

# CURRICULUM VITAE: Alexandre Antonelli

*My passion is nature, and my mission is to **understand and protect biodiversity**. To tackle this major challenge, I study the distribution and evolution of species, develop methods to speed up research and conservation, and collaborate with scientists around the world. My focus is on the tropics, where most species occur and the threats are most acute.*



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## ACADEMIC PROFILE

**27,517 citations, h-index: 79, i10-index: 232**

257 peer-reviewed publications in journals and books, including in several *Nature* journals, *Science*, *PNAS*. Selected and full list of publications at end of CV; for current statistics please visit [this link](#).

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KEYWORDS: AI – BIODIVERSITY – BIOGEOGRAPHY – CONSERVATION – EVOLUTION — NEOTROPICS – PHYLOGENETICS

## EMPLOYMENT

### Current:

- **Executive Director of Science – Royal Botanic Gardens, Kew (Feb 2019 – present)**  
RBG Kew is the world's leading botanical garden in terms of research and collections of plants and fungi. My role entails leadership and management across the entire Science Directorate (over 600 staff + c 300 associated researchers) and scientific collections at our sites in Kew Gardens, Wakehurst and Madagascar.
- **Full Professor in Systematics and Biodiversity – University of Gothenburg (Jun 2015 – present)**  
Leader of an active and cross-disciplinary research group in evolutionary biology, supervisor of several students and postdocs, and lecturer in courses at basic and advanced levels.

### Previous:

- Founder & Director – Gothenburg Global Biodiversity Centre (Jan 2017 – Mar 2019)
- Chairman and Founder – [knowme.earth](#) (2015 – 2020)
- Scientific Curator – Gothenburg Botanical Garden (Aug 2010 – Jan 2019)
- Science Advisor – Universeum Science Centre (Jan 2016 – Dec 2018)
- Cisneros Visiting Scholar – Harvard University (Jan 2018 – Jul 2018)
- Associate Professor and Senior Lecturer – University of Gothenburg (Apr 2014 – Jun 2015)
- Researcher – University of Gothenburg (Jan 2012 – Apr 2014)
- Associate staff member – Panama Canal Project (Sep 2011 – Dec 2016)
- Postdoctoral Fellow – Institute of Systematic Botany, University of Zurich (Jan 2009 – Jul 2010)
- Assistant teacher – Botanical Institute, University of Gothenburg (July 2003 – November 2008)
- Field assistant – Latnjajaure Field Station, Abisko (July 2001)
- Short-term employments (language interpreter, computer programmer, divemaster, waiter etc) in the UK, France, Mexico, Honduras, Brazil, Sweden (<2001)

## DISTINCTIONS, AWARDS AND ADVISORY GROUPS

- Appointed to the WWF International Board of Trustees (2025-)
- Elected Member of Academia Europaea (2024-)
- Elected Foreign Fellow of the Royal Swedish Academy of Sciences (2023-lifetime)
- Visiting Professor, Wuhan Botanical Garden, Chinese Academy of Sciences (2023–2028)
- Distinguished Scientist of the Chinese Academy of Sciences, President's International Fellowship Initiative (2023)
- Elected member of the CBD Informal Advisory Group on Technical and Scientific Cooperation (2023-)
- Member of the International Advisory Panel on Biodiversity Credits (2023-)
- Elected Fellow of the Royal Geographical Society (2023-)
- Senckenberg Prize for Nature Research (2022)

