

## Brendan Floyd

- Affiliate, Department Funds
- Fellow in Pediatrics - Cardiology

### Bio

---

#### CLINICAL FOCUS

- Cardiology
- Cardiomyopathies
- Genetics, Medical
- Fellow

#### INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

#### PROFESSIONAL EDUCATION

- Board Certification, American Board of Pediatrics (2024)
- MD, University of Wisconsin-Madison (2017)
- PhD, University of Wisconsin-Madison , Biochemistry (2015)
- MEd, University of Notre Dame , Secondary Education (2008)
- BS, University of Notre Dame , Biochemistry (2006)

### Publications

---

#### PUBLICATIONS

- **RBM20 Truncating Variants and Human Cardiomyopathy.** *JAMA cardiology*  
Floyd, B. J., Njoroge, J. N., Krysov, V. A., Gomes, B., Murtha, R., Aribeara, C., Cannie, D., Smith, E., Paldino, A., Brown, E. E., Barth, A., Ilhan, E., Johnson, et al  
2026
- **Multiparametric Assessment of TNNI3 Variant Phenotypes in Human iPSC-Cardiomyocytes Correlates with Disease Severity in Patients.** *bioRxiv : the preprint server for biology*  
Staudt, D. W., Tran, P. P., Floyd, B. J., Dunn, K., Han, D., Carhuamaca, X., Serrano, R., Hnatiuk, A. P., Bang, S., Parikh, V. N., Ashley, E. A., Mercola, M.  
2025
- **Scaled multidimensional assays of variant effect identify sequence-function relationships in hypertrophic cardiomyopathy.** *bioRxiv : the preprint server for biology*  
Yamamoto, Y., Chua, K., Ferrasse, A., Kirilova, A., De Jong, H. N., Floyd, B. J., Cadisch, C., Wiel, L., Wang, Q., O'Neill, M. J., Tabet, D., Staudt, D., Goryznski, et al  
2025
- **Multisite Validation of a Functional Assay to Adjudicate SCN5A Brugada Syndrome-Associated Variants.** *Circulation. Genomic and precision medicine*  
Ma, J. G., O'Neill, M. J., Richardson, E., Thomson, K. L., Ingles, J., Muhammad, A., Solus, J. F., Davogustto, G., Anderson, K. C., Shoemaker, M. B., Stergachis, A. B., Floyd, B. J., Dunn, et al

