

Stanford



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ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Hematology & Oncology

PATENTS

- Edward Leof, Mark Wilkes, Claire Repellin, Jeong-Han Kang, Xueqian Yin, Mahefian Andrianifahanana. "United States Patent 62/297,277 Polypeptide Inhibitors of Smad3 Polypeptide Activities", Mayo Clinic and Foundation, Feb 19, 2016
- Edward Leof, Mark Wilkes, Claire Repellin, Jeong-Han Kang, Xueqian Yin, Mahefian Andrianifahanana. "United States Patent 62/295,843 Polypeptide Inhibitors of Smad3 Polypeptide Activities", Mayo Clinic and Foundation, Feb 16, 2016

Publications

PUBLICATIONS

- **MMP9 inhibition increases erythropoiesis in RPS14-deficient del(5q) MDS models through suppression of TGF-beta pathways.** *Blood advances* Youn, M., Huang, H., Chen, C., Kam, S., Wilkes, M. C., Chae, H., Sridhar, K. J., Greenberg, P. L., Glader, B., Narla, A., Lin, S., Sakamoto, K. M. 2019; 3 (18): 2751–63
- **INHIBITION OF NEMO-LIKE KINASE IMPROVES ERYTHROPOIESIS IN MODELS OF DIAMOND BLACKFAN ANEMIA** Takasaki, K., Wilkes, M., Chen, J., Siva, K., Varetto, G., Dever, D., Youn, M., Chae, H., Mercado, J., Saxena, M., Narla, A., Glader, B., Porteus, et al WILEY.2019
- **Pharmacological Inhibition of Nlk (Nemo-like Kinase) Rescues Erythropoietic Defects in Pre-Clinical Models of Diamond Blackfan Anemia** Wilkes, M. C., Chen, J., Siva, K., Veretti, G., Dever, D. P., Youn, M., Chae, H., Mercado, J. D., Saxena, M., Narla, A., Glader, B., Porteus, M., Repellin, et al AMER SOC HEMATOLOGY.2018
- **MMP9 Inhibition Rescues the Erythroid Defect in RPS14-Deficient Del(5q) MDS Models** Youn, M., Huang, H., Chen, C., Kam, S., Wilkes, M. C., Chae, H., Narla, A., Lin, S., Sakamoto, K. M. AMER SOC HEMATOLOGY.2018
- **Chromatin Organization By SATB1 Regulates HSP70 Induction in Early Erythropoiesis and Lost in Diamond Blackfan Anemia** Wilkes, M. C., Takasaki, K., Youn, M., Chae, H., Narla, A., Sakamoto, K. M. AMER SOC HEMATOLOGY.2018
- **Innate immune system activation in zebrafish and cellular models of Diamond Blackfan Anemia** *SCIENTIFIC REPORTS* Danilova, N., Wilkes, M., Bibikova, E., Youn, M., Sakamoto, K. M., Lin, S. 2018; 8: 5165
- **Beyond mRNA: The role of non-coding RNAs in normal and aberrant hematopoiesis.** *Molecular genetics and metabolism* Wilkes, M. C., Repellin, C. E., Sakamoto, K. M. 2017

- **Sorting nexin 9 differentiates ligand-activated Smad3 from Smad2 for nuclear import and transforming growth factor beta signaling** *MOLECULAR BIOLOGY OF THE CELL*
Wilkes, M. C., Repellin, C. E., Kang, J., Andrianifahanana, M., Yin, X., Leof, E. B.
2015; 26 (21): 3879-3891
- **Profibrotic TGF beta responses require the cooperative action of PDGF and ErbB receptor tyrosine kinases** *FASEB JOURNAL*
Andrianifahanana, M., Wilkes, M. C., Gupta, S. K., Rahimi, R. A., Repellin, C. E., Edens, M., Wittenberger, J., Yin, X., Maidl, E., Becker, J., Leof, E. B.
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- **Retromer maintains basolateral distribution of the type II TGF-beta receptor via the recycling endosome** *MOLECULAR BIOLOGY OF THE CELL*
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- **Imatinib mesylate causes genome-wide transcriptional changes in systemic sclerosis fibroblasts in vitro** *CLINICAL AND EXPERIMENTAL RHEUMATOLOGY*
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- **Non-Smad Transforming Growth Factor-beta Signaling Regulated by Focal Adhesion Kinase Binding the p85 Subunit of Phosphatidylinositol 3-Kinase** *JOURNAL OF BIOLOGICAL CHEMISTRY*
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- **A non-Smad mechanism of fibroblast activation by transforming growth factor-beta via c-Abl and Egr-1: selective modulation by imatinib mesylate** *ONCOGENE*
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