- Featured on Web of Science/Clarivate ‘Highly Cited Researchers’ list (2020, 2021, 2022, 2023) and in the ‘Updated science-wide author databases of standardized citation indicators’ (listing top 100,000 scientists across all scientific disciplines – Ioannidis et al 2020; DOI: <https://doi.org/10.1371/journal.pbio.3000918>)
- Visiting Professor in Biology, University of Oxford (2020–)
- Fellow of the Royal Society of Biology (2020–)
- Ebbe Nielsen Challenge, GBIF, 1st prize (2021, with A. Zizka, J. Klein, S. Lindberg, O. Rydén), 1st prize (2020, with I. Ondo, S. Pironon, W. Thuiller, M. Gueguen), 2nd prize (2016, with A. Zizka and D. Silvestro)
- Cisneros Visiting Scholar, DRCLAS, Harvard University (2018)
- ‘Sweden's 100 coolest researchers’, Swedish Science Festival (2017)
- Elected Fellow of the Royal Society of Arts and Sciences in Gothenburg (2016–lifetime)
- Future Research Leader, Foundation for Strategic Research, Sweden (2016)
- Elected Fellow of the Young Academy of Sweden (2016–2019)
- Elected Fellow of the Young Academy of Europe (2013–2020)
- The Faculty of Science Research Award, University of Gothenburg (2015)
- Wallenberg Academy Fellow, Knut and Alice Wallenberg Foundation (2014)

## EDUCATION

- PhD, University of Gothenburg (Jul 2003 – Nov 2008; awarded 03 Feb 2009). Title: “Spatiotemporal Evolution of Neotropical Organisms: New Insights into an Old Riddle”.
- MSc, Biology, University of Gothenburg, Sweden (2003)
- Undergraduate studies in biology, University of Geneva (1997, 2 weeks)
- Undergraduate studies in biology, Universidade Estadual de Campinas, Brazil (1996, 6 months)

## NEW SPECIES NAMED

- *Ciliosemina* Antonelli (Rubiaceae)
- *Ciliosemina pedunculata* (H.Karst.) Antonelli (Rubiaceae)
- *Ciliosemina purdieana* (Wedd.) Antonelli (Rubiaceae)
- *Cordia montana* C. H. Perss., Delprete & Antonelli (Rubiaceae)
- In honour: *Siphocampylus antonellii* Lagom. & D. Santam. (Campanulaceae)
- In honour: *Camaridium antonellii* O.Pérez & Bogarín (Orchidaceae)

## EDITORIAL POSITIONS

- Main editor for joint special issue in *New Phytologist* and *Plants, People, Planet* (2024–2026): Harnessing the Benefits of Digitisation (with Rhian Smith, Isabel Larridon, Vince Smith, Damon Little, Charles Davis, Stephen Smith)
- Editor, *Global Change Biology* (2024–2025)
- Associate editor, *Systematic Biology* (2015–)
- Main editor for joint special issue in *New Phytologist* and *Plants, People, Planet* (2021–2023): Global Plant Diversity and Distribution (with Rafaël Govaerts, Eimear Nic Lughadha, Renske Onstein, Rhian Smith, Alexander Zizka)
- Guest editor, *Proceedings of the National Academy of Sciences* (2020 – 2021, 2024)
- Main editor for [State of the World's Plants and Fungi](#) (2020) (with Carolyn Fry, Paul Kersey, Hugh Pritchard, Monique Simmonds and Rhian Smith)
- Main editor for special issue in *Plants, People, Planet* (2020): [Protecting and sustainably using the world's plants and fungi](#) (with Simon Hiscock, Sarah Lennon, Monique Simmonds, Rhian Smith, Bennett Young)
- Associate editor, *Journal of Biogeography* (2015 – 2019)
- Associate editor, *Journal of Systematics and Evolution* (2014 – 2020)
- Senior editor for book commissioned by Wiley: Hoorn, C., Perrigo, A. & Antonelli, A. (2018) *Mountains, Climate and Biodiversity*. Wiley-Blackwell, pp 544.
- Associate editor, *Botanical Journal of the Linnean Society* (2011–2016)
- Associate editor, *PhytoTaxa* (2011–2016)
- Main editor for special volume of *Botanical Journal of the Linnean Society* (2012): [Neotropical Plant Evolution: Assembling the Big Picture](#) (with Toby Pennington, Colin Hughes and Michael Fay)

