

SVEN BUERKI

Assistant Professor, Department of Biological Sciences at [Boise State University](#).

My lab applies a genome-to-phenome approach to investigate mechanisms of drought adaptations in natural ecosystems. We are currently focusing our efforts on the sagebrush steppe of western North America by using *Artemisia tridentata* as model organism. This research is integrated into the [EPSCoR NSF GEM3](#) project.

I am broadly interested in bioinformatics, genomics, molecular evolution and reproducible science.



RESEARCH EXPERIENCE

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|-------------------|--|--------------------------------------|
| present | Assistant Professor Department of Biological Sciences | Boise State University, ID |
| 2020 2019 | Research associate Missouri Botanical Garden | Saint-Louis, MO |
| 2017 2016 | Senior Curator in Charge, Ferns and General herbarium I & II Department of Life Sciences | Natural History Museum, London, UK |
| 2016 2015 | Researcher Department of Life Sciences | Natural History Museum, London, UK |
| 2014 2012 | Plant Evolutionary Biologist Jodrell Laboratory | Royal Botanic Gardens, Kew, UK |
| 2012 2010 | Marie-Curie postdoctoral fellow Jodrell Laboratory | Royal Botanic Gardens, Kew, UK |
| | • Funded by the Marie-Curie Intra-European program | |
| 2010 2009 | SNSF postdoctoral fellow Real Jardin Botanico | Madrid, Spain |
| | • Funded by the Swiss National Science Foundation | |
| 2005 2003 | Research Assistant Department of Evolutionary Botany | University of Neuchâtel, Switzerland |

EDUCATION

Last updated on 2020-10-16.

2009
|
2005

- **PhD thesis**
Department of Evolutionary Botany
📍 University of Neuchâtel, Switzerland

- Worldwide biogeography and systematics of Sapindaceae: a molecular and taxonomic survey combining large data sets and novel methodological approaches

2005
|
2000

- **Master of Science in Behaviour, Ecology and Evolution (with high distinction)**
Department of Evolutionary Botany
📍 University of Neuchâtel, Switzerland

- Biogeography and systematics of the genus *Gouania* (Rhamnaceae) in the western Indian Ocean

☛ TEACHING EXPERIENCE

present
|
2020

- **VIP: Genome 2 phenotype**
Department of Biological Sciences
📍 Boise State University, ID
 - Undergraduate and graduate level class

present
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2017

- **BIOL497 & BIOL597 – Special Topics, Genomics & Bioinformatics**
Department of Biological Sciences
📍 Boise State University, ID
 - Undergraduate and graduate level class
- **EEB 603 – Reproducible Science**
Department of Biological Sciences
📍 Boise State University, ID
 - Graduate level class

↳ GRANTS

2020
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2018

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n

2013

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n

2011

- n

n

📘 EXTERNAL REFEREE

☰ PUBLICATIONS IN PEER-REVIEWED JOURNALS

• Citation = 2162
• H-index = 26

I have authored 100 Web of Knowledge papers (among which 28 as first and 28 as senior author) with 213 co-authors based in 37 countries, demonstrating my international recognition and my ability to collaborate with other scientists in a wide range of fields.

