# Ype Elgersma

List of Publications by Year
in descending order



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|---|---|---|---|
| 118 papers | 8,657 citations | 34076 52 h-index | 48277 88 g-index |
| 121 all docs | 121 docs citations | 121 times ranked | 11478 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Neurofibromin Regulation of ERK Signaling Modulates GABA Release and Learning. Cell, 2008, 135, 549-560. | 13.5 | 384 |
| 2 | Inhibitory Autophosphorylation of CaMKII Controls PSD Association, Plasticity, and Learning. Neuron, 2002, 36, 493-505. | 3.8 | 273 |
| 3 | Rescue of neurological deficits in a mouse model for Angelman syndrome by reduction of Î±CaMKII inhibitory phosphorylation. Nature Neuroscience, 2007, 10, 280-282. | 7.1 | 260 |
| 4 | Cerebellar LTD and Learning-Dependent Timing of Conditioned Eyelid Responses. Science, 2003, 301, 1736-1739. | 6.0 | 247 |
| 5 | Derangements of Hippocampal Calcium/Calmodulin-Dependent Protein Kinase II in a Mouse Model for Angelman Mental Retardation Syndrome. Journal of Neuroscience, 2003, 23, 2634-2644. | 1.7 | 240 |
| 6 | PAS10 is a tetratricopeptide-repeat protein that is essential for the import of most matrix proteins into peroxisomes of Saccharomyces cerevisiae.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 11782-11786. | 3.3 | 237 |
| 7 | Cognitive deficits in Tsc1<sup>+/â^'</sup>mice in the absence of cerebral lesions and seizures. Annals of Neurology, 2007, 62, 648-655. | 2.8 | 233 |
| 8 | Purkinje Cell-Specific Knockout of the Protein Phosphatase PP2B Impairs Potentiation and Cerebellar Motor Learning. Neuron, 2010, 67, 618-628. | 3.8 | 231 |
| 9 | Rheb Regulates Mitophagy Induced by Mitochondrial Energetic Status. Cell Metabolism, 2013, 17, 719-730. | 7.2 | 222 |
| 10 | The SH3 domain of the Saccharomyces cerevisiae peroxisomal membrane protein Pex13p functions as a docking site for Pex5p, a mobile receptor for the import PTS1-containing proteins.. Journal of Cell Biology, 1996, 135, 97-109. | 2.3 | 220 |
| 11 | Overexpression of Pex15p, a phosphorylated peroxisomal integral membrane protein required for peroxisome assembly in S.cerevisiae, causes proliferation of the endoplasmic reticulum membrane. EMBO Journal, 1997, 16, 7326-7341. | 3.5 | 206 |
| 12 | Î±CaMKII Is Essential for Cerebellar LTD and Motor Learning. Neuron, 2006, 51, 835-843. | 3.8 | 203 |
| 13 | Ube3a reinstatement identifies distinct developmental windows in a murine Angelman syndrome model. Journal of Clinical Investigation, 2015, 125, 2069-2076. | 3.9 | 186 |
| 14 | Effect of Simvastatin on Cognitive Functioning in Children With Neurofibromatosis Type 1. JAMA - Journal of the American Medical Association, 2008, 300, 287. | 3.8 | 175 |
| 15 | Peroxisomal and mitochondrial carnitine acetyltransferases of Saccharomyces cerevisiae are encoded by a single gene.. EMBO Journal, 1995, 14, 3472-3479. | 3.5 | 170 |
| 16 | Modulation of Presynaptic Plasticity and Learning by the H-ras/Extracellular Signal-Regulated Kinase/Synapsin I Signaling Pathway. Journal of Neuroscience, 2005, 25, 9721-9734. | 1.7 | 170 |
| 17 | Rapid changes in hippocampal CA1 pyramidal cell function via preâ€•as well as postsynaptic membrane mineralocorticoid receptors. European Journal of Neuroscience, 2008, 27, 2542-2550. | 1.2 | 163 |
| 18 | Analysis of the Carboxyl-terminal Peroxisomal Targeting Signal 1 in a Homologous Context in Saccharomyces cerevisiae. Journal of Biological Chemistry, 1996, 271, 26375-26382. | 1.6 | 147 |