## FUNDING AWARDED (SELECTION; c. €8.7M in last 8 years as PI, €8.4m as Co-I)

### As Principal Investigator:

- Swedish Research Council; “**Optimising biodiversity and carbon recovery in Neotropical forests**” (€348,000; 2025–2028)
- Private donation for research and conservation (SEK 50,000,000 – c €4,470,000 ) (2022–2031)
- Swedish Research Council; ‘Online Phylogenetics: Integrating genomic and single gene data in real time’ (€460,000; 2020–2023)
- Kew Foundation; support package for developing an individual research programme at the Royal Botanic Gardens, Kew from philanthropic sources (€1,738,000 – £1.5m; 2019–2023)
- Biodiversity & Ecosystem Services in a Changing Climate; BioDem: Assessing the link between biodiversity and democracy; Co-applicants: Allison Perrigo, Alexander Zizka, Staffan Lindberg (€14,000; 2018–2019)
- Biodiversity & Ecosystem Services in a Changing Climate; Co-applicant: Allison Perrigo (€40,000; 2018–2019)
- Biodiversity and Ecosystem Services in a Changing Climate; postdoc grant; “Integrating past and future models to mitigate the impact of global change on biodiversity”; Co-applicants: Christine Bacon, Rutger Vos, Johan Ekroos, Niklas Wahlberg (€13,000; 2018–2020)
- University of Gothenburg, Faculty of Science Sabbatical Programme (€110,000; 2018–2019)
- Harvard University, David Rockefeller Center for Latin American Studies; guest professorship (€22,000; Jan-Jun 2018)
- Faculty of Sciences, University of Gothenburg; sabbatical program (€110,000; Jan-Jun 2018)
- Wenner-Gren Foundation; sabbatical program (€13,000; Jan-Jun 2018)
- Swedish Foundation for Strategic Research, Future Research Leaders; "New tools to study and protect biodiversity" (€1,130,000; 2017–2021)
- Gothenburg Global Biodiversity Centre (€165,000; 2017-2019)
- Biodiversity and Ecosystem services in a Changing Climate (€19,000; 2017)
- Biodiversity and Ecosystem services in a Changing Climate (€37,000; 2016–2018)
- European Research Council Proof of Concept; “BioNote – A crowdsourcing platform for identifying and learning about all species on Earth” (€150,000; 2016)
- SciLifeLab; “Testing Traditional Plant Knowledge with Phylogenomics” (€28,000; 2015)
- Swedish Research Council; “Assessing biodiversity: Beyond the taxonomic impediment” (€377,000; 2016–2019)
- Wallenberg Academy Fellowship; “The rise and fall of species” (€706,000; 2015–2020)
- Infrastructure grant, Faculty of Sciences, University of Gothenburg (€38,000; 2015)
- The Faculty of Sciences Research Award, University of Gothenburg (€24,000; 2015)
- Strategic funding from the University of Gothenburg (€353,000; 2015–2020)
- Gothenburg Centre for Advanced Studies in Science and Technology (€5,000; 2015)
- Infrastructure grant, Faculty of Sciences, University of Gothenburg (€47,000; 2014)
- SciLifeLab Bioinformatics Long-term Support (500 hours of bioinformatics support; “Next-Gen Phylogenetics”)
- European Research Council Starting Grant; “The Past, Present and Future of Neotropical Biodiversity” (€1,500,000; 2013–2017)
- Strategic funding from the University of Gothenburg (€354,000; 2013–2017)
- Carl Tryggers Stiftelse for a post-doc and equipment (€28,000; 2013)
- Swedish Research Council; “Neotropical Diversification: When, Where and How?” (€452,000; 2012–2015)
- Carl Tryggers Stiftelse (€31,000) and Wenner-Gren (€34,100) for post-docs, The Johan & Jacob Söderbergs Foundation (€11,000); Helge Axson Johnson (€5,700) and Wilhelm and Martina Lundgren (€1,360) for sequencing; Adlebert Research Foundation (€2,000) and Wenner-Gren (€1,360) for travel (2012)
- Carl Tryggers Foundation (€31,300) for research; the Royal Society of Arts and Sciences in Göteborg (€3,300) for fieldwork; Längmanska Kulturfonden (€3,300) for conference costs; Martina Lundgren (€360) and Helge Axson Johnsons Foundation (€3,300) for equipment (2011)
- The Royal Swedish Academy of Sciences (€16,900) for fieldwork; The Royal Society of Arts and Sciences in Göteborg (€4,100) for fieldwork; Lars Hiertas Minne (€2,750) for equipment; Wenner-Gren (€1,540) for conference costs; Wilhelm and Martina Lundgren (€1,650) for research costs; Systematics Association (€1,900) for equipment (2010)

