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Diabetes och celiaki  
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## 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 ansvarig 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 spontandibetiska BB råtten 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 triggnande 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, Professor emeritus

Celiaki och diabetes  
Lunds universitet  
Malmö, Sverige  
2015 sep. 21 → present

### Medlem i Strategiskt forskningsområde

EXODIAB: Excellence of Diabetes Research in Sweden  
Lunds universitet  
Malmö, 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 Institutet  
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 Institutet  
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**

Université Libre de Bruxelles (ULB)  
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**

### **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) I: *American Journal of Epidemiology*.

### **Profiling Associations Between IGHG-FCGR Ligand-Receptor Interactions and Disease Progression From Stage 1 and 2 to Stage 3 Type 1 Diabetes**

Zhao, L. P., Papadopoulos, G. K., Skyler, J. S., Parikh, H. M., Kwok, W. W., Lybrand, T. P., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2026, I: *Diabetes*. 75, 2, s. 379-388

### **The rise and fall of a paradigm and conceiving a new hypothesis for type 1 diabetes**

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### **Type 1 Diabetes**

Jönsson, J. & Lernmark, A., 2026, *Encyclopedia of Immunobiology*. Kaye, P. M. (red.). 2 uppl. Elsevier, s. 12-23

### **Quantitative temporal analysis of pancreatic islet T lymphocyte and macrophage infiltration heralded by serum IgE in congenic BioBreeding (BB) Gimap5<sup>-/-</sup> rats at risk for insulinitis and acute onset diabetes.**

Jönsson, J., Faxius, L., Tångrot, J., Vance, K., Jerman, S., Bowman, D., Bogdani, M., Ericsson, P., Bennet, R., Ramelius, A. & Lernmark, Å., 2025 okt. 3, I: *Inflammation Research*. 74, 1, 134.

### **Early appearance of thyroid autoimmunity in children followed from birth for type 1 diabetes risk**

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### **Amino acids and CART distinguish A-β+ Ketosis-Prone Diabetes from type 1 and type 2 diabetes during hyperglycemic crises**

Jahoor, F., Hsu, J. W., Keene, K. R., Peacock, W. F., Huang, X., Guffey, D., Byun, J., Bennet, R., Lernmark, A., Tosur, M. & Balasubramanyam, A., 2025, I: The Journal of clinical endocrinology and metabolism. 110, 10, s. e3462-e3471

### **Considerations for more actionable consensus guidance for monitoring individuals with islet autoantibody-positive pre-stage 3 type 1 diabetes. Reply to Mallone R [letter]**

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., Dutta, S., Ebekozi, O., Elding Larsson, H., Frohnert, B. I., Gallagher, M. P. & Greenbaum, C. J. och 35 andra, Griffin, K. J., Hagopian, W., Haller, M. J., Hendriks, E., Holt, R. I. G., Ismail, H. M., Jacobsen, L. M., Kolb, L. E., Kordonouri, O., Lange, K., Lash, R. W., Lernmark, Å., Libman, I., Lundgren, M., Maahs, D. M., Marcovecchio, M. L., Mathieu, C., Oron, T., Patil, S. P., Rewers, M. J., Rich, S. S., Schatz, D. A., Schulman-Rosenbaum, R., Simmons, K. M., Sims, E. K., Skyler, J. S., Speake, C., Steck, A. K., Tonyushkina, K. N., Veijola, R., Wentworth, J. M., Wherrett, D. K., Wood, J. R., Ziegler, A.-G. & DiMeglio, L. A., 2025, I: Diabetologia. 68, 4, s. 892-895

### **Looking back at the TEDDY study: lessons and future directions**

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### **Predictors of Transitions From GADA as the Initial Autoantibody to Multiple Autoantibodies of Type 1 Diabetes in Children at Risk by a Dynamic Prediction Model**

You, L., Salami, F., Tamura, R., Törn, C., Vehik, K., Hagopian, W. A., Rewers, M. J., McIndoe, R. A., Toppari, J., Ziegler, A. G., Akolkar, B., Krischer, J. P. & Lernmark, Å., 2025, I: Pediatric Diabetes. s. 1-11 8845330.

