Heikki Hyoty

List of Publications by Year
in descending order

282 papers	17,164 citations	14655 66 h-index	20358 116 g-index
293 all docs	293 docs citations	293 times ranked	14025 citing authors

#	Article	IF	Citations
1	Temporal development of the gut microbiome in early childhood from the TEDDY study. Nature, 2018, 562, 583-588.	27.8	1,220
2	Toward defining the autoimmune microbiome for type 1 diabetes. ISME Journal, 2011, 5, 82-91.	9.8	709
3	Gut Microbiome Metagenomics Analysis Suggests a Functional Model for the Development of Autoimmunity for Type 1 Diabetes. PLoS ONE, 2011, 6, e25792.	2.5	660
4	Dysregulation of lipid and amino acid metabolism precedes islet autoimmunity in children who later progress to type 1 diabetes. Journal of Experimental Medicine, 2008, 205, 2975-2984.	8.5	399
5	Environmental Triggers and Determinants of Type 1 Diabetes. Diabetes, 2005, 54, S125-S136.	0.6	385
6	A Prospective Study of the Role of Coxsackie B and Other Enterovirus Infections in the Pathogenesis of IDDM. Diabetes, 1995, 44, 652-657.	0.6	350
7	Nasal insulin to prevent type 1 diabetes in children with HLA genotypes and autoantibodies conferring increased risk of disease: a double-blind, randomised controlled trial. Lancet, The, 2008, 372, 1746-1755.	13.7	345
8	Strain-Level Analysis of Mother-to-Child Bacterial Transmission during the First Few Months of Life. Cell Host and Microbe, 2018, 24, 146-154.e4.	11.0	311
9	Aberrant gut microbiota composition at the onset of type 1 diabetes in young children. Diabetologia, 2014, 57, 1569-1577.	6.3	274
10	Detection of a Low-Grade Enteroviral Infection in the Islets of Langerhans of Living Patients Newly Diagnosed With Type 1 Diabetes. Diabetes, 2015, 64, 1682-1687.	0.6	255
11	Bacteroides dorei dominates gut microbiome prior to autoimmunity in Finnish children at high risk for type 1 diabetes. Frontiers in Microbiology, 2014, 5, 678.	3.5	241
12	Enterovirus infection as a risk factor for beta-cell autoimmunity in a prospectively observed birth cohort: the Finnish Diabetes Prediction and Prevention Study.. Diabetes, 2000, 49, 1314-1318.	0.6	235
13	Environmental factors in the etiology of type 1 diabetes. American Journal of Medical Genetics Part A, 2002, 115, 18-29.	2.4	233
14	Coxsackievirus B1 Is Associated With Induction of Î²-Cell Autoimmunity That Portends Type 1 Diabetes. Diabetes, 2014, 63, 446-455.	0.6	228
15	The role of viruses in human diabetes. Diabetologia, 2002, 45, 1353-1361.	6.3	223
16	Early seroconversion and rapidly increasing autoantibody concentrations predict prepubertal manifestation of type 1 diabetes in children at genetic risk. Diabetologia, 2012, 55, 1926-1936.	6.3	195
17	Enterovirus Infection and Progression From Islet Autoimmunity to Type 1 Diabetes. Diabetes, 2010, 59, 3174-3180.	0.6	192
18	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. Nature Microbiology, 2019, 4, 1727-1736.	13.3	184

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19	Rectal Bleeding in Infancy: Clinical, Allergological, and Microbiological Examination. Pediatrics, 2006, 117, e760-e768.	2.1	183
20	Biodiversity intervention enhances immune regulation and health-associated commensal microbiota among daycare children. Science Advances, 2020, 6, .	10.3	174
21	Prospective virome analyses in young children at increased genetic risk for type 1 diabetes. Nature Medicine, 2019, 25, 1865-1872.	30.7	161
22	The diagnosis of insulitis in human type 1 diabetes. Diabetologia, 2013, 56, 2541-2543.	6.3	159
