Stanford

Tetsuya Akiyama

Postdoctoral Scholar, Genetics

Bio

HONORS AND AWARDS

- Training Program in Aging Research (TPAR; T32), Stanford University (2021)
- Fellowship, Takeda Science Foundation (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Certified Fellow, Japanese Society of Neurology (2019 - present)
- Board Certified Fellow, Japanese Society of Internal Medicine (2019 - present)

PROFESSIONAL EDUCATION

- Doctor of Medicine, Tohoku University (2010)
- Doctor of Philosophy, Tohoku University (2017)
- M.D., Tohoku University (2010)
- Ph.D, Tohoku University Graduate School of Medicine (2017)

STANFORD ADVISORS

- Aaron Gitler, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Targeting RTN4/NoGo-Receptor reduces levels of ALS protein ataxin-2.** *Cell reports*
  Rodriguez, C. M., Bechek, S. C., Jones, G. L., Nakayama, L., Akiyama, T., Kim, G., Solow-Cordero, D. E., Strittmatter, S. M., Gitler, A. D.
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- **Genome-wide CRISPR screen reveals v-ATPase as a drug target to lower levels of ALS protein ataxin-2.** *Cell reports*
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- **Cracking the cryptic code in amyotrophic lateral sclerosis and frontotemporal dementia: Towards therapeutic targets and biomarkers.** *Clinical and translational medicine*
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- **TDP-43 represses cryptic exon inclusion in the FTD-ALS gene UNC13A.** *Nature*
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- **Identification of hub molecules of FUS-ALS by Bayesian gene regulatory network analysis of iPSC model: iBRN** *NEUROBIOLOGY OF DISEASE*
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- **Reduced PHOX2B stability causes axonal growth impairment in motor neurons with TARDBP mutations** *STEM CELL REPORTS*
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- **An Amyotrophic Lateral Sclerosis-Associated Mutant of C21ORF2 Is Stabilized by NEK1-Mediated Hyperphosphorylation and the Inability to Bind FBXO3.** *iScience*
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- **Generation of an ALS human iPSC line KEIOi001-A from peripheral blood of a Charcot disease-affected patient carrying TARDBP p.N345K heterozygous SNP mutation.** *Stem cell research*
  Leventoux, N., Morimoto, S., Hara, K., Nakamura, S., Ozawa, F., Mitsuzawa, S., Akiyama, T., Nishiyama, A., Suzuki, N., Warita, H., Aoki, M., Okano, H.
  2020; 47: 101896

- **AMPK Complex Activation Promotes Sarcolemmal Repair in Dysferlinopathy.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Ono, H., Suzuki, N., Kanno, S. I., Kawahara, G., Izumi, R., Takahashi, T., Kitajima, Y., Osana, S., Nakamura, N., Akiyama, T., Ikeda, K., Shijo, T., Mitsuzawa, et al
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- **Omics Approach to Axonal Dysfunction of Motor Neurons in Amyotrophic Lateral Sclerosis (ALS).** *Frontiers in neuroscience*
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- **Extracellular #-synuclein enters dopaminergic cells by modulating flotillin-1-assisted dopamine transporter endocytosis.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
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- **Aberrant axon branching via Fos-B dysregulation in FUS-ALS motor neurons.** *EBioMedicine*
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- **Modeling sporadic ALS in iPSC-derived motor neurons identifies a potential therapeutic agent.** *Nature medicine*
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- **Antagonizing bone morphogenetic protein 4 attenuates disease progression in a rat model of amyotrophic lateral sclerosis.** *Experimental neurology*
  Shijo, T., Warita, H., Suzuki, N., Ikeda, K., Mitsuzawa, S., Akiyama, T., Ono, H., Nishiyama, A., Izumi, R., Kitajima, Y., Aoki, M.
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  Mitsuzawa, S., Akiyama, T., Nishiyama, A., Suzuki, N., Kato, M., Warita, H., Izumi, R., Osana, S., Koyama, S., Kato, T., Suzuki, Y., Aoki, M.
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- **Aberrant astrocytic expression of chondroitin sulfate proteoglycan receptors in a rat model of amyotrophic lateral sclerosis.** *Journal of neuroscience research*
  Shijo, T., Warita, H., Suzuki, N., Kitajima, Y., Ikeda, K., Akiyama, T., Ono, H., Mitsuzawa, S., Nishiyama, A., Izumi, R., Aoki, M.
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- **Prominent sensory involvement in a case of familial amyotrophic lateral sclerosis carrying the L8V SOD1 mutation** *CLINICAL NEUROLOGY AND NEUROSURGERY*
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- **Neuronal activity in the primate dorsomedial prefrontal cortex contributes to strategic selection of response tactics.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Continuous administration of poloxamer 188 reduces overload-induced muscular atrophy in dysferlin-deficient SJL mice** *NEUROSCIENCE RESEARCH*
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