Stanford

Suzanne Pfeffer

Emma Pfeiffer Merner Professor of Medical Sciences

Biochemistry

Bio

ACADEMIC APPOINTMENTS

- Professor, Biochemistry
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor, Stanford University School of Medicine-Biochemistry, (1986-1992)
- Associate Professor, Stanford University School of Medicine - Biochemistry, (1992-1998)
- Associate Chairman, Stanford University School of Medicine-Biochemistry, (1997-1998)
- Chairman, Stanford University School of Medicine - Biochemistry, (1998-2006)
- Professor, Stanford University School of Medicine-Biochemistry, (1998- present)
- Emma Pfeiffer Merner Professor of Medical Sciences, Stanford University School of Medicine, (2012- present)
- Chairman, Stanford University School of Medicine - Biochemistry, (2013-2019)

HONORS AND AWARDS

- Fellow, American Society for Biochemistry and Molecular Biology (2025)
- Editor in Chief, Annual Review of Biochemistry (2024-)
- Member, National Academy of Sciences (2024)
- Fellow, American Society for Cell Biology (2017)
- Fellow, American Academy of Arts and Sciences (2013)
- President, American Society for Biochemistry and Molecular Biology (2010-2012)
- President, American Society for Cell Biology (2003)
- Merit Award, National Institute of Diabetes and Digestive and Kidney Disorders (1999-2009)
- Fellow, American Association for the Advancement of Science (1992)
- Presidential Young Investigator Award, National Science Foundation (1988-1993)

PROFESSIONAL EDUCATION

- A.B., U.C. Berkeley , Biochemistry (1978)

- Ph.D., U.C. San Francisco , Biochemistry (1983)
- Postdoctoral, U.C. San Francisco , Biochemistry (1984)
- Postdoctoral, Stanford University , Biochemistry (1985)

LINKS

- Pfeffer Lab Site: http://pfeffer.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The major focus of our research is to understand the molecular basis of inherited Parkinson's Disease (PD). Pathogenic mutations in the LRRK2 kinase increase phosphorylation of Rab GTPases. We have found that phosphorylation of Rab10 blocks primary cilia formation in culture and in certain brain regions and we would like to understand how this leads to Parkinson's disease. We also study the NPC1 protein that is essential for cholesterol transport in humans and can lead to Niemann Pick C disease when mutated.

Teaching

COURSES

2025-26

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)

2024-25

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Biochemistry Department Minicourse: BIOC 202 (Aut)

2023-24

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Biochemistry Mini-Course: BIOC 202 (Aut)

2022-23

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Biochemistry Mini-Course: BIOC 202 (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Ebsy Jaimon, Yu En Lin, Rishith Ravindran, Aaran Vijayakumaran, Sreeja Vijayan Nair

Doctoral Dissertation Advisor (AC)

Claire Chiang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biochemistry (Phd Program)
- Molecular and Genetic Medicine (Fellowship Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Extracellular vesicle-mediated release of bis(monoacylglycerol)phosphate is regulated by LRRK2 and glucocerebrosidase activity.** *eLife*
  Meneses-Salas, E., Castella, M., Arnold, M., Hsieh, F., Fernandez-Santiago, R., Ezquerra, M., Garrido, A., Marti, M., Enrich, C., Pfeffer, S. R., Merchant, K., Lu, A.
  2026; 14

- **Convergent molecular pathways to inherited Parkinson's disease.** *Current opinion in cell biology*
  Pfeffer, S. R.
  2026; 99: 102624

- **GPNMB, LRRK2, and lysosome exocytosis in Parkinson's.** *Science advances*
  Pfeffer, S. R.
  2025; 11 (51): eaed8002

- **Allosteric regulation of the Golgi-localized PPM1H phosphatase by Rab GTPases modulates LRRK2 substrate dephosphorylation in Parkinson's disease.** *The Journal of biological chemistry*
  Adhikari, A., Tripathi, A., Chiang, C. Y., Sherpa, P., Pfeffer, S. R.
  2025: 110679

- **Lysosomal glucocerebrosidase is needed for ciliary Hedgehog signaling: A convergent pathway contributing to Parkinson's disease.** *Proceedings of the National Academy of Sciences of the United States of America*
  Nair, S. V., Jaimon, E., Adhikari, A., Nikoloff, J., Pfeffer, S. R.
  2025; 122 (31): e2504774122

- **PPM1M, an LRRK2-counteracting, phosphoRab12-preferring phosphatase with a potential link to Parkinson's disease.** *Cell reports*
  Chiang, C. Y., Pratuseviciute, N., Lin, Y. E., Adhikari, A., Yeshaw, W. M., Flitton, C., Sherpa, P. L., Tonelli, F., Rektorova, I., Lynch, T., Siuda, J., Rudzińska-Bar, M., Pulyk, et al
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- **Restoration of striatal neuroprotective pathways by kinase inhibitor treatment of Parkinson's disease-linked LRRK2-mutant mice.** *Science signaling*
  Jaimon, E., Lin, Y. E., Tonelli, F., Antico, O., Alessi, D. R., Pfeffer, S. R.
  2025; 18 (893): eads5761

