



Katrin Andreasson

Edward F. and Irene Thiele Pimley Professor of Neurology and Neurological Sciences

CONTACT INFORMATION

- **Alternate Contact**

Annie Shiau - Administrative Assistant

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Bio

ACADEMIC APPOINTMENTS

- Professor, Neurology and Neurological Sciences
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- B.A.S., M.S., Stanford University , Biology Comparative Literature
- M.D., Columbia University College of Physicians & Surgeons , Medicine

LINKS

- Neurology: <http://med.stanford.edu/neurology/index.html>
- Andreasson Lab Site: <http://neurology.stanford.edu/labs/andreassonlab/>
- Stanford Alzheimer's Disease Research Center: <http://med.stanford.edu/adrc.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are investigating the role that innate immune responses play in the initiation and progression of neurological diseases. Recent advances in human genetics, particularly for neurodegenerative disorders like Alzheimer's disease, have highlighted a causal role for a disrupted immune response in disease pathogenesis. An injurious immune response may be a common denominator across many neurological disorders, both acute (brain trauma or stroke) and chronic (epilepsy, Parkinson's disease, Alzheimer's for eg.). An understanding of how innate immune responses cause neurological disease will be essential if we are to develop disease-modifying therapies for our patients.

Through a systems biology approach, we are identifying novel immune pathways that may play critical roles in maladaptive brain inflammation, and we are working to understand how these responses cause neurodegeneration and circuit disruption. Some of these new pathways are relevant to immune cell metabolism and the effect of metabolic regulators of immune function. Our objectives are (1) to understand how aberrant CNS and/or peripheral

innate immune responses cause synapse loss and contribute to the vulnerability of selected circuits in different neurodegenerative disorders, and (2) to develop preventive and therapeutic strategies targeting these inflammatory pathways in patients with neurologic diseases.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Rahul Nagvekar

Postdoctoral Faculty Sponsor

Travis Conley, Hannah Ennerfelt, Tae Hyun Kweon, Manling Xie

Doctoral Dissertation Advisor (AC)

Yoo Jin Genie Jung, Genper Wong

Doctoral Dissertation Co-Advisor (AC)

Jolie Huang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Restoring hippocampal glucose metabolism rescues cognition across Alzheimer's disease pathologies.** *Science (New York, N.Y.)*
Minhas, P. S., Jones, J. R., Latif-Hernandez, A., Sugiura, Y., Durairaj, A. S., Wang, Q., Mhatre, S. D., Uenaka, T., Crapser, J., Conley, T., Ennerfelt, H., Jung, Y. J., Liu, et al
2024; 385 (6711): eabm6131
- **TREM1 disrupts myeloid bioenergetics and cognitive function in aging and Alzheimer disease mouse models.** *Nature neuroscience*
Wilson, E. N., Wang, C., Swarovski, M. S., Zera, K. A., Ennerfelt, H. E., Wang, Q., Chaney, A., Gauba, E., Ramos Benitez, J. A., Le Guen, Y., Minhas, P. S., Panchal, M., Tan, et al
2024
- **Aging disrupts circadian gene regulation and function in macrophages.** *Nature immunology*
Blacher, E., Tsai, C., Litichevskiy, L., Shipony, Z., Iweka, C. A., Schneider, K. M., Chuluun, B., Heller, H. C., Menon, V., Thaiss, C. A., Andreasson, K. I.
1800
- **Restoring metabolism of myeloid cells reverses cognitive decline in ageing.** *Nature*
Minhas, P. S., Latif-Hernandez, A., McReynolds, M. R., Durairaj, A. S., Wang, Q., Rubin, A., Joshi, A. U., He, J. Q., Gauba, E., Liu, L., Wang, C., Linde, M., Sugiura, et al
2021
- **Soluble TREM2 is elevated in Parkinson's disease subgroups with increased CSF tau.** *Brain : a journal of neurology*
Wilson, E. N., Swarovski, M. S., Linortner, P. n., Shahid, M. n., Zuckerman, A. J., Wang, Q. n., Channappa, D. n., Minhas, P. S., Mhatre, S. D., Plowey, E. D., Quinn, J. F., Zabetian, C. P., Tian, et al
2020
- **Peripheral TREM1 responses to brain and intestinal immunogens amplify stroke severity** *Nature Immunology*
Liu, Q., Johnson, E., et al
2019
- **Macrophage de novo NAD⁺ synthesis specifies immune function in aging and inflammation.** *Nature immunology*

- Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
2018
- **Targeting innate immunity for neurodegenerative disorders of the central nervous system.** *Journal of neurochemistry*
Andreasson, K. I., Bachstetter, A. D., Colonna, M., Ginhoux, F., Holmes, C., Lamb, B., Landreth, G., Lee, D. C., Low, D., Lynch, M. A., Monsonego, A., O'Banion, M. K., Pekny, et al
2016; 138 (5): 653-693
 - **Cyclooxygenase inhibition targets neurons to prevent early behavioural decline in Alzheimer's disease model mice** *BRAIN*
Woodling, N. S., Colas, D., Wang, Q., Minhas, P., Panchal, M., Liang, X., Mhatre, S. D., Brown, H., Ko, N., Zagol-Ikapitte, I., Van der Hart, M., Khroyan, T. V., Chuluun, et al
2016; 139: 2063-2081
 - **Microglial Malfunction: The Third Rail in the Development of Alzheimer's Disease.** *Trends in neurosciences*
Mhatre, S. D., Tsai, C. A., Rubin, A. J., James, M. L., Andreasson, K. I.
2015; 38 (10): 621-636
 - **Prostaglandin signaling suppresses beneficial microglial function in Alzheimer's disease models** *JOURNAL OF CLINICAL INVESTIGATION*
Johansson, J. U., Woodling, N. S., Wang, Q., Panchal, M., Hang, X., Trueba-Saiz, A., Brown, H. D., Mhatre, S. D., Loui, T., Andreasson, K. I.
2015; 125 (1): 350-364
 - **Plasma phosphorylated tau 217 detects amyloid- β in neuronal synuclein disease.** *NPJ Parkinson's disease*
Smith, A. M., Lorkiewicz, S. A., Arslan, B., Montoliu-Gaya, L., Ashton, N. J., Wilson, E. N., Alcolea, D., Rodríguez-Baz, Í., Fortea, J., Young, C. B., Winer, J. R., Shahid-Besanti, M., Vossler, et al
2026
 - **Plasma pTau217 as a Prognostic, Monitoring, and Risk-Stratification Biomarker of Clinical Progression in Lewy Body Disease.** *medRxiv : the preprint server for health sciences*
Lorkiewicz, S. A., Abdelnour, C., Bolen, M., Smith, A. M., Shahid-Besanti, M., Hemachandra, D., Muller-Oehring, E. M., Siddiqui, N., Montoliu-Gaya, L., Arslan, B., Ashton, N. J., Wilson, E. N., Tian, et al
2026
 - **A new blueprint of brain border immunity.** *Nature immunology*
Ennerfelt, H. E., Andreasson, K. I.
2026
 - **18F-PI-2620 Tau PET is associated with cognitive and motor impairment in Lewy body disease.** *Brain communications*
Winer, J. R., Vossler, H., Young, C. B., Smith, V., Romero, A., Shahid-Besanti, M., Abdelnour, C., Wilson, E. N., Anders, D., Pacheco Morales, A., Andreasson, K. I., Yutsis, M. V., Henderson, et al
2025; 7 (1): fcae458
 - **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Smith, A. M., Lorkiewicz, S. A., Montoliu-Gaya, L., Wilson, T. N., Ashton, N., Arslan, B., Plastini, M. J., Young, C. B., Winer, J. R., Shahid, M., Vossler, H., Ramirez, V., Pan, et al
2025; 21 Suppl 2: e104596
 - **NAD⁺ depletion drives age-related monocyte hyperinflammation after stroke and is reversed by nicotinamide riboside.** *Journal of neuroinflammation*
Cabrera, M., Eastman, B., Ennerfelt, H., Alsaadi, A. I., Alexandrova, L., Ay, Y. A., Huang, J., Wang, Q., Blacher, E., McReynolds, M. R., Andreasson, K. I., Iweka, C. A.
2025
 - **Synergistic effects of APOE ϵ 4 and Alzheimer's pathology on the neural correlates of episodic remembering in cognitively unimpaired older adults.** *bioRxiv : the preprint server for biology*
Trelle, A. N., Sheng, J., Wilson, E. N., Romero, A., Park, J., Deutsch, G. K., Sha, S. J., Greicius, M. D., Andreasson, K. I., Kerchner, G. A., Mormino, E. C., Wagner, A. D.
2025
 - **Top-down attention and Alzheimer's pathology affect cortical selectivity during learning, influencing episodic memory in older adults.** *Science advances*
Sheng, J., Trelle, A. N., Romero, A., Park, J., Tran, T. T., Sha, S. J., Andreasson, K. I., Wilson, E. N., Mormino, E. C., Wagner, A. D.

