




Peter K. Jackson

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

PROFESSIONAL EDUCATION

- Fellow, Harvard Medical School , Cell Biology, Cell Cycle (1994)
- Fellow, UCSF , Biochemistry & Biophysics (1993)
- Graduate Student, Whitehead Institute, MIT , Cancer Biology (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

Cell cycle control of DNA replication in embryonic and somatic cells: cyclins and the cell cycle in *Xenopus* embryos.

Teaching

COURSES

2020-21

- Proteomics, Protein Interaction Maps, and Systems Biology: BIOS 267 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Devin Bradburn, Brianna McIntosh, Ron Shanderson

Postdoctoral Faculty Sponsor

Anushweta Asthana, Mohammad Ovais Azizzanjani, Rachel Turn, Chien Ting Wu

Doctoral Dissertation Advisor (AC)

Sam Bollinger, Ran Cheng

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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., Januszzyk, 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., Overvest, 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*
Chaikovskiy, 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*
Hilgenhof, 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., Somerville, 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., Chaikovskiy, 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 β -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 and 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
- **Smoothed 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.
2013; 12 (11): 2285-2295
- **Dependence of Tumor Cell Lines and Patient-Derived Tumors on the NAD Salvage Pathway Renders Them Sensitive to NAMPT Inhibition with GNE-618** *NEOPLASIA*
Xiao, Y., Elkins, K., Durieux, J. K., Lee, L., Oeh, J., Yang, L. X., Liang, X., Delnagro, C., Tremayne, J., Kwong, M., Liederer, B. M., Jackson, P. K., Belmont, et al
2013; 15 (10): 1137-1146
- **Combination Drug Scheduling Defines a "Window of Opportunity" for Chemopotentiation of Gemcitabine by an Orally Bioavailable, Selective ChK1 Inhibitor, GNE-900** *MOLECULAR CANCER THERAPEUTICS*
Blackwood, E., Epler, J., Yen, I., Flagella, M., O'Brien, T., Evangelista, M., Schmidt, S., Xiao, Y., Choi, J., Kowanetz, K., Ramiscal, J., Wong, K., Jakubiak, et al
2013; 12 (10): 1968-1980
- **Covalent and allosteric inhibitors of the ATPase VCP/p97 induce cancer cell death.** *Nature chemical biology*
Magnaghi, P., D'alesio, R., Valsasina, B., Avanzi, N., Rizzi, S., Asa, D., Gasparri, F., Cozzi, L., Cucchi, U., Orrenius, C., Polucci, P., Ballinari, D., Perrera, et al
2013; 9 (9): 548-556
- **Nek8 Couples Renal Ciliopathies to DNA Damage and Checkpoint Control** *MOLECULAR CELL*
Jackson, P. K.
2013; 51 (4): 407-8
- **The Ciliary G-Protein-Coupled Receptor Gpr161 Negatively Regulates the Sonic Hedgehog Pathway via cAMP Signaling** *CELL*
Mukhopadhyay, S., Wen, X., Ratti, N., Loktev, A., Rangell, L., Scales, S. J., Jackson, P. K.
2013; 152 (1-2): 210-223
- **Our thanks to Cilia's reviewers.** *Cilia*
Beales, P., Jackson, P. K.
2013; 2 (1): 4-?
- **TTBK2 Kinase: Linking Primary Cilia and Cerebellar Ataxias** *CELL*
Jackson, P. K.
2012; 151 (4): 697-699
- **Small-molecule ligands bind to a distinct pocket in Ras and inhibit SOS-mediated nucleotide exchange activity** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Maurer, T., Garrenton, L. S., Oha, A., Pitts, K., Anderson, D. J., Skelton, N. J., Fauber, B. P., Pan, B., Malek, S., Stokoe, D., Ludlam, M. J., Bowman, K. K., Wu, et al
2012; 109 (14): 5299-5304
- **Cilia develop long-lasting contacts, with other cilia.** *Cilia*
Jackson, P. K.
2012; 1 (1): 5-?
- **Cilia - the prodigal organelle.** *Cilia*
Beales, P., Jackson, P. K.

2012; 1 (1): 1-?