2020

- #100 **Typification, nomenclature and taxonomy of Pandanaceae described by Otto Warburg**
Willdenowia. In press.
 - Callmander MW, Vogt R, Donatelli A, Buerki S, Neppi C.
- #99 **Two new genera of Sapindaceae (Cupanieae) from the southern Pacific: *Lepidocupania* and *Neoarytera***
Candollea. In press.
 - Buerki S, Munzinger J, PP Lowry II, Callmander MW.
- #98 **New combinations for two species in the genus *Synima* (Sapindaceae, Cupanieae) from Queensland (Australia)**
Candollea. In press.
 - Callmander MW, Ford AJ, Buerki S.
- #97 (oooo) **Proposal to conserve the name *Pandanus ornatus* Kurz (*Benthonea ornata*) against *P. ornatus* W. Bull with a conserved type (Pandanaceae)**
Taxon. In press.
 - Callmander MW, Buerki S, Gereau RE.
- #96 **Neotypification of *Pandanus odorifer*, the correct name for *P. odoratissimus* (Pandanaceae)**
Taxon. In press.
 - Callmander MW, Gallaher T, McNeill J, Beentje H, Nadaf AB, Middleton D, Buerki S.
- #95 **Evolutionary origins of three rare Alpine-endemic species of *Lo-matiuim* (Apiaceae) in the Wallowa and Elkhorn mountains of Northeastern Oregon**
International Journal of Plant Sciences, 181: 748-765.
 - Ottenlips MS, Feist MAE, Mansfield DH, Plunkett GM, Buerki S, Smith JF.
 - doi:10.1086/709373 (IF2018: 1.425)
- #94 **New Guinea has the world's richest island flora**
Nature, 584: 579-583.
 - Camara-Leret R, ..., Buerki S, ..., van Welzen PC.
 - doi:10.1038/s41586-020-2549-5 (IF2018: 43.070)
- #93 **Novelties from the Northern Mountains Complex of Madagascar V: A new threatened *Pandanus* (Pandanaceae) from the Kalobinono massif**
Candollea, 75: 99-105.
 - Callmander MW, Razakamalala R, Luino I, Lala Andriamarisoa R, Buerki S.
 - doi:10.15553/c2020v751a10 (IF2018: 0.561)

- 2019
- #92 **Intraspecific variation in surface water uptake in a perennial desert shrub**
Functional Ecology, 34: 1170-1179.
 - Zaiats A, Brynne L, Germino M, Serpe M, Richardson B, Buerki S, Caughlin T.
 - doi:[10.1111/1365-2435.13546](https://doi.org/10.1111/1365-2435.13546) (IF2018: 5.03)
 - #91 **A new micro-endemic species of *Alectryon* (Sapindaceae) from Koghis forest, New Caledonia**
Systematic Botany, 45: 156-162.
 - Munzinger J, Lowry II PP, Callmander MW, Buerki S.
 - doi:[10.1600/036364420X15801369352414](https://doi.org/10.1600/036364420X15801369352414) (IF2018: 1.259)
 - #90 **The ghost fruits of Madagascar: Identifying dysfunctional seed dispersal in Madagascar's endemic flora**
Biological Conservation, 242: 108438.
 - Albert-Daviaud A, Buerki S, Onjalalaina GE, Perillo S, Rabarijaona R, Razafindratsima OH, Sato H, Valenta K, Wright PC, Stuppy W.
 - doi:[10.1016/j.biocon.2020.108438](https://doi.org/10.1016/j.biocon.2020.108438) (IF2018: 4.451)
 - #89 **Influences of a prolific gut fungus (*Zancudomyces culisetae*) on larval and adult mosquito (*Aedes aegypti*) – Associated Microbiota**
Applied and Environmental Microbiology, 80: e02334-19.
 - Frankel-Bricker J, Buerki S, Feris K, White MM.
 - doi:[10.1128/AEM.02334-19](https://doi.org/10.1128/AEM.02334-19) (IF2018: 4.077)
 - Published with graduate student.
 - #88 **Biogeography and ecological diversification of a mayfly clade in New Guinea**
Frontiers in Ecology and Evolution, 7: 233.
 - Cozzarolo C-S, Balke M, Buerki S, Arrigo N, Pitteloud C, Gueuning M, Salamin N, Sartori M, Alvarez N.
 - doi:[10.3389/fevo.2019.00233](https://doi.org/10.3389/fevo.2019.00233) (IF2018: 2.686)
 - #87 **The role of Antarctica in biogeographical reconstruction: A point of view.**
International Journal of Plant Sciences, 180: 63-71.
 - de la Estrella M, Buerki S, Vasconcelos T, Lucas EJ, Forest F.
 - doi:[10.1086/700581](https://doi.org/10.1086/700581) (IF2016: 1.748)
- 2018
- #86 **Shedding new light on the origin and spread of the brinjal eggplant (*Solanum melongena* L.; Solanaceae) and its wild relatives**
American Journal of Botany, 105: 1175-1187.
 - Aubriot X, Knapp S, Syfert M, Poczaï P, Buerki S.
 - doi:[10.1002/ajb2.1133](https://doi.org/10.1002/ajb2.1133) (IF2017: 2.788)