23	Innate Immune Activity Is Detected Prior to Seroconversion in Children With HLA-Conferred Type 1 Diabetes Susceptibility. Diabetes, 2014, 63, 2402-2414.	0.6	158
24	Enterovirus RNA in Blood Is Linked to the Development of Type 1 Diabetes. Diabetes, 2011, 60, 276-279.	0.6	155
25	Pancreatic biopsy by minimal tail resection in live adult patients at the onset of type 1 diabetes: experiences from the DiViD study. Diabetologia, 2014, 57, 841-843.	6.3	149
26	Islet Cell Antibody Seroconversion in Children Is Temporally Associated with Enterovirus Infections. Journal of Infectious Diseases, 1997, 175, 554-560.	4.0	148
27	A sixâ€fold gradient in the incidence of type 1 diabetes at the eastern border of Finland. Annals of Medicine, 2005, 37, 67-72.	3.8	142
28	Factors That Increase Risk of Celiac Disease Autoimmunity After a Gastrointestinal Infection in Early Life. Clinical Gastroenterology and Hepatology, 2017, 15, 694-702.e5.	4.4	140
29	Enterovirus RNA in serum is a risk factor for beta-cell autoimmunity and clinical type 1 diabetes: A prospective study. Journal of Medical Virology, 2000, 61, 214-220.	5.0	133
30	Type 1 Diabetes Is Associated With Enterovirus Infection in Gut Mucosa. Diabetes, 2012, 61, 687-691.	0.6	128
31	Enterovirus infections are associated with the induction of Î²-cell autoimmunity in a prospective birth cohort study. Journal of Medical Virology, 2003, 69, 91-98.	5.0	126
32	Virus Antibody Survey in Different European Populations Indicates Risk Association Between Coxsackievirus B1 and Type 1 Diabetes. Diabetes, 2014, 63, 655-662.	0.6	126
33	Lower economic status and inferior hygienic environment may protect against celiac disease. Annals of Medicine, 2008, 40, 223-231.	3.8	125
34	Timing of infant feeding in relation to childhood asthma and allergic diseases. Journal of Allergy and Clinical Immunology, 2013, 131, 78-86.	2.9	116
35	Relationship between the incidence of type 1 diabetes and maternal enterovirus antibodies: time trends and geographical variation. Diabetologia, 2005, 48, 1280-1287.	6.3	113
36	Respiratory infections are temporally associated with initiation of type 1 diabetes autoimmunity: the TEDDY study. Diabetologia, 2017, 60, 1931-1940.	6.3	112

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37	Viruses in type 1 diabetes. Pediatric Diabetes, 2016, 17, 56-64.	2.9	108
38	Several different enterovirus serotypes can be associated with prediabetic autoimmune episodes and onset of overt IDDM. , 1998, 56, 74-78.		106
39	A prospective study of the role of coxsackie B and other enterovirus infections in the pathogenesis of IDDM. Childhood Diabetes in Finland (DiMe) Study Group. Diabetes, 1995, 44, 652-657.	0.6	105
40	Food diversity in infancy and the risk of childhood asthma and allergies. Journal of Allergy and Clinical Immunology, 2014, 133, 1084-1091.	2.9	104
41	The relationship between breastfeeding and reported respiratory and gastrointestinal infection rates in young children. BMC Pediatrics, 2019, 19, 339.	1.7	104
42	Allergic sensitization and microbial loadâ€ƒâ€"â€ƒa comparison between Finland and Russian Karelia. Clinical and Experimental Immunology, 2007, 148, 47-52.	2.6	103
43	Maternal Antibodies in Breast Milk Protect the Child From Enterovirus Infections. Pediatrics, 2007, 119, 941-946.	2.1	102
44	Effects of Gluten Intake on Risk of Celiac Disease: A Case-Control Study on a Swedish Birth Cohort. Clinical Gastroenterology and Hepatology, 2016, 14, 403-409.e3.	4.4	102
45	The â€˜Hygiene hypothesisâ€™ and the sharp gradient in the incidence of autoimmune and allergic diseases between Russian Karelia and Finland. Apmis, 2013, 121, 478-493.	2.0	97