2025; 11 (24): eads4206

- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *NPJ Parkinson's disease*
Wilson, E. N., Umans, J., Swarovski, M. S., Minhas, P. S., Mendiola, J. H., Middtun, Ø., Ulvik, A., Shahid-Besanti, M., Linortner, P., Mhatre, S. D., Wang, Q., Channappa, D., Corso, et al
2025; 11 (1): 96
- **A single-cell atlas to map sex-specific gene-expression changes in blood upon neurodegeneration.** *Nature communications*
Grandke, F., Fehlmann, T., Kern, F., Gate, D. M., Wolff, T. W., Leventhal, O., Channappa, D., Hirsch, P., Wilson, E. N., Meese, E., Liu, C., Shi, Q., Flotho, et al
2025; 16 (1): 1965
- **Plasma A β 42/A β 40 is sensitive to early cerebral amyloid accumulation and predicts risk of cognitive decline across the Alzheimer's disease spectrum.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Trelle, A. N., Young, C. B., Vossler, H., Ramos Benitez, J., Cody, K. A., Mendiola, J. H., Swarovski, M. S., Guen, Y. L., Feinstein, I., Butler, R. R., Channappa, D., Romero, A., Park, et al
2024
- **Neuroinflammation in Alzheimer disease.** *Nature reviews. Immunology*
Heneka, M. T., van der Flier, W. M., Jessen, F., Hoozemanns, J., Thal, D. R., Boche, D., Brosseron, F., Teunissen, C., Zetterberg, H., Jacobs, A. H., Edison, P., Ramirez, A., Cruchaga, et al
2024
- **Top-down attention and Alzheimer's pathology impact cortical selectivity during learning, influencing episodic memory in older adults.** *bioRxiv : the preprint server for biology*
Sheng, J., Trelle, A. N., Romero, A., Park, J., Tran, T. T., Sha, S. J., Andreasson, K. I., Wilson, E. N., Mormino, E. C., Wagner, A. D.
2024
- **Basic Science and Pathogenesis.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Talozzi, L., Peña-Tauber, A., Jensen, T. D., Wilson, E. N., Young, C. B., Stewart, I., Cobos, I., Vallejo, K., Hefti, M. M., Guen, Y. L., Williams, K., Vossler, H., Gorzynski, et al
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- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Smith, A., Plastini, M. J., Ashton, N. J., Montoliu-Gaya, L., Wilson, E. N., Arslan, B., Young, C. B., Winer, J. R., Shahid, M., Vossler, H., Kerchner, G. A., Cholerton, B., Andreasson, et al
2024; 20 Suppl 2: e091458
- **Alzheimer's Imaging Consortium.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Talozzi, L., Peña-Tauber, A., Jensen, T. D., Wilson, E. N., Young, C. B., Stewart, I., Cobos, I., Vallejo, K., Hefti, M. M., Guen, Y. L., Williams, K., Vossler, H., Gorzynski, et al
2024; 20 Suppl 9: e093931
- **[18F]PI-2620 Tau PET signal across the aging and Alzheimer's disease clinical spectrum.** *Imaging neuroscience (Cambridge, Mass.)*
Young, C. B., Vossler, H., Romero, A., Smith, V., Park, J., Trelle, A. N., Winer, J. R., Wilson, E. N., Zeineh, M. M., Sha, S. J., Khalighi, M., Yutsis, M. V., Morales, et al
2024; 2
- **[18F]PI-2620 Tau PET signal across the aging and Alzheimer's disease clinical spectrum** *IMAGING NEUROSCIENCE*
Young, C. B., Vossler, H., Romero, A., Smith, V., Park, J., Trelle, A. N., Winer, J. R., Wilson, E. N., Zeineh, M. M., Sha, S. J., Khalighi, M., Yutsis, M. V., Morales, et al
2024; 2: 18
- **Longevity biotechnology: bridging AI, biomarkers, geroscience and clinical applications for healthy longevity.** *Aging*
Lyu, Y. X., Fu, Q., Wilczok, D., Ying, K., King, A., Antebi, A., Vojta, A., Stolzing, A., Moskalev, A., Georgievskaya, A., Maier, A. B., Olsen, A., Groth, et al
2024; 16
- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *Research square*
Wilson, E., Umans, J., Swarovski, M., Minhas, P., Middtun, Ø., Ulvik, A. A., Shahid-Besanti, M., Linortner, P., Mhatre, S., Wang, Q., Channappa, D., Corso, N., Tian, et al
2024

