

Publications and theses

Evkaikina AI, Berke L, Romanova MA, Proux-Wéra E, Ivanova AN, Rydin C, Pawlowski K, Voitsekhovskaja OV. 2017. The *Huperzia selago* shoot tip transcriptome sheds new light on the evolution of leaves. *Genome Biol Evol* 9(9): 2444–2460.

Blokzijl R. 2017. Phylogeny inference of *Ephedra* using nrDNA, chloroplast and mitochondrial genomes. Master's thesis, Stockholm University (supervisor: C. Rydin).

Bolinder K. 2017. Pollen and pollination in *Ephedra* (Gnetales). PhD thesis, Stockholm University (main supervisor: C. Rydin).

Hou C, Wikström N, Rydin C 2017. The chloroplast genome of *Ephedra foeminea* (Ephedraceae, Gnetales), an entomophilous gymnosperm endemic to the Mediterranean area. *Mitochondrial DNA* 28: 330–331.

Larsson D. 2017. Polyploid origins of *Dryopteris dilatata* in Fenno-Scandinavia? Master's thesis, Stockholm University (supervisor: Niklas Wikström).

Humphreys AM, Rydin C, Jönsson KA, Alsop D, Callender-Crowe LM Barraclough TG. 2016. Detecting evolutionarily significant units above the species level using the Generalized Mixed Yule Coalescent method. *Meth Ecol Evol* 7: 1366–1375.

Hou C, Wikström N, Strijk JS, Rydin C 2016. Resolving phylogenetic relationships and species delimitations in closely related gymnosperms using high-throughput NGS, Sanger sequencing and morphology. *Plant Syst Evol* 302: 1345–1365.

Persson N, Rydin C 2016. Phylogenetic relationships of the 'Briza complex' to other members of the subfamily Pooideae (Poaceae). *Plant Ecol Evol* 149: 216–227.

Bolinder K, Humphreys AM, Ehrlén J, Alexandersson R, Ickert-Bond SM, Rydin C 2016. From near extinction to diversification by means of a shift in pollination mechanism in the gymnosperm relict *Ephedra* (Ephedraceae, Gnetales). *Bot J Linn Sci* 180: 461–477.

Hou C. 2016. Evolutionary studies of the Gnetales. PhD thesis, Stockholm University (main supervisor: C. Rydin).

Rydin C, Hoorn C 2016. The Gnetales: past and present. *Grana* 55(1): 1–4.

Bolinder K, Norbäck Ivarsson L, Humphreys AM, Ickert-Bond SM, Han F, Hoorn C, Rydin C 2016. Pollen morphology of *Ephedra* (Gnetales) and its evolutionary implications. *Grana* 55(1): 24–51.

Han F, Rydin C, Bolinder K, Dupont-Nivet G, Abels AH, Koutsodendris A, Zhang K, Hoorn C. 2016. Steppe development on the Northern Tibetan Plateau inferred from Paleogene ephedroid pollen. *Grana* 55(1): 71–100.

Larsén E, Rydin C 2016. Disentangling the phylogeny of *Isoetes* (Isoetales), using nuclear and plastid data. *Int J Plant Sci* 177(2): 157–174.

Jørgensen A, Rydin C 2015. Reproductive morphology in the *Gnetum cuspidatum* group (Gnetales) and its implications for pollination biology in the Gnetales. *Plant Ecol Evol* 148(3): 387–396.

Rydin C, Bolinder K 2015. Moonlight pollination in the gymnosperm *Ephedra* (Gnetales). *Biol Lett* 11: 20140993. *Read about the study in National Geographic [here](#), and [here](#), and listen to report in [Swedish Radio](#).*

Persson N. 2015. Phylogenetic relationships of the *Briza* complex to other members of the subfamily Pooideae (Poaceae). Master's thesis, Stockholm University (supervisor: C. Rydin).

Hou C, Humphreys AM, Thureborn O, Rydin C 2015. New insights into the evolutionary history of *Gnetum* (Gnetales). *Taxon* 64: 239-253.

Bolinder K, Niklas KJ, Rydin C 2015. Aerodynamics and pollen ultrastructure in *Ephedra* (Gnetales). *Am J Bot* 102: 457-470. *Highlighted as "paper of the month" by the journal.*

Jörgensen A. 2014. Reproduktiv morfologi hos *Gnetum cuspidatum*-gruppen och dess implikationer för evolution av pollinationsbiologi inom Gnetales. Bachelor thesis, Stockholm University (supervisor: C. Rydin).

Bolinder K. 2014. Pollination in *Ephedra* (Gnetales). Licentiate thesis, Stockholm University (main supervisor: C. Rydin).

Thureborn O. 2014. New insights to the deep divergences in *Ephedra* using molecular data. Master's thesis, Stockholm University (supervisor: C. Rydin).

Hou C. 2014. Proteomics and phylogenetics of the Gnetales. Licentiate thesis, Stockholm University (main supervisor: C. Rydin).

Norbäck Ivarsson L. 2013. Pollen morphology in *Ephedra* (Gnetales) and implications for understanding fossil ephedroid pollen from the Tibetan Plateau, using a phylogenetic approach. Master's thesis, Stockholm University (supervisor: C. Rydin).

