

**ROLAND JONSSON DMD, PhD**

The Broegelmann Chair in Immunology

Consultant, Department of Rheumatology, Haukeland University Hospital

Vice-dean, Doctoral Education (PhD), Faculty of Medicine and Dentistry

**Personal**

Born March 23, 1950, at Gunnarskog, Värmland, Sweden

Citizen of Sweden; Languages: Swedish, English

E-mail: [roland.jonsson@uib.no](mailto:roland.jonsson@uib.no)<http://www.uib.no/rg/broegelmann><http://www.uib.no/en/rs/brsi>**Educational Background**

1970 - 1974 Odontology D.D.S./D.M.D., University of Göteborg

1975 - 1976 Pathology, Oto-rhino-laryngology, Faculty of Medicine, University of Göteborg

1983 Ph.D. (odont. dr.), University of Göteborg

Thesis title: *Oral manifestations of systemic lupus erythematosus***Professional Record**

1975 - 1988 Resident Oral Diagnosis/Medicine and Oral Pathology - Specialist Training and Immunopathological and Immunohistochemical Diagnostic Service, University of Göteborg, Sweden

1988 - 1990 Visiting Scientist/Research Associate Professor (Immunology), Department of Microbiology, University of Alabama at Birmingham, AL, USA (Prof Jiri Mestecky and Prof William J. Koopman)

1991 - Head, Broegelmann Research Laboratory, University of Bergen, Norway and Professor of Medicine (Immunology), [from 2004 – The Broegelmann Chair in Immunology], The Gade Institute [from 2013 Department of Clinical Science], University of Bergen, Norway

1995 - Consultant, Department of Rheumatology, Haukeland University Hospital, Bergen, Norway

2005 - 2012 Deputy head (teaching/research), The Gade Institute, University of Bergen, Norway

2013 - 2015 Deputy head (research), Department of Clinical Science, University of Bergen, Norway

2016/04 - Vice-dean for doctoral programme (PhD), Faculty of Medicine and Dentistry, University of Bergen, Norway

**Scientific Bibliography and Main Activities****Bibliometric data:** ISI – H-index = 50; > 10.000 citations: worldwide no. 3 in Sjögren's syndrome, no.1 in sialadenitis and no. 2 in minor salivary gland research according to biomedexperts.com.

&gt; 300 peer-reviewed articles, with contributions in journals such as Nature Genetics (3), Lancet (1), JAMA (1), Science Translational Medicine (1), Trends in Immunology (1), Proceedings National Academy of Science (USA) (1), Arthritis &amp; Rheumatism/Rheumatology (19), Annals of the Rheumatic Diseases (13), American Journal of Pathology (1), European Journal of Immunology (4), Journal of Immunology (1), Journal of Infectious Diseases (3), Laboratory Investigation (5), Infection and Immunity (2) and &gt; 20 textbook chapters.

**Training:** Supervision in immunology (*autoimmunity, immunopathology, mucosal immunity*): doctoral theses finalized (11 primary supervisor, 26 secondary supervisor), ongoing (4); master theses finalized (6); special reports by medical students finalized (6); postdoctoral fellows (4), ongoing (3).**Hosted:** ≈ 25 visiting international scientists / guest researchers / postdoctoral research fellows (1993 -)**Organizer:** (*Chairman or Member of Organizing Committee*) of *Scientific Meetings*: (recent years) Organizer of Satellite Meeting to the ICI-2001: B cells & Autoimmunity: New Concepts & Therapeutic Perspectives, Bergen, 2001; President of the 33<sup>rd</sup> Scandinavian Society of Immunology Meeting, Bergen, 2002; Member of the Scientific Committee of the 8<sup>th</sup> World Congress of Inflammation, Copenhagen 2007; Member of the Scientific Committee of the 2nd European Congress of Immunology, Berlin 2009; Chairman of Organizing Committee the 7<sup>th</sup> ORPHEUS Conference, Bergen 2012; Chairman of Organizing Committee the 13<sup>th</sup> International Symposium on Sjögren's syndrome, Bergen 2015.**Major known current and previous sources of funding**

1996 - 1999 Coordinator of EU BioMed II, No: BMH4-CT96-0595: NOK 3 280 000 (≈ \$ 656 000)

1997 - 1999 Norwegian Medical Research Council: NOK 2 340 000 (≈ \$ 468 000)

1998 - 2000 EU BioMed II Shared Cost Project No: BMH4-CT98-3489: NOK 9 720 000 (≈ \$ 1 944 000); Bergen share: NOK 622 500 (≈ \$ 124 500)