- **Plasma pTau181 Reveals a Pathological Signature that Predicts Cognitive Outcomes in Lewy Body Disease.** *Annals of neurology*
Abdelnour, C., Young, C. B., Shahid-Besanti, M., Smith, A., Wilson, E. N., Ramos Benitez, J., Vossler, H., Plastini, M. J., Winer, J. R., Kerchner, G. A., Cholerton, B., Andreasson, K. I., Henderson, et al
2024
- **A TrkB and TrkC partial agonist restores deficits in synaptic function and promotes activity-dependent synaptic and microglial transcriptomic changes in a late-stage Alzheimer's mouse model.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Latif-Hernandez, A., Yang, T., Raymond-Butler, R. 3., Losada, P. M., Minhas, P. S., White, H., Tran, K. C., Liu, H., Simmons, D. A., Langness, V., Andreasson, K. I., Wyss-Coray, T., Longo, et al
2024
- **Multiple biomarkers improve diagnostic accuracy across Lewy body and Alzheimer's disease spectra.** *Annals of clinical and translational neurology*
Plastini, M. J., Abdelnour, C., Young, C. B., Wilson, E. N., Shahid-Besanti, M., Lamoureux, J., Andreasson, K. I., Kerchner, G. A., Montine, T. J., Henderson, V. W., Poston, K. L.
2024
- **Unveiling the age related metabolic shift of innate immune cells in response to stroke injury**
Iweka, C., Cabrera, M., Blacher, E., Alexandrova, L., McCreynolds, M., Andreasson, K.
AMER SOC CELL BIOLOGY.2024
- **Post-translational modifications linked to preclinical Alzheimer's disease-related pathological and cognitive changes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Abiose, O., Rutledge, J., Moran-Losada, P., Belloy, M. E., Wilson, E. N., He, Z., Trelle, A. N., Channappa, D., Romero, A., Park, J., Yutsis, M. V., Sha, S. J., Andreasson, et al
2023
- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
Oh, H. S., Rutledge, J., Nachun, D., Pálovics, R., Abiose, O., Moran-Losada, P., Channappa, D., Urey, D. Y., Kim, K., Sung, Y. J., Wang, L., Timsina, J., Western, et al
2023; 624 (7990): 164-172