### **Profiling associations of interactive ligand-receptors (HLA class I and KIR gene products) with the progression to type 1 diabetes among seroconverted participants**

Zhao, L. P., Papadopoulos, G. K., McFarland, B. J., Skyler, J. S., Parikh, H. M., Kwok, W. W., Lybrand, T. P., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2025, I: Diabetologia. 68, 12, 2743-2753.

### **The Contribution of BMI to a Young Child's Risk of Islet Autoimmunity Is Dependent on HLA-DR4-DQ8 Without HLA-DR3-DQ2**

Koskenniemi, J. J., Clasen, J. L., You, L., Parikh, H. M., Vehik, K., Yang, J., Uusitalo, U., Veijola, R., Haller, M. J., Ziegler, A. G., Rewers, M. J., Hagopian, W. A., Akolkar, B., Lernmark, Å., Toppari, J., Larsson, H. E., Krischer, J. P., Lynch, K. F. & TEDDY Study Group, 2025, I: Diabetes Care. 48, 12, s. 2103-2110

### **The heterogeneity of type 1 diabetes: implications for pathogenesis, prevention, and treatment - 2024 Diabetes, Diabetes Care, and Diabetologia Expert Forum**

Evans-Molina, C., Dor, Y., Lernmark, Å., Mathieu, C., Millman, J. R., Mirmira, R. G., Pociot, F., Redondo, M. J., Rich, S. S., Richardson, S. J., Rickels, M. R. & Leslie, R. D., 2025, I: Diabetologia. 68, 9, s. 1859-1878

### **The Heterogeneity of Type 1 Diabetes: Implications for Pathogenesis, Prevention, and Treatment-2024 Diabetes, Diabetes Care, and Diabetologia Expert Forum**

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**The Heterogeneity of Type 1 Diabetes: Implications for Pathogenesis, Prevention, and Treatment-2024 Diabetes, Diabetes Care, and Diabetologia Expert Forum**

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**Two DRB3 residues predictively associate with the progression to type 1 diabetes among DR3 carriers**

Zhao, L. P., Papadopoulos, G. K., Skyler, J. S., Kwok, W. W., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2025, I: *JCI Insight*. 10, 7, e184348.

**Unfolding the Mystery of Autoimmunity: The Environmental Determinants of Diabetes in the Young (TEDDY) Study**

Rewers, M., Agardh, D., Johnson, S. B., Bonifacio, E., Larsson, H. E., Gesualdo, P., Hagopian, W., Haller, M. J., Hyöty, H., Johnson, R., McIndoe, R., McKinney, E., Melin, J., Lernmark, Å., Lloyd, R. E., Lynch, K. F., Norris, J. M., Rich, S. S., Roth, R. & Schatz, D. och 8 andra, Toppari, J., Triplett, E., Vehik, K., Virtanen, S. M., Ziegler, A.-G., Akolkar, B., Krischer, J. P. & TEDDY Study Group, 2025, I: *Diabetes Care*. 48, 7, s. 1125-1135

**β-Cell Function and Glucose Tolerance in Persons With Multiple Islet Autoantibodies Randomized to a Gluten-free Diet**

Maziarz, M., Koskenniemi, J. J., Martinez, M. M., Spiliopoulos, L., Salami, F., Toppari, J., Kero, J., Veijola, R., Tossavainen, P., Palmu, S., Aronsson, C. A., Lundgren, M., Borg, H., Katsarou, A., Elding Larsson, H., Knip, M., Lou, O., Dunne, J. L., Törn, C. & Lernmark, Å., 2025, I: *Journal of the Endocrine Society*. 9, 8

**Joint modeling of multistate and nonparametric multivariate longitudinal data**

You, L., Salami, F., Törn, C., Lernmark, Å. & Tamura, R., 2024 sep. 1, I: *Annals of Applied Statistics*. 18, 3, s. 2444-2461

**Type 1 diabetes, celiac disease, and autoimmune thyroiditis autoantibodies in population-based type 2 diabetes patients**

Lind, A., Cheng-ting, T., Åke, L. & Johan, J., 2024 sep., I: *Journal of Clinical and Translational Endocrinology*. 37, 100367.