2000 - 2002 NATO Collaborative Linkage grant (Moscow, Oklahoma City, Bergen): NOK 240 000 (≈ \$ 48 000)

2000 - 2005 EU Marie Curie Training Site at University of Bergen No: QLK2-1999-51079; NOK 1 200 000 (≈ \$ 240 000)

2001 - 2002 EU Accompanying Measure Contract No: QLK2-CT-2001-30115 NOK 600 000 (≈ \$ 120 000)

2005 - 2009 Coordinator of a EU Marie Curie Early Stage Training project No: MEST-CT-2004-514483 (including 9 PhD trainee fellowships); NOK 14 000 000 (≈ \$ 2 400 000)

2005 - 2009	Coordinator of the Strategic Research Program at Helse Bergen, Haukeland University Hospital, Bergen, Norway, “ <i>Immunology with a Special Focus on Mucosa Associated Autoimmune Diseases and Tumor Biology</i> ”; NOK 3 800 000 (≈ \$ 760 000)
2007 - 2010	Coordinator of the Western Norway Regional Health Authorities project “ <i>Sjögren’s Syndrome - Molecular and Clinical Markers for Diagnosis and Progression</i> ”; NOK 2 250 000 (≈ \$ 450 000)
2009 - 2013	The Norwegian Research Council GLOBVAC project “ <i>Mucosal vaccination against autoimmune diseases</i> ”; NOK 7 938 000 (≈ \$ 1 300 000)
2013 - 2017	Bergen Medical Research Foundation: ‘ <i>Omics’ Data Analysis and Visualization Group (ODAV): Enabling comprehensive interpretation of global datasets through visualization of biological states within interactive and unbiased networks</i> ; NOK 4 500 000 (≈ \$ 800 000)
2016 – 2018	Western Norway Regional Health Authorities: <i>Personalized Immunotherapy in Rheumatology (PIR)</i> ; NOK 2 100 000

## Honors and Awards

(recent years)

1999	<i>State-of-the-Art-Lecture</i> on “Sjögren’s syndrome”, The 63 <sup>rd</sup> Annual Meeting of American College of Rheumatology, Boston, USA (Recorded on CD-ROM) (≈10.000 delegates)
2000 -	Appointed “Research Affiliate in Immunology”, The Forsyth Institute - Harvard, Boston, USA
2001	<i>State-of-the-Art-Lecture</i> on “Oral Manifestations of Rheumatic Diseases”, The 65 <sup>th</sup> Annual Meeting of American College of Rheumatology, San Fransisco, USA (≈8.000 delegates)
2003 -	Appointed “Adjunct Member” and from 03/05 “Affiliated Member” of the Arthritis and Immunology Program, Oklahoma Medical Research Foundation, Oklahoma City, USA
2005	Awarded “The Research Group of the Year”, Faculty of Medicine, University of Bergen, Norway
2006	Elected member of the Norwegian Academy of Science and Letters
2009	Western Norway Regional Health Authority Research Prize (National)
2009	European Federation of Immunological Societies – Immunology Letters Lecture Award (International)
2010	Distinguished Scientist Award – International Association of Dental Research (International)

## Committees and Boards

1999 -	Member Medical and Scientific Advisory Board of the Sjögren’s Syndrome Foundation, USA
2005 -	Chairman Scandinavian Foundation for Immunology
2005 - 2013	Member Faculty Board, Faculty of Medicine and Dentistry, UiB
2007 - 2010	President of the Scandinavian Society for Immunology (>1200 members)
2008 -	Chairman of the Committee for Doctoral Programme (PhD), Faculty of Medicine and Dentistry, UiB
2011 -	Vice-president and Executive Committee Member, ORPHEUS (Organization for PhD Education in Biomedicine and Health Sciences in the European Systems)

## Editorial and Review Activities

**Editor-in-Chief:** Scandinavian Journal of Immunology (1999 - present)

**Editorial Board Member/Advisory Editor:** Scandinavian Journal of Immunology (1995 - 1999); European Journal of Oral Sciences (1999 - 2005); Scandinavian Journal of Rheumatology (2000 - present); Arthritis & Rheumatism (2000 - 2004 [4-year assignments]); Current Rheumatology Reviews (2004 - present); Up-to-date Rheumatology (2005 - present); Annals of Rheumatic Diseases (2008 - ).