2017

- #85 A new species and a new synonym in *Pandanus* subg. Rykia (Pandanaceae) in Thailand
Candollea, 73: 115-120.
 - Callmander MW, Buerki S.
 - doi:[10.15553/c2018v73la12](https://doi.org/10.15553/c2018v73la12) (IF2016: 0.462)
- #84 A new micro-endemic species of *Alectryon* (Sapindaceae) from Koghis forest, New Caledonia
Scientific Reports, 8: 6053.
 - Forest F, Baloch E, Brummitt NA, Bachman S, Moat J, Ickert-Bond S, Hollingsworth PM, Liston A, Little DP, Mathews S, Rai H, Rydin C, Stevenson DW, Thomas P, Buerki S.
 - doi:[10.1038/s41598-018-24365-4](https://doi.org/10.1038/s41598-018-24365-4) (IF2016: 4.259)
- #83 Museum collections are the key to studying lemurs' diet: gastrointestinal morphology of *Cheirogaleus major*
Systematics and Biodiversity, 16: 483-487.
 - Buerki S, Portela Miguez R.
 - doi:[10.1080/14772000.2018.1430708](https://doi.org/10.1080/14772000.2018.1430708) (IF2016: 2.127)
- #82 Elevation in tropical sky islands as the common driver in structuring genes and communities of freshwater organisms
Scientific Reports, 7: 16089.
 - Gueuning M, Suchan T, Rutschmann S, Gattoliat J-L, Jamsari A, Kamil Al, Pitteloud C, Buerki S, Balke M, Sartori M, Alvarez N.
 - doi:[10.1038/s41598-017-16069-y](https://doi.org/10.1038/s41598-017-16069-y) (IF2016: 4.259)
- #81 *Alectryon vitiensis*: A new species of Sapindaceae endemic to Fiji
Novon, 25: 4210-429.
 - Buerki S, Lowry II PP, Munzinger J, Tuiwawa M, Naikatini A, Callmander MW.
 - doi:[10.3417/D-16-00006](https://doi.org/10.3417/D-16-00006) (IF2016: 0.512)
- #80 Untangling the reticulate history of species complexes and horticultural breeds in *Abelia* (Caprifoliaceae)
Annals of Botany, 120: 257-269.
 - Landrein S, Buerki S, Wang H-F, Clarkson J.
 - doi:[10.1093/aob/mcw279](https://doi.org/10.1093/aob/mcw279) (IF2016: 4.041)
- #79 Navigating the 'broad freeway': ocean currents and inland isolation drive diversification in the *Pandanus tectorius* complex (Pandanaceae)
Journal of Biogeography, 44: 1598-1611.
 - Gallaher T, Callmander MW, Buerki S, Setsuko S, Keeley SC.
 - doi:[10.1111/jbi.12933](https://doi.org/10.1111/jbi.12933) (IF2015: 3.997)