**The Influence of Pubertal Development on Autoantibody Appearance and Progression to Type 1 Diabetes in the TEDDY Study**

Warncke, K., Tamura, R., Schatz, D. A., Veijola, R., Steck, A. K., Akolkar, B., Hagopian, W., Krischer, J. P., Lernmark, Å., Rewers, M. J., Toppari, J., McIndoe, R., Ziegler, A.-G., Vehik, K., Haller, M. J. & Elding Larsson, H., 2024 maj 23, I: *Journal of the Endocrine Society*. 8, 7, bva103.

**Autoimmune Type 1 Diabetes**

Akel, O. & Lernmark, Å., 2024 jan. 1, *Textbook of Diabetes*. Holt, R. I. & Flyvbjerg, A. (red.). Sixth edition uppl. Wiley, s. 203-215

**Anxiety, depression and quality of life in relation to SARS-CoV-2 antibodies in individuals living with diabetes during the second wave of COVID-19**

Lind, A., Yang, C., Hugo, H., Maria, H., Stefan, J., Lernmark, Å., Martin, S., Staffan, T., Cheng-ting, T., Jeanette, W. & Johan, J., 2024 jan., I: *Diabetes Epidemiology and Management*. 13, 100194.

**Assisting the implementation of screening for type 1 diabetes by using artificial intelligence on publicly available data**

Teixeira, P. F., Battelino, T., Carlsson, A., Gudbjörnsdóttir, S., Hannelius, U., von Herrath, M., Knip, M., Korsgren, O., Elding Larsson, H., Lindqvist, A., Ludvigsson, J., Lundgren, M., Nowak, C., Pettersson, P., Pociot, F., Sundberg, F., Åkesson, K., Lernmark, Å. & Forsander, G., 2024, I: *Diabetologia*. 67, 6, s. 985-994

**Caesarean section and risk of type 1 diabetes**

Singh, T., Weiss, A., Vehik, K., Krischer, J., Rewers, M., Toppari, J., Lernmark, Å., Hagopian, W., Akolkar, B., Bonifacio, E., Ziegler, A.-G., Winkler, C. & TEDDY Study Group, 2024, I: *Diabetologia*. 67, 8, s. 1582-1587

**Childhood screening for type 1 diabetes comparing automated multiplex Antibody Detection by Agglutination-PCR (ADAP) with single plex islet autoantibody radiobinding assays**

Lind, A., Freyhult, E., de Jesus Cortez, F., Ramelius, A., Bennet, R., Robinson, P. V., Seftel, D., Gebhart, D., Tandel, D., Maziarz, M., Larsson, H. E., Lundgren, M., Carlsson, A., Nilsson, A.-L., Fex, M., Törn, C., Agardh, D., Tsai, C.-T., Lernmark, Å. & Better Diabetes Diagnosis (BDD) Study Group, 2024, I: *EBioMedicine*. 104, 105144.

### **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., Ebekozi, O., Larsson, H. E., Feiten, D. J. & Frohnert, B. I. och 46 andra, Gabbay, R. A., Gallagher, M. P., Greenbaum, C. J., Griffin, K. J., Hagopian, W., Haller, M. J., Hendrickx, 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, I: *Diabetologia*. 67, 9, s. 1731-1759

### **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., Ebekozi, O., Elding Larsson, H., Feiten, D. J. & Frohnert, B. I. och 46 andra, Gabbay, R. A., Gallagher, M. P., Greenbaum, C. J., Griffin, K. J., Hagopian, W., Haller, M. J., Hendrickx, 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, I: *Diabetes Care*. 47, 8, s. 1276-1298

### **HLA Class II (DR, DQ, DP) Genes Were Separately Associated With the Progression From Seroconversion to Onset of Type 1 Diabetes Among Participants in Two Diabetes Prevention Trials (DPT-1 and TN07)**

