



## Nathan Ng

- Affiliate, Department Funds
- Resident in Radiology

### Bio

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#### PROFESSIONAL EDUCATION

- Internship, Scripps Mercy Hospital (2024)
- MD, Stanford University School of Medicine (2023)

### Publications

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#### PUBLICATIONS

- **DSC perfusion MRI-derived fractional tumor burden and relative CBV differentiate tumor progression and radiation necrosis in brain metastases treated with stereotactic radiosurgery.** *American Journal of Neuroradiology*  
‡Kuo, F., ‡Ng, N. N., Nagpal, S., Pollom, E. L., Soltys, S., Hayden-Gephart, M., Li, G., Born, D. E., Iv, M.  
2022; 43 (5): 689-695
- **Brain iron assessment after ferumoxytol-enhanced MRI in children and young adults with arteriovenous malformations: a case-control study.** *Radiology*  
Iv, M., Ng, N. N., Nair, S., Zhang, Y., Lavezo, J., Cheshier, S. H., Holdsworth, S. J., Moseley, M. E., Rosenberg, J., Grant, G. A., Yeom, K. W.  
2020; 297 (2): 438-446
- **Locoregional delivery of stem cell-based therapies.** *Science Translational Medicine*  
Ng, N. N., Thakor, A. S.  
2020; 12 (547): 1-17
- **Arterial spin labeling perfusion MRI differentiates between radiation necrosis and tumor in brain metastases treated with stereotactic radiosurgery** *Neuro-Oncology Advances*  
Nguyen, H. H., Ng, N. N., Awasthi, S., Vogel, H., Iv, M.  
2025; 7 (1): 1-10
- **A deep learning-based system for survival benefit prediction of tyrosine kinase inhibitors and immune checkpoint inhibitors in stage IV non-small cell lung cancer patients: A multicenter, prognostic study** *eClinicalMedicine*  
Deng, K., Wang, L., Liu, Y., Li, X., Hou, Q., Cao, M., Ng, N. N., Wang, H., Chen, H., Yeom, K. W., Zhao, M., Wu, N., Gao, et al  
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- **Effects of age on white matter microstructure in children with neurofibromatosis type 1.** *Journal of Child Neurology*  
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2021; 36 (10): 894-900
- **Emerging role of stem cell-derived extravesicular microRNAs in age-associated human diseases and in different therapies of longevity.** *Ageing Research Reviews*  
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2020; 57: 1-14

- **Development and validation of a machine learning model to explore tyrosine kinase inhibitor response in patients with stage IV EGFR variant-positive non-small cell lung cancer.** *JAMA Network Open*  
Song, J., Wang, L., Ng, N. N., Zhao, M., Shi, J., Wu, N., Li, W., Liu, Z., Yeom, K. W., Tian, J.  
2020; 3 (12): 1-13
- **Cerebral volume and diffusion MRI changes in children with sensorineural hearing loss.** *NeuroImage: Clinical*  
Moon, P. K., Qian, J. Z., McKenna, E., Xi, K., Rowe, N. C., Ng, N. N., Zheng, J., Tam, L. T., MacEachern, S. J., Ahmad, I., Cheng, A. G., Forkert, N. D., Yeom, et al  
2020; 27: 1-9
- **Association of pediatric acute-onset neuropsychiatric syndrome with microstructural differences in brain regions detected via diffusion-weighted magnetic resonance imaging.** *JAMA Network Open*  
Zheng, J., Frankovich, J., McKenna, E. S., Rowe, N. C., MacEachern, S. J., Ng, N. N., Tam, L. T., Moon, P. K., Gao, J., Thienemann, M., Forkert, N. D., Yeom, K. W.  
2020; 3 (5): 1-15
- **Comparisons of dual isogenic human iPSC pairs identify functional alterations directly caused by an epilepsy associated SCN1A mutation.** *Neurobiology of Disease*  
Xie, Y., Ng, N. N., Safrina, O. S., Ramos, C. M., Ess, K. C., Schwartz, P. H., Smith, M. A., O'Dowd, D. K.  
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2019; 10 (37): 3435-3450
- **Astrocyte-enriched feeder layers from cryopreserved cells support differentiation of spontaneously active networks of human iPSC-derived neurons.** *Journal of Neuroscience Methods*  
‡Schutte, R. J., ‡Xie, Y., ‡Ng, N. N., Figueroa, P., Pham, A. T., O'Dowd, D. K.  
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- **Reproducible and efficient generation of functionally active neurons from human iPSCs for preclinical disease modeling.** *Stem Cell Research*  
‡Xie, Y., ‡Schutte, R. J., ‡Ng, N. N., Ess, K. C., Schwartz, P. H., O'Dowd, D. K.  
2018; 26: 84-94
- **Research Associates Program: Expanding clinical research productivity with undergraduate students.** *SAGE Open Medicine*  
Hoonpongsimanont, W., Sahota, P. K., Ng, N. N., Farooqui, M. J., Chakravarthy, B., Patel, B., Lotfipour, S.  
2017; 5: 1-7