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Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

Publications

PUBLICATIONS

- **The G1-S transition is promoted by Rb degradation via the E3 ligase UBR5.** *Science advances*
Zhang, S., Valenzuela, L. F., Zatulovskiy, E., Mangiante, L., Curtis, C., Skotheim, J. M.
2024; 10 (43): eadq6858
- **Genome dilution by cell growth drives starvation-like proteome remodeling in mammalian and yeast cells.** *Nature structural & molecular biology*
Lanz, M. C., Zhang, S., Swaffer, M. P., Ziv, I., Gotz, L. H., Kim, J., McCarthy, F., Jarosz, D. F., Elias, J. E., Skotheim, J. M.
2024
- **The G1/S transition is promoted by Rb degradation via the E3 ligase UBR5.** *bioRxiv : the preprint server for biology*
Zhang, S., Valenzuela, L. F., Zatulovskiy, E., Skotheim, J. M.
2023
- **Increasing cell size remodels the proteome and promotes senescence.** *Molecular cell*
Lanz, M. C., Zatulovskiy, E., Swaffer, M. P., Zhang, S., Ilertten, I., Zhang, S., You, D. S., Marinov, G., McAlpine, P., Elias, J. E., Skotheim, J. M.
2022
- **The cell cycle inhibitor RB is diluted in G1 and contributes to controlling cell size in the mouse liver.** *Frontiers in cell and developmental biology*
Zhang, S., Zatulovskiy, E., Arand, J., Sage, J., Skotheim, J. M.
2022; 10: 965595
- **Delineation of proteome changes driven by cell size and growth rate.** *Frontiers in cell and developmental biology*
Zatulovskiy, E., Lanz, M. C., Zhang, S., McCarthy, F., Elias, J. E., Skotheim, J. M.
2022; 10: 980721
- **RB depletion is required for the continuous growth of tumors initiated by loss of RB.** *PLoS genetics*
Doan, A., Arand, J., Gong, D., Drainas, A. P., Shue, Y. T., Lee, M. C., Zhang, S., Walter, D. M., Chaikovskiy, A. C., Feldser, D. M., Vogel, H., Dow, L. E., Skotheim, et al
2021; 17 (12): e1009941
- **Cell growth dilutes the cell cycle inhibitor Rb to trigger cell division.** *Science (New York, N.Y.)*
Zatulovskiy, E., Zhang, S., Berenson, D. F., Topacio, B. R., Skotheim, J. M.
2020; 369 (6502): 466–71
- **Mice With Increased Numbers of Polyploid Hepatocytes Maintain Regenerative Capacity But Develop Fewer Hepatocellular Carcinomas Following Chronic Liver Injury** *GASTROENTEROLOGY*
Lin, Y., Zhang, S., Zhu, M., Lu, T., Chen, K., Wen, Z., Wang, S., Xiao, G., Luo, D., Jia, Y., Li, L., MacConmara, M., Hoshida, et al
2020; 158 (6): 1698-+

- **SWI/SNF component ARID1A restrains pancreatic neoplasia formation** *GUT*

Wang, S. C., Nassour, I., Xiao, S., Zhang, S., Luo, X., Lee, J., Li, L., Sun, X., Nguyen, L. H., Chuang, J., Peng, L., Daigle, S., Shen, et al
2019; 68 (7): 1259–70

- **Suppression of the SWI/SNF Component Arid1a Promotes Mammalian Regeneration.** *Cell stem cell*

Sun, X., Chuang, J. C., Kanchwala, M., Wu, L., Celen, C., Li, L., Liang, H., Zhang, S., Maples, T., Nguyen, L. H., Wang, S. C., Signer, R. A., Sorouri, et al
2016; 18 (4): 456-66