- **The STARD9/Kif16a Kinesin Associates with Mitotic Microtubules and Regulates Spindle Pole Assembly** *CELL*
Torres, J. Z., Summers, M. K., Peterson, D., Brauer, M. J., Lee, J., Senese, S., Gholkar, A. A., Lo, Y., Lei, X., Jung, K., Anderson, D. C., Davis, D. P., Belmont, et al
2011; 147 (6): 1309-1323
- **An ARL3-UNC119-RP2 GTPase cycle targets myristoylated NPHP3 to the primary cilium** *GENES & DEVELOPMENT*
Wright, K. J., Baye, L. M., Olivier-Mason, A., Mukhopadhyay, S., Sang, L., Kwong, M., Wang, W., Pretorius, P. R., Sheffield, V. C., Sengupta, P., Slusarski, D. C., Jackson, P. K.
2011; 25 (22): 2347-2360
- **Live-Cell Microscopy Reveals Small Molecule Inhibitor Effects on MAPK Pathway Dynamics** *PLOS ONE*
Anderson, D. J., Durieux, J. K., Song, K., Alvarado, R., Jackson, P. K., Hatzivassiliou, G., Ludlam, M. J.
2011; 6 (8)
- **Deubiquitinase USP37 Is Activated by CDK2 to Antagonize APC(CDH1) and Promote S Phase Entry** *MOLECULAR CELL*
Huang, X., Summers, M. K., Pham, V., Lill, J. R., Liu, J., Lee, G., Kirkpatrick, D. S., Jackson, P. K., Fang, G., Dixit, V. M.
2011; 42 (4): 511-523
- **Mapping the NPHP-JBTS-MKS Protein Network Reveals Ciliopathy Disease Genes and Pathways** *CELL*
Sang, L., Miller, J. J., Corbit, K. C., Giles, R. H., Brauer, M. J., Otto, E. A., Baye, L. M., Wen, X., Scales, S. J., Kwong, M., Huntzicker, E. G., Sfakianos, M. K., Sandoval, et al
2011; 145 (4): 513-528
- **Do cilia put brakes on the cell cycle?** *NATURE CELL BIOLOGY*
Jackson, P. K.
2011; 13 (4): 340-342
- **Sensitivity to antitubulin chemotherapeutics is regulated by MCL1 and FBW7** *NATURE*
Wertz, I. E., Kusam, S., Lam, C., Okamoto, T., Sandoval, W., Anderson, D. J., Helgason, E., Ernst, J. A., Eby, M., Liu, J., Belmont, L. D., Kaminker, J. S., O'Rourke, et al
2011; 471 (7336): 110-114
- **A novel acetylation of beta-tubulin by San modulates microtubule polymerization via down-regulating tubulin incorporation** *MOLECULAR BIOLOGY OF THE CELL*
Chu, C., Hou, F., Zhang, J., Phu, L., Loktev, A. V., Kirkpatrick, D. S., Jackson, P. K., Zhao, Y., Zou, H.
2011; 22 (4): 448-456
- **Primary cilia membrane assembly is initiated by Rab11 and transport protein particle II (TRAPP II) complex-dependent trafficking of Rabin8 to the centrosome** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Westlake, C. J., Baye, L. M., Nachury, M. V., Wright, K. J., Ervin, K. E., Phu, L., Chalouni, C., Beck, J. S., Kirkpatrick, D. S., Slusarski, D. C., Sheffield, V. C., Scheller, R. H., Jackson, et al
2011; 108 (7): 2759-2764
- **The tubby family proteins** *GENOME BIOLOGY*
Mukhopadhyay, S., Jackson, P. K.
2011; 12 (6)
- **TULP3 bridges the IFT-A complex and membrane phosphoinositides to promote trafficking of G protein-coupled receptors into primary cilia** *GENES & DEVELOPMENT*
Mukhopadhyay, S., Wen, X., Chih, B., Nelson, C. D., Lane, W. S., Scales, S. J., Jackson, P. K.
2010; 24 (19): 2180-2193
- **Candidate exome capture identifies mutation of SDCCAG8 as the cause of a retinal-renal ciliopathy** *NATURE GENETICS*
Otto, E. A., Hurd, T. W., Airik, R., Chaki, M., Zhou, W., Stoetzel, C., Patil, S. B., Levy, S., Ghosh, A. K., Murga-Zamalloa, C. A., van Reeuwijk, J., Letteboer, S. J., Sang, et al
2010; 42 (10): 840-?
- **APC/C-Cdc20 targets E2F1 for degradation in prometaphase** *CELL CYCLE*
Peart, M. J., Poyurovsky, M. V., Kass, E. M., Urist, M., Verschuren, E. W., Summers, M. K., Jackson, P. K., Prives, C.

2010; 9 (19): 3956-3964

- **A Chemosensitization Screen Identifies TP53RK, a Kinase that Restrains Apoptosis after Mitotic Stress** *CANCER RESEARCH*
Peterson, D., Lee, J., Lei, X. C., Forrest, W. F., Davis, D. P., Jackson, P. K., Belmont, L. D.
2010; 70 (15): 6325-6335
- **A Specific Form of Phospho Protein Phosphatase 2 Regulates Anaphase-promoting Complex/Cyclosome Association with Spindle Poles** *MOLECULAR BIOLOGY OF THE CELL*
Torres, J. Z., Ban, K. H., Jackson, P. K.
2010; 21 (6): 897-904
- **Individuals with mutations in XPNPEP3, which encodes a mitochondrial protein, develop a nephronophthisis-like nephropathy** *JOURNAL OF CLINICAL INVESTIGATION*
O'Toole, J. F., Liu, Y., Davis, E. E., Westlake, C. J., Attanasio, M., Otto, E. A., Seelow, D., Nurnberg, G., Becker, C., Nuutinen, M., Karppa, M., Ignatius, J., Uusimaa, et al
2010; 120 (3): 791-802
- **Navigating the Deubiquitinating Proteome with a CompPASS** *CELL*
Jackson, P. K.
2009; 138 (2): 222-224
- **High-throughput generation of tagged stable cell lines for proteomic analysis** *PROTEOMICS*
Torres, J. Z., Miller, J. J., Jackson, P. K.
2009; 9 (10): 2888-2891
- **Biochemical analysis of the Anaphase Promoting Complex: activities of E2 enzymes and substrate competitive (pseudosubstrate) inhibitors.** *Methods in molecular biology (Clifton, N.J.)*
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