2016

- #78 **How old are island endemics?**
Biological Journal of the Linnean Society, 121: 469-474.
 - Pillon Y, Buerki S.
 - doi:[10.1093/biolinnean/blx005](https://doi.org/10.1093/biolinnean/blx005) (IF2015: 2.288)
- #77 **Large-scale phylogeny of *Amorphophallus* (Araceae) derived from nuclear and plastid sequences reveals new subgeneric delineation**
Botanical Journal of the Linnean Society, 184: 32-45.
 - Claudel C, Buerki S, Chatrou LW, Antonelli A, Alvarez N, Hetterscheid W.
 - doi:[10.1093/botlinnean/box013](https://doi.org/10.1093/botlinnean/box013) (IF2015: 2.523)
- #76 **Climatic niche evolution is faster in sympatric than allopatric lineages of the butterfly genus *Pyrgus***
Proceedings of the Royal Society, B, 284: 20170208.
 - Pitteloud C, Arrigo N, Suchan T, Mastretta-Yanes A, Vila R, Dinca V, Hernández-Roldán J, Brockmann E, Chittaro Y, Kleckova I, Fumagalli L, Buerki S[¶], Pellicer L[¶], Alvarez N[¶].
 - doi:[10.1098/rspb.2017.0208](https://doi.org/10.1098/rspb.2017.0208) (IF2015: 4.82)
 - [¶]These authors supervised this work together and are considered as joint last authors.
- #75 **How many genera of vascular plants are endemic to New Caledonia? A critical review based on phylogenetic evidence**
Botanical Journal of the Linnean Society, 183: 177-198.
 - Pillon Y, Barrabé L, Buerki S.
 - doi:[10.1093/botlinnean/bow001](https://doi.org/10.1093/botlinnean/bow001) (IF2015: 2.523)
 - REVIEW
- #74 **Biogeographical patterns of *Myrcia* s.l. (Myrtaceae) and their correlation with geological and climatic history in the Neotropics**
Molecular Phylogenetics and Evolution, 108: 34-48.
 - Santos M, Lucas E, Sano PT, Buerki S, Staggemeier VG, Forest F.
 - doi:[10.1016/j.ympev.2017.01.012](https://doi.org/10.1016/j.ympev.2017.01.012) (IF2015: 3.792)
- #73 **Two new threatened species of *Benstonea* Callm. & Buerki (Pandanaceae) from Sabah (Borneo, Malaysia)**
Candollea, 71: 257-263.
 - Callmander MW, Buerki S.
 - doi:[10.1553/c2016v712a10](https://doi.org/10.1553/c2016v712a10) (IF2015: 0.386)
- #72 **Biogeography and evolution of the screw-pine genus *Benstonea* Callm. & Buerki (Pandanaceae)**
Candollea, 71: 217-229.
 - Buerki S, Gallaher T, Booth T, Brewer G, Forest F, Callmander MW.
 - doi:[10.1553/c2016v712a8](https://doi.org/10.1553/c2016v712a8) (IF2015: 0.386)

2015

- #71 ***Pleurostylia serrulata* and two allied new species from Africa are actually members of the New World *Crossopetalum* (Celastraceae)**
Systematic Botany, 41: 851-864.
 - Darbyshire I, Simmons MP, Cappa JJ, Breteler FJ, **Buerki S**.
 - doi:[10.1600/036364416X693955](https://doi.org/10.1600/036364416X693955) (IF2015: 1.098)
- #70 **Molecular phylogenetics and molecular clock dating of Sapindales based on plastid *rbcL*, *atpB* and *trnL-trnF* DNA sequences**
Taxon, 65: 1019-1036.
 - Muellner-Riehl AN, Weeks A, Clayton JW, **Buerki S**, Nauheimer L, Chiang Y-C, Cody S, Pell SK.
 - doi:[10.12705/655.5](https://doi.org/10.12705/655.5) (IF2015: 2.9)
- #69 **Lifting the curtain on our knowledge of New Guinean *Benstonea* (Pandanaceae)**
Phytotaxa, 275: 168-174.
 - Callmander MW, Keim AP, Heatbun CD, Homot P, **Buerki S**.
 - doi:[10.11646/phytotaxa.275.2.8](https://doi.org/10.11646/phytotaxa.275.2.8) (IF2015: 1.318)
- #68 **A taxonomic revision of the endemic New Caledonian genus *Storthocalyx* Baill. (Sapindaceae)**
Systematic Botany, 41: 387-400.
 - Munzinger J, Lowry II PP, Buerki S, Callmander MW.
 - doi:[10.1600/036364416X691902](https://doi.org/10.1600/036364416X691902) (IF2014: 1.229)
- #67 **Generic delimitations, biogeography and evolution in the tribe Coleeae (Bignoniaceae), endemic to Madagascar and the smaller islands of the western Indian Ocean**
Molecular Phylogenetics and Evolution, 96: 178-186.
 - Callmander MW, Phillipson PB, Plunkett GM, Edwards MB, **Buerki S**.
 - doi:[10.1016/j.ympev.2015.11.016](https://doi.org/10.1016/j.ympev.2015.11.016) (IF2014: 3.916)
- #66 **Collections-based research in the genomic era**
Biological Journal of the Linnean Society, 117: 5-10.
 - Buerki S, Baker WJ.
 - doi:[10.1111/bij.12721](https://doi.org/10.1111/bij.12721) (IF2014: 2.264)
- #65 **Uncovering cryptic parasitoid diversity in *Horismenus* (Chalcidoidea, Eulophidae)**
PLoS ONE, 10(9): e0136063.
 - Kenyon SG¹, Buerki S¹, Hansson C, Alvarez N, Benrey B.
 - doi:[10.1371/journal.pone.0136063](https://doi.org/10.1371/journal.pone.0136063) (IF2014: 3.234)
 - These authors have contributed equally and are considered joint first authors.

