



Colwyn Headley

- Instructor, Medicine - Cardiovascular Medicine
- Instructor (By courtesy), Neurosurgery
- 📄 NIH Biosketch available Online

Bio

ACADEMIC APPOINTMENTS

- Instructor, Medicine - Cardiovascular Medicine
- Instructor (By courtesy), Neurosurgery

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Revolutionizing Postdoctoral Training Using the Social Ecological Model: Insights and Experiences from the Propel Scholars GEN BIOTECHNOLOGY**
Hayes, C. A., Headley, C. A., Nava, A. R., Vizcarra, E. A., Garcia, K. C., Mullen, M. M. S., Morales, J., Venida, A. C., Follis, S.
2024
- **Mitochondrial Transplantation Promotes Protective Effector and Memory CD4+ T Cell Response During Mycobacterium Tuberculosis Infection and Diminishes Exhaustion and Senescence in Elderly CD4+ T cells.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
Headley, C. A., Gautam, S., Olmo-Fontanez, A., Garcia-Vilanova, A., Dwivedi, V., Schami, A., Weintraub, S., Tsao, P. S., Torrelles, J. B., Turner, J.
2024: e2401077
- **Unlocking the power of virtual networking for early-career researchers.** *eLife*
Hayes, C. A., Moore, J. T., Headley, C. A., Berrios-Negron, A. L., Lambert, W. M.
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- **Mitochondrial Transplantation promotes protective effector and memory CD4+ T cell response during Mycobacterium tuberculosis infection and diminishes exhaustion and senescence in elderly CD4+ T cells.** *bioRxiv : the preprint server for biology*
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2024
- **Extracellular Delivery of Functional Mitochondria Rescues the Dysfunction of CD4+T Cells in Aging.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
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2023: e2303664
- **Diversity, Equity and Inclusion in the Laboratory: Strategies to Enhance Inclusive Laboratory Culture.** *Molecular cell*
Marshall, A. G., Vue, Z., Beasley, H. K., Neikirk, K., Stephens, D., Wanjalla, C. N., Damo, S. M., Trejo, J., Rodriguez-Aliaga, P., Headley, C. A., Shuler, H., Liu, K., Smith, et al

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- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target.** *Nature genetics*
Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y. H., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al
2023
- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target** *NATURE GENETICS*
Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al
2023
- **IL-10 Modulation Increases Pyrazinamide's Antimycobacterial Efficacy against Mycobacterium tuberculosis Infection in Mice.** *ImmunoHorizons*
Dwivedi, V., Gautam, S., Beamer, G., Stromberg, P. C., Headley, C. A., Turner, J.
2023; 7 (6): 412-420
- **Building the case for mitochondrial transplantation as an anti-aging cardiovascular therapy.** *Frontiers in cardiovascular medicine*
Headley, C. A., Tsao, P. S.
2023; 10: 1141124
- **A Practical Guide to Graduate School Interviewing for Historically Excluded Individuals.** *American journal of physiology. Heart and circulatory physiology*
Ransey, E., Brookens, S., Beasley, H. K., Marshall, A., Marlin, B. J., Rodriguez-Aliaga, P., Headley, C. A., Wanjalla, C., Vazquez, A. D., Murray, S., Damo, S., Taabazuing, C. Y., Hinton, et al
2023
- **IL-10 Receptor Blockade Delivered Simultaneously with Bacillus Calmette-Guerin Vaccination Sustains Long-Term Protection against Mycobacterium tuberculosis Infection in Mice.** *Journal of immunology (Baltimore, Md. : 1950)*
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- **Local immune responses to tuberculin skin challenge in Mycobacterium bovis BCG-vaccinated baboons: a pilot study of younger and older animals** *IMMUNITY & AGEING*
Scordo, J. M., Piergallini, T. J., Reuter, N., Headley, C. A., Hodara, V. L., Gonzalez, O., Giavedoni, L. D., Papin, J. F., Turner, J.
2021; 18 (1): 16
- **Lethality of SARS-CoV-2 infection in K18 human angiotensin-converting enzyme 2 transgenic mice** *NATURE COMMUNICATIONS*
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- **Blood RNA signatures predict recent tuberculosis exposure in mice, macaques and humans** *SCIENTIFIC REPORTS*
Ault, R. C., Headley, C. A., Hare, A. E., Carruthers, B. J., Mejias, A., Turner, J.
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- **The role of old age on Mycobacterium bovis BCG vaccine-induced tissue immunity**
Scordo, J. M., Piergallini, T. J., Headley, C. A., Hodara, V., Reuter, N., Papin, J. F., Turner, J.
AMER ASSOC IMMUNOLOGISTS.2020
- **Membrane-specific spin trap, 5-dodecylcarbamoyl-5-N-dodecylacetamide-1-pyrroline-N-oxide (diC(12)PO): theoretical, bioorthogonal fluorescence imaging and EPR studies** *ORGANIC & BIOMOLECULAR CHEMISTRY*
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2019; 17 (33): 7694-7705
- **Aging heart and infection** *AGING-US*
Headley, C., Turner, J., Rajaram, M. V. S.
2019; 11 (14): 4781-4782

- **Nontuberculous mycobacterium *M. avium* infection predisposes aged mice to cardiac abnormalities and inflammation** *AGING CELL*
Headley, C. A., Gerberick, A., Mehta, S., Wu, Q., Yu, L., Fadda, P., Khan, M., Ganesan, L., Turner, J., Rajaram, M. V. S.
2019; 18 (3): e12926
- **Similarities and differences between porcine mandibular and limb bone marrow mesenchymal stem cells** *ARCHIVES OF ORAL BIOLOGY*
Lloyd, B., Tee, B., Headley, C., Emam, H., Mallery, S., Sun, Z.
2017; 77: 1-11
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