

Stanford



Joshua Crapser

Postdoctoral Scholar, Neurology and Neurological Sciences

Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Irvine (2021)
- PhD, University of California, Irvine , Biological Sciences (Neurobiology and Behavior) (2021)
- BS, University of Connecticut , Biological Sciences (2013)

STANFORD ADVISORS

- Katrin Andreasson, Postdoctoral Faculty Sponsor

LINKS

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- Google Scholar: <https://scholar.google.com/citations?user=HHtkM5gAAAAJ&hl=en&oi=ao>

Publications

PUBLICATIONS

- **Microglia as hackers of the matrix: sculpting synapses and the extracellular space.** *Cellular & molecular immunology*
Crapser, J. D., Arreola, M. A., Tsourmas, K. I., Green, K. N.
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- **Subventricular zone/white matter microglia reconstitute the empty adult microglial niche in a dynamic wave.** *eLife*
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- **Microglial dyshomeostasis drives perineuronal net and synaptic loss in a CSF1R^{+/−} mouse model of ALSP, which can be rescued via CSF1R inhibitors.** *Science advances*
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- **To Kill a Microglia: A Case for CSF1R Inhibitors.** *Trends in immunology*
Green, K. N., Crapser, J. D., Hohsfield, L. A.
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- **Microglia facilitate loss of perineuronal nets in the Alzheimer's disease brain.** *EBioMedicine*
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- **Microglial depletion prevents extracellular matrix changes and striatal volume reduction in a model of Huntington's disease.** *Brain : a journal of neurology*
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- **Evaluation of the Neuroprotective Effect of Sirt3 in Experimental Stroke.** *Translational stroke research*
Verma, R., Ritzel, R. M., Crapser, J., Friedler, B. D., McCullough, L. D.
2019; 10 (1): 57-66
- **CD200-CD200R1 inhibitory signaling prevents spontaneous bacterial infection and promotes resolution of neuroinflammation and recovery after stroke.** *Journal of neuroinflammation*
Ritzel, R. M., Al Mamun, A. n., Crapser, J. n., Verma, R. n., Patel, A. R., Knight, B. E., Harris, N. n., Mancini, N. n., Roy-O'Reilly, M. n., Ganesh, B. P., Liu, F. n., McCullough, L. D.
2019; 16 (1): 40
- **Longitudinal Biochemical Assay Analysis of Mutant Huntingtin Exon 1 Protein in R6/2 Mice.** *Journal of Huntington's disease*
Morozko, E. L., Ochaba, J., Hernandez, S. J., Lau, A., Sanchez, I., Orellana, I., Kopan, L., Crapser, J., Duong, J. H., Overman, J., Yeung, S., Steffan, J. S., Reidling, et al
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- **A limited capacity for microglial repopulation in the adult brain.** *Glia*
Najafi, A. R., Crapser, J., Jiang, S., Ng, W., Mortazavi, A., West, B. L., Green, K. N.
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2018; 136 (1): 89-110
- **Multiparity improves outcomes after cerebral ischemia in female mice despite features of increased metabovascular risk.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Ischemic stroke induces gut permeability and enhances bacterial translocation leading to sepsis in aged mice.** *Aging*
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- **Reversal of the Detrimental Effects of Post-Stroke Social Isolation by Pair-Housing is Mediated by Activation of BDNF-MAPK/ERK in Aged Mice.** *Scientific reports*
Verma, R., Harris, N. M., Friedler, B. D., Crapser, J., Patel, A. R., Venna, V., McCullough, L. D.
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- **Age-Associated Resident Memory CD8 T Cells in the Central Nervous System Are Primed To Potentiate Inflammation after Ischemic Brain Injury.** *Journal of immunology (Baltimore, Md. : 1950)*
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- **Age- and location-related changes in microglial function.** *Neurobiology of aging*
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● **One is the deadliest number: the detrimental effects of social isolation on cerebrovascular diseases and cognition.** *Acta neuropathologica*

Friedler, B., Crapser, J., McCullough, L.

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● **Inhibition of mitochondrial p53 abolishes the detrimental effects of social isolation on ischemic brain injury.** *Stroke*

Venna, V. R., Verma, R., O'Keefe, L. M., Xu, Y., Crapser, J., Friedler, B., McCullough, L. D.

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