46	Fate of Five Celiac Disease-Associated Antibodies During Normal Diet in Genetically At-Risk Children Observed from Birth in a Natural History Study. American Journal of Gastroenterology, 2007, 102, 2026-2035.	0.4	95
47	Coxsackievirus B1 infections are associated with the initiation of insulin-driven autoimmunity that progresses to type 1 diabetes. Diabetologia, 2018, 61, 1193-1202.	6.3	95
48	Urbanization Reduces Transfer of Diverse Environmental Microbiota Indoors. Frontiers in Microbiology, 2018, 9, 84.	3.5	95
49	Circulating CXCR5+PD-1+ICOS+ Follicular T Helper Cells Are Increased Close to the Diagnosis of Type 1 Diabetes in Children With Multiple Autoantibodies. Diabetes, 2017, 66, 437-447.	0.6	94
50	Enteroviruses in the pathogenesis of type 1 diabetes. Seminars in Immunopathology, 2011, 33, 45-55.	6.1	93
51	Decline of mumps antibodies in Type 1 (insulin-dependent) diabetic children and a plateau in the rising incidence of Type 1 diabetes after introduction of the mumps-measles-rubella vaccine in Finland. Diabetologia, 1993, 36, 1303-1308.	6.3	91
52	Detection of enteroviruses in the intestine of type 1 diabetic patients. Clinical and Experimental Immunology, 2007, 151, 71-75.	2.6	91
53	Diagnosis of enterovirus and rhinovirus infections by RT-PCR and time-resolved fluorometry with lanthanide chelate labeled probes. Journal of Medical Virology, 1999, 59, 378-384.	5.0	89
54	A combined risk score enhances prediction of type 1 diabetes among susceptible children. Nature Medicine, 2020, 26, 1247-1255.	30.7	83

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55	Metagenomics of the faecal virome indicate a cumulative effect of enterovirus and gluten amount on the risk of coeliac disease autoimmunity in genetically at risk children: the TEDDY study. Gut, 2020, 69, 1416-1422.	12.1	82
56	Cord Serum Lipidome in Prediction of Islet Autoimmunity and Type 1 Diabetes. Diabetes, 2013, 62, 3268-3274.	0.6	81
57	Can enterovirus infections explain the increasing incidence of type 1 diabetes?. Diabetes Care, 2000, 23, 414-416.	8.6	79
58	Enterovirus antibody levels during the first two years of life in prediabetic autoantibody-positive children. Diabetologia, 2001, 44, 818-823.	6.3	79
59	Association Between Early-Life Antibiotic Use and the Risk of Islet or Celiac Disease Autoimmunity. JAMA Pediatrics, 2017, 171, 1217.	6.2	79
60	Introduction of complementary foods in infancy and atopic sensitization at the age of 5Âyears: timing and food diversity in a Finnish birth cohort. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 507-516.	5.7	77
61	The Environmental Determinants of Diabetes in the Young (TEDDY) Study: 2018 Update. Current Diabetes Reports, 2018, 18, 136.	4.2	77
62	Expression of Toll-like Receptors in the Pancreas of Recent-onset Fulminant Type 1 Diabetes. Endocrine Journal, 2010, 57, 211-219.	1.6	76
63	Detection of enteroviruses in stools precedes islet autoimmunity by several months: possible evidence for slowly operating mechanisms in virus-induced autoimmunity. Diabetologia, 2017, 60, 424-431.	6.3	73
64	Plasma 25-Hydroxyvitamin D Concentration and Risk of Islet Autoimmunity. Diabetes, 2018, 67, 146-154.	0.6	72
65	Relationship between the incidence of type 1 diabetes and enterovirus infections in different European populations: Results from the EPIVIR project. Journal of Medical Virology, 2004, 72, 610-617.	5.0	70
66	Natural history of transglutaminase autoantibodies and mucosal changes in children carrying HLA-conferred celiac disease susceptibility. Scandinavian Journal of Gastroenterology, 2005, 40, 1182-1191.	1.5	70