**Grant Reviewer - Advisory Committees** (Member and/or Leader): The Research Council of Norway - Member of study section/peer review committee for “Clinical Research” 1994 - 98; Chairman of the “Clinical Research” study section 1998 - 2001; Expert evaluator 2004, 2005; The European Commission, Brussels, Belgium: Biomed II - 1995 and 1997; Chairman subpanel “Chronic Inflammatory Diseases” 1997; Quality of Life and Management of Living Resources - Ageing 1999, Chronic/Degenerative Diseases 2000, Accompanying Measures 2000, Ageing 2001. The Foundation Health and Rehabilitation (Norway) - Board member 1997 - 2004; ..... The Sjögren’s Syndrome Foundation, USA 2008, 2009, 2010; VINNOVA - Innovationer för framtidens hälsa (Sweden) 2008, 2009; Royal Swedish Academy of Sciences 2008; European Science Foundation 2009; Welcome Trust (UK) 2010; French National Research Agency 2013; GV:80 Year Fund (Sweden) 2014 -

**Evaluation of professorship status:** immunology (7), molecular genetics (1), medicine (1), rheumatology (1), oral biology (2), oral pathology (1), oral medicine (1), oral immunology (1)

**Evaluation of doctoral (PhD) thesis (opponent and/or committee-chairman):** medical sciences (19), odontology (10)

## Recent Invitations as Speaker/Key-note Lecturer

(recent years)

2008	<u>Zürich</u> , Switzerland; <u>Paris</u> , France; <u>Stockholm</u> , Sweden; <u>Berlin</u> , Germany; <u>Antalaya</u> , Turkey
2009	<u>Brest</u> , France (Int SS Meeting); <u>Kyrenia</u> , Cyprus
2010	<u>Vienna</u> , Austria; <u>Tallinn</u> , Estonia; <u>Göteborg</u> , Sweden; <u>London</u> , UK
2011	<u>Izmir</u> , Turkey; <u>Changsha City</u> , China; <u>Athens</u> , Greece
2012	<u>Zagreb</u> , Croatia; <u>Glasgow</u> , UK; <u>Tallinn</u> , Estonia; <u>Ottawa</u> , Canada; chair: <u>Granada</u> , Spain; <u>Stockholm</u> , Sweden
2013	<u>Galveston</u> , TX, USA (Gordon Conference); <u>Kyoto</u> , Japan (Int SS Meeting); <u>London</u> , UK; <u>Prague</u> , Czeckia
2014	<u>Krakow</u> , Polen; <u>Birmingham</u> , UK; <u>Uppsala</u> , Sweden; <u>Dubrovnik</u> , Croatia; <u>Stockholm</u> , Sweden
2015	<u>Belgrade</u> , Serbia; <u>Changsha City</u> , China

