

Stanford



Sharon Paige

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CLINICAL OFFICES

- **Pediatric Cardiology - CVICU**

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Bio

CLINICAL FOCUS

- Pediatric Cardiology

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Residency: Stanford Health Care at Lucile Packard Children's Hospital (2015) CA
- Fellowship: Stanford University Pediatric Cardiology Fellowship (2019) CA
- Board Certification: Pediatrics, American Board of Pediatrics (2016)
- Medical Education: University of Washington School of Medicine (2013) WA

Publications

PUBLICATIONS

- **Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome.** *Circulation*
Paige, S. L., Galdos, F. X., Lee, S., Chin, E. T., Ranjbarvaziri, S., Feyen, D. A., Darsha, A. K., Xu, S., Ryan, J. A., Beck, A. L., Qureshi, M. Y., Miao, Y., Gu, et al
2020; 142 (16): 1605–8
- **Cardiac involvement in classical or hypermobile Ehlers-Danlos syndrome is uncommon.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Paige, S. L., Lechich, K. M., Tierney, E. S., Collins, R. T.
2020
- **Risk factors associated with the development of double-inlet ventricle congenital heart disease** *BIRTH DEFECTS RESEARCH*
Paige, S. L., Yang, W., Priest, J. R., Botto, L. D., Shaw, G. M., Collins, R., Natl Birth Defects Prevention
2019; 111 (11): 640–48
- **Beyond Gene Panels: Whole Exome Sequencing for Diagnosis of Congenital Heart Disease.** *Circulation. Genomic and precision medicine*
Paige, S. L., Saha, P. n., Priest, J. R.

2018; 11 (3): e002097

- **A Temporal Chromatin Signature in Human Embryonic Stem Cells Identifies Regulators of Cardiac Development** *CELL*
Paige, S. L., Thomas, S., Stoick-Cooper, C. L., Wang, H., Maves, L., Sandstrom, R., Pabon, L., Reinecke, H., Pratt, G., Keller, G., Moon, R. T., Stamatooyannopoulos, J., Murry, et al
2012; 151 (1): 221-232
- **Endogenous Wnt/beta-Catenin Signaling Is Required for Cardiac Differentiation in Human Embryonic Stem Cells** *PLOS ONE*
Paige, S. L., Oslugi, T., Afanasiev, O. K., Pabon, L., Reinecke, H., Murry, C. E.
2010; 5 (6)
- **Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome.** *Circulation*
Krane, M., DreSSen, M., Santamaria, G., My, I., Schneider, C. M., Dorn, T., Laue, S., Mastantuono, E., Berutti, R., Rawat, H., Gilsbach, R., Schneider, P., Lahm, et al
2021; 144 (17): 1409-1428
- **CRISPR/Cas9-based targeting of fluorescent reporters to human iPSCs to isolate atrial and ventricular-specific cardiomyocytes.** *Scientific reports*
Chirikian, O., Goodyer, W. R., Dzilic, E., Serpooshan, V., Buikema, J. W., McKeithan, W., Wu, H., Li, G., Lee, S., Merk, M., Galdos, F., Beck, A., Ribeiro, et al
2021; 11 (1): 3026
- **Purification of Pluripotent Stem Cell-Derived Cardiomyocytes Using CRISPR/Cas9-Mediated Integration of Fluorescent Reporters.** *Methods in molecular biology (Clifton, N.J.)*
Galdos, F. X., Darsha, A. K., Paige, S. L., Wu, S. M.
2021; 2158: 223-40
- **4HNE Impairs Myocardial Bioenergetics in Congenital Heart Disease-Induced Right Ventricular Failure.** *Circulation*
Hwang, H. V., Sandeep, N., Paige, S. L., Ranjbarvaziri, S., Hu, D., Zhao, M., Lan, I. S., Coronado, M., Kooiker, K. B., Wu, S. M., Fajardo, G., Bernstein, D., Reddy, et al
2020
- **Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome.** *Cell stem cell*
Miao, Y., Tian, L., Martin, M., Paige, S. L., Galdos, F. X., Li, J., Klein, A., Zhang, H., Ma, N., Wei, Y., Stewart, M., Lee, S., Moonen, 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
- **Multi-disciplinary evaluation of a 5-month-old with hypertrophic cardiomyopathy related to a functional adrenocortical tumor** *JOURNAL OF PEDIATRIC ENDOCRINOLOGY & METABOLISM*
Nally, L. M., Conner, E., Paige, S., Mooney, K. L., Naber, U., Richards, R., Wright, G.
2018; 31 (12): 1371-76
- **Cardiac Regeneration Lessons From Development** *CIRCULATION RESEARCH*
Galdos, F. X., Guo, Y., Paige, S. L., VanDusen, N. J., Wu, S. M., Pu, W. T.
2017; 120 (6): 941-959
- **Nkx2.5+ Cardiomyoblasts Contribute to Cardiomyogenesis in the Neonatal Heart.** *Scientific reports*
Serpooshan, V. n., Liu, Y. H., Buikema, J. W., Galdos, F. X., Chirikian, O. n., Paige, S. n., Venkatraman, S. n., Kumar, A. n., Rawnsley, D. R., Huang, X. n., Pijnappels, D. A., Wu, S. M.
2017; 7 (1): 12590
- **Comparison of Human Embryonic Stem Cell-Derived Cardiomyocytes, Cardiovascular Progenitors, and Bone Marrow Mononuclear Cells for Cardiac Repair** *STEM CELL REPORTS*
Fernandes, S., Chong, J. J., Paige, S. L., Iwata, M., Torok-Storb, B., Keller, G., Reinecke, H., Murry, C. E.
2015; 5 (5): 753-762
- **Mechanical Stress Promotes Maturation of Human Myocardium From Pluripotent Stem Cell-Derived Progenitors** *STEM CELLS*
Ruan, J., Tulloch, N. L., Saiget, M., Paige, S. L., Razumova, M. V., Regnier, M., Tung, K. C., Keller, G., Pabon, L., Reinecke, H., Murry, C. E.