67	Enterovirus infections as a risk factor for type I diabetes: virus analyses in a dietary intervention trial. Clinical and Experimental Immunology, 2003, 132, 271-277.	2.6	69
68	Analysis of pancreas tissue in a child positive for islet cell antibodies. Diabetologia, 2008, 51, 1796-1802.	6.3	69
69	Enterovirus infections and type 1 diabetes. Annals of Medicine, 2002, 34, 138-147.	3.8	68
70	PCR inhibition in stool samples in relation to age of infants. Journal of Clinical Virology, 2009, 44, 211-214.	3.1	67
71	Human parechovirus 1 infections in young childrenâ€"no association with type 1 diabetes. Journal of Medical Virology, 2007, 79, 457-462.	5.0	66
72	Age-associated DNA methylation changes in immune genes, histone modifiers and chromatin remodeling factors within 5Âyears after birth in human blood leukocytes. Clinical Epigenetics, 2015, 7, 34.	4.1	65

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73	Rationale for enteroviral vaccination and antiviral therapies in human type 1 diabetes. Diabetologia, 2019, 62, 744-753.	6.3	65
74	Real-time PCR for rapid diagnosis of entero- and rhinovirus infections using LightCycler. Journal of Clinical Virology, 2004, 29, 99-104.	3.1	64
75	Shortâ€term direct contact with soil and plant materials leads to an immediate increase in diversity of skin microbiota. MicrobiologyOpen, 2019, 8, e00645.	3.0	63
76	Maternal First-Trimester Enterovirus Infection and Future Risk of Type 1 Diabetes in the Exposed Fetus. Diabetes, 2002, 51, 2568-2571.	0.6	60
77	T-cell responses to enterovirus antigens in children with type 1 diabetes. Diabetes, 2000, 49, 1308-1313.	0.6	58
78	Serological Evidence of Thyroid Autoimmunity among Schoolchildren in Two Different Socioeconomic Environments. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 729-734.	3.6	58
79	Gut Virome Sequencing in Children With Early Islet Autoimmunity. Diabetes Care, 2015, 38, 930-933.	8.6	58
80	A Coxsackievirus B vaccine protects against virus-induced diabetes in an experimental mouse model of type 1 diabetes. Diabetologia, 2018, 61, 476-481.	6.3	58
81	Human parechoviruses are frequently detected in stool of healthy Finnish children. Journal of Clinical Virology, 2012, 54, 156-161.	3.1	57
82	Dynamics of Plasma Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes â€“ Type 1 Diabetes Prediction and Prevention Study (DIPP). Scientific Reports, 2018, 8, 10635.	3.3	56
83	A hexavalent Coxsackievirus B vaccine is highly immunogenic and has a strong protective capacity in mice and nonhuman primates. Science Advances, 2020, 6, eaaz2433.	10.3	55
84	Antibody cross-reactivity induced by the homologous regions in glutamic acid decarboxylase (GAD65) and 2C protein of coxsackievirus B4. Clinical and Experimental Immunology, 1996, 104, 398-405.	2.6	53
85	Viral interference induced by live attenuated virus vaccine (OPV) can prevent otitis media. Vaccine, 2011, 29, 8615-8618.	3.8	53
86	Serum 25-Hydroxyvitamin D Concentrations in Children Progressing to Autoimmunity and Clinical Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 723-729.	3.6	53
87	Isolation of enterovirus strains from children with preclinical TypeÂ1 diabetes. Diabetic Medicine, 2004, 21, 156-164.	2.3	52
88	The abundance of health-associated bacteria is altered in PAH polluted soilsâ€"Implications for health in urban areas?. PLoS ONE, 2017, 12, e0187852.	2.5	52
89	Half-lives of PAHs and temporal microbiota changes in commonly used urban landscaping materials. PeerJ, 2018, 6, e4508.	2.0	52
