

## PUBLICATIONS

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#### Scientific journals

- [1] S. Redemann, J. Baumgart, N. Lindow, M. Shelley, E. Nazockdast, A. Kratz, S. Prohaska, J. Brugues, S. Furthauer, and T. Muller-Reichert. *C. elegans* chromosomes connect to centrosomes by anchoring into the spindle network. *Nature Communications*, 8:15288, 2017.
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- [7] A. A. Poznyakovskiy, T. Zahnert, Y. Kalaidzidis, R. Schmidt, B. Fischer, J. Baumgart, and Y. M. Yarin. The creation of geometric three-dimensional models of the inner ear based on micro computer tomography data. *Hearing Research*, 243(1-2):95–104, 2008.

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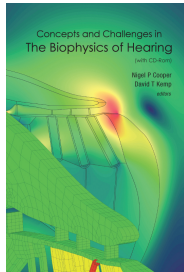
### **In proceedings**

- [10] G. Ni, S. J. Elliott, and J. Baumgart. Modelling motions within the organ of corti. In *Proceedings of the 11th International Workshop on the Mechanics of Hearing*, At Cape Sounio, Greece, 2014.
- [11] J. Baumgart, A. Kozlov, T. Risler, and A. Hudspeth. Damping properties of the hair bundle. In C. A. Shera and E. S. Olson, editors, *Proceedings of the 11th International Workshop on the Mechanics of Hearing*, volume 11, pages 17–22, Williamstown, Massachusetts, 2011.
- [12] J. Baumgart, C. Chiaradia, M. Fleischer, Y. Yarin, R. Grundmann, and A. Gummer. Fluid mechanics in the subtektorial space. In N. Cooper and D. Kemp, editors, *Concepts and Challenges in the Biophysics of Hearing*, pages 288–293, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai, 2009. World Scientific Press. Proceedings of the 10th International Workshop on the Mechanics of Hearing.
- [13] J. Baumgart, T. Leicht, T. Magin, P. Barbante, P. Rini, G. Degrez, and R. Grundmann. Calculation of transport properties for entry into the martian atmosphere. In H. Deconnick and E. Dick, editors, *Computational Fluid Dynamics 2006*, Computational Fluid Dynamics, pages 677–682. Springer, 2006.

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Illustration: Johannes Baumgart



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## Thesis

- [16] J. Baumgart. *The Hair Bundle: Fluid-Structure Interaction in the Inner Ear*. PhD thesis, Technische Universität Dresden, 2010.

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