### As co-applicant:

- NERC-NSF: Tackling The Molecule–Fossil Divide In Angiosperm Evolution Using Fossil Pollen, Super-Resolution Microscopy, And Deep Learning, led by Luke Mander, Open University (€1m; 2025-2028)
- MISTRA, BIOPATH – Pathways Towards an Efficient Alignment of the Financial System with the Needs of Biodiversity; led by Lund University (€4.8m – SEK 50m)
- European Research Council, Advanced Grant; main applicant Catherine Graham (€2,500,000)
- European Training Network/ITN H2020; main applicant Hugo de Boer (€4,062,035)
- Swedish Research Council; main applicant Christine Hansen (€556,000)
- Vinnova; main applicant Alexander Eiler (€28,000; 2017)
- Lundbeck foundation; main applicant Nina Rønsted (€225,000; 2015–2016)
- Carlsberg foundation; main applicant Nina Rønsted (€175,000; 2012–2013)
- Freja Stipendium; main applicant Nina Rønsted (€309,000; 2012–2013)
- National Natural Science Foundation of China; main applicant Qjang Zhang (€27,200; 2013-2015)
- Venezuelan Research Council; main applicant Mauricio Bermudez (€54,000; 2013–2015)

### PEER REVIEWS

*African Journal of Microbiology Research; American Journal of Botany; **American Naturalist**; Annals of Botany; Annali Botanici Fennici; AoB PLANTS; Applied Vegetation Science; Arthropod-Plant Interactions; Australian Journal of Botany; **Biological Journal of the Linnean Society**; Biological Reviews; Biotropica; Botanical Journal of the Linnean Society; **BMC Biology**; BMC Plant Biology; Brittonia; Cambridge University Press; Cladistics; Ecography; **Ecology Letters**; **Evolution**; Evolutionary Ecology; Elsevier Academic Press; Filbert Press; Frontiers of Biogeography; Frontiers in Ecology and Evolution; Frontiers in Genetics; **Gene**; Geobiology; Geological Journal; **Global Ecology and Biogeography**; **Heredity**; Journal of Biogeography; Journal of Evolutionary Biology; Journal of Geography and Regional Planning; Landscape and Urban Planning; **Methods in Ecology and Evolution**; **Molecular Ecology**; Molecular Ecology Resources; Molecular Phylogenetics and Evolution; Natur och Kultur; **Nature**; **Nature Communications**; **Nature Ecology and Evolution**; **Nature Food**; **Nature Plants**; **New Phytologist**; Nordic Journal of Botany; Oecologia; Organisms Diversity and Evolution; Oxford University Press; Perspectives in Plant Ecology, Evolution and Systematics; PhytoTaxa; Plant Systematics and Evolution; **PLoS Biology**; PLoS One; Princeton University Press; **Proceedings of the National Academy of Sciences of the USA**; **Proceedings of the Royal Society B**; Quaternary Science Reviews; Regnum Vegetabile; Rodriguesia; Scientia Danica Series B; Scientific Reports; **Science**; **Systematic Biology**; Systematic Botany; Taxon; **Trends in Ecology and Evolution**.*

### PRESENTATIONS (full list available on request)

- >250 oral presentations at conferences, universities and other institutions around the world
- **Over 300** popular science contributions (talks, popular science articles, public blogs, movies and a book)