90	Mumps virus infects Beta cells in human fetal islet cell cultures upregulating the expression of HLA class I molecules. Diabetologia, 1992, 35, 63-69.	6.3	51

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91	Human parechovirus seroprevalence in Finland and the Netherlands. Journal of Clinical Virology, 2013, 58, 211-215.	3.1	51
92	Role of Viruses and Other Microbes in the Pathogenesis of Type 1 Diabetes. International Reviews of Immunology, 2014, 33, 284-295.	3.3	51
93	The HLA-DR phenotype modulates the humoral immune response to enterovirus antigens. Diabetologia, 2003, 46, 1100-1105.	6.3	50
94	Nature-derived microbiota exposure as a novel immunomodulatory approach. Future Microbiology, 2018, 13, 737-744.	2.0	50
95	Signs of Â-Cell Autoimmunity in Nondiabetic Schoolchildren: A comparison between Russian Karelia with a low incidence of type 1 diabetes and Finland with a high incidence rate. Diabetes Care, 2007, 30, 95-100.	8.6	48
96	Evolution and conservation in human parechovirus genomes. Journal of General Virology, 2009, 90, 1702-1712.	2.9	48
97	Early Infant Diet and Islet Autoimmunity in the TEDDY Study. Diabetes Care, 2018, 41, 522-530.	8.6	48
98	Serological evaluation of the role of cytomegalovirus in the pathogenesis of IDDM: a prospective study. Diabetologia, 1995, 38, 705-710.	6.3	47
99	Serum Proteomes Distinguish Children Developing Type 1 Diabetes in a Cohort With HLA-Conferred Susceptibility. Diabetes, 2015, 64, 2265-2278.	0.6	46
100	Developing a vaccine for type 1 diabetes by targeting coxsackievirus B. Expert Review of Vaccines, 2018, 17, 1071-1083.	4.4	46
101	Enteral virus infections in early childhood and an enhanced type 1 diabetes-associated antibody response to dietary insulin. Journal of Autoimmunity, 2006, 27, 54-61.	6.5	45
102	Maternal Enterovirus Infection during Pregnancy as a Risk Factor in Offspring Diagnosed with Type 1 Diabetes between 15 and 30 Years of Age. Experimental Diabetes Research, 2008, 2008, 1-6.	3.8	44
103	Methods, quality control and specimen management in an international multicentre investigation of type 1 diabetes: TEDDY. Diabetes/Metabolism Research and Reviews, 2013, 29, 557-567.	4.0	44
104	Imbalance of bacteriome profiles within the Finnish Diabetes Prediction and Prevention study: Parallel use of 16S profiling and virome sequencing in stool samples from children with islet autoimmunity and matched controls. Pediatric Diabetes, 2017, 18, 588-598.	2.9	44
105	Enterovirus infections and enterovirus specific T-cell responses in infancy. Journal of Medical Virology, 1998, 54, 226-232.	5.0	42
106	Metabolic alterations in immune cells associate with progression to type 1 diabetes. Diabetologia, 2020, 63, 1017-1031.	6.3	42
107	A preclinical study on the efficacy and safety of a new vaccine against Coxsackievirus B1 reveals no risk for accelerated diabetes development in mouse models. Diabetologia, 2015, 58, 346-354.	6.3	41
108	Hierarchical Order of Distinct Autoantibody Spreading and Progression to Type 1 Diabetes in the TEDDY Study. Diabetes Care, 2020, 43, 2066-2073.	8.6	41

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109	Quantitative <i>CrAssphage</i> realâ€time PCR assay derived from data of multiple geographically distant populations. Journal of Medical Virology, 2018, 90, 767-771.	5.0	40
110	Early childhood infections precede development of beta-cell autoimmunity and type 1 diabetes in children with HLA-conferred disease risk. Pediatric Diabetes, 2018, 19, 293-299.	2.9	40