- #64 A macro-ecological perspective on CAM photosynthesis evolution in Afro-Madagascan drylands: Eulophiinae orchids as a case study
New Phytologist, 208(2): 469-481
 - Bone RE, Smith JAC, Arrigo N, Buerki S.
 - doi:[10.1111/nph.13572](https://doi.org/10.1111/nph.13572) (IF2014: 7.672)
- #63 The genus *Pandanus* Parkinson (Pandanaceae) on Halmahera Island (Moluccas, Indonesia) with descriptions of three new species and a key to the species on the island
Candollea, 70: 179-195.
 - Callmander MW, Keim AP, Buerki S, Phillipson PB.
 - doi:[10.15553/c2015v702a2](https://doi.org/10.15553/c2015v702a2) (IF2014: 0.468)
- #62 Phylogenetics of Eulophiinae (Orchidaceae: Epidendroideae): evolutionary patterns and implications for generic delimitation
Botanical Journal of the Linnean Society, 179: 43-56.
 - Bone RE, Cribb PJ, Buerki S.
 - doi:[10.1111/boj.12299](https://doi.org/10.1111/boj.12299) (IF2014: 2.53)
- #61 Novitates neocaledonicae II. *Acropogon moratianus* Callm., Munzinger & Lowry, sp. nov. (Malvaceae, Sterculieae): a rare and threatened new species from New Caledonia
Adansonia, sér. 3, 37(1): 131-137.
 - Callmander MW, Munzinger J, Buerki S, Lowry II PP.
 - doi:[10.5252/a2015n1a8](https://doi.org/10.5252/a2015n1a8) (IF2014: 0.500)
- #60 Evolutionary history and leaf succulence as explanations for medicinal use in aloes and the global popularity of *Aloe vera*
BMC Evolutionary Biology, 15: 29.
 - Grace OM, Buerki S, Symonds MRE, Forest F, van Wyk AE, Smith GF, Klopper RR, Bjørå CS, Neale S, Demissew S, Simmonds MSJ, Rønsted N.
 - doi:[10.1186/s12862-015-0291-7](https://doi.org/10.1186/s12862-015-0291-7) (IF2013: 3.41)
- #59 Incorporating evolutionary history into conservation planning in biodiversity hotspots
Philosophical Transactions of the Royal Society, serie B, 370: 20140014.
 - Buerki S, Callmander MW, Bachman S, Moat J, Labat J.-N, Forest F.
 - doi:[10.1098/rstb.2014.0014](https://doi.org/10.1098/rstb.2014.0014) (IF2014: 7.055)
- #58 A long distance dispersal hypothesis for the Pandanaceae and the origins of the *Pandanus tectorius* complex
Molecular Phylogenetics and Evolution, 83: 20-32.
 - Gallaher T, Callmander MW, Buerki S, Keeley SC.
 - doi:[10.1016/j.ympev.2014.11.002](https://doi.org/10.1016/j.ympev.2014.11.002) (IF2013: 4.018)

