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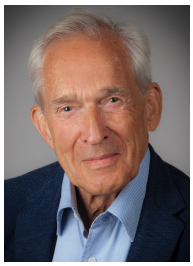

Research

The immune genetics of the aetiology and pathogenesis of autoimmune (type 1) diabetes and associated organs-specific autoimmune disorders including celiac disease and narcolepsy are not fully understood. Our research is focused on the role of HLA and non-HLA genes in the etiology and pathogenesis with particular emphasis to uncover the importance of beta cell autoantigens such as GAD65, insulin, IA-2, ZnT8, INS-IGF2 and tetraspanin 7. Humoral and cellular studies are conducted first to detect a trigger that will induce beta cell autoimmunity in children at increased genetic risk. A major effort to identify the trigger of beta cell autoimmunity is carried out in the TEDDY (The Environmental Determinants of Diabetes in the Young) study. A total of 2525 children in Skåne with increased genetic risk for autoimmune (type 1) diabetes were identified at birth (2004-2010) and then followed quarterly until four years of age and thereafter bi-annually until the children turn 15 years of age. TEDDY is supported by the National Institutes of Health (NIH) in the US and is conducted with three clinics in the US, Finland and Germany. In Skåne, we have TEDDY clinics in Malmö, Helsingborg and Kristianstad. Major observations suggest that the association between HLA and autoimmune (type 1) diabetes is secondary to the first appearing autoantibody be it against insulin in children with HLA DR4-DQ8 or GAD65 in children with HLA DR3-DQ2. Studies are also conducted since birth in children born 2000-2004 in the Diabetes Prediction in Skåne (DiPiS) study. Research involves identification of and development of new assays for autoantibodies against novel autoantigens and autoantigen candidates. Studies are conducted in patients with narcolepsy and their controls to identify autoantigens and explain the development of narcolepsy and vaccination with Pandemrix®. Studies on primary prevention is conducted in the GPPAD (Global Platform for the Prevention of Autoimmune Diabetes) consortium and on secondary prevention in TrialNet for which we are the Swedish TrialNet Center. Clinical trials such as the TEDDY Family (TEFA) study is conducted with support from the Juvenile Diabetes Research Foundation (JDRF).
The BB rat is investigated to clarify monogenic type 1 diabetes due to a frameshift mutation in the Gimap5 gene, which is coding for an anti-apoptopic protein. Overall the research aim at the prediction and prevention primarily of autoimmune (type 1) diabetes by combining screening for HLA and non-HLA genes to identify subjects at risk and to measure and develop tests for beta cell autoimmunity and to carry out primary and secondary prevention trials eventually to prevent and thereby cure autoimmune (type 1) diabetes.

Employment

Principal investigator, Professor emeritus

Celiac Disease and Diabetes Unit
Lund University
Malmö, Sweden
2015 Sept 21 → present

Member of Strategic Research Area

EXODIAB: Excellence of Diabetes Research in Sweden
Lund University
Malmö, Sweden
2010 Jan 1 → present

Emeritus Professor in Medicine

University of Washington, Seattle
Seattle, United States
2009 Jan 1 → present

Adjunct Professor

Lund University
Lund, Sweden
2006 Jan 1 → 2008 Jan 1

Adjunct Professor
Lund University
Lund, Sweden
1998 Jan 1 → 2005 Jan 1

Member of the Graduate Faculty
University of Washington, Seattle
Seattle, United States
1997 Jan 1 → 2008 Jan 1

Robert H. Williams Professor in Medicine
University of Washington, Seattle
Seattle, United States
1995 Jan 1 → 2008 Dec 31

Adjunct Professor
Karolinska Institute
Stockholm, Sweden
1995 Jan 1 → 2001 Jan 1

Adjunct Professor
University of Washington, Seattle
Seattle, United States
1995 Jan 1 → 2007 Jan 1

Professor of Experimental Endocrinology
Karolinska Institute
Stockholm, Sweden
1993 Jan 1 → 1994 Dec 31

