Stanford



Peter K. Jackson

Professor of Microbiology and Immunology (Baxter Labs) and of Pathology

Microbiology and Immunology - Baxter Laboratory

NIH Biosketch available Online Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrator Contact**

  Kathy Shaw - Administrator

  Email kshaw1@stanford.edu

  Tel 650.723.5035

Bio

ACADEMIC APPOINTMENTS

- Professor, Microbiology and Immunology - Baxter Laboratory
- Professor, Pathology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Faculty Director, Stanford Cancer Center Proteomics, Stanford Cancer Center, (2015- present)
- Faculty Director, Stanford University Mass Spectrometry, Stanford University, (2014- present)

HONORS AND AWARDS

- Merck Fellow, Life Sciences Research Foundation (1991)
- Baxter Award, Baxter Foundation (1997)
- Lutje-Stubbs Scholar, Stanford University (1998)
- Hume Faculty Scholar, Stanford University (1999)
- William Cohen Lecturer, Dana-Farber Cancer Institute (1999)
- Scholar, Kirsch Foundation (2003)
- Pluto Society, AAUP (2005)
- Staff Scientist, Genentech (2005-2013)
- Fellow, American Association for the Advancement of Science (2008)

- Fellow, Sigma Xi (2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Association for the Advancement of Science (AAAS) (2007 - present)
- Member, American Association for Cancer Research (1985 - present)
- Member, American Society of Cell BIology (1995 - present)

PROFESSIONAL EDUCATION

- Fellow, Harvard Medical School , Cell Biology, Cell Cycle (1994)
- Fellow, UCSF , Biochemistry & Biophysics (1993)
- Graduate Student, Whitehead Institute, MIT , Cancer Biiology (1989)
- Ph.D., Harvard University , Biophysics (1989)
- B. A., Yale College , Mathematics, Economics (1982)

LINKS

- Jackson Lab Website: http://med.stanford.edu/jacksonlab.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Jackson is Professor in the Baxter Laboratory, Department of Microbiology and Immunology and Department of Pathology at Stanford University School of Medicine. He received a BA in Mathematics and Economics from Yale College before pursuing graduate work in Chemical Physics and receiving a PhD in Biophysics from Harvard University, working on tyrosine kinase signaling with David Baltimore at MIT's Whitehead Institute. Following postdoctoral work at UCSF and Harvard Medical School with Mark Kirschner, studying the cell cycle, Dr. Jackson joined the Stanford faculty in 1995.
His laboratory focuses on the biochemical and cell biological mechanisms controlling cell division, signaling, metabolic disease and cancer. The disease studies are driven by using affinity purification/mass spectrometry construction of protein interaction networks, phosphoproteomics, quantitative imaging, and molecular studies. The lab has made discoveries of regulatory complexes and signaling in the cell cycle (Emi1, CDC14, p21-PCNA interaction, cyclin E/Cdk2), ubiquitin-dependent proteolysis (CDC34/SCF, APC), and cancer (Abl, SH2/SH3, KRAS). For the last 17 years, a major focus has been receptor trafficking and signaling within the primary cilium including the link between cilia and human genetic diseases including Bardet-Biedl and Joubert syndromes (the BBSome, the NPHP network, Tubby/Tulp3 trafficking of ciliary GPCRs, the Arl3 and Rabl2 trafficking pathways).
From 2005 to 2014, Dr. Jackson was a Director and Staff Scientist at Genentech focused on target validation and drug discovery for cancer chemotherapy and tumor metabolism creating new small molecule inhibitors of Chk1, PARP, LDHA, NAMPT, Plk1, the first small molecule inhibitor of KRAS and the first allosteric inhibitor of the VCP AAA ATPase.
He is currently focused on understanding core mechanisms driving adipogenesis and lipotoxicity in the context of ciliary signaling and using protein networks to find mechanisms and targets human genetic diseases, especially metabolic disease/obesity. The lab has recently focused on finding key ciliary GPCRs in tissues important for obesity and metabolism including the hypothalamus, preadipocyte, muscle stem cell and endocrine pancreas.
A major new technological innovation has been to comprehensively detail secreted factors using secretomics, starting with the secretomics of KRAS transformed cancer cells and paracrine interactions in adipose tissue.
In March 2020, in response to the COVID-19 pandemic, the lab began to study SARS-CoV-2 discovering importance of airway cilia for presenting the ACE2 receptor and a new, fundamental pathway for how SARS-CoV-2 and other respiratory viruses cross the multiciliated airway to establish infection, recently published in Cell. The group also showed how the virus attacks pancreatic beta cells to induce diabetes in patients with severe COVID-19 disease, in Cell Metabolism.

