

Gallenmüller, Friederike

Title: Dr. rer. nat.

Date of Birth: 30.7.1966

Female

Plant Biomechanics Group Freiburg, Botanic Garden, Faculty of Biology, University of Freiburg
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Status/Position: senior lecturer (Akademische Oberrätin) and curator of the Botanic Garden
2 children (9, 14 years old)

Education

1995 Dipl. Biol., Albert-Ludwigs-University Freiburg
Mentor: Prof. Dr. Arno Bogenrieder

1990 Licence de Biologie des Populations et Organismes, Université des Sciences du Languedoc,
Montpellier, Frankreich)

Scientific Degrees

2002 Dr. rer. nat., Albert-Ludwigs-University Freiburg,
Advisor: Prof. Dr. Thomas Speck

Work Experience

Since 2007: position as senior lecturer (Akademische Oberrätin) in the Plant Biomechanics Group and curator of the Botanic Garden of the Albert-Ludwigs-Universität Freiburg

2002-2007: position as scientific employee (Wissenschaftliche Angestellte) at the Botanic Garden of the Albert-Ludwigs-Universität Freiburg (teaching in practical courses and seminars, public relation and scientific assignments of the Botanic Garden, supervision of students, research in the field of functional morphology, biomechanics and biomimetics, member of the competence network biomimetics)

Miscellaneous

2009: Grant and funding within the Hochschulwettbewerb „Alltagstauglich?“ des Bundesministeriums für Bildung und Forschung. (Projekt „Schatzsuche im Botanischen Garten - forschendes Lernen im Schaufenster der Wissenschaft“)

2007: Anerkennungspreis der Baden-Württemberg Stiftung anlässlich der Ausschreibung ExpoNaTe für das Exponat „Wassertransport bei Holzpflanzen“

Most relevant publications

Gallenmüller, F., Feus, A., Fiedler, K. and Speck, T. (2015): Rose Prickles and Asparagus Spines – Different Hook Structures as Attachment Devices in Climbing Plants. PLOS ONE. DOI: 10.1371/journal.pone.0143850.

Masselter, T., Barthlott, W., Bauer, G., Bertling, J., Cichy, F., Ditsche-Kuru, P., Gallenmüller, F., Gude, M., Haushahn, T., Hermann, M., Immink, H., Knippers, J., Lienhard, J., Luchsinger, R., Lunz, K., Mattheck, C., Milwich, M., Mölders, N., Neinhuis, C., Nellesen, A., Poppinga, S., Rechberger, M., Schleicher, S., Schmitt, C., Schwager, H., Seidel, R., Speck, O., Stegmaier, T., Tesari, I., Thielen, M. and Speck, T. (2012): *Biologically inspired products*. In: Bar-Cohen, Y. (ed.), Nature Based Innovation, CRC Press, Pasadena, S. 377-429.

Bauer, G.; Klein, M.-C.; Gorb, S. N.; Speck, T.; Voigt, D. & Gallenmüller, F. (2011): *Always on the bright side – the climbing mechanism of Galium aparine*. Proceedings of the Royal Society of Botany B, 278, S. 2233-2239.

Steinbrecher, T.; Speck, T. & Gallenmüller, F. (2011): *Effects of staking and shading on the facultative climber Solanum dulcamara L. and the leaf-angle climber Galium aparine L.* Plant Diversity and Evolution, Vol. 129, No. 2 (2011), S.139-158. DOI: 10.1127/1869-6155/2011/0129-0043

Rowe, N.; Isnard, S.; Gallenmüller, F. & Speck, T. (2006): *Diversity of mechanical architectures in climbing plants: an ecological perspective*. In: Herrel, A.; Rowe, N. P. & Speck, T. (eds.), Biomechanics and Ecology, Dekker, S. 35-59.

Gallenmüller F.; Rowe N. & Speck T. (2004): *Development and Growth Form of the Neotropical Liana Croton nuntians: The Effect of Light and Mode of Attachment on the Biomechanics of the Stem*. Journal of Plant Growth Regulation, 23, S. 83-97.

Gallenmüller F.; Müller U.; Rowe N. & Speck T. (2001): *The growth form of Croton pullei (Euphorbiaceae) – functional morphology and biomechanics of a neotropical liana*. Plant Biology 3, S. 50-61.