

## Peter Malcolm Klein

Postdoctoral Research Fellow, Neurosurgery

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, Bates College (2008)
- Doctor of Philosophy, University of Virginia (2018)

### Publications

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#### PUBLICATIONS

- **Detrimental impacts of mixed-ion radiation on nervous system function.** *Neurobiology of disease*  
Klein, P. M., Parihar, V. K., Szabo, G. G., Zöldi, M., Angulo, M. C., Allen, B. D., Amin, A. N., Nguyen, Q. A., Katona, I., Baulch, J. E., Limoli, C. L., Soltesz, I.  
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- **Neurological Impairments in Mice Subjected to Irradiation and Chemotherapy.** *Radiation research*  
Dey, D., Parihar, V. K., Szabo, G. G., Klein, P. M., Tran, J., Moayyad, J., Ahmed, F., Nguyen, Q., Murry, A., Merriott, D., Nguyen, B., Goldman, J., Angulo, et al  
2020
- **New Concerns for Neurocognitive Function during Deep Space Exposures to Chronic, Low Dose-Rate, Neutron Radiation.** *eNeuro*  
Acharya, M. M., Baulch, J. E., Klein, P. M., Baddour, A. A., Apodaca, L. A., Kramár, E. A., Alikhani, L., Garcia, C., Angulo, M. C., Batra, R. S., Fallgren, C. M., Borak, T. B., Stark, et al  
2019; 6 (4)
- **Tenuous Inhibitory GABAergic Signaling in the Reticular Thalamus.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Klein, P. M., Lu, A. C., Harper, M. E., McKown, H. M., Morgan, J. D., Beenhakker, M. P.  
2018; 38 (5): 1232–48
- **Role of voltage-gated calcium channels in the regulation of aldosterone production from zona glomerulosa cells of the adrenal cortex** *JOURNAL OF PHYSIOLOGY-LONDON*  
Barrett, P. Q., Guagliardo, N. A., Klein, P. M., Hu, C., Breault, D. T., Beenhakker, M. P.  
2016; 594 (20): 5851–60
- **Neonatal seizures alter NMDA glutamate receptor GluN2A and 3A subunit expression and function in hippocampal CA1 neurons** *FRONTIERS IN CELLULAR NEUROSCIENCE*  
Zhou, C., Sun, H., Klein, P. M., Jensen, F. E.  
2015; 9: 362
- **Lestaurtinib (CEP-701) attenuates "second hit" kainic acid-induced seizures following early life hypoxic seizures** *EPILEPSY RESEARCH*  
Obeid, M., Rosenberg, E. C., Klein, P. M., Jensen, F. E.  
2014; 108 (4): 806–10
- **AMPA Receptor antagonist NBQX attenuates later-life epileptic seizures and autistic-like social deficits following neonatal seizures** *EPILEPSIA*  
Lippman-Bell, J. J., Rakhade, S. N., Klein, P. M., Obeid, M., Jackson, M. C., Joseph, A., Jensen, F. E.  
2013; 54 (11): 1922–32
- **Gene Expression Profiling of a Hypoxic Seizure Model of Epilepsy Suggests a Role for mTOR and Wnt Signaling in Epileptogenesis** *PLOS ONE*  
Theilhaber, J., Rakhade, S. N., Sudhalter, J., Kothari, N., Klein, P., Pollard, J., Jensen, F. E.  
2013; 8 (9): e74428

- **Mammalian target of rapamycin complex 1 activation negatively regulates Polo-like kinase 2-mediated homeostatic compensation following neonatal seizures** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Sun, H., Kosaras, B., Klein, P. M., Jensen, F. E.  
2013; 110 (13): 5199–5204
- **Glutamate Receptor 1 Phosphorylation at Serine 831 and 845 Modulates Seizure Susceptibility and Hippocampal Hyperexcitability after Early Life Seizures** *JOURNAL OF NEUROSCIENCE*  
Rakhade, S. N., Fitzgerald, E. F., Klein, P. M., Zhou, C., Sun, H., Hanganir, R. L., Jensen, F. E.  
2012; 32 (49): 17800+
- **The Interaction between Early Life Epilepsy and Autistic-Like Behavioral Consequences: A Role for the Mammalian Target of Rapamycin (mTOR) Pathway** *PLOS ONE*  
Talos, D. M., Sun, H., Zhou, X., Fitzgerald, E. C., Jackson, M. C., Klein, P. M., Lan, V. J., Joseph, A., Jensen, F. E.  
2012; 7 (5): e35885
- **Regulable neural progenitor-specific Tsc1 loss yields giant cells with organellar dysfunction in a model of tuberous sclerosis complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Goto, J., Talos, D. M., Klein, P., Qin, W., Chekaluk, Y. I., Anderl, S., Malinowska, I. A., Di Nardo, A., Bronson, R. T., Chan, J. A., Vinters, H. V., Kernie, S. G., Jensen, et al  
2011; 108 (45): E1070–E1079
- **Development of later life spontaneous seizures in a rodent model of hypoxia-induced neonatal seizures** *EPILEPSIA*  
Rakhade, S. N., Klein, P. M., Huynh, T., Hilario-Gomez, C., Kosaras, B., Rotenberg, A., Jensen, F. E.  
2011; 52 (4): 753–65
- **Chronic hyperoxia alters the early and late phases of the hypoxic ventilatory response in neonatal rats** *JOURNAL OF APPLIED PHYSIOLOGY*  
Bavis, R. W., Young, K. M., Barry, K. J., Boller, M. R., Kim, E., Klein, P. M., Ovrutsky, A. R., Rampersad, D. A.  
2010; 109 (3): 796–803
- **Gyrodactylus pisculentus sp n. (Monogeneoidea: Gyrodactylidae) associated with mortality of the northern pipefish, Syngnathus fuscus (Syngnathiformes: Syngnathidae) at the Woods Hole Science Aquarium** *FOLIA PARASITOLOGICA*  
Williams, S. R., Kritsky, D. C., Dunnigan, B., Lash, R., Klein, P.  
2008; 55 (4): 265-269