He is the founder and faculty advisor for the Stanford University Mass Spectrometry lab and directs mass spectrometry for the Stanford Cancer Center and a member of the Stanford Diabetes Research Center, the Stanford Cancer Center, and the Maternal and Child Health Initiative. He has collaborated with Rigel, Signal, Goldfinch Biopharma, Calico and Pfizer and has been on the Scientific Advisory Board for Celgene, Juvena Therapeutics and Cullgen. He is a long-standing ASCB member, organizer for FASEB, Keystone and Gordon Conferences on cilia, cancer and cell cycle, reviewed broadly for major journals and has given over 600 public lectures. He is an elected Fellow of the American Association for the Advancement of Science (2008), the American Association of University Pathologists (Pluto Society), and Sigma Xi.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Nayla Abney, Karen Linde-Garelli

Postdoctoral Faculty Sponsor

Anushweta Asthana, Csenge Rezi

Doctoral Dissertation Advisor (AC)

Sam Bollinger, Isabela Fuentes, Victoria Gonzalez

Doctoral (Program)

Matthew Proefke

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Microbiology and Immunology (PhD Program)

Publications

PUBLICATIONS

- **The FAM53C/DYRK1A axis regulates the G1/S transition of the cell cycle** *ELIFE*
  Hammond, T., Choi, J., Membreno, M. W., Demeter, J., Ng, R., Bhattacharya, D., Nguyen, T. N., Hartmann, G. G., Colon, C., Bossard, C., Skotheim, J. M., Jackson, P. K., Pasca, et al
  2026; 14

- **The FAM53C/DYRK1A axis regulates the G1/S transition of the cell cycle.** *eLife*
  Hammond, T., Choi, J. B., Membreño, M. W., Demeter, J., Ng, R., Bhattacharya, D., Nguyen, T. N., Hartmann, G. G., Colon, C. I., Bossard, C., Skotheim, J. M., Jackson, P. K., Pasca, et al
  2026; 14

- **Metabolic STAMP for deciphering GPCR-regulated insulin secretion by pancreatic β cells.** *bioRxiv : the preprint server for biology*
  Aziz-Zanjani, M. O., Turn, R. E., Hang, Y., Asthana, A., LaBrie, L. E., Mobedi, M., Xu, L. A., Krawitzky, M., Kim, S. K., Jackson, P. K.
  2025

- **A genome-wide, CRISPR-based screen reveals new requirements for translation initiation and ubiquitination in driving adipogenic fate change.** *Genes & development*
  Turn, R. E., Hilgendorf, K. I., Johnson, C. T., Han, K., Aziz-Zanjani, M. O., Swails Bollinger, S., Domizi, P., Cheng, R., Rabiee, A., Zhu, Y., Jiang, Z., Asthana, A., Demeter, et al
  2025

- **The human ciliopathy protein RSG1 links the CPLANE complex to transition zone architecture.** *Nature communications*
  Vazquez, N., Lee, C., Valenzuela, I., Phan, T. P., Derderian, C., Chavez, M., Mooney, N. A., Demeter, J., Aziz-Zanjani, M. O., Cusco, I., Codina, M., Martinez-Gil, N., Valverde, et al

