Stanford

Dan Su

Postdoctoral Scholar, Pulmonary and Critical Care Medicine

Bio

HONORS AND AWARDS

- Outstanding Undergraduate Thesis Award, College of Biological Science, China Agricultural University (2017)
- ADA Poster/Table Clinic Competition, Iowa Section of American Association for Dental Research (2020)
- Graduate College Post-Comprehensive Research Fellowship, University of Iowa (2020)
- Student Travel Award, American Association for Anatomy at Experimental Biology (2022)
- Tung-Yang Wing Award for Superior Achievement in Anatomy Graduate Education, Department of Anatomy and Cell Biology, University of Iowa (2023)

PROFESSIONAL EDUCATION

- B.S., China Agricultural University , Life Sciences (2017)
- Ph.D., University of Iowa , Cell and Developmental Biology (2023)

STANFORD ADVISORS

- Tushar Desai, Postdoctoral Faculty Sponsor
- Tushar Desai, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Inhibition of craniosynostosis and premature suture fusion in Twist1 mutant mice with RNA nanoparticle gene therapy.** *Science advances*
  Swearson, S., Eliason, S., Su, D., Rice, K. G., Amendt, B. A.
  2025; 11 (34): eadx9763
- **ORGANIZATION OF HUMAN STEM CELL-DERIVED VASCULAR PROGENITORS INTO VASCULAR NETWORKS**
  Chen, B., Kim, K., Wen, Y., Huyan, C., Sinha, M., Su, D., Ang, L., Dunn, A., Mole, M.
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- **Irx1 mechanisms for oral epithelial basal stem cell plasticity during reepithelialization after injury.** *JCI insight*
  Su, D., Krongbaramee, T., Swearson, S., Sweat, Y., Sweat, M., Shao, F., Eliason, S., Amendt, B. A.
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- **Tbr2-dependent parallel pathways for Opn4 expression in distinct ipRGC subtypes**
  Kiyama, T., Chen, C., Allay, H. Y., Su, D., Eliason, S., Amendt, B. A., Mao, C.
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- **Wolf-Hirschhorn syndrome candidate 1 (Whsc1) methyltransferase signals via a Pitx2-miR-23/24 axis to effect tooth development** *JOURNAL OF BIOLOGICAL CHEMISTRY*

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- **Role of Tbr2-Irx1 transcription cascade in the development of ipRGC subtypes**
  Kiyama, T., Chen, C., Su, D., Eliason, S., Amendt, B., Mao, C.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Exploring microRNAs in craniofacial regenerative medicine** *BIOCHEMICAL SOCIETY TRANSACTIONS*
  Su, D., Swearson, S., Krongbaramee, T., Sun, H., Hong, L., Amendt, B. A.
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- **Exploring craniofacial and dental development with microRNAs.** *Biochemical Society transactions*
  Su, D., Krongbaramee, T., Sun, H., Hong, L., Amendt, B. A.
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- **HMGN2 represses gene transcription via interaction with transcription factors Lef-1 and Pitx2 during amelogenesis.** *The Journal of biological chemistry*
  Eliason, S., Su, D., Pinho, F., Sun, Z., Zhang, Z., Li, X., Sweat, M., Venugopalan, S. R., He, B., Bustin, M., Amendt, B. A.
  2022; 298 (9): 102295
- **The miR-200 family regulates the epithelial stem cell niche during craniofacial and dental development**
  Amendt, B. A., Leonard, R. J., Su, D., Eliason, S. L.
  WILEY.2022
- **Co-opting Lef-1 and miR-26bactivities to regulate dental epithelial stem cells and supporting**
  Su, D., Eliason, S., Leonard, R., Shao, F., Amendt, B.
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- **HMGN2 regulates transcription factor activity through chromatin modifications and protein interactions, developmentally modulated by microRNA-23**
  Amendt, B. A., Eliason, S., Su, D.
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- **miR-17 acts as a tumor suppressor by negatively regulating the miR-17-92 cluster.** *Molecular therapy. Nucleic acids*
  Sweat, Y., Ries, R. J., Sweat, M., Su, D., Shao, F., Eliason, S., Amendt, B. A.
  2021; 26: 1148-1158
- **A putative long noncoding RNA-encoded micropeptide maintains cellular homeostasis in pancreatic β cells.** *Molecular therapy. Nucleic acids*
  Li, M., Shao, F., Qian, Q., Yu, W., Zhang, Z., Chen, B., Su, D., Guo, Y., Phan, A. V., Song, L. S., Stephens, S. B., Sebag, J., Imai, et al
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- **The miR-200 family is required for ectodermal organ development through the regulation of the epithelial stem cell niche.** *Stem cells (Dayton, Ohio)*
  Sweat, M., Sweat, Y., Yu, W., Su, D., Leonard, R. J., Eliason, S. L., Amendt, B. A.
  2021; 39 (6): 761-775
- **Plasmid encoding microRNA-200c ameliorates periodontitis and systemic inflammation in obese mice.** *Molecular therapy. Nucleic acids*
  Krongbaramee, T., Zhu, M., Qian, Q., Zhang, Z., Eliason, S., Shu, Y., Qian, F., Akkouch, A., Su, D., Amendt, B. A., Yang, L., Hong, L.
  2021; 23: 1204-1216
- **Mushroom lectin overcomes hepatitis B virus tolerance via TLR6 signaling.** *Scientific reports*
  He, M., Su, D., Liu, Q., Gao, W., Kang, Y.
  2017; 7 (1): 5814