

# Stanford

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## Asuka Eguchi

Postdoctoral Research Fellow, Microbiology and Immunology

### Bio

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#### HONORS AND AWARDS

- Postdoctoral Fellowship, American Heart Association (2018-2020)

#### PROFESSIONAL EDUCATION

- Bachelor of Science, University of Alabama Huntsville (2009)
- Doctor of Philosophy, University of Wisconsin Madison (2016)

#### STANFORD ADVISORS

- Helen Blau, Postdoctoral Research Mentor

### Publications

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#### PUBLICATIONS

- **Reprogramming cell fate with artificial transcription factors.** *FEBS letters*  
Heiderscheid, E. A., Eguchi, A., Spurgat, M. C., Ansari, A. Z.  
2018; 592 (6): 888–900
- **Synthetic transcription elongation factors license transcription across repressive chromatin.** *Science (New York, N.Y.)*  
Erwin, G. S., Grieshop, M. P., Ali, A., Qi, J., Lawlor, M., Kumar, D., Ahmad, I., McNally, A., Teider, N., Worringer, K., Sivasankaran, R., Syed, D. N., Eguchi, et al  
2017; 358 (6370): 1617–22
- **Genome-wide Mapping of Drug-DNA Interactions in Cells with COSMIC (Crosslinking of Small Molecules to Isolate Chromatin).** *Journal of visualized experiments : JoVE*  
Erwin, G. S., Grieshop, M. P., Bhimsaria, D., Eguchi, A., Rodríguez-Martínez, J. A., Ansari, A. Z.  
2016: e53510
- **Reprogramming cell fate with a genome-scale library of artificial transcription factors.** *Proceedings of the National Academy of Sciences of the United States of America*  
Eguchi, A., Wleklinski, M. J., Spurgat, M. C., Heiderscheid, E. A., Kropornicka, A. S., Vu, C. K., Bhimsaria, D., Swanson, S. A., Stewart, R., Ramanathan, P., Kamp, T. J., Slukvin, I., Thomson, et al  
2016; 113 (51): E8257–E8266
- **Mapping polyamide-DNA interactions in human cells reveals a new design strategy for effective targeting of genomic sites.** *Angewandte Chemie (International ed. in English)*  
Erwin, G. S., Bhimsaria, D., Eguchi, A., Ansari, A. Z.  
2014; 53 (38): 10124–28
- **Controlling gene networks and cell fate with precision-targeted DNA-binding proteins and small-molecule-based genome readers.** *The Biochemical journal*  
Eguchi, A., Lee, G. O., Wan, F., Erwin, G. S., Ansari, A. Z.  
2014; 462 (3): 397–413
- **Mitigation of peroxynitrite-mediated nitric oxide (NO) toxicity as a mechanism of induced adaptive NO resistance in the CNS** *JOURNAL OF NEUROCHEMISTRY*  
Bishop, A., Gooch, R., Eguchi, A., Jeffrey, S., Smallwood, L., Anderson, J., Estevez, A. G.

2009; 109 (1): 74-84

- **Differential sensitivity of oligodendrocytes and motor neurons to reactive nitrogen species: implications for multiple sclerosis** *JOURNAL OF NEUROCHEMISTRY*

Bishop, A., Hobbs, K. G., Eguchi, A., Jeffrey, S., Smallwood, L., Pennie, C., Anderson, J., Estevez, A. G.

2009; 109 (1): 93-104