2025; 16 (1): 5701

- **The complex role of brain cilia in feeding control.** *Science (New York, N.Y.)*
  Asthana, A., Jackson, P. K.
  2025; 388 (6751): 1026-1027
- **Synchronized temporal-spatial analysis via microscopy and phosphoproteomics (STAMP) of quiescence.** *Science advances*
  Azizzanjani, M. O., Turn, R. E., Asthana, A., Linde-Garelli, K. Y., Xu, L. A., Labrie, L. E., Mobedi, M., Jackson, P. K.
  2025; 11 (17): eadt9712
- **Myristoylated Neuronal Calcium Sensor-1 captures the ciliary vesicle at distal appendages.** *eLife*
  Kanie, T., Ng, R., Abbott, K. L., Tanvir, N. M., Lorentzen, E., Pongs, O., Jackson, P. K.
  2025; 14
- **A hierarchical pathway for assembly of the distal appendages that organize primary cilia.** *eLife*
  Kanie, T., Liu, B., Love, J. F., Fisher, S. D., Gustavsson, A. K., Jackson, P. K.
  2025; 14
- **Ciliary localization of GPR75 promotes fat accumulation in mice** *JOURNAL OF CLINICAL INVESTIGATION*
  Chavez, M., Asthana, A., Jackson, P. K.
  2024; 134 (19)
- **A fast-acting lipid checkpoint in G1 prevents mitotic defects.** *Nature communications*
  Koberlin, M. S., Fan, Y., Liu, C., Chung, M., Pinto, A. F., Jackson, P. K., Saghatelian, A., Meyer, T.
  2024; 15 (1): 2441
- **The IFT81-IFT74 complex acts as an unconventional RabL2 GTPase-activating protein during intraflagellar transport.** *The EMBO journal*
  Boegholm, N., Petriman, N. A., Loureiro-Lopez, M., Wang, J., Vela, M. I., Liu, B., Kanie, T., Ng, R., Jackson, P. K., Andersen, J. S., Lorentzen, E.
  2023: e111807
- **UHRF1 is a mediator of KRAS driven oncogenesis in lung adenocarcinoma.** *Nature communications*
  Kostyrko, K., Román, M., Lee, A. G., Simpson, D. R., Dinh, P. T., Leung, S. G., Marini, K. D., Kelly, M. R., Broyde, J., Califano, A., Jackson, P. K., Alejandro Sweet-Cordero, E.
  2023; 14 (1): 3966
- **Multiplexed screens identify RAS paralogues HRAS and NRAS as suppressors of KRAS-driven lung cancer growth.** *Nature cell biology*
  Tang, R., Shuldiner, E. G., Kelly, M., Murray, C. W., Hebert, J. D., Andrejka, L., Tsai, M. K., Hughes, N. W., Parker, M. I., Cai, H., Li, Y. C., Wahl, G. M., Dunbrack, et al
  2023
- **Myristoylated Neuronal Calcium Sensor-1 captures the ciliary vesicle at distal appendages.** *bioRxiv : the preprint server for biology*
  Kanie, T., Ng, R., Abbott, K. L., Pongs, O., Jackson, P. K.
  2023
- **A hierarchical pathway for assembly of the distal appendages that organize primary cilia.** *bioRxiv : the preprint server for biology*
  Kanie, T., Love, J. F., Fisher, S. D., Gustavsson, A. K., Jackson, P. K.
  2023
- **SARS-CoV-2 replication in airway epithelia requires motile cilia and microvillar reprogramming.** *Cell*
  Wu, C., Lidsky, P. V., Xiao, Y., Cheng, R., Lee, I. T., Nakayama, T., Jiang, S., He, W., Demeter, J., Knight, M. G., Turn, R. E., Rojas-Hernandez, L. S., Ye, et al
  2022
- **Oxaliplatin disrupts nucleolar function through biophysical disintegration.** *Cell reports*
  Schmidt, H. B., Jaafar, Z. A., Wulff, B. E., Rodencal, J. J., Hong, K., Aziz-Zanjani, M. O., Jackson, P. K., Leonetti, M. D., Dixon, S. J., Rohatgi, R., Brandman, O.
  2022; 41 (6): 111629
- **The Mettl3 epitranscriptomic writer amplifies p53 stress responses.** *Molecular cell*
  Raj, N., Wang, M., Seoane, J. A., Zhao, R. L., Kaiser, A. M., Moonie, N. A., Demeter, J., Boutelle, A. M., Kerr, C. H., Mulligan, A. S., Moffatt, C., Zeng, S. X., Lu, et al