- **Immunosuppression with Targeted Therapies Reduces Morbidity and Mortality in Pre-Capillary Pulmonary Hypertension Associated with Systemic Sclerosis: A EUSTAR Analysis**
Bruni, C., Fretheim, H., Tofani, L., Weber, Y., Hachulla, E., Carreira, P., Giuggioli, D., Airo, P., Siegert, E., Mueller-Ladner, U., Cerinic, M., Riemekasten, G., Simeon-Aznar, et al
WILEY.2023: 3385-3389
- **PET imaging of TREM1 identifies CNS-infiltrating myeloid cells in a mouse model of multiple sclerosis.** *Science translational medicine*
Chaney, A. M., Cropper, H. C., Jain, P., Wilson, E., Simonetta, F., Johnson, E. M., Alam, I. S., Patterson, I. T., Swarovski, M., Stevens, M. Y., Wang, Q., Azevedo, C., Nagy, et al
2023; 15 (702): eabm6267
- **Myeloid deficiency of the intrinsic clock protein BMAL1 accelerates cognitive aging by disrupting microglial synaptic pruning.** *Journal of neuroinflammation*
Iweka, C. A., Seigneur, E., Hernandez, A. L., Paredes, S. H., Cabrera, M., Blacher, E., Pasternak, C. T., Longo, F. M., de Lecea, L., Andreasson, K. I.
2023; 20 (1): 48
- **Reduced expression of the cell intrinsic clock protein Bmal1 in myeloid cells accelerates cognitive decline and alters microglial function in aging mice**
Iweka, C., Seigneur, E., Latif-Hernandez, A., Paredes, S., Cabrera, M., Blacher, E., Wang, Q., Longo, F., DeLecea, L., Andreasson, K.
AMER SOC CELL BIOLOGY.2023: 761
- **Performance of a fully-automated Lumipulse plasma phospho-tau181 assay for Alzheimer's disease.** *Alzheimer's research & therapy*
Wilson, E. N., Young, C. B., Ramos Benitez, J., Swarovski, M. S., Feinstein, I., Vandijck, M., Le Guen, Y., Kasireddy, N. M., Shahid, M., Corso, N. K., Wang, Q., Kennedy, G., Trelle, et al
2022; 14 (1): 172
- **Publisher Correction: Limited proteolysis-mass spectrometry reveals aging-associated changes in cerebrospinal fluid protein abundances and structures.** *Nature aging*
Shuken, S. R., Rutledge, J., Iram, T., Losada, P. M., Wilson, E. N., Andreasson, K. I., Leib, R. D., Wyss-Coray, T.