Affiliate Professor
University of Washington, Seattle
Seattle, United States
1993 Jan 1 → 1994 Jan 1

Adjunct Professor
University of Washington, Seattle
Seattle, United States
1991 Jan 1 → 1993 Jan 1

Visiting Professor
Université Libre de Bruxelles (ULB)
Brussels, Belgium
1990 Jan 1 → 2000 Jan 1

Professor in Diabetes Research
Lund University
Lund, Sweden
1989 Jan 1 → 1991 Jan 1

Robert H. Williams Professor in Medicine
University of Washington, Seattle
Seattle, United States
1988 Jan 1 → 1992 Dec 31

Adjunct Professor of Medical Cell Biology
Lund University
Lund, Sweden
1984 Jan 1 → 1989 Jan 1

Director of Research
Hagedorn Research Institute
Gentofte, Denmark
1979 Jan 1 → 1987 Dec 31

Assistant professor
University of Chicago
Chicago, United States
1977 Jan 1 → 1978 Dec 31

Associate professor
Umeå University
Umeå, Sweden
1973 Jan 1 → 1979 Dec 31

Research Associate
Umeå University
Umeå, Sweden
1970 Jan 1 → 1973 Dec 31

Instructor
Umeå University
Umeå, Sweden
1968 Aug 1 → 1970 Dec 31

Research output

Thyroid autoimmunity and the subsequent development of islet and celiac autoimmunity in the TEDDY study
Clasen, J. L., Jonsdottir, B., Vehik, K., Lynch, K. F., Parikh, H. M., Koskenniemi, J. J., Lernmark, Å., Agardh, D., Hagopian, W. A., Rewers, M. J., Toppari, J., Ziegler, A.-G., Akolkar, B., Krischer, J. P., Haller, M. & Larsson, H. E., 2026 Jan 23, (E-pub ahead of print) In: American Journal of Epidemiology.

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Consensus Guidance for Monitoring Individuals With Islet Autoantibody-Positive Pre-Stage 3 Type 1 Diabetes
Phillip, M., Achenbach, P., Addala, A., Albanese-O'Neill, A., Battelino, T., Bell, K. J., Besser, R. E. J., Bonifacio, E., Colhoun, H. M., Couper, J. J., Craig, M. E., Danne, T., de Beaufort, C., Dovc, K., Driscoll, K. A., Dutta, S., Ebekozien, O., Elding Larsson, H., Feiten, D. J. & Frohnert, B. I. & 46 others, Gabbay, R. A., Gallagher, M. P., Greenbaum, C. J., Griffin, K. J., Hagopian, W., Haller, M. J., Hendrieckx, C., Hendriks, E., Holt, R. I. G., Hughes, L., Ismail, H. M., Jacobsen, L. M., Johnson, S. B., Kolb, L. E., Kordonouri, O., Lange, K., Lash, R. W., Lernmark, Å., Libman, I., Lundgren, M., Maahs, D. M., Marcovecchio, M. L., Mathieu, C., Miller, K. M., O'Donnell, H. K., Oron, T., Patil, S. P., Pop-Busui, R., Rewers, M. J., Rich, S. S., Schatz, D. A., Schulman-Rosenbaum, R., Simmons, K. M., Sims, E. K., Skyler, J. S., Smith, L. B., Speake, C., Steck, A. K., Thomas, N. P. B., Tonyushkina, K. N., Veijola, R., Wentworth, J. M., Wherrett, D. K., Wood, J. R., Ziegler, A.-G. & DiMeglio, L. A., 2024, In: Diabetes Care. 47, 8, p. 1276-1298

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Sacks, D. B., Arnold, M., Bakris, G. L., Bruns, D. E., Horvath, A. R., Lernmark, Å., Metzger, B. E., Nathan, D. M. & Kirkman, M. S., 2023 Oct, In: Diabetes Care. 46, 10, p. e151-e199

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