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|---|---|---|---|
| 19 | DNA binding properties of the integrase proteins of human immunodeficiency viruses types 1 and 2. Nucleic Acids Research, 1991, 19, 3821-3827. | 6.5 | 141 |
| 20 | Intrinsic Plasticity Complements Long-Term Potentiation in Parallel Fiber Input Gain Control in Cerebellar Purkinje Cells. Journal of Neuroscience, 2010, 30, 13630-13643. | 1.7 | 139 |
| 21 | De Novo Mutations in Protein Kinase Genes CAMK2A and CAMK2B Cause Intellectual Disability. American Journal of Human Genetics, 2017, 101, 768-788. | 2.6 | 136 |
| 22 | Mouse Genetic Approaches to Investigating Calcium/Calmodulin-Dependent Protein Kinase II Function in Plasticity and Cognition. Journal of Neuroscience, 2004, 24, 8410-8415. | 1.7 | 133 |
| 23 | GABAergic Neuron-Specific Loss of Ube3a Causes Angelman Syndrome-Like EEG Abnormalities and Enhances Seizure Susceptibility. Neuron, 2016, 90, 56-69. | 3.8 | 127 |
| 24 | Impact of Neurofibromatosis Type 1 on School Performance. Journal of Child Neurology, 2008, 23, 1002-1010. | 0.7 | 122 |
| 25 | Î²CaMKII controls the direction of plasticity at parallel fiberâ€“Purkinje cell synapses. Nature Neuroscience, 2009, 12, 823-825. | 7.1 | 116 |
| 26 | Molecular mechanisms of synaptic plasticity and memory. Current Opinion in Neurobiology, 1999, 9, 209-213. | 2.0 | 113 |
| 27 | Simvastatin for cognitive deficits and behavioural problems in patients with neurofibromatosis type 1 (NF1-SIMCODA): a randomised, placebo-controlled trial. Lancet Neurology, The, 2013, 12, 1076-1083. | 4.9 | 113 |
| 28 | Accelerated Age-Related Cognitive Decline and Neurodegeneration, Caused by Deficient DNA Repair. Journal of Neuroscience, 2011, 31, 12543-12553. | 1.7 | 110 |
| 29 | ÂCaMKII Plays a Nonenzymatic Role in Hippocampal Synaptic Plasticity and Learning by Targeting ÂCaMKII to Synapses. Journal of Neuroscience, 2011, 31, 10141-10148. | 1.7 | 105 |
| 30 | Spred1Is Required for Synaptic Plasticity and Hippocampus-Dependent Learning. Journal of Neuroscience, 2008, 28, 14443-14449. | 1.7 | 90 |
| 31 | Spatial navigation impairment in mice lacking cerebellar LTD: a motor adaptation deficit?. Nature Neuroscience, 2005, 8, 1292-1294. | 7.1 | 86 |
| 32 | Age-related motor neuron degeneration in DNA repair-deficient Ercc1 mice. Acta Neuropathologica, 2010, 120, 461-475. | 3.9 | 86 |
| 33 | A Mobile PTS2 Receptor for Peroxisomal Protein Import in Pichia pastoris. Journal of Cell Biology, 1998, 140, 807-820. | 2.3 | 82 |
| 34 | A randomized controlled trial with everolimus for IQ and autism in tuberous sclerosis complex. Neurology, 2019, 93, e200-e209. | 1.5 | 78 |
| 35 | Proteins involved in peroxisome biogenesis and functioning. BBA - Biomembranes, 1996, 1286, 269-283. | 7.9 | 77 |
| 36 | Sheltering Behavior and Locomotor Activity in 11 Genetically Diverse Common Inbred Mouse Strains Using Home-Cage Monitoring. PLoS ONE, 2014, 9, e108563. | 1.1 | 76 |

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|---|---|---|---|
| 37 | A behavioral test battery for mouse models of Angelman syndrome: a powerful tool for testing drugs and novel Ube3a mutants. Molecular Autism, 2018, 9, 47. | 2.6 | 76 |
| 38 | Sirolimus for epilepsy in children with tuberous sclerosis complex. Neurology, 2016, 87, 1011-1018. | 1.5 | 73 |