- **Leucine-Rich Repeat Kinase 2: Pathways to Parkinson's Disease.** *Cold Spring Harbor perspectives in medicine*
  Pfeffer, S. R., Alessi, D. R.
  2025

- **End-product inhibition of the LRRK2-counteracting PPM1H phosphatase.** *bioRxiv : the preprint server for biology*
  Adhikari, A., Tripathi, A., Chiang, C. Y., Sherpa, P., Pfeffer, S. R.
  2025

- **Endogenous LRRK2 and PINK1 function in a convergent neuroprotective ciliogenesis pathway in the brain.** *Proceedings of the National Academy of Sciences of the United States of America*
  Bagnoli, E., Lin, Y. E., Burel, S., Jaimon, E., Antico, O., Themistokleous, C., Nikoloff, J. M., Squires, S., Morella, I., Watzlawik, J. O., Fiesel, F. C., Springer, W., Tonelli, et al
  2025; 122 (5): e2412029122

- **PathogenicLRRK2mutations cause loss of primary cilia and Neurturin in striatal parvalbumin interneurons.** *Life science alliance*
  Lin, Y., Jaimon, E., Tonelli, F., Pfeffer, S. R.
  2025; 8 (1)

- **Loss of primary cilia and dopaminergic neuroprotection in pathogenic LRRK2-driven and idiopathic Parkinson's disease.** *Proceedings of the National Academy of Sciences of the United States of America*
  Khan, S. S., Jaimon, E., Lin, Y. E., Nikoloff, J., Tonelli, F., Alessi, D. R., Pfeffer, S. R.
  2024; 121 (32): e2402206121

- **Leucine-Rich Repeat Kinases.** *Annual review of biochemistry*
  Alessi, D. R., Pfeffer, S. R.
  2024

- **Parkinson's VPS35[D620N] mutation induces LRRK2-mediated lysosomal association of RILPL1 and TMEM55B.** *Science advances*
  Pal, P., Taylor, M., Lam, P. Y., Tonelli, F., Hecht, C. A., Lis, P., Nirujogi, R. S., Phung, T. K., Yeshaw, W. M., Jaimon, E., Fasimoye, R., Dickie, E. A., Wightman, et al
  2023; 9 (50): eadj1205

- **Localization of PPM1H phosphatase tunes Parkinson's disease-linked LRRK2 kinase-mediated Rab GTPase phosphorylation and ciliogenesis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Yeshaw, W. M., Adhikari, A., Chiang, C. Y., Dhekne, H. S., Wawro, P. S., Pfeffer, S. R.
  2023; 120 (44): e2315171120

- **Genome-wide screen reveals Rab12 GTPase as a critical activator of Parkinson's disease-linked LRRK2 kinase.** *eLife*
  Dhekne, H. S., Tonelli, F., Yeshaw, W. M., Chiang, C. Y., Limouse, C., Jaimon, E., Purlyte, E., Alessi, D. R., Pfeffer, S. R.
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- **A feed-forward pathway drives LRRK2 kinase membrane recruitment and activation.** *eLife*
  Vides, E. G., Adhikari, A., Chiang, C. Y., Lis, P., Purlyte, E., Limouse, C., Shumate, J. L., Spinola-Lasso, E., Dhekne, H. S., Alessi, D. R., Pfeffer, S. R.
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- **LRRK2 phosphorylation of Rab GTPases in Parkinson's disease.** *FEBS letters*
  Pfeffer, S. R.
  2022

