Stanford

Ke Ding

Postdoctoral Scholar, Stem Cell Biology and Regenerative Medicine

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- School of Medicine Dean's Postdoctoral Fellowship, Stanford University (2022)
- DiGenova Postdoc Seed Grant, Stanford University (2021)
- Dissertation Year Fellowship, UCLA (2017)
- Whitcome Fellow, UCLA (2015 - 2016)
- Bioengineering Department Fellowship, UCLA (2013)
- Panasonic Scholarship, Peking University (2010)
- Kwang-Hua Scholarship, Peking University (2008)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Los Angeles (2019)
- Ph.D., University of California, Los Angeles , Bioengineering (2019)
- M.S., University of California, Los Angeles , Mechanical Engineering (2013)
- B.S., Peking University , Electrical Engineering and Computer Science (2011)

STANFORD ADVISORS

- Philip Beachy, Postdoctoral Faculty Sponsor
- Philip Beachy, Postdoctoral Research Mentor

PATENTS

- Otto O. Yang, Ke Ding, Jan Mrazek, Z. Hong Zhou. "United States Patent 20200255488A1 Vault Particles Having a Modified R8 Flexible Region", University of California, Aug 13, 2020

LINKS

- Google Scholar: https://scholar.google.com/citations?hl=en&user=-FB0uBMAAAAJ
- ORCID: https://orcid.org/0000-0002-0115-5931

Publications

PUBLICATIONS

- **Dispatched uses Na+ flux to power release of lipid-modified Hedgehog.** *Nature*
  Wang, Q., Asarnow, D. E., Ding, K., Mann, R. K., Hatakeyama, J., Zhang, Y., Ma, Y., Cheng, Y., Beachy, P. A.
  2021

- **Action of a minimal contractile bactericidal nanomachine** *NATURE*
  Ge, P., Scholl, D., Prokhorov, N. S., Avaylon, J., Shneider, M. M., Browning, C., Buth, S. A., Plattner, M., Chakraborty, U., Ding, K., Leiman, P. G., Miller, J. F., Zhou, et al
  2020; 580 (7805): 658-+
- **In situ structures of RNA-dependent RNA polymerase inside bluetongue virus before and after uncoating** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  He, Y., Shivakoti, S., Ding, K., Cui, Y., Roy, P., Zhou, Z.
  2019; 116 (33): 16535–40
- **In situ structures of rotavirus polymerase in action and mechanism of mRNA transcription and release** *NATURE COMMUNICATIONS*
  Ding, K., Celma, C. C., Zhang, X., Chang, T., Shen, W., Atanasov, I., Roy, P., Zhou, Z.
  2019; 10: 2216
- **In Situ Structures of the Polymerase Complex and RNA Genome Show How Aquareovirus Transcription Machineries Respond to Uncoating** *JOURNAL OF VIROLOGY*
  Ding, K., Nguyen, L., Zhou, Z.
  2018; 92 (21)
- **Solution Structures of Engineered Vault Particles** *STRUCTURE*
  Ding, K., Zhang, X., Mrazek, J., Kickhoefer, V. A., Lai, M., Ng, H. L., Yang, O. O., Rome, L. H., Zhou, Z.
  2018; 26 (4): 619-+
- **Engineering A11 Minibody-Conjugated, Polypeptide-Based Gold Nanoshells for Prostate Stem Cell Antigen (PSCA)-Targeted Photothermal Therapy** *SLAS TECHNOLOGY*
  Mayle, K. M., Dern, K. R., Wong, V. K., Chen, K. Y., Sung, S., Ding, K., Rodriguez, A. R., Knowles, S., Taylor, Z., Zhou, Z., Grundfest, W. S., Wu, A. M., Deming, et al
  2017; 22 (1): 26–35
- **Polypeptide-Based Gold Nanoshells for Photothermal Therapy** *SLAS TECHNOLOGY*
  Mayle, K. M., Dern, K. R., Wong, V. K., Sung, S., Ding, K., Rodriguez, A. R., Taylor, Z., Zhou, Z., Grundfest, W. S., Deming, T. J., Kamei, D. T.
  2017; 22 (1): 18–25
- **Structures and stabilization of kinetoplastid-specific split rRNAs revealed by comparing leishmanial and human ribosomes** *NATURE COMMUNICATIONS*
  Zhang, X., Lai, M., Chang, W., Yu, I., Ding, K., Mrazek, J., Ng, H. L., Yang, O. O., Maslov, D. A., Zhou, Z.
  2016; 7: 13223
- **In situ structures of the segmented genome and RNA polymerase complex inside a dsRNA virus** *NATURE*
  Zhang, X., Ding, K., Yu, X., Chang, W., Sun, J., Zhou, Z.
  2015; 527 (7579): 531-+