| 39 | Arc expression identifies the lateral amygdala fear memory trace. Molecular Psychiatry, 2016, 21, 364-375. | 4.1 | 72 |
| 40 | Oncogenes on my mind: ERK and MTOR signaling in cognitive diseases. Trends in Genetics, 2008, 24, 498-510. | 2.9 | 70 |
| 41 | Health-Related Quality of Life in Children with Neurofibromatosis Type 1: Contribution of Demographic Factors, Disease-Related Factors, and Behavior. Journal of Pediatrics, 2009, 154, 420-425.e1. | 0.9 | 70 |
| 42 | Rheb Is Essential for Murine Development. Molecular and Cellular Biology, 2011, 31, 1672-1678. | 1.1 | 68 |
| 43 | TORC1â€dependent epilepsy caused by acute biallelic Tsc1 deletion in adult mice. Annals of Neurology, 2013, 74, 569-579. | 2.8 | 68 |
| 44 | HCN channels are a novel therapeutic target for cognitive dysfunction in Neurofibromatosis type 1. Molecular Psychiatry, 2015, 20, 1311-1321. | 4.1 | 66 |
| 45 | Loss of nuclear UBE3A causes electrophysiological and behavioral deficits in mice and is associated with Angelman syndrome. Nature Neuroscience, 2019, 22, 1235-1247. | 7.1 | 65 |
| 46 | Variation in a range of mTOR-related genes associates with intracranial volume and intellectual disability. Nature Communications, 2017, 8, 1052. | 5.8 | 63 |
| 47 | Analysis of Cx36 Knockout Does Not Support Tenet That Olivary Gap Junctions Are Required for Complex Spike Synchronization and Normal Motor Performance. Annals of the New York Academy of Sciences, 2002, 978, 391-404. | 1.8 | 62 |
| 48 | Adult Ube3a Gene Reinstatement Restores the Electrophysiological Deficits of Prefrontal Cortex Layer 5 Neurons in a Mouse Model of Angelman Syndrome. Journal of Neuroscience, 2018, 38, 8011-8030. | 1.7 | 61 |
| 49 | Quantitative Differentiation Between Healthy and Disordered Brain Matter in Patients with Neurofibromatosis Type I Using Diffusion Tensor Imaging. American Journal of Neuroradiology, 2008, 29, 816-822. | 1.2 | 57 |
| 50 | Treatment of Neurodevelopmental Disorders in Adulthood. Journal of Neuroscience, 2012, 32, 14074-14079. | 1.7 | 57 |
| 51 | Hippocampal Synaptic Metaplasticity Requires Inhibitory Autophosphorylation of Ca2+/Calmodulin-Dependent Kinase II. Journal of Neuroscience, 2005, 25, 7697-7707. | 1.7 | 55 |
| 52 | Neuregulin-3 in the Mouse Medial Prefrontal Cortex Regulates Impulsive Action. Biological Psychiatry, 2014, 76, 648-655. | 0.7 | 55 |
| 53 | CAMK2-Dependent Signaling in Neurons Is Essential for Survival. Journal of Neuroscience, 2019, 39, 5424-5439. | 1.7 | 55 |
| 54 | Activity and impulsive action are controlled by different genetic and environmental factors. Genes, Brain and Behavior, 2009, 8, 817-828. | 1.1 | 54 |

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| 55 | Ca2+/Calmodulin-dependent Protein Kinase IIÎ± (Î±CaMKII) Controls the Activity of the Dopamine Transporter. Journal of Biological Chemistry, 2012, 287, 29627-29635. | 1.6 | 53 |
| 56 | Marked Reduction of AKT1 Expression and Deregulation of AKT1-Associated Pathways in Peripheral Blood Mononuclear Cells of Schizophrenia Patients. PLoS ONE, 2012, 7, e32618. | 1.1 | 52 |
| 57 | Candidate CSPG4 mutations and induced pluripotent stem cell modeling implicate oligodendrocyte progenitor cell dysfunction in familial schizophrenia. Molecular Psychiatry, 2019, 24, 757-771. | 4.1 | 51 |
| 58 | CaMKIIÂ Regulates Oligodendrocyte Maturation and CNS Myelination. Journal of Neuroscience, 2013, 33, 10453-10458. | 1.7 | 50 |
