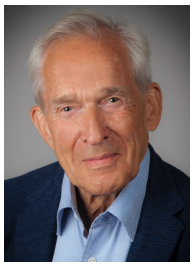
Åke Lernmark
Diabetes och celiaki
Besöksadress:
CRC, Hus 91 plan 10, Jan Waldenströms gata 35
Rm 60:11:015
Malmö
Sverige
E-post: ake.lernmark@med.lu.se
Telefon: +4640391901



Forskning

Immunogenetiken vid autoimmun (typ 1) diabetes och relaterade organ specifika autoimmuna sjukdomar har inte helt klarlagts. Vår forskning är fokuserad på betydelsen av HLA och icke-HLA genetiska faktorer när autoimmunitet utvecklas mot betacell specifika autoantigen inklusive insulin, GAD65, IA-2, ZnT8, INS-IGF2 och tetraspanin7. Cellulära och autoantikroppsmedierade funktioner studeras hos barn med förhöjd ärftlig risk för att utveckla en första autoantikropp, som visar sig vara antingen mot insulin i DR4-DQ8 barn eller mot GAD65 i DR3-DQ2 barn. Avsikten är att förstå sjukdomens etiologi genom att ta reda på om en omgivningsfaktor kan göras ansvaring för att trigga den autoimmuna reaktionen. Dessa mekanismer studeras i TEDDY (The Environmental Determinants of Diabetes in the Young) studien. Under 2004-2010 screenades nära 60 000 nyfödda barn för ökad ärftlig risk för autoimmun (typ 1) diabetes och gluten intolerans, och 2525 barn följdes från 3 månaders ålder fyra gånger om året fram till fyra års ålder, och därefter två gånger om året till 15 års ålder. Barn (10%) som utvecklade autoantikroppar mot betaceller fortsatte att följas fyra gånger om året. TEDDY studien bekostas av National Institute of Health (NIH) i USA och omfattar tre kliniker i USA (Georgia/Florida, Colorado och Washington State), Finland, Tyskland och Sverige. De svenska barnen står för 30% av deltagarna. Barn födda 2000-2004 i Diabetes Prediktion i Skåne (DiPiS) studien studeras på liknande sätt.
Vår forskning innefattar också att identifiera autoantigen, och utveckla metoder att bestämma autoantikroppar och cellulära metoder att bestämma hur autoantigen kan trigga autoimmunitet. Studier omfattar också undersökningar hur Pandemrix vaccinet som användes att vaccinera en stor del av befolkningen kunde inducera narkolepsi bara hos personer med HLA DQB1*06:02. Studier av primär prevention kommer att genomföras i ett internationellt samarbete med Global Platform for the Prevention of Autoimmun Diabetes (GPPAD). Sekundär prevention av autoimmun diabetes genomföres i samarbete med TrialNet, en NIH sammanslutning där vi är ett TrialNet Center för Sverige. Preventionsstudier genomföres i TEDDY Family study (TEFA med stöd av Juvenile Diabetes Research Foundation) där vi tar reda på om glutenfri kost kan förbättra betacellernas funktion hos personer med flera betacellsautoantikroppar.
Experimentellt genomför vi genetiska och funktionella studier på den spontandiabetiska BB råttan för att förklara hur monogen diabetes kan uppstå när Gimap5, ett anti-apoptopiskt protein inte längre uttrycks.
Sammantaget går vår forskning ut på att förutsäga och förebygga autoimmun (typ 1) diabetes genom att kombinera screening för HLA högrisk gener och icke-HLA gener för att identifiera personer med hög risk att utveckla en första autoantikropp efter en ännu okänd triggande faktor i miljön. Studier av primär och sekundär prevention genomföres för att till sist kunna förebygga och bota autoimmun (typ 1) diabetes.

Anställning

Principal Investigator
Diabetes och celiaki
Lunds universitet
Malmö, Sverige
2015 sep 21 → present

Principal Investigator
EXODIAB: Excellence of Diabetes Research in Sweden
Lunds universitet
Lund, Sverige
2010 jan 1 → present

Emeritus Professor in Medicine
University of Washington, Seattle
Seattle, USA
2009 jan 1 → present

Adjunct Professor
Lund University
Lund, Sverige

2006 jan 1 → 2008 jan 1

Adjunct Professor
Lund University
Lund, Sverige
1998 jan 1 → 2005 jan 1

Member of the Graduate Faculty
University of Washington, Seattle
Seattle, USA
1997 jan 1 → 2008 jan 1

Robert H. Williams Professor i Medicin
University of Washington, Seattle
Seattle, USA
1995 jan 1 → 2008 dec 31

Adjunct Professor
Karolinska Institute
Stockholm, Sverige
1995 jan 1 → 2001 jan 1

Adjunct Professor
University of Washington, Seattle
Seattle, USA
1995 jan 1 → 2007 jan 1

Professor i experimentell endokrinologi
Karolinska Institute
Stockholm, Sverige
1993 jan 1 → 1994 dec 31

Affiliate Professor
University of Washington, Seattle
Seattle, USA
1993 jan 1 → 1994 jan 1

Adjunct Professor
University of Washington, Seattle
Seattle, USA
1991 jan 1 → 1993 jan 1

Visiting Professor
Free University of Brussels
Brussels, Belgien
1990 jan 1 → 2000 jan 1

Professor in Diabetes Research
Lund University
Lund, Sverige
1989 jan 1 → 1991 jan 1

Robert H. Williams Professor i Medicin
University of Washington, Seattle

Seattle, USA
1988 jan 1 → 1992 dec 31

Adjunct Professor of Medical Cell Biology
Lund University
Lund, Sverige
1984 jan 1 → 1989 jan 1

Forskningschef
Hagedorn Research Institute
Gentofte, Danmark
1979 jan 1 → 1987 dec 31

Assistant professor
University of Chicago
Chicago, USA
1977 jan 1 → 1978 dec 31

Docent (avlönad)
Umeå University
Umeå, Sverige
1973 jan 1 → 1979 dec 31

Forskarassistent
Umeå University
Umeå, Sverige
1970 jan 1 → 1973 dec 31

Amanuens
Umeå University
Umeå, Sverige
1968 aug 1 → 1970 dec 31

Forskningsoutput

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