

## Katharine Miller

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### Publications

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#### PUBLICATIONS

- **High-resolution immunofluorescence imaging of mouse cochlear hair bundles.** *STAR protocols*  
Miller, K. K., Wang, P., Grillet, N.  
2022; 3 (2): 101431
- **Loxhd1 mutations cause mechanotransduction defects in cochlear hair cells.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Trouillet, A., Miller, K. K., George, S. S., Wang, P., Ali, N., Ricci, A., Grillet, N.  
2021
- **Dimensions of a Living Cochlear Hair Bundle** *Front Cell Dev Biol*  
Miller, K. K., Atkinson, P., Mendoza, K., Ó Maoiléidigh, D., Grillet, N.  
2021; 9: 742529
- **SUB-Immunogold-SEM reveals nanoscale distribution of submembranous epitopes.** *Research square*  
Miller, K. K., Wang, P., Grillet, N.  
2024
- **LOXHD1 is indispensable for coupling auditory mechanosensitive channels to the site of force transmission.** *Research square*  
Wang, P., Miller, K. K., He, E., Dhawan, S. S., Cunningham, C. L., Grillet, N.  
2024
- **TDP-43 enhances translation of specific mRNAs linked to neurodegenerative disease** *NUCLEIC ACIDS RESEARCH*  
Neelagandan, N., Gonnella, G., Dang, S., Janiesch, P. C., Miller, K. K., Kuechler, K., Marques, R. F., Indenbirken, D., Alawi, M., Grundhoff, A., Kurtz, S., Duncan, K. E.  
2019; 47 (1): 341-361
- **Thalidomide treatment prevents chronic graft rejection after aortic transplantation in rats - an experimental study.** *Transplant international : official journal of the European Society for Organ Transplantation*  
Miller, K. K., Wang, D. n., Hu, X. n., Hua, X. n., Deuse, T. n., Neofytou, E. n., Renne, T. n., Velden, J. n., Reichenspurner, H. n., Schrepfer, S. n., Bernstein, D. n.  
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- **DENR-MCT-1 promotes translation re-initiation downstream of uORFs to control tissue growth.** *Nature*  
Schleich, S., Strassburger, K., Janiesch, P. C., Koledachkina, T., Miller, K. K., Haneke, K., Cheng, Y., Kuchler, K., Stoecklin, G., Duncan, K. E., Teleman, A. A.  
2014; 512 (7513): 208-212
- **A novel mouse model for inhibition of DOHH-mediated hypusine modification reveals a crucial function in embryonic development, proliferation and oncogenic transformation.** *Disease models & mechanisms*  
Sievert, H., Pällmann, N., Miller, K. K., Hermans-Borgmeyer, I., Venz, S., Sendoel, A., Preukschas, M., Schweizer, M., Boettcher, S., Janiesch, P. C., Streichert, T., Walther, R., Hengartner, et al  
2014; 7 (8): 963-976
- **Marshalin, a microtubule minus-end binding protein, regulates cytoskeletal structure in the organ of Corti** *BIOLOGY OPEN*  
Zheng, J., Furness, D., Duan, C., Miller, K. K., Edge, R. M., Chen, J., Homma, K., Hackney, C. M., Dallos, P., Cheatham, M. A.  
2013; 2 (11): 1192-1202
- **Carcinoembryonic antigen-related cell adhesion molecule 16 interacts with alpha-tectorin and is mutated in autosomal dominant hearing loss (DFNA4)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Zheng, J., Miller, K. K., Yang, T., Hildebrand, M. S., Shearer, A. E., DeLuca, A. P., Scheetz, T. E., Drummond, J., Scherer, S. E., Legan, P. K., Goodyear, R. J., Richardson, G. P., Cheatham, et al  
2011; 108 (10): 4218-4223

- **Interaction between the motor protein prestin and the transporter protein VAPA** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*  
Sengupta, S., Miller, K. K., Homma, K., Edge, R., Cheatham, M. A., Dallos, P., Zheng, J.  
2010; 1803 (7): 796-804
- **Interaction between CFTR and prestin (SLC26A5)** *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*  
Homma, K., Miller, K. K., Anderson, C. T., Sengupta, S., Du, G., Aguinaga, S., Cheatham, M., Dallos, P., Zheng, J.  
2010; 1798 (6): 1029-1040
- **EHD4 and CDH23 Are Interacting Partners in Cochlear Hair Cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Sengupta, S., George, M., Miller, K. K., Naik, K., Chou, J., Cheatham, M. A., Dallos, P., Naramura, M., Band, H., Zheng, J.  
2009; 284 (30): 20121-20129
- **Identifying components of the hair-cell interactome involved in cochlear amplification** *BMC GENOMICS*  
Zheng, J., Anderson, C. T., Miller, K. K., Cheatham, M., Dallos, P.  
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