Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 17, 2024

Translating Time across developing mammalian brains

RRID:SCR_007424
Type: Tool

Proper Citation

Translating Time across developing mammalian brains (RRID:SCR_007424)

Resource Information

URL: http://www.translatingtime.net

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Description: Web tool for translating neurodevelopemental time across species and predicting neurodevelopemental events. This tool was created because clinicians and researchers rely on neurodevelopment data obtained from a variety of non-human species, it is essential to be able to relate studies across the different experimental animals, and ultimately to humans, in an easily accessible format. This web site is based on a mathematical model originally described by Finlay and Darlington (Science, 268:1578-84) that predicts post conception (PC) dates using log transformations. It integrates hundreds of empirically-derived neural events to translate neurodevelopmental time across hamsters, mice, rats, rabbits, spiny mice, guinea pigs, ferrets, cats, rhesus monkeys and humans.

Synonyms: Translating Time

Resource Type: data or information resource, software resource, database

Keywords: events, ferrets, finlay, age, age correlation, age interpretation, age translation, algorithms, cats, chronometric, chronometry, darlington, development, gestation, guinea pigs, hamsters, humans, mammalian, mice, model, neurodevelopmental, neurogenesis, prediction, rabbits, rats, rhesus monkeys, spiny mice, time, translate, translation, FASEB list

Related Condition: Aging

Resource Name: Translating Time across developing mammalian brains

Resource ID: SCR_007424

Alternate IDs: nif-0000-00533

Ratings and Alerts

No rating or validation information has been found for Translating Time across developing mammalian brains.

No alerts have been found for Translating Time across developing mammalian brains.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 39 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Park J, et al. (2022) Enzymatic bioconversion of ginseng powder increases the content of minor ginsenosides and potentiates immunostimulatory activity. Journal of ginseng research, 46(2), 304.

Schnöller LE, et al. (2022) Integrative analysis of therapy resistance and transcriptomic profiling data in glioblastoma cells identifies sensitization vulnerabilities for combined modality radiochemotherapy. Radiation oncology (London, England), 17(1), 79.

Waku I, et al. (2022) Effects of Immediate Aversive Stimulation on Haloperidol-Induced Catalepsy in Rats. Frontiers in behavioral neuroscience, 16, 867180.

Mehus AA, et al. (2019) Next-Generation Sequencing Identifies Polyunsaturated Fatty Acid Responsive Genes in the Juvenile Rat Cerebellum. Nutrients, 11(2).

Charvet CJ, et al. (2018) Comparing Adult Hippocampal Neurogenesis Across Species: Translating Time to Predict the Tempo in Humans. Frontiers in neuroscience, 12, 706.

Lee JR, et al. (2018) Does pediatric anesthesia cause brain damage? - Addressing parental and provider concerns in light of compelling animal studies and seemingly ambivalent human data. Korean journal of anesthesiology, 71(4), 255.

Domowicz M, et al. (2018) Glial cell responses in a murine multifactorial perinatal brain injury model. Brain research, 1681, 52.

Lin EP, et al. (2017) Do anesthetics harm the developing human brain? An integrative

analysis of animal and human studies. Neurotoxicology and teratology, 60, 117.

de Camp NV, et al. (2017) Models for Preterm Cortical Development Using Non Invasive Clinical EEG. Translational neuroscience, 8, 211.

Aldiri I, et al. (2017) The Dynamic Epigenetic Landscape of the Retina During Development, Reprogramming, and Tumorigenesis. Neuron, 94(3), 550.

Mishra A, et al. (2017) Binaural blood flow control by astrocytes: listening to synapses and the vasculature. The Journal of physiology, 595(6), 1885.

Bronchain OJ, et al. (2017) Implication of thyroid hormone signaling in neural crest cells migration: Evidence from thyroid hormone receptor beta knockdown and NH3 antagonist studies. Molecular and cellular endocrinology, 439, 233.

Heyer DB, et al. (2017) Environmental toxicology: Sensitive periods of development and neurodevelopmental disorders. Neurotoxicology, 58, 23.

Meehan C, et al. (2017) Effects of immune activation during early or late gestation on schizophrenia-related behaviour in adult rat offspring. Brain, behavior, and immunity, 63, 8.

Ponsonby AL, et al. (2016) Epigenetic regulation of neurodevelopmental genes in response to in utero exposure to phthalate plastic chemicals: How can we delineate causal effects? Neurotoxicology, 55, 92.

Sinner B, et al. (2015) Long-term NMDA receptor inhibition affects NMDA receptor expression and alters glutamatergic activity in developing rat hippocampal neurons. Toxicology, 333, 147.

Khazipov R, et al. (2015) Atlas of the Postnatal Rat Brain in Stereotaxic Coordinates. Frontiers in neuroanatomy, 9, 161.

Parolisi R, et al. (2015) Forebrain neuroanatomy of the neonatal and juvenile dolphin (T. truncatus and S. coeruloalba). Frontiers in neuroanatomy, 9, 140.

Domnick NK, et al. (2015) Neonatal hypoxia-ischemia impairs juvenile recognition memory by disrupting the maturation of prefrontal-hippocampal networks. Experimental neurology, 273, 202.

Holmes GL, et al. (2015) Alterations in sociability and functional brain connectivity caused by early-life seizures are prevented by bumetanide. Neurobiology of disease, 77, 204.