2022

- **LKB1 drives stasis and C/EBP-mediated reprogramming to an alveolar type II fate in lung cancer.** *Nature communications*
  Murray, C. W., Brady, J. J., Han, M., Cai, H., Tsai, M. K., Pierce, S. E., Cheng, R., Demeter, J., Feldser, D. M., Jackson, P. K., Shackelford, D. B., Winslow, M. M.
  2022; 13 (1): 1090

- **Multi-omic analysis reveals divergent molecular events in scarring and regenerative wound healing.** *Cell stem cell*
  Mascharak, S., Talbott, H. E., Januszyk, M., Griffin, M., Chen, K., Davitt, M. F., Demeter, J., Henn, D., Bonham, C. A., Foster, D. S., Mooney, N., Cheng, R., Jackson, et al
  1800

- **Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging** *Nature Communications*
  Palla , A. R., Hilgendorf, K. I., Yang, A. V., Kerr, J. P., Hinken, A. C., Demeter, J., Kraft, P., Mooney, N. A., Yucel, N., Burns, D. M., Wang, Y. X., Jackson, P. K., Blau, et al
  2022; 13(1):1439

- **A defective viral genome strategy elicits broad protective immunity against respiratory viruses.** *Cell*
  Xiao, Y., Lidsky, P. V., Shirogane, Y., Aviner, R., Wu, C., Li, W., Zheng, W., Talbot, D., Catching, A., Doitsh, G., Su, W., Gekko, C. E., Nayak, et al
  2021

- **Identifying cancer drivers** *SCIENCE*
  Cheng, R., Jackson, P. K.
  2021; 374 (6563): 38-39

- **Determinants of SARS-CoV-2 entry and replication in airway mucosal tissue and susceptibility in smokers.** *Cell reports. Medicine*
  Nakayama, T., Lee, I. T., Jiang, S., Matter, M. S., Yan, C. H., Overdevest, J. B., Wu, C., Goltsev, Y., Shih, L., Liao, C., Zhu, B., Bai, Y., Lidsky, et al
  2021: 100421

- **Ethacridine inhibits SARS-CoV-2 by inactivating viral particles.** *PLoS pathogens*
  Li, X., Lidsky, P., Xiao, Y., Wu, C., Garcia-Knight, M., Yang, J., Nakayama, T., Nayak, J. V., Jackson, P. K., Andino, R., Shu, X.
  2021; 17 (9): e1009898

- **Discovery of ciliary G protein-coupled receptors regulating pancreatic islet insulin and glucagon secretion.** *Genes & development*
  Wu, C., Hilgendorf, K. I., Bevacqua, R. J., Hang, Y., Demeter, J., Kim, S. K., Jackson, P. K.
  2021

- **SARS-CoV-2 infects human pancreatic beta cells and elicits beta cell impairment.** *Cell metabolism*
  Wu, C., Lidsky, P. V., Xiao, Y., Lee, I. T., Cheng, R., Nakayama, T., Jiang, S., Demeter, J., Bevacqua, R. J., Chang, C. A., Whitener, R. L., Stalder, A. K., Zhu, et al
  2021

- **The AMBRA1 E3 ligase adaptor regulates the stability of cyclinD.** *Nature*
  Chaikovsky, A. C., Li, C., Jeng, E. E., Loebell, S., Lee, M. C., Murray, C. W., Cheng, R., Demeter, J., Swaney, D. L., Chen, S., Newton, B. W., Johnson, J. R., Drainas, et al
  2021

- **Identifying cancer drivers.** *Science (New York, N.Y.)*
  Cheng, R., Jackson, P. K.
  2021; 374 (6563): 38-39

- **Structured elements drive extensive circular RNA translation.** *Molecular cell*
  Chen, C. K., Cheng, R., Demeter, J., Chen, J., Weingarten-Gabbay, S., Jiang, L., Snyder, M. P., Weissman, J. S., Segal, E., Jackson, P. K., Chang, H. Y.
  2021

- **Structure-activity mapping of ARHGAP36 reveals regulatory roles for its GAP homology and C-terminal domains.** *PloS one*
  Nano, P. R., Johnson, T. K., Kudo, T., Mooney, N. A., Ni, J., Demeter, J., Jackson, P. K., Chen, J. K.
  2021; 16 (5): e0251684