2024: e004569

- **Proactive Variant Effect Mapping Aids Diagnosis in Pediatric Cardiac Arrest.** *Circulation. Genomic and precision medicine*  
Floyd, B. J., Weile, J., Kannankeril, P. J., Glazer, A. M., Reuter, C. M., MacRae, C. A., Ashley, E. A., Roden, D. M., Roth, F. P., Parikh, V. N.  
2023
- **Mitochondrial Protein Interaction Mapping Identifies Regulators of Respiratory Chain Function** *MOLECULAR CELL*  
Floyd, B. J., Wilkerson, E. M., Veling, M. T., Minogue, C. E., Xia, C., Beebe, E. T., Wrobel, R. L., Cho, H., Kremer, L. S., Alston, C. L., Gromek, K. A., Dolan, B. K., Ulbrich, et al  
2016; 63 (4): 621–32
- **Quantification of Mitochondrial Acetylation Dynamics Highlights Prominent Sites of Metabolic Regulation** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Still, A. J., Floyd, B. J., Hebert, A. S., Bingman, C. A., Carson, J. J., Gunderson, D. R., Dolan, B. K., Grimsrud, P. A., Dittenhafer-Reed, K. E., Stapleton, D. S., Keller, M. P., Westphall, M. S., Denu, et al  
2013; 288 (36): 26209–19
- **Abstract 4370456: Multiparameter Assessment of TNNI3 Cardiomyopathy Variants for Precision Medicine**  
Staudt, D., Tran, P., Floyd, B., Han, D., Jackson, W., Carhuamaca, X., Serrano, R., Hnatiuk, A., Cheng, P., Parikh, V., Ashley, E., Mercola, M.  
LIPPINCOTT WILLIAMS & WILKINS.2025: A4370456
- **Function-First Assessment of TNNI3 Cardiomyopathy Variants To Predict Clinical Outcomes**  
Staudt, D., Tran, P., Floyd, B., Dunn, K., Han, D., Carhuamaca, X., Hnatiuk, A., Serrano, R., Parikh, V., Ashley, E., Mercola, M.  
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Cardiologists' Perceptions of Cardiogenetic Testing and Management.** *JACC. Advances*  
Tang, W. H., Bui, Q. M., Cirino, A. L., Dellefave-Castillo, L., Floyd, B. J., Guerchicoff, A., Guerchicoff, M., V Khera, A., Knowles, J. W., Lafayette, K., Landstrom, A., Ma, D. W., Morales, et al  
2025; 4 (8): 101910
- **Exploring the feasibility of using long-term stored newborn dried blood spots to identify metabolic features for congenital heart disease screening.** *Biomarker research*  
Ceresnak, S. R., Zhang, Y., Ling, X. B., Su, K. J., Tang, Q., Jin, B., Schilling, J., Chou, C. J., Han, Z., Floyd, B. J., Whitin, J. C., Hwa, K. Y., Sylvester, et al  
2023; 11 (1): 97
- **SUCCESSFUL CARDIAC TRANSPLANTATION AND LONG-TERM FOLLOW-UP IN DNAJC19-ASSOCIATED DILATED CARDIOMYOPATHY WITH ATAXIA**  
Tahata, S., Tise, C., Floyd, B., Cusmano-Ozog, K., Ruzhnikov, M., Enns, G.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2022: 302
- **Prolyl endopeptidase-like is a (thio)esterase involved in mitochondrial respiratory chain function.** *iScience*  
Rosier, K., McDevitt, M. T., Smet, J., Floyd, B. J., Verschoore, M., Marcaida, M. J., Bingman, C. A., Lemmens, I., Dal Peraro, M., Tavernier, J., Cravatt, B. F., Gounko, N. V., Vints, et al  
2021; 24 (12): 103460
- **Aicardi-Goutières syndrome may present with positive newborn screen for X-linked adrenoleukodystrophy.** *American journal of medical genetics. Part A*  
Tise, C. G., Morales, J. A., Lee, A. S., Velez-Bartolomei, F. n., Floyd, B. J., Levy, R. J., Cusmano-Ozog, K. P., Feigenbaum, A. S., Ruzhnikov, M. R., Lee, C. U., Enns, G. M.  
2021
- **Systems Biochemistry Approaches to Defining Mitochondrial Protein Function.** *Cell metabolism*  
Sung, A. Y., Floyd, B. J., Pagliarini, D. J.  
2020; 31 (4): 669–78
- **Cerebellar Ataxia and Coenzyme Q Deficiency through Loss of Unorthodox Kinase Activity** *MOLECULAR CELL*  
Stefely, J. A., Licitra, F., Laredj, L., Reidenbach, A. G., Kemmerer, Z. A., Grangeray, A., Jaeg-Ehret, T., Minogue, C. E., Ulbrich, A., Hutchins, P. D., Wilkerson, E. M., Ruan, Z., Aydin, et al  
2016; 63 (4): 608–20

- **Mitochondrial ADCK3 Employs an Atypical Protein Kinase-like Fold to Enable Coenzyme Q Biosynthesis** *MOLECULAR CELL*  
Stefely, J. A., Reidenbach, A. G., Ulbrich, A., Oruganty, K., Floyd, B. J., Jochem, A., Saunders, J. M., Johnson, I. E., Minogue, C. E., Wrobel, R. L., Barber, G. E., Lee, D., Li, et al  
2015; 57 (1): 83–94
- **SORCS1 is necessary for normal insulin secretory granule biogenesis in metabolically stressed beta cells** *JOURNAL OF CLINICAL INVESTIGATION*  
Kebede, M. A., Oler, A. T., Gregg, T., Balloon, A. J., Johnson, A., Mitok, K., Rabaglia, M., Schueler, K., Stapleton, D., Thorstenson, C., Wrighton, L., Floyd, B. J., Richards, et al  
2014; 124 (10): 4240–56