111	Enterovirus RNA in serum is a risk factor for beta-cell autoimmunity and clinical type 1 diabetes: a prospective study. Childhood Diabetes in Finland (DiMe) Study Group. Journal of Medical Virology, 2000, 61, 214-20.	5.0	40
112	Enterovirus infections and insulin dependent diabetes mellitusâ€"evidence for causality. Clinical and Diagnostic Virology, 1998, 9, 77-84.	1.7	39
113	Responses of Coxsackievirus B4-Specific T-Cell Lines to 2C Proteinâ€"Characterization of Epitopes with Special Reference to the GAD65 Homology Region. Virology, 2001, 284, 131-141.	2.4	39
114	Maternal Enterovirus Infection as a Risk Factor for Type 1 Diabetes in the Exposed Offspring. Diabetes Care, 2012, 35, 1328-1332.	8.6	39
115	Interaction of enterovirus infection and cow's milkâ€based formula nutrition in type 1 diabetesâ€associated autoimmunity. Diabetes/Metabolism Research and Reviews, 2012, 28, 177-185.	4.0	39
116	Infection of human islets of langerhans with two strains of coxsackie B virus serotype 1: Assessment of virus replication, degree of cell death and induction of genes involved in the innate immunity pathway. Journal of Medical Virology, 2014, 86, 1402-1411.	5.0	39
117	Next-Generation Sequencing Combined with Specific PCR Assays To Determine the Bacterial 16S rRNA Gene Profiles of Middle Ear Fluid Collected from Children with Acute Otitis Media. MSphere, 2017, 2, .	2.9	39
118	Yard vegetation is associated with gut microbiota composition. Science of the Total Environment, 2020, 713, 136707.	8.0	39
119	Effect of coincident enterovirus infection and cows' milk exposure on immunisation to insulin in early infancy. Diabetologia, 2002, 45, 531-534.	6.3	37
120	Coxsackievirus B3 VLPs purified by ion exchange chromatography elicit strong immune responses in mice. Antiviral Research, 2014, 104, 93-101.	4.1	37
121	Diagnosis of enterovirus and rhinovirus infections by RT-PCR and time-resolved fluorometry with lanthanide chelate labeled probes. Journal of Medical Virology, 1999, 59, 378-84.	5.0	37
122	Low zinc in drinking water is associated with the risk of type 1 diabetes in children. Pediatric Diabetes, 2011, 12, 156-164.	2.9	36
123	The methylome of the gut microbiome: disparate Dam methylation patterns in intestinal Bacteroides dorei. Frontiers in Microbiology, 2014, 5, 361.	3.5	36
124	Long-term biodiversity intervention shapes health-associated commensal microbiota among urban day-care children. Environment International, 2021, 157, 106811.	10.0	36
125	Molecular Analysis of an Echovirus 3 Strain Isolated from an Individual Concurrently with Appearance of Islet Cell and IA-2 Autoantibodies. Journal of Clinical Microbiology, 2006, 44, 441-448.	3.9	35
126	Human enterovirus 71 strains in the background population and in hospital patients in Finland. Journal of Clinical Virology, 2013, 56, 348-353.	3.1	35

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127	Evaluation of the fidelity of immunolabelling obtained with clone 5D8/1, a monoclonal antibody directed against the enteroviral capsid protein, VP1, in human pancreas. Diabetologia, 2014, 57, 392-401.	6.3	35
128	Standard of hygiene and immune adaptation in newborn infants. Clinical Immunology, 2014, 155, 136-147.	3.2	35
129	Age at Development of Type 1 Diabetesâ€" and Celiac Diseaseâ€"Associated Antibodies and Clinical Disease in Genetically Susceptible Children Observed From Birth. Diabetes Care, 2010, 33, 774-779.	8.6	34
130	Next-generation sequencing for viruses in children with rapid-onset type 1 diabetes. Diabetologia, 2013, 56, 1705-1711.	6.3	34
