

Stanford



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Bio

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

- **Downregulation of SATB1 by miRNAs Reduces Megakaryocyte/Erythroid Progenitor Expansion in pre-clinical models of Diamond Blackfan Anemia** *Experimental Hematology*
Wilkes, M. C., Scanlon, V., Shibuya, A., Cepika, A., Eskin, A., Chen, Z., Narla, A., Glader, B., Roncarolo, M., Nelson, S. F., Sakamoto, K. M.
2022
- **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
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- **Pharmacological Inhibition of Nlk (Nemo-like Kinase) Rescues Erythropoietic Defects in Pre-Clinical Models of Diamond Blackfan Anemia**
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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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Yin, X., Murphy, S. J., Wilkes, M. C., Ji, Y., Leof, E. B.
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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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2011; 286 (20): 17841-17850
- **Type II Transforming Growth Factor-beta Receptor Recycling Is Dependent upon the Clathrin Adaptor Protein Dab2** *MOLECULAR BIOLOGY OF THE CELL*
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Wang, S., Wilkes, M. C., Leof, E. B., Hirschberg, R.
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- **Erbin and the NF2 Tumor Suppressor Merlin Cooperatively Regulate Cell-Type-Specific Activation of PAK2 by TGF-beta** *DEVELOPMENTAL CELL*
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2009; 28 (10): 1285-1297
- **Distinct Roles for Mammalian Target of Rapamycin Complexes in the Fibroblast Response to Transforming Growth Factor-beta** *CANCER RESEARCH*
Rahimi, R. A., Andrianifahanana, M., Wilkes, M. C., Edens, M., Kottom, T. J., Blenis, J., Leof, E. B.
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