- #57 The transfer of *Eulophia beravensis* Rchb.f. to *Oeceoclades* Lindl., a genus with its centre of diversity in Madagascar (Eulophiinae, Orchidaceae)
Candollea, 69: 201-205.
 • Bone RE, Sanz E, Buerki S.
 • (IF2013: 0.440)
- #56 Rediscovery of the genus *Tsingya* Capuron (Sapindaceae) and its phylogenetic position
Candollea, 69: 195-200.
 • Buerki S, Doherty R, Gautier L, Callmander MW.
 • (IF2013: 0.440)
- #55 Notes on *Benstonea* (Pandanaceae) from the islands of Halmahera, New Guinea and Sulawesi
Phytotaxa, 175: 161-165.
 • Callmander MW, Buerki S, AP Keim, Phillipson PB.
 • doi:10.11646/phytotaxa.175.3.6 (IF2012: 1.295)
- #54 Taxonomic novelties in Neotropical Chrysobalanaceae: towards a monophyletic *Couepia*
Phytotaxa, 172 : 176-200.
 • Sothers CA, Prance GT, Buerki S, De Kok R, Chase MW.
 • doi:10.11646/phytotaxa.172.3.2 (IF2012: 1.295)
- #53 Timing and tempo of evolutionary diversification in a biodiversity hotspot: Primulaceae on Indian Ocean islands
Journal of Biogeography, 41: 810-822.
 • Strijk JS, Bone R, Thébaud C, Buerki S, Fritsch PW, Hodkinson TR, Strasberg D.
 • doi:10.1111/jbi.12259 (IF2012: 4.863)
- #52 Proto-South-East Asia as a trigger of early angiosperms diversification
Botanical Journal of the Linnean Society, Special Issue: Ecology and evolution on oceanic islands: broadening the botanical perspective, 174: 326-333.
 • Buerki S, Forest F, Alvarez N.
 • doi:10.1111/boj.12129 (IF2012: 2.589)
- #51 Mediterranean origin and Miocene–Holocene Old World diversification of meadow fescues and ryegrasses (*Festuca* subgenus *Schedonorus* and *Lolium*)
Journal of Biogeography, 41: 600-614.
 • Inda LA, Sanmartin I, Buerki S, Catalan P.
 • doi:10.1111/jbi.12211 (IF2012: 4.863)

- #50 Pollinator shifts as trigger of speciation in painted petal irises (*Lapeirousia*: Iridaceae)
Annals of Botany, Special issue on Pollinator-driven speciation, 113: 357-371.
 - Forest F, Goldblatt P, Manning JC, Baker D, Colville J, Devey DS, Jose S, Kaye M, Buerki S.
 - <http://dx.doi.org/10.1093/aob/mct248>
- #49 New Caledonian lineages of *Psychotria* (Rubiaceae) reveal different evolutionary histories and the largest documented plant radiation for the archipelago
Molecular Phylogenetics and Evolution, 71: 15-35.
 - Barrabé L, Maggia L, Pillon Y, Rigault F, Mouly A, Davis AP, Buerki S.
 - doi:10.1016/j.ympev.2013.10.020 (5-Year IF: 4.107)
- 2013
- #48 A taxonomic revision of the endemic New Caledonian genus *Podonephelium* Baillon (Sapindaceae)
Systematic Botany, 38: 1105-1124.
 - Munzinger J, Lowry II PP, Callmander MW, Buerki S.
 - doi:10.1600/036364413X674814 (5-Year IF: 1.743)
- #47 Evolutionary history of the Afro-Madagascan *Ixora* species (Rubiaceae): species diversification and distribution of key morphological traits inferred from dated molecular phylogenetic trees
Annals of Botany, 112: 1723-1742.
 - Tosh J, Dessein S, Buerki S, Groeninckx I, Mouly A, Bremer B, Smets EF, De Block P.
 - doi:10.1093/aob/mct222 (5-Year IF: 4.051)
- #46 A snapshot of extinction in action: The decline and imminent demise of the endemic *Eligmocarpus* Capuron (Caesalpinoideae, Leguminosae) serves as an example of the fragility of Madagascan ecosystems
South African Journal of Botany, Special Issue: Towards a New Classification System for Legumes, 89: 273-280.
 - Devey DS, Forest F, Rakotonasolo F, Ma P, Dentinger BTM, Buerki S.
 - doi:10.1016/j.sajb.2013.06.013 (5-Year IF: 1.495)
- #45 Corrections to *Phytotaxa* 112: Update on the systematics of *Benthonia* (Pandanaceae)
Phytotaxa, 125: 59-60.
 - Callmander MW, Buerki S.
 - doi:10.11646/phytotaxa.125.1.9 (IF2012: 1.295)