131	Temporal variation in indoor transfer of dirt-associated environmental bacteria in agricultural and urban areas. Environment International, 2019, 132, 105069.	10.0	34
132	Microbial Exposure in Infancy and Subsequent Appearance of Type 1 Diabetes Mellitusâ€"Associated Autoantibodies. JAMA Pediatrics, 2014, 168, 755.	6.2	33
133	Endocrine disruption and commensal bacteria alteration associated with gaseous and soil PAH contamination among daycare children. Environment International, 2019, 130, 104894.	10.0	32
134	Immunological resilience and biodiversity for prevention of allergic diseases and asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 3613-3626.	5.7	32
135	Moraxella catarrhalis Might Be More Common than Expected in Acute Otitis Media in Young Finnish Children. Journal of Clinical Microbiology, 2016, 54, 2373-2379.	3.9	31
136	B-Cell Responses to Human Bocaviruses 1â€"4: New Insights from a Childhood Follow-Up Study. PLoS ONE, 2015, 10, e0139096.	2.5	31
137	Use of antisera directed against dsRNA to detect viral infections in formalin-fixed paraffin-embedded tissue. Journal of Clinical Virology, 2010, 49, 180-185.	3.1	30
138	Coxsackieâ€"adenovirus receptor expression is enhanced in pancreas from patients with type 1 diabetes. BMJ Open Diabetes Research and Care, 2016, 4, e000219.	2.8	30
139	Circulating metabolites in progression to islet autoimmunity and type 1 diabetes. Diabetologia, 2019, 62, 2287-2297.	6.3	30
140	Persistent Alterations in Plasma Lipid Profiles Before Introduction of Gluten in the Diet Associated With Progression to Celiac Disease. Clinical and Translational Gastroenterology, 2019, 10, e00044.	2.5	30
141	Early exposure to cats, dogs and farm animals and the risk of childhood asthma and allergy. Pediatric Allergy and Immunology, 2020, 31, 265-272.	2.6	30
142	Longitudinal Metabolome-Wide Signals Prior to the Appearance of a First Islet Autoantibody in Children Participating in the TEDDY Study. Diabetes, 2020, 69, 465-476.	0.6	30
143	Temporal Relationship between Human Parechovirus 1 Infection and Otitis Media in Young Children. Journal of Infectious Diseases, 2008, 198, 35-40.	4.0	29
144	Human herpes virus 6 and multiple sclerosis: a Finnish twin study. Multiple Sclerosis Journal, 2008, 14, 54-58.	3.0	29

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145	Early suppression of immune response pathways characterizes children with prediabetes in genome-wide gene expression profiling. Journal of Autoimmunity, 2010, 35, 70-76.	6.5	29
146	Enterovirus RNA in longitudinal blood samples and risk of islet autoimmunity in children with a high genetic risk of type 1 diabetes: the MIDIA study. Diabetologia, 2014, 57, 2193-2200.	6.3	29
147	T cell Responses to Enterovirus Antigens and to Î²-cell Autoantigens in Unaffected Children Positive for IDDM-Associated Autoantibodies. Journal of Autoimmunity, 1999, 12, 269-278.	6.5	28
148	Humoral Î² -cell autoimmunity is rare in patients with the congenital rubella syndrome. Clinical and Experimental Immunology, 2003, 133, 378-383.	2.6	28
149	Molecular epidemiology of enteroviruses in young children at increased risk of type 1 diabetes. PLoS ONE, 2018, 13, e0201959.	2.5	28
150	Serum 25-hydroxyvitamin D concentration in childhood and risk of islet autoimmunity and type 1 diabetes: the TRIGR nested caseâ€"control ancillary study. Diabetologia, 2020, 63, 780-787.	6.3	28
151	Distinct Growth Phases in Early Life Associated With the Risk of Type 1 Diabetes: The TEDDY Study. Diabetes Care, 2020, 43, 556-562.	8.6	28