| 59 | Kinase activity is not required for Î±CaMKII-dependent presynaptic plasticity at CA3-CA1 synapses. Nature Neuroscience, 2007, 10, 1125-1127. | 7.1 | 49 |
| 60 | Cytosolic Aspartate Aminotransferase Encoded by the AAT2 Gene is Targeted to the Peroxisomes in Oleate-Grown Saccharomyces Cerevisiae. FEBS Journal, 1997, 247, 972-980. | 0.2 | 46 |
| 61 | Interaction of SHâ€5Y5Y Cells with Nanogratings During Neuronal Differentiation: Comparison with Primary Neurons. Advanced Healthcare Materials, 2014, 3, 581-587. | 3.9 | 46 |
| 62 | Synaptic Transmission and Plasticity at Inputs to Murine Cerebellar Purkinje Cells Are Largely Dispensable for Standard Nonmotor Tasks. Journal of Neuroscience, 2013, 33, 12599-12618. | 1.7 | 42 |
| 63 | Delayed loss of UBE3A reduces the expression of Angelman syndrome-associated phenotypes. Molecular Autism, 2019, 10, 23. | 2.6 | 42 |
| 64 | Effects of antiepileptic drugs in a new TSC/mTORâ€dependent epilepsy mouse model. Annals of Clinical and Translational Neurology, 2019, 6, 1273-1291. | 1.7 | 41 |
| 65 | PAK2 is an effector of TSC1/2 signaling independent of mTOR and a potential therapeutic target for Tuberous Sclerosis Complex. Scientific Reports, 2015, 5, 14534. | 1.6 | 40 |
| 66 | Calcium threshold shift enables frequency-independent control of plasticity by an instructive signal. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13221-13226. | 3.3 | 40 |
| 67 | Dissociation of locomotor and cerebellar deficits in a murine Angelman syndrome model. Journal of Clinical Investigation, 2015, 125, 4305-4315. | 3.9 | 40 |
| 68 | Temporal and Region-Specific Requirements of Î±CaMKII in Spatial and Contextual Learning. Journal of Neuroscience, 2014, 34, 11180-11187. | 1.7 | 39 |
| 69 | Î±-Isoform of calcium-calmodulin-dependent protein kinase II and postsynaptic density protein 95 differentially regulate synaptic expression of NR2Aâ€“ and NR2Bâ€“containing N-methyl-d-aspartate receptors in hippocampus. Neuroscience, 2008, 151, 43-55. | 1.1 | 38 |
| 70 | Within-strain variation in behavior differs consistently between common inbred strains of mice. Mammalian Genome, 2015, 26, 348-354. | 1.0 | 38 |
| 71 | Genetic control of experienceâ€dependent plasticity in the visual cortex. Genes, Brain and Behavior, 2008, 7, 915-923. | 1.1 | 35 |
| 72 | Conditional Deletion of Î±-CaMKII Impairs Integration of Adult-Generated Granule Cells into Dentate Gyrus Circuits and Hippocampus-Dependent Learning. Journal of Neuroscience, 2014, 34, 11919-11928. | 1.7 | 35 |

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|---|---|---|---|
| 73 | The light spot test: Measuring anxiety in mice in an automated home-cage environment. Behavioural Brain Research, 2015, 294, 123-130. | 1.2 | 35 |
| 74 | Motor Learning in Children with Neurofibromatosis Type I. Cerebellum, 2011, 10, 14-21. | 1.4 | 31 |
| 75 | Motor deficits in neurofibromatosis type 1 mice: the role of the cerebellum. Genes, Brain and Behavior, 2011, 10, 404-409. | 1.1 | 30 |
| 76 | An essential role for UBE2A/HR6A in learning and memory and mGLUR-dependent long-term depression. Human Molecular Genetics, 2016, 25, 1-8. | 1.4 | 30 |
| 77 | The Learning Disabilities Network (LeaDNet): Using neurofibromatosis type 1 (NF1) as a paradigm for translational research. American Journal of Medical Genetics, Part A, 2012, 158A, 2225-2232. | 0.7 | 29 |