- **Proteomic analysis of young and old mouse hematopoietic stem cells and their progenitors reveals post-transcriptional regulation in stem cells.** *eLife*

Zaro, B. W., Noh, J. J., Mascetti, V. L., Demeter, J., George, B., Zukowska, M., Gulati, G. S., Sinha, R., Flynn, R. A., Banuelos, A., Zhang, A., Wilkinson, A. C., Jackson, et al
2020; 9

- **ACE2 localizes to the respiratory cilia and is not increased by ACE inhibitors or ARBs.** *Nature communications*
  Lee, I. T., Nakayama, T., Wu, C., Goltsev, Y., Jiang, S., Gall, P. A., Liao, C., Shih, L., Schurch, C. M., McIlwain, D. R., Chu, P., Borchard, N. A., Zarabanda, et al
  2020; 11 (1): 5453
- **Ethacridine inhibits SARS-CoV-2 by inactivating viral particles in cellular models.** *bioRxiv : the preprint server for biology*
  Li, X., Lidsky, P., Xiao, Y., Wu, C. T., GarciaKnight, M., Yang, J., Nakayama, T., Nayak, J. V., Jackson, P. K., Andino, R., Shu, X.
  2020
- **Oncoprotein-specific molecular interaction maps (SigMaps) for cancer network analyses.** *Nature biotechnology*
  Broyde, J., Simpson, D. R., Murray, D., Paull, E. O., Chu, B. W., Tagore, S., Jones, S. J., Griffin, A. T., Giorgi, F. M., Lachmann, A., Jackson, P., Sweet-Cordero, E. A., Honig, et al
  2020
- **Combined Proteomic and Genetic Interaction Mapping Reveals New RAS Effector Pathways and Susceptibilities.** *Cancer discovery*
  Kelly, M. R., Kostyrko, K., Han, K., Mooney, N. A., Jeng, E. E., Spees, K., Dinh, P. T., Abbott, K. L., Gwinn, D. M., Sweet-Cordero, E. A., Bassik, M. C., Jackson, P. K.
  2020
- **Combined proteomic and genetic interaction mapping reveals new Ras pathway effectors and regulators.**
  Kelly, M., Han, K., Kostyrko, K., Mooney, N., Jeng, E., Demeter, J., Sweet-Cordero, A., Bassik, M., Jackson, P. K.
  AMER ASSOC CANCER RESEARCH.2020: 65
- **CRISPR screens in cancer spheroids identify 3D growth-specific vulnerabilities.** *Nature*
  Han, K., Pierce, S. E., Li, A., Spees, K., Anderson, G. R., Seoane, J. A., Lo, Y. H., Dubreuil, M., Olivas, M., Kamber, R. A., Wainberg, M., Kostyrko, K., Kelly, et al
  2020; 580 (7801): 136-141
- **Novel fibrillar structure in the inversin compartment of primary cilia revealed by 3D single-molecule super-resolution microscopy.** *Molecular biology of the cell*
  Bennett, H. W., Gustavsson, A., Bayas, C. A., Petrov, P. N., Mooney, N., Moerner, W. E., Jackson, P. K.
  2020: mbcE19090499
- **Unbiased Proteomic Profiling Uncovers a Targetable GNAS/PKA/PP2A Axis in Small Cell Lung Cancer Stem Cells.** *Cancer cell*
  Coles, G. L., Cristea, S. n., Webber, J. T., Levin, R. S., Moss, S. M., He, A. n., Sangodkar, J. n., Hwang, Y. C., Arand, J. n., Drainas, A. P., Mooney, N. A., Demeter, J. n., Spradlin, et al
  2020
- **Robust ACE2 protein expression localizes to the motile cilia of the respiratory tract epithelia and is not increased by ACE inhibitors or angiotensin receptor blockers.** *medRxiv : the preprint server for health sciences*
  Lee, I. T., Nakayama, T. n., Wu, C. T., Goltsev, Y. n., Jiang, S. n., Gall, P. A., Liao, C. K., Shih, L. C., Schürch, C. M., McIlwain, D. R., Chu, P. n., Borchard, N. A., Zarabanda, et al
  2020
- **cAMP Signaling in Nanodomains.** *Cell*
  Jackson, P. K.
  2020; 182 (6): 1379–81
- **Omega-3 Fatty Acids Activate Ciliary FFAR4 to Control Adipogenesis.** *Cell*
  Hilgendorf, K. I., Johnson, C. T., Mezger, A., Rice, S. L., Norris, A. M., Demeter, J., Greenleaf, W. J., Reiter, J. F., Kopinke, D., Jackson, P. K.
  2019
- **Oligomeric self-association contributes to E2A-PBX1-mediated oncogenesis.** *Scientific reports*
  Lin, C., Wang, Z., Duque-Afonso, J., Wong, S. H., Demeter, J., Loktev, A. V., Somervaille, T. C., Jackson, P. K., Cleary, M. L.
  2019; 9 (1): 4915
- **E2F4 regulates transcriptional activation in mouse embryonic stem cells independently of the RB family.** *Nature communications*

