

# Stanford

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### Publications

#### PUBLICATIONS

- **Structure of the Wnt-Frizzled-LRP6 initiation complex reveals the basis for coreceptor discrimination.** *Proceedings of the National Academy of Sciences of the United States of America*  
Tsutsumi, N., Hwang, S., Waghray, D., Hansen, S., Jude, K. M., Wang, N., Miao, Y., Glassman, C. R., Caveney, N. A., Janda, C. Y., Hannoush, R. N., Garcia, K. C.  
2023; 120 (11): e2218238120
- **Activation of Wnt/beta-catenin signaling by Zeb1 in endothelial progenitors induces vascular quiescence entry.** *Cell reports*  
Yu, Q. C., Geng, A., Preusch, C. B., Chen, Y., Peng, G., Xu, Y., Jia, Y., Miao, Y., Xue, H., Gao, D., Bao, L., Pan, W., Chen, et al  
2022; 41 (8): 111694
- **Biofunctional Nanodot Arrays in Living Cells Uncover Synergistic Co-Condensation of Wnt Signalodroplets.** *Small (Weinheim an der Bergstrasse, Germany)*  
Philippi, M., Richter, C. P., Kappen, M., Watrinet, I., Miao, Y., Runge, M., Jorde, L., Korneev, S., Holtmannspotter, M., Kurre, R., Holthuis, J. C., Garcia, K. C., Pluckthun, et al  
2022; e2203723
- **Mesenchymal-epithelial crosstalk shapes intestinal regionalisation via Wnt and Shh signalling.** *Nature communications*  
Maimets, M., Pedersen, M. T., Guiu, J., Dreier, J., Thodberg, M., Antoku, Y., Schweiger, P. J., Rib, L., Bressan, R. B., Miao, Y., Garcia, K. C., Sandelin, A., Serup, et al  
2022; 13 (1): 715
- **RTN4/NoGo-receptor binding to BAI adhesion-GPCRs regulates neuronal development.** *Cell*  
Wang, J., Miao, Y., Wicklein, R., Sun, Z., Wang, J., Jude, K. M., Fernandes, R. A., Merrill, S. A., Wernig, M., Garcia, K. C., Sudhof, T. C.  
2021
- **Surrogate R-spondins for tissue-specific potentiation of Wnt Signaling.** *PloS one*  
Luca, V. C., Miao, Y. n., Li, X. n., Hollander, M. J., Kuo, C. J., Garcia, K. C.  
2020; 15 (1): e0226928
- **Structure of human Frizzled5 by fiducial-assisted cryo-EM supports a heterodimeric mechanism of canonical Wnt signaling.** *eLife*  
Tsutsumi, N. n., Mukherjee, S. n., Waghray, D. n., Janda, C. Y., Jude, K. M., Miao, Y. n., Burg, J. S., Aduri, N. G., Kossiakoff, A. A., Gati, C. n., Garcia, K. C.  
2020; 9
- **Mutational signature in colorectal cancer caused by genotoxic pks+ E. coli.** *Nature*  
Pleguezuelos-Manzano, C. n., Puschhof, J. n., Huber, A. R., van Hoeck, A. n., Wood, H. M., Nomburg, J. n., Gurjao, C. n., Manders, F. n., Dalmasso, G. n., Stege, P. B., Paganelli, F. L., Geurts, M. H., Beumer, et al  
2020
- **Next-Generation Surrogate Wnts Support Organoid Growth and Deconvolute Frizzled Pleiotropy In Vivo.** *Cell stem cell*  
Miao, Y. n., Ha, A. n., de Lau, W. n., Yuki, K. n., Santos, A. J., You, C. n., Geurts, M. H., Puschhof, J. n., Pleguezuelos-Manzano, C. n., Peng, W. C., Senlice, R. n., Piani, C. n., Buikema, et al  
2020
- **Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes.** *Cell stem cell*  
Buikema, J. W., Lee, S. n., Goodyer, W. R., Maas, R. G., Chirikian, O. n., Li, G. n., Miao, Y. n., Paige, S. L., Lee, D. n., Wu, H. n., Paik, D. T., Rhee, S. n., Tian, et al

2020; 27 (1): 50–63.e5

● **Receptor subtype discrimination using extensive shape complementary designed interfaces** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*

Dang, L. T., Miao, Y., Ha, A., Yuki, K., Park, K., Janda, C. Y., Jude, K. M., Mohan, K., Ha, N., Vallon, M., Yuan, J., Vilches-Moure, J. G., Kuo, et al 2019; 26 (6): 407-+

● **Topological control of cytokine receptor signaling induces differential effects in hematopoiesis.** *Science (New York, N.Y.)*

Mohan, K., Ueda, G., Kim, A. R., Jude, K. M., Fallas, J. A., Guo, Y., Hafer, M., Miao, Y., Saxton, R. A., Piehler, J., Sankaran, V. G., Baker, D., Garcia, et al 2019; 364 (6442)

● **RasGRP1 is a potential biomarker to stratify anti-EGFR therapy response in colorectal cancer.** *JCI insight*

Gbenedio, O. M., Bonnans, C. n., Grun, D. n., Wang, C. Y., Hatch, A. J., Mahoney, M. R., Barras, D. n., Matli, M. n., Miao, Y. n., Garcia, K. C., Tejpar, S. n., Delorenzi, M. n., Venook, et al 2019; 5

● **A RECK-WNT7 Receptor-Ligand Interaction Enables Isoform-Specific Regulation of Wnt Bioavailability.** *Cell reports*

Vallon, M., Yuki, K., Nguyen, T. D., Chang, J., Yuan, J., Siepe, D., Miao, Y., Essler, M., Noda, M., Garcia, K. C., Kuo, C. J. 2018; 25 (2): 339

● **Structural and In Vivo Studies on Trehalose-6-Phosphate Synthase from Pathogenic Fungi Provide Insights into Its Catalytic Mechanism, Biological Necessity, and Potential for Novel Antifungal Drug Design** *MBIO*

Miao, Y., Tenor, J. L., Toffaletti, D. L., Maskarinec, S. A., Liu, J., Lee, R. E., Perfect, J. R., Brennan, R. G. 2017; 8 (4)

● **Trehalose pathway as an antifungal target** *VIRULENCE*

Perfect, J. R., Tenor, J. L., Miao, Y., Brennan, R. G. 2017; 8 (2): 143-149

● **Structures of trehalose-6-phosphate phosphatase from pathogenic fungi reveal the mechanisms of substrate recognition and catalysis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Miao, Y., Tenor, J. L., Toffaletti, D. L., Washington, E. J., Liu, J., Shadrick, W. R., Schumacher, M. A., Lee, R. E., Perfect, J. R., Brennan, R. G. 2016; 113 (26): 7148-7153

● **Structures of EV71 RNA-dependent RNA polymerase in complex with substrate and analogue provide a drug target against the hand-foot-and-mouth disease pandemic in China** *PROTEIN & CELL*

Wu, Y., Lou, Z., Miao, Y., Yu, Y., Dong, H., Peng, W., Bartlam, M., Li, X., Rao, Z. 2010; 1 (5): 491-500