| 78 | Ube3a loss increases excitability and blunts orientation tuning in the visual cortex of Angelman syndrome model mice. Journal of Neurophysiology, 2017, 118, 634-646. | 0.9 | 27 |
| 79 | Unlike dietary restriction, rapamycin fails to extend lifespan and reduce transcription stress in progeroid DNA repairâ€deficient mice. Aging Cell, 2021, 20, e13302. | 3.0 | 27 |
| 80 | UBE3A reinstatement as a diseaseâ€modifying therapy for Angelman syndrome. Developmental Medicine and Child Neurology, 2021, 63, 802-807. | 1.1 | 27 |
| 81 | RHEB/mTOR hyperactivity causes cortical malformations and epileptic seizures through increased axonal connectivity. PLoS Biology, 2021, 19, e3001279. | 2.6 | 27 |
| 82 | Functional Gene-Expression Analysis Shows Involvement of Schizophrenia-Relevant Pathways in Patients with 22q11 Deletion Syndrome. PLoS ONE, 2012, 7, e33473. | 1.1 | 27 |
| 83 | Behavioral and cognitive outcomes for clinical trials in children with neurofibromatosis type 1. Neurology, 2016, 86, 154-160. | 1.5 | 26 |
| 84 | Mechanisms underlying cognitive deficits in a mouse model for Costello Syndrome are distinct from other RASopathy mouse models. Scientific Reports, 2017, 7, 1256. | 1.6 | 26 |
| 85 | TAOK1 is associated with neurodevelopmental disorder and essential for neuronal maturation and cortical development. Human Mutation, 2021, 42, 445-459. | 1.1 | 26 |
| 86 | Molecular and cellular mechanisms of cognitive function: implications for psychiatric disorders. Biological Psychiatry, 2000, 47, 200-209. | 0.7 | 25 |
| 87 | The intellectual disability-associated CAMK2G p.Arg292Pro mutation acts as a pathogenic gain-of-function. Human Mutation, 2018, 39, 2008-2024. | 1.1 | 25 |
| 88 | In vivo synaptic transmission and morphology in mouse models of Tuberous sclerosis, Fragile X syndrome, Neurofibromatosis type 1, and Costello syndrome. Frontiers in Cellular Neuroscience, 2015, 9, 234. | 1.8 | 24 |
| 89 | The molecular, temporal and region-specific requirements of the beta isoform of Calcium/Calmodulin-dependent protein kinase type 2 (CAMK2B) in mouse locomotion. Scientific Reports, 2016, 6, 26989. | 1.6 | 24 |
| 90 | Intact neuronal function in Rheb1 mutant mice: implications for TORC1-based treatments. Human Molecular Genetics, 2015, 24, 3390-3398. | 1.4 | 22 |

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| 91 | Assessing the requirements of prenatal UBE3A expression for rescue of behavioral phenotypes in a mouse model for Angelman syndrome. Molecular Autism, 2020, 11, 70. | 2.6 | 21 |
| 92 | Examination of the genetic factors underlying the cognitive variability associated with neurofibromatosis type 1. Genetics in Medicine, 2020, 22, 889-897. | 1.1 | 21 |
| 93 | Independent genetic loci for sensorimotor gating and attentional performance in BXD recombinant inbred strains. Genes, Brain and Behavior, 2012, 11, 147-156. | 1.1 | 19 |
| 94 | A brain proteomic investigation of rapamycin effects in the Tsc1 +/â^' mouse model. Molecular Autism, 2017, 8, 41. | 2.6 | 19 |
| 95 | Impaired Neurite Contact Guidance in Ubiquitin Ligase E3a (Ube3a)â€Deficient Hippocampal Neurons on Nanostructured Substrates. Advanced Healthcare Materials, 2016, 5, 850-862. | 3.9 | 17 |
| 96 | Appetitive operant conditioning in mice: heritability and dissociability of training stages. Frontiers in Behavioral Neuroscience, 2010, 4, 171. | 1.0 | 16 |