2022; 2 (5): 455

- **Limited proteolysis-mass spectrometry reveals aging-associated changes in cerebrospinal fluid protein abundances and structures (vol 2, pg 379, 2022) NATURE AGING**
Shuken, S. R., Rutledge, J., Iram, T., Losada, P., Wilson, E. N., Andreasson, K. I., Leib, R. D., Wyss-Coray, T.
2022; 2 (5): 455
- **Odorant receptors in macrophages: potential targets for atherosclerosis.** *Trends in immunology*
Wang, C., Andreasson, K. I.
2022
- **Group 3 innate lymphoid cells produce the growth factor HB-EGF to protect the intestine from TNF-mediated inflammation.** *Nature immunology*
Zhou, L., Zhou, W., Joseph, A. M., Chu, C., Putzel, G. G., Fang, B., Teng, F., Lyu, M., Yano, H., Andreasson, K. I., Mekada, E., Eberl, G., Sonnenberg, et al
1800; 23 (2): 251-261
- **Limited proteolysis-mass spectrometry reveals aging-associated changes in cerebrospinal fluid protein abundances and structures** *Nature Aging*
Shuken, S. R., Rutledge, J., Iram, T., Moran Losada, P., Wilson, E. N., Andreasson, K. I., Leib, R. D., Wyss-Coray, T.
2022
- **Plasma Biomarkers of Tau and Neurodegeneration During Major Cardiac and Noncardiac Surgery.** *JAMA neurology*
Feinstein, I., Wilson, E. N., Swarovski, M. S., Andreasson, K. I., Angst, M. S., Greicius, M. D.
2021
- **A mitochondrial membrane-bridging machinery mediates signal transduction of intramitochondrial oxidation.** *Nature metabolism*
Li, L., Conradson, D. M., Bharat, V., Kim, M. J., Hsieh, C., Minhas, P. S., Papakyrikos, A. M., Durairaj, A. S., Ludlam, A., Andreasson, K. I., Partridge, L., Cianfrocco, M. A., Wang, et al
2021
- **Association of CSF Biomarkers with Hippocampal-dependent Memory in Preclinical Alzheimer Disease.** *Neurology*
Trelle, A. N., Carr, V. A., Wilson, E. N., Swarovski, M. S., Hunt, M. P., Toueg, T. N., Tran, T. T., Channappa, D. n., Corso, N. K., Thieu, M. K., Jayakumar, M. n., Nadiadwala, A. n., Guo, et al
2021
- **TAM-ping down amyloid in Alzheimer's disease.** *Nature immunology*
Wilson, E. N., Andreasson, K. I.
2021
- **The Dueling Duo: IL10 and TNF Face Off in Microglial Recovery from Endotoxin Challenge.** *Immunity*
Minhas, P. S., Durairaj, A. S., Andreasson, K. I.
2020; 53 (5): 897-99
- **TREM1-PET imaging of pro-inflammatory myeloid cells distinguishes active disease from remission in Multiple Sclerosis**
Chaney, A., Wilson, E., Jain, P., Cropper, H., Swarovski, M., Lucot, K., Vogel, H., Andreasson, K., James, M. L.
SOC NUCLEAR MEDICINE INC.2020
- **Mitochondrial dysfunction mediated through dynamin-related protein 1 (Drp1) propagates impairment in blood brain barrier in septic encephalopathy.** *Journal of neuroinflammation*
Haileselassie, B. n., Joshi, A. U., Minhas, P. S., Mukherjee, R. n., Andreasson, K. I., Mochly-Rosen, D. n.
2020; 17 (1): 36
- **Loss of DP1 Aggravates Vascular Remodeling in Pulmonary Arterial Hypertension via mTORC1 Signaling.** *American journal of respiratory and critical care medicine*
He, Y. n., Zuo, C. n., Jia, D. n., Bai, P. n., Kong, D. n., Chen, D. n., Liu, G. n., Li, J. n., Wang, Y. n., Chen, G. n., Yan, S. n., Xiao, B. n., Zhang, et al
2020
- **Author Correction: Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration.** *Nature neuroscience*
Joshi, A. U., Minhas, P. S., Liddelow, S. A., Haileselassie, B. n., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D. n.