Zhao, L. P., Papadopoulos, G. K., Skyler, J. S., Pugliese, A., Parikh, H. M., Kwok, W. W., Lybrand, T. P., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2024, I: *Diabetes Care*. 47, 5, s. 826-834

### **Intake of B vitamins and the risk of developing islet autoimmunity and type 1 diabetes in the TEDDY study**

Hakola, L., Mramba, L. K., Uusitalo, U., Andrén Aronsson, C., Hummel, S., Niinistö, S., Erlund, I., Yang, J., Rewers, M. J., Akolkar, B., McIndoe, R. A., Rich, S. S., Hagopian, W. A., Ziegler, A., Lernmark, Å., Toppari, J., Krischer, J. P., Norris, J. M., Virtanen, S. M. & TEDDY Study Group, 2024, I: *European Journal of Nutrition*. 63, 4, s. 1329-1338

### **Oral Insulin Delay of Stage 3 Type 1 Diabetes Revisited in HLA DR4-DQ8 Participants in the TrialNet Oral Insulin Prevention Trial (TN07)**

Zhao, L. P., Papadopoulos, G. K., Skyler, J. S., Parikh, H. M., Kwok, W. W., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2024, I: *Diabetes Care*. 47, 9, s. 1608-1616

### **Progression to type 1 diabetes in the DPT-1 and TN07 clinical trials is critically associated with specific residues in HLA-DQA1-B1 heterodimers**

Zhao, L. P., Papadopoulos, G. K., Skyler, J. S., Pugliese, A., Parikh, H. M., Kwok, W. W., Lybrand, T. P., Bondinas, G. P., Moustakas, A. K., Wang, R., Pyo, C.-W., Nelson, W. C., Geraghty, D. E. & Lernmark, Å., 2024, I: *Diabetologia*. 67, 11, s. 2481-2493

### **Distinct transcriptomic profiles in children prior to the appearance of type 1 diabetes-linked islet autoantibodies and following enterovirus infection**

Lin, J., Moradi, E., Salenius, K., Lehtipuro, S., Häkkinen, T., Laiho, J. E., Oikarinen, S., Randelin, S., Parikh, H. M., Krischer, J. P., Toppari, J., Lernmark, Å., Petrosino, J. F., Ajami, N. J., She, J.-X., Hagopian, W. A., Rewers, M. J., Lloyd, R. E., Rautajoki, K. J. & Hyöty, H. och 2 andra, Nykter, M. & TEDDY Study Group, 2023 nov. 22, I: *Nature Communications*. 14, s. 1-13 7630.

### **Executive Summary: Guidelines and Recommendations for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus**

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 okt., I: *Diabetes Care*. 46, 10, s. 1740-1746 7 s.

**Guidelines and Recommendations for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus**  
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 okt., I: *Diabetes Care*. 46, 10, s. e151-e199

**Polymorphisms in Intron 1 of HLA-DRA Differentially Associate with Type 1 Diabetes and Celiac Disease and Implicate Involvement of Complement System Genes C4A and C4B**

Aydemir, Ö., Bailey, J. A., Agardh, D., Lernmark, A., Noble, J., Andersson Svård, A., Blankenhorn, E. P., Parikh, H., Ziegler, A. G., Toppari, J., Akolkar, B., Hagopian, W. A., Rewers, M. J., Mordes, J. P. & TEDDY Study Group, 2023 sep. 1, (E-pub ahead of print) I: *eLife*. 22 s.

**SARS-CoV-2 - No Increased Islet Autoimmunity or Type 1 Diabetes in Teens**

Krischer, J. P., Lernmark, Å., Hagopian, W. A., Rewers, M. J., McIndoe, R., Toppari, J., Ziegler, A.-G., Akolkar, B. & TEDDY Study Group, 2023 aug. 3, I: *The New England journal of medicine*. 389, 5, s. 474-475

**Executive Summary: Guidelines and Recommendations for Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus**

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