europass

Leonardus Antonius Bernardus Joosten

Date of birth: 11/09/1958 | **Nationality:** Dutch | **Gender:** Male

ABOUT ME

ORCID: 0000-0001-6166-9830
Research ID: H-3138-2015

EDUCATION AND TRAINING

10/12/1999 Nijmegen, Netherlands
PHD Radboud University Medical Centre, Department of Rheumatology

01/07/1982 Nijmegen, Netherlands
BACHELOR HAN University of Applied Sciences

WORK EXPERIENCE

PROFESSOR OF MECHANISMS OF INFLAMMATORY DISEASES – RADBOUD UNIVERSITY MEDICAL CENTRE, DEPARTMENT OF INTERNAL MEDICINE – 2014 – Current – NIJMEGEN, NETHERLANDS

VISITING PROFESSOR – DEPARTMENT OF MEDICINE, CLINICAL IMMUNOLOGY & RHEUMATOLOGY, UAB – 2019 – Current – BIRMINGHAM, ALABAMA, UNITED STATES

VISITING PROFESSOR – PUC UNIVERSITYGOIÂNIA, GOÂS – 2022 – Current – GOIÂNIA, GOÂS, BRAZIL

DISTINGUISHED VISITING PROFESSOR – IULIU HATIEGANU UNIVERSITY OF MEDICINE AND PHARMACY – 2022 – Current – CLUJ-NAPOCA, ROMANIA

VISITING PROFESSOR – DEPARTMENT OF RHEUMATOLOGY, LARIBOISIERRE HOSPITAL, UNIVERSITE PARIS CITE – 2025 – Current – PARIS, FRANCE

VISITING PROFESSOR – DEPARTMENT OF RHEUMATOLOGY, LARIBOISIERRE HOSPITAL, UNIVERSITE PARIS CITE – 2023 – 2024 – PARIS, FRANCE

RESEARCH FELLOW – DIVISION OF INFECTIOUS DISEASES, UNIVERSITY OF COLORADO DENVER – 2012 – 2019 – AURORA, COLORADO, UNITED STATES

ASSOCIATE PROFESSOR OF EXPERIMENTAL MEDICINE (UHD), HEAD OF THE LABORATORY OF EXPERIMENTAL MEDICINE – RADBOUDUMC – 2007 – 2014 – NIJMEGEN, NETHERLANDS

PHD-STUDENT, POSTDOC & ASSISTANT PROFESSOR – DEPARTMENT OF RHEUMATOLOGY, RADBOUDUMC – 1996 – 2007 – NIJMEGEN, NETHERLANDS

PROJECTS

2023 – CURRENT
Professor and Project leader HINT-II (PNRR-III-C9-2022-I8, CF85/15.11.2022)

University of Medicine and Pharmacy *„Iuliu Haţieganu"*, Department of Medical Genetics, Cluj-Napoca, Romania

2016 – 2019
Professor and Project leader HINT (EU-POC P_37_762)

University of Medicine and Pharmacy *„Iuliu Haţieganu"*, Department of Medical Genetics, Cluj-Napoca, Romania

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2014 – CURRENT
Radboud University Medical Centre, Departments of Rheumatology and Internal Medicine, Nijmegen, The Netherlands

Postdocs 16; PhD students 65; Master Students 44.

2016 – CURRENT
Department of Medical Genetics, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

Postdocs 2, PhD students 7.

2024 – CURRENT
Department of Rheumatology, Lariboisiere Hospital, Universite Paris Cite, Paris, France

PhD students 2.

NETWORKS AND MEMBERSHIPS

Major Collaborations

Prof. C.A. Dinarello, Studies on the role of IL-1/IL-18/IL-32 in inflammation, University of Colorado, Denver, USA. **Prof. T. Kanneganti**, Studies on the role of the "Inflammasome" in inflammation, St Jude's Hospital, Memphis, USA. **Prof. L.A. O'Neill**, Studies on IL-1 in inflammation and Innate Immunity, Trinity College, Dublin, Ireland. **Prof. E. Latz**, Studies in Innate Immunity and Trained Immunity, University of Bonn, Bonn, Germany. **Prof. J. Schultze**, Studies on transcriptomics and genomics, DZNE, Helmholtz Institute, Bonn, Germany. **Prof. Y. Li**, Studies on Single Cell transcriptomics in Inflammation, Helmholtz Institute for Infections, Hannover, Germany. **Prof. T.R. Merriman**, Studies on Genetics in Gout, University of Birmingham, Alabama, USA.
Prof. M. Mhlanga, Studies on LncRNA's in inflammation, Radboud University, Nijmegen, The Netherlands. **Prof. M.G. Netea**, Studies on Trained Immunity, Radboud University Medical Center, Nijmegen, The Netherlands. **Professors K. Ea, F. Liote and P. Richette**, studies in gout and osteoarthritis, University of Paris, Paris, France. **Prof. J.A. Chabalgoity**, studies in immunotherapy in cancer, University of Montevideo, Montevideo, Uruguay. **Prof. S. Rednic**, studies on hyperuricemia and gout, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania.