152	Optimized production and purification of Coxsackievirus B1 vaccine and its preclinical evaluation in a mouse model. Vaccine, 2017, 35, 3718-3725.	3.8	27
153	An Increase in Serum 25-Hydroxyvitamin D Concentrations Preceded a Plateau in Type 1 Diabetes Incidence in Finnish Children. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2353-E2356.	3.6	26
154	Exploring the risk factors for differences in the cumulative incidence of coeliac disease in two neighboring countries: the prospective DIABIMMUNE study. Digestive and Liver Disease, 2016, 48, 1296-1301.	0.9	26
155	Detection of enterovirus in the thyroid tissue of patients with graves' disease. Journal of Medical Virology, 2013, 85, 512-518.	5.0	25
156	Development and maturation of norovirus antibodies in childhood. Microbes and Infection, 2016, 18, 263-269.	1.9	25
157	Detection and localization of viral infection in the pancreas of patients with type 1 diabetes using short fluorescently-labelled oligonucleotide probes. Oncotarget, 2017, 8, 12620-12636.	1.8	25
158	Human rhinoviruses including group C are common in stool samples of young Finnish children. Journal of Clinical Virology, 2013, 56, 334-338.	3.1	24
159	Inflammation and Increased Myxovirus Resistance Protein A Expression in Thyroid Tissue in the Early Stages of Hashimoto's Thyroiditis. Thyroid, 2013, 23, 334-341.	4.5	24
160	Multiple consecutive norovirus infections in the first 2Âyears of life. European Journal of Pediatrics, 2015, 174, 1679-1683.	2.7	24
161	A method for reporting and classifying acute infectious diseases in a prospective study of young children: TEDDY. BMC Pediatrics, 2015, 15, 24.	1.7	24
162	Development of T cell immunity to norovirus and rotavirus in children under five years of age. Scientific Reports, 2019, 9, 3199.	3.3	24

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163	Enterovirus infections and type 1 diabetes. Annals of Medicine, 2002, 34, 138-47.	3.8	24
164	Coxsackievirus B3-Induced Cellular Protrusions: Structural Characteristics and Functional Competence. Journal of Virology, 2011, 85, 6714-6724.	3.4	23
165	Coxsackievirus B1 reveals strain specific differences in plasmacytoid dendritic cell mediated immunogenicity. Journal of Medical Virology, 2014, 86, 1412-1420.	5.0	23
166	Relative sensitivity of immunohistochemistry, multiple reaction monitoring mass spectrometry, in situ hybridization and PCR to detect Coxsackievirus B1 in A549 cells. Journal of Clinical Virology, 2016, 77, 21-28.	3.1	23
167	An Age-Related Exponential Decline in the Risk of Multiple Islet Autoantibody Seroconversion During Childhood. Diabetes Care, 2021, 44, 2260-2268.	8.6	23
168	A longitudinal plasma lipidomics dataset from children who developed islet autoimmunity and type 1 diabetes. Scientific Data, 2018, 5, 180250.	5.3	23
169	Environmental causes: viral causes. Endocrinology and Metabolism Clinics of North America, 2004, 33, 27-44.	3.2	22
170	Circulating Vitamin D Concentrations in Two Neighboring Populations With Markedly Different Incidence of Type 1 Diabetes. Diabetes Care, 2006, 29, 1458-1459.	8.6	22
171	Gestational respiratory infections interacting with offspring HLA and CTLA-4 modifies incident Î²-cell autoantibodies. Journal of Autoimmunity, 2018, 86, 93-103.	6.5	22
172	Decreased antibody reactivity to Epsteinâ€Barr virus capsid antigen in type 1 (insulinâ€dependent) diabetes mellitus. Apmis, 1991, 99, 359-363.	2.0	21
173	T Cell Epitopes in Coxsackievirus B4 Structural Proteins Concentrate in Regions Conserved between Enteroviruses. Virology, 2002, 293, 217-224.	2.4	21
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