| 97 | Interval Timing Is Intact in Arrhythmic Cry1/Cry2-Deficient Mice. Journal of Biological Rhythms, 2011, 26, 305-313. | 1.4 | 16 |
| 98 | Interdependence of clinical factors predicting cognition in children with tuberous sclerosis complex. Journal of Neurology, 2017, 264, 161-167. | 1.8 | 15 |
| 99 | Loss of nuclear UBE3A activity is the predominant cause of Angelman syndrome in individuals carrying UBE3A missense mutations. Human Molecular Genetics, 2021, 30, 430-442. | 1.4 | 15 |
| 100 | Mammalian Target of Rapamycin Complex I (mTORC1) Activity in Ras Homologue Enriched in Brain (Rheb)-Deficient Mouse Embryonic Fibroblasts. PLoS ONE, 2013, 8, e81649. | 1.1 | 15 |
| 101 | Distinct roles of Î±- and Î²CaMKII in controlling long-term potentiation of GABAA-receptor mediated transmission in murine Purkinje cells. Frontiers in Cellular Neuroscience, 2014, 8, 16. | 1.8 | 13 |
| 102 | Treatment of Cognitive Deficits in Genetic Disorders. JAMA Neurology, 2015, 72, 1052. | 4.5 | 13 |
| 103 | Transport of Proteins and Metabolites across the Impermeable Membrane of Peroxisomes. Cold Spring Harbor Symposia on Quantitative Biology, 1995, 60, 649-655. | 2.0 | 13 |
| 104 | A novel <scp>QTL</scp> underlying earlyâ€onset, lowâ€frequency hearing loss in <scp>BXD</scp> recombinant inbred strains. Genes, Brain and Behavior, 2012, 11, 911-920. | 1.1 | 12 |
| 105 | Towards mouse models of perseveration: A heritable component in extinction of operant behavior in fourteen standard and recombinant inbred mouse lines. Neurobiology of Learning and Memory, 2011, 96, 280-287. | 1.0 | 10 |
| 106 | Novel Candidate Genes Associated with Hippocampal Oscillations. PLoS ONE, 2011, 6, e26586. | 1.1 | 10 |
| 107 | A molecular tightrope. Nature, 2015, 526, 50-51. | 13.7 | 9 |
| 108 | Genetic engineering cures mice of neurological deficits: prospects for treating Angelman syndrome. Pharmacogenomics, 2007, 8, 539-541. | 0.6 | 7 |

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| 109 | Î±-Calcium Calmodulin Kinase II Modulates the Temporal Structure of Hippocampal Bursting Patterns. PLoS ONE, 2012, 7, e31649. | 1.1 | 7 |
| 110 | Treatment of intractable epilepsy in tuberous sclerosis complex with everolimus is not yet evidenceâ€based. Annals of Neurology, 2014, 75, 163-164. | 2.8 | 5 |
| 111 | Mono-ubiquitination of Rabphilin 3A by UBE3A serves a non-degradative function. Scientific Reports, 2021, 11, 3007. | 1.6 | 5 |
| 112 | Neurofibromin regulates HCN activity in Parvalbumin-positive interneurons. Molecular Psychiatry, 2015, 20, 1263-1263. | 4.1 | 4 |
| 113 | A Novel Automated Approach for Improving Standardization of the Marble Burying Test Enables Quantification of Burying Bouts and Activity Characteristics. ENeuro, 2022, 9, ENEURO.0446-21.2022. | 0.9 | 4 |
| 114 | Considerations for Clinical Therapeutic Development of Statins for Neurodevelopmental Disorders. ENeuro, 2020, 7, ENEURO.0392-19.2020. | 0.9 | 3 |
| 115 | A cross-species spatiotemporal proteomic analysis identifies UBE3A-dependent signaling pathways and targets. Molecular Psychiatry, 2022, 27, 2590-2601. | 4.1 | 3 |
| 116 | Rheb: Enrichment beyond the brain. Cell Cycle, 2011, 10, 2412-2413. | 1.3 | 0 |
| 117 | Cover Image, Volume 39, Issue 12. Human Mutation, 2018, 39, i-i. | 1.1 | 0 |
| 118 | From first report to clinical trials: a bibliometric overview and visualization of the development of Angelman syndrome research. Human Genetics, 0, , . | 1.8 | 0 |