

# Publications

A selection of publications based on material from our collection as well as experiments in our garden:

## 2021

Renner S.S., Wub S., Pérez-Escobar O.A., Silber M.V., Feib Z., and C. Guillaume (2021): *A chromosome-level genome of a Kordofan melon illuminates the origin of domesticated watermelons*. PNAS 2021 Vol. 118 No. 23 e2101486118, online [[DOI: 10.1073/pnas.2101486118](https://doi.org/10.1073/pnas.2101486118), [PDF](#), 31 March 2021]

Renner S.S., Graf M.S., Hentschel Z., Krause H., and A. Fleischmann (2021): *High honeybee abundances reduce wild bee abundances on flowers in the city of Munich*. Oecologia, online [[DOI: 10.1007/s00442-021-04862-6](https://doi.org/10.1007/s00442-021-04862-6), 7 February 2021]

## 2019

Cusimano N., and S.S. Renner. (2019): *Sequential horizontal gene transfers from different hosts in a widespread Eurasian parasitic plant, Cynomorium coccineum*. American Journal of Botany 106(5): 679 – 689.

Chomicki G., H. Schaefer, and S.S. Renner. (2019): *Origin and domestication of Cucurbitaceae crops: Insights from phylogenies, genomics and archaeology*. New Phytologist. [<https://doi.org/10.1111/nph.16015>]

Hofmann M.M., A. Fleischmann, and S.S. Renner. (2019): *Tracking of 2600 individuals from six species of small solitary bees in an ideal setting reveals mean foraging distances below 125 m*.

Hofmann M.M., C.M. Zohner, and S.S. Renner. (2019): *Narrow habitat breadth and late-summer emergence increase extinction vulnerability in Central European bees*. Proceedings of the

Royal Society B 286. [<https://doi.org/10.1098/rspb.2019.0316>]

Renner S.S., and C.M. Zohner. (2019): *The occurrence of red and yellow autumn leaves explained by regional differences in insolation and temperature*. New Phytologist Tansley Review. [<https://doi.org/10.1111/nph.15900>]

Zohner C.M., A. Rockinger, and S.S. Renner. (2019): *Increased autumn productivity permits temperate trees to compensate for spring frost damage*. New Phytologist 221: 789 – 795.

Zohner C.M., and S.S. Renner. (2019): *Ongoing seasonally uneven climate warming leads to earlier autumn growth cessation in deciduous trees*. Oecologia 189: 549 – 561.

## 2018

Chomicki G., Y.M. Staedler, L.P.R. Bidel, C. Jay-Allemand, J. Schönenberger, and S.S. Renner. (2018): *Deciphering the complex architecture of an herb using micro-computed X-ray tomography, with an illustrated discussion on herb architectural diversity*. Botanical Journal of the Linnean Society 186(2): 145 – 157.

Hofmann M.M., A. Fleischmann, and S.S. Renner. (2018): *Changes in the bee fauna of a German botanical garden between 1997 and 2017, attributable to climate warming, not other parameters*. Oecologia 187(3): 701 – 706.

Renner S.S., and C.M. Zohner. (2018): *Climate change and phenological mismatch in trophic interactions among plants, insects, and vertebrates*. Annual Review of Ecology, Evolution, and Systematics 49: 165 – 182.

Schindler M., M.M. Hofmann, and S.S. Renner. (2018): *Courtship behaviour in the genus *Nomada* – antennal grabbing and possible transfer of male secretions*. Journal of Hymenoptera Research 65: 47 – 59.

Zohner C.M., L. Mo, and S.S. Renner. (2018): *Global warming reduces leaf-out and flowering synchrony among individuals*. eLife, 10.7554/eLife.40214.

## 2017

Renner S.S., A. Sousa, and G. Chomicki. (2017): *Chromosome numbers, Sudanese wild forms, and classification of the watermelon genus Citrullus, with 50 names allocated to seven biological species*. Taxon 66(6): 1393 – 1405.

Zohner C.M., B.M. Benito, J.D. Fridley, J.-C. Svenning, and S.S. Renner. (2017): *Spring predictability explains different leaf-out strategies in the woody floras of North America, Europe, and East Asia*. Ecology Letters 20(4): 452 – 460.

Zohner C.M., and S.S. Renner. (2017): *Innately shorter vegetation periods in North American species explain native-non-native phenological asymmetries*. Nature Ecology & Evolution 1: 1655 – 1660.

## 2016

Chomicki G., Y. Staedler, J. Schönenberger, and S.S. Renner. (2016): *Partner choice through concealed floral sugar rewards evolved with the specialization of ant/plant symbioses*. New Phytologist 211: 1358 – 1370. Cover

Rockinger A., A. Sousa, F.A. Carvalho, and S.S. Renner. (2016): *Chromosome number reduction in the sister clade of Carica papaya with concomitant genome size doubling*. American Journal of Botany 103(6): 1082 – 1088. Cover.

Zohner C.M., B.M. Benito, J.-C. Svenning, and S.S. Renner. (2016): *Day length unlikely to constrain climate-driven shifts in leaf-out times of northern woody plants*. Nature Climate Change 6: 1120 – 1123, doi:10.1038/nclimate3138.

## 2015

Chomicki G., and S.S. Renner. (2015): *Watermelon origin solved with molecular phylogenetics including Linnaean material: Another example of museomics*. *New Phytologist* 205(2): 526 – 532.

Zohner C.M., and S.S. Renner. (2015): *Perception of photoperiod in individual buds of mature trees regulates leaf-out*. *New Phytologist* 208(4): 1023 – 1030.

## 2014

Sousa A., N. Cusimano, and S.S. Renner. (2014): *Combining FISH and model-based predictions to understand chromosome evolution in Typhonium (Araceae)*. *Annals of Botany* 113(4): 669 – 680.

Zohner C.M., and S.S. Renner. (2014): *Common garden comparison of the leaf-out phenology of woody species from different native climates, combined with herbarium records, forecasts long-term change*. *Ecology Letters* 17: 1016 – 1025.

## 2010

Cusimano N., M. Barrett, W.L.A. Hettterscheid, and S.S. Renner. (2010): *A phylogeny of the Araceae implies that Typhonium, Sauromatum, and the Australian species of Typhonium are distinct clades*. *Taxon* 59(2): 439 – 447.