- #44 A new species of Pandanaceae from New Caledonia: *Pandanus leto-cartorum* Callm. & Buerki with notes on the taxonomic identities of *P. decumbens* (Brongn.) Solms and *P. reticulatus* Vieill.
Candollea, 68: 51-60.
 - Callmander MW, Buerki S.
 - (IF2012: 0.370)
- #43 The abrupt climate change at the Eocene–Oligocene boundary and the emergence of Southeast Asia triggered the spread of sapindaceous lineages
Annals of Botany, 112: 151-160.
 - Buerki S, Forest F, Stadler T, Alvarez N.
 - doi:[10.1093/aob/mct106](https://doi.org/10.1093/aob/mct106) (5-Year IF: 4.051)
- #42 Tiptoe through the tulips – cultural history, molecular phylogenetics and classification of *Tulipa* (Liliaceae)
Botanical Journal of the Linnean Society, 172: 280-328.
 - Christenhusz MJM, Govaerts R, David JC, Hall T, Borland K, Roberts PS, Tuomisto A, Buerki S, Chase MW, Fay MF.
 - doi:[10.1111/boj.12061](https://doi.org/10.1111/boj.12061) (IF2012: 2.589)
- #41 Update on the systematics of *Benstonea* (Pandanaceae): When a visionary taxonomist foresees phylogenetic relationships
Phytotaxa, 112: 57-60.
 - Callmander MW, Booth T, Beentje H, Buerki S.
 - doi:[10.11646/phytotaxa.112.2.4](https://doi.org/10.11646/phytotaxa.112.2.4) (IF2012: 1.295)
- #40 Why are thistles everywhere: Reconstructing the evolution and biogeographic history of tribe Cardueae (Compositae)
American Journal of Botany, 100: 867-882.
 - Barres L, Sanmartín I, Anderson C-L, Susanna A, Buerki S, Galbany-Casals M, Vilatersana R.
 - doi:[10.3732/ajb.1200058](https://doi.org/10.3732/ajb.1200058) (5-Year IF: 3.106)
- #39 Global legume diversity assessments: concepts, key indicators, and strategies
Taxon, 62: 249-266.
 - Yahara T, Javadi F, Onoda Y, de Queiroz LP, Faith DP, Prado DP, Akasaka M, Kadoya T, Ishihama F, Davies S, Slik JWF, Yi T, Ma K, Bin C, Darnaedi D, Pennington RT, Tuda M, Shimada M, Ito M, Egan AN, Buerki S, Raes N, Kajita T, Mimura M, Tachida H, Iwasa Y, Smith GF, Victor JE, Nkonki T.
 - doi:[10.12705/622.12](https://doi.org/10.12705/622.12) (IF2012: 2.782)
- #38 A new species of *Trigonachras* (Sapindaceae) endemic from Sabah, Malaysia (Borneo)
Phytotaxa, 88: 19-24.
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