Professional Activities

-European Crystal Network Symposium (ECN), Member and Board member since 2010, Paris, France
-Member of Eurogout consortium genetics of gout. (since 2011)
-Member of G-CAN (Gout, Hyperuricemia and Crystal-Associated Disease Network), USA. (since 2015)
-Organizer of Frontier Symposium 2018 "New Frontiers in Innate Immunity and Inflammation", Cluj-Napoca, Romania
-Organizer of Cytokine 2019 congress, Vienna, Austria
-Organizer of Innate Immune Memory Conference 2019, Nijmegen, The Netherlands
-Organizer of Summer Innate Immunology Conference 2022, Cluj-Napoca, Romania
-Organizer of the First Conference of the Human Functional Genomics Romania, 2025, Cluj-Napoca, Romania

HONOURS AND AWARDS

Research performance

Joosten, Leo A.B. was recognized for his exceptional research performance in the field of Immunology by Clarivate™ (Highly cited papers which rank in the top 1% in the Web of Science) in the years 2028, 2019, 2020, 2021, 2022, 2023 and 2024.
Joosten published more than 850 articles, H-index of 136 and has over 84.000 citations (Web of Science, May 2025).
Joosten is owner of 8 international patents in the field of diagnostics and therapeutics.

PUBLICATIONS

Host and Environmental Factors Influencing Individual Human Cytokine Responses

Ter Horst R, ..., **Joosten LAB***, Netea MG.* Host and Environmental Factors Influencing Individual Human Cytokine Responses. **Cell** 167:1111-1124. 2016. doi: 10.1016/j.cell.2016.10.018. *Shared senor authorship.

Functional and Genomic Architecture of Borrelia burgdorferi-Induced Cytokine Responses in Humans

Oosting M,...., Netea MG, **Joosten LA**. **Cell Host Microbe**. 20(6):822-833. 2016. doi: 10.1016/j.chom.2016.10.006.

Soluble uric acid primes TLR-induced proinflammatory cytokine production by human primary cells via inhibition of IL-1Ra

Crișan TO,...., **Joosten LA**. **Ann Rheum Dis.** 75(4):755-62. 2016. doi: 10.1136/annrheumdis-2014-206564.

Uric acid priming in human monocytes is driven by the AKT-PRAS40 autophagy pathway

Crişan TO,..., **Joosten LAB**. **Proc Natl Acad Sci U S A**. 114(21):5485-5490. 2017. doi:10.1073/pnas.1620910114.

Asymptomatic hyperuricaemia: a silent activator of the innate immune system.

Joosten LAB, Crişan TO, Bjornstad P, Johnson RJ. **Nat Rev Rheumatol.** 16(2):75-86. 2020. doi:10.1038/s41584-019-0334-3.

Rare genetic variants in interleukin-37 link this anti-inflammatory cytokine to the pathogenesis and treatment of gout

Klück V,...., Dinarello CA, Joosten LA. **Ann Rheum Dis**. 79(4):536-544. 2020. doi: 10.1136/annrheumdis-2019-216233.

Urate-induced immune programming: Consequences for gouty arthritis and hyperuricemia

Cabău G,..., **Joosten LAB**. **Immunol Rev**. 294(1):92-105. 2020. doi: 10.1111/imr.12833.

Dapansutrile, an oral selective NLRP3 inflammasome inhibitor, for treatment of gout flares: an open-label, dose-adaptive, proof-of-concept, phase 2a trial

Klück V,..., Dinarello CA, **Joosten LAB**. **Lancet Rheumatol**. 2(5):e270-e280. 2020. doi: 10.1016/s2665-9913(20)30065-5.

Trained immunity as a molecular mechanism for BCG immunotherapy in bladder cancer

Van Puffelen JH,...., **Joosten LAB***, Vermeulen SH*. **Nat Rev Urol**. 17(9):513-525. 2020. doi: 10.1038/s41585-020-0346-4. *Shared senor authorship.

Beyond adaptive immunity: induction of trained immunity by COVID-19 adenoviral vaccines

Netea MG, **Joosten LAB**. **J Clin Invest.** 2023 Jan 17;133(2):e166467. doi: 10.1172/JCI166467.

Genome-wide analyses in Lyme borreliosis: identification of a genetic variant associated with disease susceptibility and its immunological implications

Vrijmoeth HD, ..., **Joosten LAB**. **BMC Infect Dis.** 2024 Mar 21;24(1):337. doi: 10.1186/s12879-024-09217-z.

A comprehensive genetic map of cytokine responses in Lyme borreliosis

Botey-Bataller J, ..., **Joosten LAB***, Li Y*. **Nat Commun.** 2024 May 7;15(1):3795. doi: 10.1038/s41467-024-47505-z. *Shared senor authorship.

Systemic inflammatory cytokine profiles in patients with gout during flare, intercritical and treat-to-target phases: TNFSF14 as new biomarker

Ea HK,..., **Joosten LA**. **Ann Rheum Dis.** 2024 Jun 12;83(7):945-956. doi: 10.1136/ard-2023-225305.

Trained immunity in the bone marrow: Hub of autoimmunity

Netea MG, **Joosten LAB**. **Cell Stem Cell.** 2024 Nov 7;31(11):1555-1557. doi: 10.1016/j.stem.2024.10.008.

Integrative analysis reveals the multilateral inflammatory mechanisms of CD14 monocytes in gout

Alaswad A, Cabău G, Crişan TO, ..., Li Y, **Joosten LAB. Ann Rheum Dis.** 2025 Feb 28:S0003-4967(25)00200-6.