

# Stanford

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## William Rowland Goodyer, MD/ PhD

Assistant Professor of Pediatrics (Cardiology)  
Pediatrics - Cardiology

### CLINICAL OFFICES

- **Office of Student Affairs**

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### Bio

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### CLINICAL FOCUS

- Pediatric Cardiology
- Pediatric Electrophysiology
- Inherited Arrhythmias

### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Pediatrics - Cardiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

### PROFESSIONAL EDUCATION

- Board Certification: Pediatrics, American Board of Pediatrics (2016)
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2020)
- Fellowship: Lucile Packard Childrens Hospital Advanced Cardiology Fellowships (2020) CA
- Medical Education: Stanford University School of Medicine (2013) CA
- MD, Stanford University School of Medicine , Medicine (MSTP Program) (2013)
- PhD, Stanford University School of Medicine , Developmental Biology (MSTP Program) (2013)
- Residency: Boston Childrens Hospital Pediatric Residency (2015) MA

- Fellowship: Stanford University Pediatric Cardiology Fellowship (2019) CA
- Peds EP Fellowship, Lucille Packard Children's Hospital , Pediatric Electrophysiology (2020)

## Publications

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### PUBLICATIONS

- **devCellPy is a machine learning-enabled pipeline for automated annotation of complex multilayered single-cell transcriptomic data.** *Nature communications*  
Galdos, F. X., Xu, S., Goodyer, W. R., Duan, L., Huang, Y. V., Lee, S., Zhu, H., Lee, C., Wei, N., Lee, D., Wu, S. M.  
2022; 13 (1): 5271
- **In vivo visualization and molecular targeting of the cardiac conduction system.** *The Journal of clinical investigation*  
Goodyer, W. R., Beyersdorf, B. M., Duan, L., van den Berg, N. S., Mantri, S., Galdos, F. X., Puluca, N., Buikema, J. W., Lee, S., Salmi, D., Robinson, E. R., Rogalla, S., Cogan, et al  
2022
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*  
Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al  
2022; 376 (6594): eabl4896
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*  
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al  
2022
- **VENTRICULAR ARRHYTHMIAS FOLLOWING TRANSCATHETER PULMONARY VALVE REPLACEMENT WITH THE HARMONY(C) TPV 25 DEVICE**  
Taylor, A., Yang, J., Dubin, A., Chubb, M., Motonaga, K., Goodyer, W., Giaccone, H., Peng, L. F., Romfh, A. W., McElhinney, D. B., Ceresnak, S. R.  
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- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*  
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al  
2022
- **Implantable Cardioverter Defibrillators in Infants and Toddlers: Indications, Placement, Programming, and Outcomes.** *Circulation. Arrhythmia and electrophysiology*  
Zahedivash, A., Hanisch, D., Dubin, A. M., Trela, A., Chubb, H., Motonaga, K., Goodyer, W., Maeda, K., Reinhartz, O., Ma, M., Martin, E., Ceresnak, S.  
2022: CIRCEP121010557
- **Identifying an Appropriate Endpoint for Cryoablation in Children with Atrioventricular Nodal Reentry Tachycardia: Is Residual Slow Pathway Conduction Associated with Recurrence?** *Heart rhythm*  
Zook, N., DeBruler, K., Ceresnak, S., Motonaga, K., Goodyer, W., Trela, A., Dubin, A., Chubb, H.  
2021
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*  
Olivieri, J., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.  
2021; 10
- **Molecular Profiling of the Cardiac Conduction System: the Dawn of a New Era.** *Current cardiology reports*  
Mantri, S., Wu, S. M., Goodyer, W. R.  
2021; 23 (8): 103
- **IMPLANTABLE CARDIOVERTER-DEFIBRILLATORS IN INFANTS AND TODDLERS: INDICATIONS, PLACEMENT, PROGRAMMING AND OUTCOMES**  
Zahedivash, A., Hanisch, D., Dubin, A. M., Trela, A. V., Chubb, H., Motonaga, K., Goodyer, W., Maeda, K., Reinhartz, O., Ceresnak, S.  
ELSEVIER SCIENCE INC.2021: 470