Eliasson C. 2013. Hur pollinerar kottpalmer? Bachelor thesis, Stockholm University (supervisor: C. Rydin).

Norbäck Ivarsson L, Ivarsson M, Lundberg J, Sallstedt T, Rydin C 2013. Epilithic and aerophilic diatoms in the artificial environment of Kungsträdgården metro station, Stockholm, Sweden. *Int J Speleol* 42: 289-297.

Bolinder K. 2011. Pollination mechanisms in *Ephedra* (Gnetales) in north-eastern Greece. Master's thesis, Uppsala University (supervisor: C. Rydin).

Ickert-Bond SM, Rydin C 2011. Micromorphology of the seed envelope of *Ephedra* L. (Gnetales) and its relevance for the timing of evolutionary events. *Int J Plant Sci* 172(1): 36-48.

Rydin C, Khodabandeh A, Endress PK 2010. The female reproductive unit of *Ephedra* (Gnetales): comparative morphology and evolutionary perspectives. *Bot J Linn Soc* 163: 387-430.

Rydin C, Friis EM 2010. A new Early Cretaceous relative of Gnetales: *Siphonospermum simplex* gen. et sp. nov. from the Yixian Formation of northeast China. *BMC Evol Biol* 10: 183.

Ickert-Bond SM, Rydin C, Renner SS 2009. A fossil-calibrated relaxed clock for *Ephedra* indicates an Oligocene age for the divergence of Asian and New World clades and Miocene dispersal into South America. *J Syst Evol* 47: 444-456.

- Rydin C, Korall P 2009. Evolutionary relationships in *Ephedra* (Gnetales) – with implications for seed plant phylogeny. *Int J Plant Sci* 170: 1031–1043.
- Rydin C, Razafimandimbison SG, Khodabandeh A, Bremer B 2009. Evolutionary relationships in the Spermaceae alliance (Rubiaceae) using information from six loci: insights into systematic affinities of *Neohymenopogon* and *Mouretia*. *Taxon* 58: 793–810.
- Rydin C, Kainulainen K, Razafimandimbison SG, Smedmark JEE, Bremer B 2009. Deep divergences in the coffee family and the systematic position of *Acranthera*. *Plant Syst Evol* 278: 101-123.
- Rydin C, Razafimandimbison SG, Bremer B 2008. Rare and enigmatic genera (*Dunnia*, *Schizocolea*, *Colletocema*), sisters to species-rich clades: Phylogeny and aspects of conservations biology in the coffee family. *Mol Phylogenet Evol* 48: 74-83.
- Razafimandimbison SG, Rydin C, and Bremer B 2008. Evolution and trends in the Psychotrieae alliance (Rubiaceae) - A rarely reported evolutionary change of many-seeded carpels from one-seeded carpels. *Mol Phylogenet Evol* 48: 207-223.
- Smedmark JEE, Rydin C, Razafimandimbison S, Khan SA, Liede-Schumann S, Bremer B 2008. A phylogeny of Urophylleae (Rubiaceae) based on *rps16* intron data. *Taxon* 57: 24-32.
- Rydin C, Pedersen KR, Crane PR, Friis EM 2006. Former diversity of *Ephedra* (Gnetales): evidence from Early Cretaceous seeds from Portugal and North America. *Ann Bot* 98: 123-140.
- Rydin C, Wu S-Q, Friis EM 2006. *Liaoxia* Cao et SQ Wu (Gnetales): ephedroids from the Early Cretaceous Yixian Formation in Liaoning, northeastern China. *Plant Syst Evol* 262: 239-265.
- Rydin C, Friis EM 2005. Pollen germination in *Welwitschia mirabilis* Hook.f.: differences between the polyplicate pollen producing genera of the Gnetales. *Grana* 44: 137-141.
- Rydin C, Pedersen KR, Friis EM 2004. On the evolutionary history of *Ephedra*; Cretaceous fossils and extant molecules. *Proc Natl Acad Sci USA* 101: 16571-16576.
- Rydin C, Mohr BAR, Friis EM 2003. *Cratonia cotyledon* gen. et sp. nov.: a unique Cretaceous seedling related to *Welwitschia*. *Proc Roy Soc London* 270:S1: 29-32.
- Mohr BAR, Rydin C 2002. *Trifurcatia flabellata* n. gen. n. sp., a putative monocotyledon angiosperm from the Lower Cretaceous Crato Formation (Brazil). *Fossil record* 5: 335-344.
- Anderberg AA, Rydin C, Källersjö M 2002. Phylogenetic relationships in the order Ericales s.l.: analyses of molecular data from five genes from the plastid and mitochondrial genomes. *Am J Bot* 89: 677-687.
- Rydin C, Wikström N 2002. Phylogeny of *Isoetes* (Lycopsida): resolving basal relationships using *rbcL* sequences. *Taxon* 51: 83-89.
- Rydin C, Källersjö M 2002. Taxon sampling and seed plant phylogeny. *Cladistics* 18: 485-513.
- Rydin C, Källersjö M, Friis EM 2002. Seed plant relationships and the systematic position of Gnetales based on nuclear and chloroplast DNA: conflicting data, rooting problems and the monophyly of conifers. *Int J Plant Sci* 163: 197-214.