2020

- **PGE(2) signaling via the neuronal EP2 receptor increases injury in a model of cerebral ischemia** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liu, Q., Liang, X., Wang, Q., Wilson, E. N., Lam, R., Wang, J., Kong, W., Tsai, C., Pan, T., Larkin, P. B., Shamloo, M., Andreasson, K. I.
2019; 116 (20): 10019–24
- **PGE2 signaling via the neuronal EP2 receptor increases injury in a model of cerebral ischemia.** *Proceedings of the National Academy of Sciences of the United States of America*
Liu, Q. n., Liang, X. n., Wang, Q. n., Wilson, E. N., Lam, R. n., Wang, J. n., Kong, W. n., Tsai, C. n., Pan, T. n., Larkin, P. B., Shamloo, M. n., Andreasson, K. I.
2019
- **Aldehyde dehydrogenase 2 activity and aldehydic load contribute to neuroinflammation and Alzheimer's disease related pathology.** *Acta neuropathologica communications*
Joshi, A. U., Van Wassenhove, L. D., Logas, K. R., Minhas, P. S., Andreasson, K. I., Weinberg, K. I., Chen, C. H., Mochly-Rosen, D. n.
2019; 7 (1): 190
- **Fragmented mitochondria released from microglia trigger A1 astrocytic response and propagate inflammatory neurodegeneration.** *Nature neuroscience*
Joshi, A. U., Minhas, P. S., Liddelw, S. A., Haileselassie, B. n., Andreasson, K. I., Dorn, G. W., Mochly-Rosen, D. n.
2019; 22 (10): 1635–48
- **Macrophage de novo NAD(+) synthesis specifies immune function in aging and inflammation** *NATURE IMMUNOLOGY*
Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
2019; 20 (1): 50-+
- **Therapeutic strategies for diffuse midline glioma from high-throughput combination drug screening.** *Science translational medicine*
Lin, G. L., Wilson, K. M., Ceribelli, M. n., Stanton, B. Z., Woo, P. J., Kreimer, S. n., Qin, E. Y., Zhang, X. n., Lennon, J. n., Nagaraja, S. n., Morris, P. J., Quezada, M. n., Gillespie, et al
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- **TREM1-TARGETED PET IMAGING OF TUMOR-ASSOCIATED MACROPHAGES IN AN ORTHOTOPIC GLIOBLASTOMA MOUSE MODEL**
Johnson, E., Murty, S., Mayer, A., Tsai, C., Mehta, S., Ilovich, O., Massoud, T., Andreasson, K., James, M.
OXFORD UNIV PRESS INC.2017: 249
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Pradhan, S. S., Salinas, K., Garduno, A. C., Johansson, J. U., Wang, Q., Manning-Bog, A., Andreasson, K. I.
2017; 12 (2): 292-304
- **Prostaglandin E receptor-4 receptor mediates endothelial barrier-enhancing and anti-inflammatory effects of oxidized phospholipids.** *FASEB journal*
Oskolkova, O., Gawlak, G., Tian, Y., Ke, Y., Sarich, N., Son, S., Andreasson, K., Bochkov, V. N., Birukova, A. A., Birukov, K. G.
2017
- **Regulation of lung endothelial permeability and inflammatory responses by prostaglandin A2: role of EP4 receptor.** *Molecular biology of the cell*
Ohmura, T., Tian, Y., Sarich, N., Ke, Y., Meliton, A., Shah, A. S., Andreasson, K., Birukov, K. G., Birukova, A. A.
2017
- **Gpr124 is essential for blood-brain barrier integrity in central nervous system disease** *NATURE MEDICINE*
Chang, J., Mancuso, M. R., Maier, C., Liang, X., Yuki, K., Yang, L., Kwong, J. W., Wang, J., Rao, V., Vallon, M., Kosinski, C., Zhang, J. J., Mah, et al
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- **DEVELOPMENT AND EVALUATION OF A NEW HIGHLY SPECIFIC TREM1-SPECIFIC PET TRACER FOR IMAGING MALADAPTIVE INFLAMMATION**
Johnson, E. M., Mayer, A., Wang, Q., Tsai, C., Mehta, S., Habte, B., Ilovich, O., Massoud, T. F., Andreasson, K. I., James, M. L.
WILEY.2017: 15

- **Anti-Inflammatory and Neuroprotective Effects of PGE2 EP4 Signaling in Models of Parkinson's Disease.** *Journal of neuroimmune pharmacology*
Pradhan, S. S., Salinas, K., Garduno, A. C., Johansson, J. U., Wang, Q., Manning-Bog, A., Andreasson, K. I.
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