- **CRISPR screens for lipid regulators reveal a role for ER-bound SNX13 in lysosomal cholesterol export.** *The Journal of cell biology*
  Lu, A., Hsieh, F., Sharma, B. R., Vaughn, S. R., Enrich, C., Pfeffer, S. R.
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- **Pathogenic LRRK2 control of primary cilia and Hedgehog signaling in neurons and astrocytes of mouse brain** *ELIFE*
  Khan, S. S., Sobu, Y., Dhekne, H. S., Tonelli, F., Berndsen, K., Alessi, D. R., Pfeffer, S. R.
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- **Pathogenic LRRK2 regulates ciliation probability upstream of tau tubulin kinase 2 via Rab10 and RILPL1 proteins.** *Proceedings of the National Academy of Sciences of the United States of America*
  Sobu, Y., Wawro, P. S., Dhekne, H. S., Yeshaw, W. M., Pfeffer, S. R.
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- **LRRK2-phosphorylated Rab10 sequesters Myosin Va with RILPL2 during ciliogenesis blockade.** *Life science alliance*
  Dhekne, H. S., Yanatori, I., Vides, E. G., Sobu, Y., Diez, F., Tonelli, F., Pfeffer, S. R.
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- **Rab29 Fast Exchange Mutants: Characterization of a Challenging Rab GTPase.** *Methods in molecular biology (Clifton, N.J.)*
  Gomez, R. C., Vides, E. G., Pfeffer, S. R.
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  Gomez, R. C., Wawro, P., Lis, P., Alessi, D. R., Pfeffer, S. R.
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- **NPC intracellular cholesterol transporter 1 (NPC1)-mediated cholesterol export from lysosomes.** *The Journal of biological chemistry*
  Pfeffer, S. R.
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- **NPC intracellular cholesterol transporter 1 (NPC1)-mediated cholesterol export from lysosomes** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Pfeffer, S. R.
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- **Genome-wide interrogation of extracellular vesicle biology using barcoded miRNAs.** *eLife*
  Lu, A., Wawro, P., Morgens, D. W., Portela, F., Bassik, M. C., Pfeffer, S. R.
  2018; 7
- **Genome-wide interrogation of extracellular vesicle biology using barcoded miRNAs** *ELIFE*
  Lu, A., Wawro, P., Morgens, D. W., Portela, F., Bassik, M. C., Pfeffer, S. R.
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- **LRRK2 and Rab GTPases** *BIOCHEMICAL SOCIETY TRANSACTIONS*
  Pfeffer, S. R.
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- **A pathway for Parkinson's Disease LRRK2 kinase to block primary cilia and Sonic hedgehog signaling in the brain.** *eLife*
  Dhekne, H. S., Yanatori, I., Gomez, R. C., Tonelli, F., Diez, F., Schule, B., Steger, M., Alessi, D. R., Pfeffer, S. R.
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- **A pathway for Parkinson's Disease LRRK2 kinase to block primary cilia and Sonic hedgehog signaling in the brain** *ELIFE*
  Dhekne, H. S., Yanatori, I., Gomez, R. C., Tonelli, F., Diez, F., Schule, B., Steger, M., Alessi, D. R., Pfeffer, S. R.
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- **Rab29 activation of the Parkinson's disease-associated LRRK2 kinase** *EMBO JOURNAL*
  Purlyte, E., Dhekne, H. S., Sarhan, A. R., Gomez, R., Lis, P., Wightman, M., Martinez, T. N., Tonelli, F., Pfeffer, S. R., Alessi, D. R.
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  Steger, M., Diez, F., Dhekne, H. S., Lis, P., Nirujogi, R. S., Karayel, O., Tonelli, F., Martinez, T. N., Lorentzen, E., Pfeffer, S. R., Alessi, D. R., Mann, M.
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  Pfeffer, S. R.
  FEDERATION AMER SOC EXP BIOL.2017
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- **Lysosomal membrane glycoproteins bind cholesterol and contribute to lysosomal cholesterol export.** *eLife*
  Li, J., Pfeffer, S. R.
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  Li, X., Saha, P., Li, J., Blobel, G., Pfeffer, S. R.

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  Johnson, T. A., Pfeffer, S. R.
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  Pfeffer, S. R.
  2016
- **LAMP proteins bind cholesterol and contribute to NPC1-mediated cholesterol export from lysosomes.**
  Li, J., Pfeffer, S. R.
  AMER SOC CELL BIOLOGY.2016
- **Transport Vesicle Tethering at the Trans Golgi Network: Coiled Coil Proteins in Action.** *Frontiers in cell and developmental biology*
  Cheung, P. P., Pfeffer, S. R.
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  Nottingham, R. M., Pfeffer, S. R.
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  2015; 4
- **Rab6 regulation of the kinesin family KIF1C motor domain contributes to Golgi tethering.** *eLife*
  Lee, P. L., Ohlson, M. B., Pfeffer, S. R.
  2015; 4
- **Molecular and Cellular Characterization of GCC185: A Tethering Protein of the Trans-Golgi Network.** *Methods in molecular biology (Clifton, N.J.)*
  Cheung, P. P., Pfeffer, S. R.
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  Lu, A., Pfeffer, S. R.
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Pfeffer, S. R.
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  Lu, A., Pfeffer, S. R.
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  Pfeffer, S. R.
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  Pfeffer, S. R.
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- **Niemann-Pick type C 1 function requires lumenal domain residues that mediate cholesterol-dependent NPC2 binding** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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  Pfeffer, S. R.
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  Pfeffer, S. R.
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- **An update on transport vesicle tethering** *MOLECULAR MEMBRANE BIOLOGY*
  Brown, F. C., Pfeffer, S. R.
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- **Membrane traffic Editorial overview** *CURRENT OPINION IN CELL BIOLOGY*
  Pfeffer, S. R., Novick, P. J.
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  Pfeffer, S. R.
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- **Roles for Rab6, Arl1 and a novel Rho protein in GCC185-mediated vesicle tethering at the trans Golgi network**
  Pfeffer, S. R.
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  Pfeffer, S. R.
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