- **Massive expansion and cryopreservation of functional human induced pluripotent stem cell-derived cardiomyocytes.** *STAR protocols*  
Maas, R. G., Lee, S., Harakalova, M., Snijders Blok, C. J., Goodyer, W. R., Hjortnaes, J., Doevendans, P. A., Van Laake, L. W., van der Velden, J., Asselbergs, F. W., Wu, J. C., Sluijter, J. P., Wu, et al  
2021; 2 (1): 100334
- **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
- **Pectoral Nerve Blocks Decrease Postoperative Pain and Opioid Use After Pacemaker or Implantable Cardioverter-Defibrillator Placement in Children.** *Heart rhythm*  
Yang, J. K., Char, D. S., Motonaga, K. S., Navaratnam, M., Dubin, A. M., Trela, A., Hanisch, D. G., McFadyen, G., Chubb, H., Goodyer, W., Ceresnak, S. R.  
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
- **Broad Genetic Testing in a Clinical Setting Uncovers a High Prevalence of Titin Loss-of-Function Variants in Very Early-Onset Atrial Fibrillation.** *Circulation. Genomic and precision medicine*  
Goodyer, W. R., Dunn, K., Caleshu, C., Jackson, M., Wylie, J., Moscarello, T., Platt, J., Reuter, C., Smith, A., Trela, A., Ceresnak, S. R., Motonaga, K. S., Ashley, et al  
2019
- **Outcomes After Aortopulmonary Window for Hypoplastic Pulmonary Arteries and Dual-Supply Collaterals** *ANNALS OF THORACIC SURGERY*  
Bauser-Heaton, H., Ma, M., McElhinney, D. B., Goodyer, W. R., Zhang, Y., Chan, F. P., Asija, R., Shek, J., Wise-Faberowski, L., Hanley, F. L.  
2019; 108 (3): 820–27
- **Transcriptomic Profiling of the Developing Cardiac Conduction System at Single-Cell Resolution.** *Circulation research*  
Goodyer, W. R., Beyersdorf, B., Paik, D. T., Tian, L., Li, G., Buikema, J. W., Chirikian, O., Choi, S., Venkatraman, S., Adams, E. L., Tessier-Lavigne, M., Wu, J. C., Wu, et al  
2019
- **Single cell expression analysis reveals anatomical and cell cycle-dependent transcriptional shifts during heart development.** *Development (Cambridge, England)*  
Li, G., Tian, L., Goodyer, W., Kort, E. J., Buikema, J. W., Xu, A., Wu, J., Jovinge, S., Wu, S. M.  
2019
- **Outcomes After Aortopulmonary Window for Hypoplastic Pulmonary Arteries and Dual-Supply Collaterals.** *The Annals of thoracic surgery*  
Bauser-Heaton, H., Ma, M., McElhinney, D. B., Goodyer, W. R., Zhang, Y., Chan, F. P., Asija, R., Shek, J., Wise-Faberowski, L., Hanley, F. L.  
2019
- **Swinging beats: transient heart block in cardiac lymphoma** *NETHERLANDS HEART JOURNAL*  
Buikema, J. W., Goodyer, W. R., Koudstaal, S., van't Sant, J., Verheggen, P. W., de Vrey, E. A., de Smet, B. J.  
2018; 26 (9): 467–68
- **Fates Aligned: Origins and Mechanisms of Ventricular Conduction System and Ventricular Wall Development.** *Pediatric cardiology*  
Goodyer, W. R., Wu, S. M.  
2018
- **Neonatal beta Cell Development in Mice and Humans Is Regulated by Calcineurin/NFAT** *DEVELOPMENTAL CELL*  
Goodyer, W. R., Gu, X., Liu, Y., Bottino, R., Crabtree, G. R., Kim, S. K.  
2012; 23 (1): 21-34
- **Deconstructing Pancreas Developmental Biology** *COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY*  
Benitez, C. M., Goodyer, W. R., Kim, S. K.  
2012; 4 (6)
- **HTP-3 links DSB formation with homolog pairing and crossing over during C. elegans meiosis** *DEVELOPMENTAL CELL*

Goodyer, W., Kaitna, S., Couteau, F., Ward, J. D., Boulton, S. J., Zetka, M.  
2008; 14 (2): 263-274

- **Social learning and innovation are positively correlated in pigeons (*Columba livia*)** *ANIMAL COGNITION*

Bouchard, J., Goodyer, W., Lefebvre, L.  
2007; 10 (2): 259-266

- **Finding and keeping your partner during meiosis** *CELL CYCLE*

Couteau, F., Goodyer, W., Zetka, M.  
2004; 3 (8): 1014-1016