### TEACHING EXPERIENCE

- The Conference of the Parties. In: Environmental Assessments of Planetary Crises, Department of Biological and Environmental Sciences, University of Gothenburg (MSc course; 2024)
- The role of biodiversity in human and environmental health. (Kew/RHUL MSc course; 2022)
- Biodiversity & Sustainability: Living in harmony with nature. Summer School of Sustainability. (MSc course, University of Gothenburg; 2022)
- Biodiversity loss: Challenges and Solutions. Introductory presentation. (Kew/QMUL MSc course; 2021, 2022, 2023)
- Biogeography: explaining the geographical distribution of organisms, In: Introduction to Evolutionary Biology, Harvard University, USA. (Invited recorded lecture; PhD course; 2021)
- Evolutionary Biogeography: Biodiversity Data from Field to Yield, Natal, Brazil (Course leader; PhD course; 2018)
- Biogeography, In: Plant Diversity and Evolution, Harvard University, USA. (Invited lecture; PhD course; 2018)
- Biogeography, University of Aarhus, Denmark (Invited lectures; PhD course; 2014, 2018)
- Biodiversity Data in Ecology and Biogeography (workshop), University of Kiel, Germany. Botanikertagung (with Alexander Zizka; 2017).
- Discovery club for 4<sup>th</sup> and 5<sup>th</sup> classes (c. 10–12 years-old), arranged by the Faculty of Sciences, University of Gothenburg (2016)

- MSc/PhD workshops: Academic Writing (2015 onwards)
- Diversity in Time and Space, Nordic Academy of Biodiversity and Systematic Studies (MSc/PhD course; 2015–2017)
- Competition for 5th class (~10/11 years-old): "Which plant is this?" Co-arrangement with Gothenburg Botanical Garden (2015–2016)
- Annual course for teachers in Sustainable Development (ca. 70-100 students/lecture), Universeum Science Centre & University of Gothenburg (2014–present)
- BIO217: Evolutionary Biology, First cycle, University of Gothenburg (2014–2015)
- Photography for Biologists, University of Gothenburg (course leader together with Fredrik Plejel; PhD course; 2014)
- Molecular Dating, Natural History Museum of Denmark (PhD course; 2013, 2015)
- Biogeography and Macroecology, University of Aarhus, Denmark (PhD course; 2014)
- Advanced methods in Neotropical Biogeography. Center for the study of biodiversity in Amazonia, Kourou, French Guiana (PhD course; 10–12 October 2013)
- Phylogenetic Systematics and Molecular Dating, Natural History Museum of Denmark, Copenhagen (PhD course; 2013)
- DNA Barcoding, Uppsala University (Seminar at PhD course; 2012)
- Tropical Biodiversity, University of Gothenburg (Seminars at PhD course; 2010, 2012)
- Plant Diversity in the Tropics, Seminars in Gothenburg and field work in Ecuador (PhD course; 2010)
- Angiosperm Plant Families, University of Zurich (PhD course; 2009)
- Phylogeny and classification of Angiosperms, UNICAMP, Brazil (seminars at PhD course; 2008)
- Undergraduate courses: Floristics (basic and advanced levels), Biological Conservation, Ecology, Morphology & Systematics, Plant Diversity and Systematics, Systematic Biology. University of Gothenburg (2003–2008)

### **SUPERVISORY ROLES** (full list available on request)

- As main supervisor/mentor:  
4 post-docs, 1 mentee (current); 18 post-docs, 7 PhD students, 4 MSc students (previous)
- As co-supervisor/mentor:  
4 PhD students, 1 MSc, 1 mentee (current); 34 PhD students, 8 MSc students (previous)

### **POSTGRADUATE AND CAREER DEVELOPMENT COURSES**

- First Aid in Remote Places (2022)
- Coaching Your Team, Harvard University (2018)
- Delegating Responsibilities, Harvard University (2018)
- Making Feedback Work, Harvard University (2018)
- Fieldwork Safety and Best Practices, Harvard University (2018)
- Academic Leadership, Swedish Foundation for Strategic Research (2017–2021)  
[Extensive training programme in leadership in science and innovation, co-taught by the Swedish Defence University, including trips to study leadership in Singapore, China and Japan]
- Coaching in Academic Situations, University of Gothenburg (2015)
- Teaching and Learning in Higher Education: applied analysis, University of Gothenburg (2014)
- Supervision for the Experienced Supervisor in Third Cycle Education advanced level, University of Gothenburg (2013)
- Supervision in Postgraduate Programmes, advanced level, University of Gothenburg (2013)
- Teaching and Learning in Higher Education, basic level, University of Gothenburg (2012)
- Plant Systematics, University of Gothenburg (2007)
- Botanical Latin, University of Vienna (2006)
- Biogeography, University of Gothenburg (2006)
- Phylogenetic Systematics and Historical biogeography, University of Copenhagen (2005)
- Algae, University of Gothenburg (2005)
- Functional Plant Anatomy, (2005) University of Gothenburg
- Pedagogy, within Introductory course for PhD students (2004) University of Gothenburg
- Teaching science at undergraduate level (2003) University of Gothenburg
- Botanical nomenclature (2003) University of Gothenburg
- Plant geography (2003) University of Gothenburg