2015; 33 (7): 2148-2157

● **Molecular Regulation of Cardiomyocyte Differentiation** *CIRCULATION RESEARCH*

Paige, S. L., Plonowska, K., Xu, A., Wu, S. M.

2015; 116 (2): 341-353

● **Engineered Biomaterials Control Differentiation and Proliferation of Human-Embryonic-Stem-Cell-Derived Cardiomyocytes via Timed Notch Activation** *STEM CELL REPORTS*

Tung, J. C., Paige, S. L., Ratner, B. D., Murry, C. E., Giachelli, C. M.

2014; 2 (3): 271-281

● **Transmembrane protein 88: a Wnt regulatory protein that specifies cardiomyocyte development** *DEVELOPMENT*

Palpant, N. J., Pabon, L., Rabinowitz, J. S., Hadland, B. K., Stoick-Cooper, C. L., Paige, S. L., Bernstein, I. D., Moon, R. T., Murry, C. E.

2013; 140 (18): 3799-3808

● **Developmental Fate and Cellular Maturity Encoded in Human Regulatory DNA Landscapes** *CELL*

Stergachis, A. B., Neph, S., Reynolds, A., Humbert, R., Miller, B., Paige, S. L., Vernot, B., Cheng, J. B., Thurman, R. E., Sandstrom, R., Haugen, E., Heimfeld, S., Murry, et al

2013; 154 (4): 888-903

● **Cardiogenesis From Human Embryonic Stem Cells - Mechanisms and Applications** *CIRCULATION JOURNAL*

Mignone, J. L., Kreuziger, K. L., Paige, S. L., Murry, C. E.

2010; 74 (12): 2517-2526

● **Chromatin remodeling during mouse and human embryonic stem cell differentiation** *DEVELOPMENTAL DYNAMICS*

Golob, J. L., Paige, S. L., Muskheli, V., Pabon, L., Murry, C. E.

2008; 237 (5): 1389-1398