Hsu, J. n., Arand, J. n., Chaikovsky, A. n., Mooney, N. A., Demeter, J. n., Brison, C. M., Oliverio, R. n., Vogel, H. n., Rubin, S. M., Jackson, P. K., Sage, J. n.
2019; 10 (1): 2939

- **EZH2 Inactivates Primary Cilia to Activate Wnt and Drive Melanoma.** *Cancer cell*
  Jackson, P. K.
  2018; 34 (1): 3–5
- **Drebrin restricts rotavirus entry by inhibiting dynamin-mediated endocytosis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Li, B., Ding, S., Feng, N., Mooney, N., Ooi, Y. S., Ren, L., Diep, J., Kelly, M. R., Yasukawa, L. L., Patton, J. T., Yamazaki, H., Shirao, T., Jackson, et al
  2017; 114 (18): E3642-E3651
- **The CEP19-RABL2 GTPase Complex Binds IFT-B to Initiate Intraflagellar Transport at the Ciliary Base.** *Developmental cell*
  Kanie, T. n., Abbott, K. L., Mooney, N. A., Plowey, E. D., Demeter, J. n., Jackson, P. K.
  2017
- **Neural Precursor-Derived Pleiotrophin Mediates Subventricular Zone Invasion by Glioma.** *Cell*
  Qin, E. Y., Cooper, D. D., Abbott, K. L., Lennon, J. n., Nagaraja, S. n., Mackay, A. n., Jones, C. n., Vogel, H. n., Jackson, P. K., Monje, M. n.
  2017; 170 (5): 845–59.e19
- **Metabolic plasticity underpins innate and acquired resistance to LDHA inhibition** *NATURE CHEMICAL BIOLOGY*
  Boudreau, A., Purkey, H. E., Hitz, A., Robarge, K., Peterson, D., Labadie, S., Kwong, M., Hong, R., Gao, M., Del Nagro, C., Pusapati, R., Ma, S., Salphati, et al
  2016; 12 (10): 779-?
- **Comparative Proteomics Reveals Strain-Specific ß-TrCP Degradation via Rotavirus NSP1 Hijacking a Host Cullin-3-Rbx1 Complex.** *PLoS pathogens*
  Ding, S., Mooney, N., Li, B., Kelly, M. R., Feng, N., Loktev, A. V., Sen, A., Patton, J. T., Jackson, P. K., Greenberg, H. B.
  2016; 12 (10)
- **Membrane trafficking regulation of intracellular ciliogenesis initiation and progression in RPE-1 cells and photoreceptors**
  Insinna, C., Lu, Q., Ott, C., Lippincott-Schwartz, J., Jackson, P., Westlake, C.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
- **The ciliopathy-associated CPLANE proteins direct basal body recruitment of intraflagellar transport machinery** *NATURE GENETICS*
  Toriyama, M., Lee, C., Taylor, S. P., Duran, I., Cohn, D. H., Bruel, A., Tabler, J. M., Drew, K., Kelly, M. R., Kim, S., Park, T. J., Braun, D. A., Pierquin, et al
  2016; 48 (6): 648-?
- **The primary cilium as a cellular receiver: organizing ciliary GPCR signaling.** *Current opinion in cell biology*
  Hilgendorf, K. I., Johnson, C. T., Jackson, P. K.
  2016; 39: 84-92
- **p73 anc FoxJ1: Programming Multiciliated Epithelia** *TRENDS IN CELL BIOLOGY*
  Jackson, P. K., Attardi, L. D.
  2016; 26 (4): 239–40
- **Signals straightened out** *NATURE*
  Jackson, P. K.
  2016; 531 (7596): 582–83
- **Smoothened determines beta-arrestin-mediated removal of the G protein-coupled receptor Gpr161 from the primary cilium** *JOURNAL OF CELL BIOLOGY*
  Pal, K., Hwang, S., Somatilaka, B., Badgandi, H., Jackson, P. K., DeFea, K., Mukhopadhyay, S.
  2016; 212 (7): 861-875
- **Systems and structural biology approaches to elucidate new effectors in KRAS mutant tumors**
  Broyde, J., Simpson, D., Wah, D. A., Giorgi, F. M., Petrey, D., Alvarez, M. J., Silkov, A., Lachmann, A., Hill, D. E., Vidal, M., Jackson, P., Honig, B., Sweet-Cordero, et al
  AMER ASSOC CANCER RESEARCH.2015