- Field ecology (2004) University of Gothenburg

## RESEARCH EXPERIENCE AND TECHNICAL SKILLS

- Specimen collection, identification, and databasing (mainly plants; but also insects, lizards and frogs; totalling >2,000 own specimens)
- Extensive fieldwork in: **Brazil, western Amazonia** (2 weeks, July 2003); **Brazil, Atlantic rainforest and Cerrado** (c 5 weeks in 2022; 8 weeks, December 2003–February 2004); **Costa Rica** (2 weeks, September 2005); **Panama** (2 weeks, September 2005); **Dominican Republic** (2 weeks, 2016); September 2005); **Sweden, Georgia, Austria, Greece [Crete]** (2 weeks each, 2005); **Iceland** (2004); **Switzerland** (2009–2010); **Ecuador** (2 weeks, 2010); **Brazil, central Amazonia** (2 weeks, August 2010); **Australia, Queensland** (1 week, July 2011); **Mexico, central highlands** (2 weeks, August 2011); **Brazil, pampas** (1 week, November 2011); **Uruguay** (2 days, November 2011); **Japan** (2 weeks, August 2012); **USA, Florida** (1 week, January 2013); **Colombia, Chocó and Andes** (3 weeks, April 2013); **Andes and eastern Colombia** (2 weeks, January 2014); **French Guiana** (2 weeks, October 2013); **Brazil, cerrado** (1 week, April 2014); **Peru, Andes and Amazon** (3 weeks, April 2014); **Bolivia, Andes** (2 weeks, October 2015); **Chile, Central and Southern** (3 weeks, January 2016); **South Africa** (2 weeks, August-September 2016); **Mozambique** (2 weeks, October-November 2017); **Panama** (4 days, April 2018); **Madagascar** (2 weeks, October-November 2019); **Tanzania** (8 days, June 2019); **Colombia** (2 weeks, January 2020); **Brazil** (2 weeks, January 2022); **China** (1 week, August 2023); **Costa Rica** (3 days, March 2024); **Colombia** (4 days, October 2024).
- Further species identification of plants through herbarium work at UEC (Brazil); SCZ (Panama); HUA (Colombia); JBSD (Dominican Republic); InBio (Costa Rica); S, GB (Sweden); P (France); K, RBGE (U.K.); MA (Spain); TBI (Georgia); Z, G (Switzerland); L, U (Netherlands); QCA (Ecuador); HUH (USA).
- Extensive experience in **laboratory techniques**, including extracting, amplifying and sequencing DNA using Sanger techniques
- Currently leading several projects employing **high-throughput next-generation sequencing** (NGS) techniques, including hybrid sequence capture, transcriptomes, full genomes, ultra-conservative elements
- Botanical **nomenclature and taxonomy**; species descriptions and taxonomic circumscriptions
- **Phylogenetic inference** and phylogenetic comparative methods
- Extensive experience (co-) leading **bioinformatic projects** (SUPERSMART, supersmartR, SECAPR, SpeciesGeoCoder, CoordinateCleaner, sampbias, PyRate, Infomap Bioregions, knowme.earth, raxmlGUI, iucn\_sim, Bio-Dem, restez, phylotaR, outsider, wege); see details at <http://antonelli-lab.net/software/>
- Extensive experience using a large number of **programs and scripts in evolution and ecology**, including phylogenetic inference, biogeographic analyses and molecular dating
- Intermediate knowledge of **programming** (R, Perl, python)