## Selected Peer-Reviewed Publications (out of a total of &gt; 300)

1. Delaleu N, Mydel P, Kwee I, Brun JG, Jonsson MV, **Jonsson R**. [High fidelity between saliva proteomics and the salivary glands' biological state defines biomarker-signatures for primary Sjögren's syndrome](#). *Arthritis Rheumatol*. 2015 Apr;67(4):1084-95.
2. Theander E, **Jonsson R**, Sjöström B, Brokstad K, Olsson P, Henriksson G. [Prediction of Sjögren's Syndrome Years Before Diagnosis and Identification of Patients With Early Onset and Severe Disease Course by Autoantibody Profiling](#). *Arthritis Rheumatol*. 2015 Sep;67(9):2427-36.
3. **Jonsson R**, Theander E, Sjöström B, Brokstad KA, Henriksson G. Autoantibodies present before symptom onset in primary Sjögren's syndrome. *JAMA*, 2013 Nov 6;310(17):1854-5.
4. Gaetane Nocturne<sup>1\*</sup>, Sylvie Rusakiewicz<sup>2,3,4\*</sup>, ....., **Roland Jonsson**<sup>15</sup>, ....., Xavier Mariette<sup>1,19\*\*\*</sup>. *NCR3/NKp30* contributes to the pathogenesis of primary Sjögren's syndrome. *Science Transl Med*, 2013 Jul 24;5(195):195ra96. doi: 10.1126/scitranslmed.3005727..
5. Lessard CJ, Li H, Adrianto I, .... **Jonsson R**, Rischmueller M, Nordmark G, Ng WF for UK primary Sjögren's syndrome registry, Mariette X, Anaya JM, Rhodus NL, Segal BM, Scofield RH, Montgomery CG, Harley JB, Moser Sivils KL. Variants at multiple loci implicated in both innate and adaptive immune responses are associated with Sjögren's syndrome. *Nat Genet*. 2013 Nov;45(11):1284-92.
6. Hellvard A, Maresz K, Schilling S, Graubner S, Heiser U, Cynis H, Demuth H-U, **Jonsson R**, Potempa J, Mydel P. Glutaminyl cyclises as novel targets for the treatment of septic arthritis. *J Infect Dis*. 2012 Nov 29. [Epub ahead of print]
7. Bolstad AI, Le Hellard S, ....., **Jonsson R**. Association between genetic variants in the tumor necrosis factor/ lymphotoxin alpha / lymphotoxin beta locus and primary Sjögren's syndrome in Scandinavian samples. *Ann Rheum Dis*. 2012 Jun;71(6):981-8.
8. Theander E, Vasaitis L, Baecklund E, Nordmark G, Warfvinge G, Liedholm R, Brokstad KA, **Jonsson R**, Jonsson MV. Lymphoid organisation in Labial Salivary Gland Biopsies is a Possible Predictor for Development of Malignant Lymphoma in Primary Sjögren's Syndrome. *Ann Rheum Dis* 2011; Aug;70(8):1363-8.
9. Szyszko EA, Brokstad KA, Oijordsbakken G, Jonsson MV, **Jonsson R**, Skarstein K. Salivary glands of primary Sjögren's syndrome patients express factors vital for plasma cell survival. *Arthritis Res Ther* 2011;13:R2.
10. Nordmark G, Kristjansdottir G, Theander E, Eriksson P, Brun JG, Wang C, Padyukov L, Truedsson L, Alm G, Eloranta ML, **Jonsson R**, Ronnblom L, Syvanen AC. Additive effects of the major risk alleles of IRF5 and STAT4 in primary Sjögren's syndrome. *Genes Immun* 2009;10:68-76.
11. Delaleu N, Madureira AC, Immervoll H, **Jonsson R**. Inhibition of experimental Sjögren's syndrome through immunization with HSP60 and its peptide amino acids 437-460. *Arthritis Rheum* 2008;58:2318-28.
12. Moen K, Brun JG, Valen M, Skartveit L, Eribe EK, Olsen I, **Jonsson R**. Synovial inflammation in active rheumatoid arthritis and psoriatic arthritis facilitates trapping of a variety of oral bacterial DNAs. *Clin Exp Rheumatol* 2006;24:656-63.
13. Scofield RH, Asfa S, Obeso D, **Jonsson R**, Kurien BT. Immunization with short peptides from the 60-kDa Ro antigen recapitulates the serological and pathological findings as well as the salivary gland dysfunction of Sjögren's syndrome. *J Immunol* 2005;175:8409-14.
14. Hjelmervik TO, Petersen K, Jonassen I, **Jonsson R**, Bolstad AI. Gene expression profiling of minor salivary glands clearly distinguishes primary Sjögren's syndrome patients from healthy control subjects. *Arthritis Rheum* 2005;52:1534-44.
15. Entesarian M, Matsson H, Klar J, Bergendal B, Olson L, Arakaki R, Hayashi Y, Ohuchi H, Falahat B, Bolstad AI, **Jonsson R**, Wahren-Herlenius M, Dahl N. Mutations in the gene encoding fibroblast growth factor 10 are associated with aplasia of lacrimal and salivary glands. *Nat Genet* 2005;37:125-7.
16. Salomonsson S, Jonsson MV, Skarstein K, Brokstad KA, Hjelmstrom P, Wahren-Herlenius M, **Jonsson R**. Cellular basis of ectopic germinal center formation and autoantibody production in the target organ of patients with Sjögren's syndrome. *Arthritis Rheum* 2003;48:3187-201.
17. Vitali C, Bombardieri S, **Jonsson R**, Moutsopoulos HM, ....., Weisman MH. Classification criteria for Sjögren's syndrome: a revised version of the European criteria proposed by the American-European Consensus Group. *Ann Rheum Dis* 2002;61:554-8.
18. Prokunina L, .... **Jonsson R**, Gyllensten UB, Harley JB, Alarcon-Segovia D, Steinsson K, Alarcon-Riquelme ME. A regulatory polymorphism in PDCD1 is associated with susceptibility to systemic lupus erythematosus in humans. *Nat Genet* 2002;32:666-9.
19. Beroukas D, Hiscock J, **Jonsson R**, Waterman SA, Gordon TP. Subcellular distribution of aquaporin 5 in salivary glands in primary Sjögren's syndrome. *Lancet* 2001;358:1875-6.
20. Robinson CP, Brayer J, Yamachika S, Esch TR, Peck AB, Stewart CA, Peen E, **Jonsson R**, Humphreys-Beher MG. Transfer of human serum IgG to nonobese diabetic Igmu null mice reveals a role for autoantibodies in the loss of secretory function of exocrine tissues in Sjögren's syndrome. *Proc Natl Acad Sci U S A* 1998;95:7538-43.