

Hsiang-Hua Hung

Clinical Instructor, Radiology - Rad/Nuclear Medicine

CLINICAL OFFICE (PRIMARY)

- **Nuclear Medicine**

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Bio

CLINICAL FOCUS

- Nuclear Medicine

ACADEMIC APPOINTMENTS

- Clinical Instructor, Radiology - Rad/Nuclear Medicine

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (2024) CA
- Board Certification: Nuclear Medicine, American Board of Nuclear Medicine (2022)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2023)
- Residency: Stanford University Radiology Residency (2022) CA
- Internship: University of Illinois at Chicago Internal Medicine Residency (2018) IL
- Medical Education: Northwestern University Feinberg School of Medicine (2017) IL

Publications

PUBLICATIONS

- **Tunable Applicator for Microneedle-Based Medical Devices** *ADVANCED MATERIALS TECHNOLOGIES*
Ilyin, D., Hwang, J., Coates, I. A., Dobson, J., Hung, A. H., Kamat, N. U., Tumbleston, J. R., Dulay, M. T., Jacobson, G. B., DeSimone, J. M.
2026
- **A microneedle device for rapid dermal interstitial fluid sampling.** *Science advances*
Hung, A. H., Kamat, N. U., Bermudez, A., Boczek, S. M., Garcia-Marqués, F. J., Tan, Y. L., Hwang, J. L., Sinawang, P. D., Ilyin, D., Jacobson, G. B., Demirci, U., Poplack, S. P., Pitteri, et al
2025; 11 (39): eadx5492
- **3D-Printed Latticed Microneedle Array Patches for Tunable and Versatile Intradermal Delivery.** *Advanced materials (Deerfield Beach, Fla.)*
Rajesh, N. U., Luna Hwang, J., Xu, Y., Saccone, M. A., Hung, A. H., Hernandez, R. A., Coates, I. A., Driskill, M. M., Dulay, M. T., Jacobson, G. B., Tian, S., Perry, J. L., DeSimone, et al
2024: e2404606
- **Magnetic Barcode Imaging for Contrast Agents** *MAGNETIC RESONANCE IN MEDICINE*
Hung, A. H., Lilley, L. M., Hu, F., Harrison, V. S. R., Meade, T. J.

2017; 77 (3): 970-978

- **Graphene Oxide Enhances Cellular Delivery of Hydrophilic Small Molecules by Co-incubation** *ACS NANO*
Hung, A. H., Holbrook, R. J., Rotz, M. W., Glasscock, C. J., Mansukhani, N. D., MacRenaris, K. W., Manus, L. M., Duch, M. C., Dam, K. T., Hersam, M. C., Meade, T. J.
2014; 8 (10): 10168-10177
- **Cell Labeling via Membrane-Anchored Lipophilic MR Contrast Agents** *BIOCONJUGATE CHEMISTRY*
Carney, C. E., MacRenaris, K. W., Mastarone, D. J., Kasjanski, D. R., Hung, A. H., Meade, T. J.
2014; 25 (5): 945-954
- **High Dynamic Range Processing for Magnetic Resonance Imaging** *PLOS ONE*
Hung, A. H., Liang, T., Sukerkar, P. A., Meade, T. J.
2013; 8 (11): e77883
- **Mechanisms of Gadographene-Mediated Proton Spin Relaxation** *JOURNAL OF PHYSICAL CHEMISTRY C*
Hung, A. H., Duch, M. C., Parigi, G., Rotz, M. W., Manus, L. M., Mastarone, D. J., Dam, K. T., Gits, C. C., MacRenaris, K. W., Luchinat, C., Hersam, M. C., Meade, T. J.
2013; 117 (31): 16263-16273
- **Analytical Methods for Characterizing Magnetic Resonance Probes** *ANALYTICAL CHEMISTRY*
Manus, L. M., Strauch, R. C., Hung, A. H., Eckermann, A. L., Meade, T. J.
2012; 84 (15): 6278-6287
- **Hydrogel-elastomer composite biomaterials: 4. Experimental optimization of hydrogel-elastomer composite fibers for use as a wound dressing**
Peng, H. T., Martineau, L., Hung, A.
SPRINGER.2008: 1803-1813
- **Toward the accurate read-out of quantum dot barcodes: Design of deconvolution algorithms and assessment of fluorescence signals in buffer** *ADVANCED MATERIALS*
Lee, J. A., Mardiyani, S., Hung, A., Rhee, A., Klostranec, J., Mu, Y., Li, D., Chan, W. C. W.
2007; 19 (20): 3113-+
- **Controlling methicillin resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa* wound infections with a novel biomaterial** *JOURNAL OF INVESTIGATIVE SURGERY*
Martineau, L., Davis, S. C.
2007; 20 (4): 217-227