- **Tctex1d2 associates with short-rib polydactyly syndrome proteins and is required for ciliogenesis** *CELL CYCLE*
  Gholkar, A. A., Senese, S., Lo, Y., Capri, J., Deardorff, W. J., Dharmarajan, H., Contreras, E., Hodara, E., Whitelegge, J. P., Jackson, P. K., Torres, J. Z.
  2015; 14 (7): 1116-1125

- **Early steps in primary cilium assembly require EHD1/EHD3-dependent ciliary vesicle formation** *NATURE CELL BIOLOGY*
  Lu, Q., Insinna, C., Ott, C., Stauffer, J., Pintado, P. A., Rahajeng, J., Baxa, U., Walia, V., Cuenca, A., Hwang, Y., Daar, I. O., Lopes, S., Lippincott-Schwartz, et al
  2015; 17 (3): 228-?

- **3D spheroid model of mIMCD3 cells for studying ciliopathies and renal epithelial disorders** *NATURE PROTOCOLS*
  Giles, R. H., Ajzenberg, H., Jackson, P. K.
  2014; 9 (12): 2725-2731

- **Regulating Microtubules and Genome Stability via the CUL7/3M Syndrome Complex and CUL9** *MOLECULAR CELL*
  Jackson, P. K.
  2014; 54 (5): 713–15

- **Chk1 inhibition in p53-deficient cell lines drives rapid chromosome fragmentation followed by caspase-independent cell death** *CELL CYCLE*
  Del Nagro, C. J., Choi, J., Xiao, Y., Rangell, L., Mohan, S., Pandita, A., Zha, J., Jackson, P. K., O'Brien, T.
  2014; 13 (2): 303-314

- **Neuropeptide Y Family Receptors Traffic via the Bardet-Biedl Syndrome Pathway to Signal in Neuronal Primary Cilia** *CELL REPORTS*
  Loktev, A. V., Jackson, P. K.
  2013; 5 (5): 1316-1329

- **Supplementation of Nicotinic Acid with NAMPT Inhibitors Results in Loss of In Vivo Efficacy in NAPRT1-Deficient Tumor Models** *NEOPLASIA*
  O'Brien, T., Oeh, J., Xiao, Y., Liang, X., Vanderbilt, A., Qin, A., Yang, L., Lee, L. B., Ly, J., Cosino, E., Lacap, J. A., Ogasawara, A., Williams, et al
  2013; 15 (12): 1314-?

- **Identification of Preferred Chemotherapeutics for Combining with a CHK1 Inhibitor** *MOLECULAR CANCER THERAPEUTICS*
  Xiao, Y., Ramiscal, J., Kowanetz, K., Del Nagro, C., Malek, S., Evangelista, M., Blackwood, E., Jackson, P. K., O'Brien, T.
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