes - as bacterial virulence factors and novel biotechnological tools - Eleni Bratanis
Collin, M. (First/primary/lead supervisor)
2019 Oct 25

Leishmaniasis in Sweden - Molecular, diagnostic and epidemiological studies of the parasite *Leishmania* in a non-endemic country - Sara Karlsson Söbirk
Collin, M. (First/primary/lead supervisor)
2019 Apr 5

Bacterial IgG modulating enzymes - Basic biology and biotechnological applications - Azadeh Shadnezhad
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2017 Feb 3

Bacterial modulation of host glycosylation – in infection, biotechnology, and therapy - Jonathan Sjögren
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2015 Mar 13

Molecular and microscopical analysis of pathogenic streptococci - studies on surface proteins interacting with human cells and extracellular matrix - Marta Bober
Collin, M. (First/primary/lead supervisor)
2011 Nov 4

Propionibacterium acnes and its phages - Rolf Lood

Collin, M. (First/primary/lead supervisor)
2011 Oct 7

Prizes and Distinctions

Åke Wiberg million grant recipient (2012-2014)

Collin, M. (Recipient), 2012

Prize for best project application and Anniversary medal in silver

Collin, M. (Recipient), 2009

The Florman award (Flormanska belöningen)

Collin, M. (Recipient), 2010

Translational Research Award

Collin, M. (Recipient), 2012

Projects

Enzymatic antibody glycan modifications as treatment against acute and chronic autoimmune diseases

Collin, M. (PI)
2017/01/01 → 2017/12/31

Enzymatic antibody modification on bacteremia - diagnostic, prophylactic, and therapeutic implications

Collin, M. (PI), Holm, K. (CoPI), Sunnerhagen, T. (Researcher) & Rasmussen, M. (Researcher)
2023/01/01 → 2026/12/31

Neutralizing human B-cell derived monoclonal antibodies to SARS-CoV-2

Nordenfelt, P. (PI), Bahnan, W. (Researcher), Rasmussen, M. (Researcher), Kahn, F. (Researcher), Björck, L. (Researcher), Shannon, O. (Researcher), Collin, M. (Researcher), Malmström, J. (Researcher) & Kahn, R. (Researcher)
Science for Life Laboratory (SciLifeLab)
2020/04/08 → 2021/01/31

Streptococcal modification of antibody glycosylation during severe infections

Collin, M. (PI)
2018/01/01 → 2020/12/31