## EXPERT ADVISORY ROLES

### Grant and prize evaluations:

- Knut & Alice Wallenberg Foundation (2024)
- Stockholm Water Prize (2024)
- Austrian Research Council (2024)
- The Royal Society, UK (2017, 2023)
- European Research Council ERC (Starting and Consolidator Grants) (2022, 2023)
- Czech Science Foundation (Research Grants) (2019, 2016, 2022)
- Swedish Foundation for Strategic Research, Future Research Leaders programme (2022)
- German Research Foundation DFG (2011,2022)
- Knut and Alice Wallenberg (Project Grants; assessments for University of Gothenburg) (2021)
- European Research Council ERC (Consolidator Grants) (2021)
- German Centre for Integrative Biodiversity Research (iDiv) (sDiv Flexible Synthesis Projects) (2021)
- Volkswagen Foundation (2020)
- European Research Council ERC (Synergy Grants) (2019)
- Natural Environment Research Council NERC, UK; Standard Grants (2019)
- TALENT Doctoral Fellowship Programme, Denmark (2019)
- L'Oréal-Unesco For Women in Science (Research prize) (2016, 2018)
- Marsden Fund, New Zealand Royal Society (Research Grants) (2018)

- National Science Foundation, USA (Research Grants) (2016, 2018)
- German Centre for Integrative Biodiversity Research (iDiv) (2018)
- Chilean National Science and Technology Commission (2017)
- The Natural Environment Research Council of the UK (NERC) (2017)
- The Netherlands Organisation for Scientific Research (NWO) (2017)
- Ebbe Nielsen Challenge, Global Biodiversity Information Facility (2017)
- PhD proposal, State University of Feira de Santana (2016)
- German Council of Science and Humanities (Wissenschaftsrat), Federal Ministry of Education and Research BMBF (National Roadmap for Research Infrastructures) (2016)
- Czech Science Foundation (Research Grants) (2019, 2016)
- European Research Council ERC (Advanced Grants) (2015)
- Danish Council for Independent Research (Natural Sciences, Biology panel; Advanced Projects; evaluating c. 35–50 applications / year) (appointed member 2014–2017; Chair of Panel, 2017)
- The Research Foundation Flanders, the Netherlands (2016)
- American Association for the Advancement of Science (AAAS) (2014)
- Executive Agency for Higher Education, Research, Development and Innovation Funding (Environmental protection and management) (2014)
- Swedish Research Council: expert Swedish representative for new VR / FORMAS / CAPES programme in Climate Change Challenges between Sweden and Brazil (2014)
- Swedish Research Council: Invited external evaluator, SciLifeLab (2015)
- National Research Council of Romania (moderator in Biology & Ecology) (2012)
- National Geographic Society (2011, 2012, 2014, 2017)

#### Commissions of trust:

- Appointed to WWF International Board of Trustees (2025–)
- Member of the International Expert Advisory Panel to IUCN (2024–)
- Member of the Conservation Advisory Panel, World Land Trust (2024–)
- Member of the International Advisory Panel on Biodiversity Credits (2024–)
- External assessor, Faculty recruitment, Swedish Museum of Natural History (2024)
- Member of the External Scientific Advisory Committee, Real Jardín Botánico-CSIC (2024–)
- Review of University of Uppsala, Faculty of Sciences and Technology (2024)
- Trustee, World Wide Fund for Nature (WWF) – Sweden (2023–2024)
- Elected member of the Informal Advisory Group on Technical and Scientific Cooperation, Convention on Biological Diversity (2023–)
- Expert input, Updated Global Strategy for Plant Conservation (2023)
- [Panellist](#), The Biodiversity Challenge: Translating COP15 into action. The Curlew Action, online (2023)
- Advisory Committee member, Calleva Research Centre, Magdalen College, University of Oxford (2022–)
- External member, Energy and Environmental Committee, Royal Swedish Academy of Sciences (2022–)
- Evaluator, Ebbe Nielsen Award (2022)
- [Panellist](#), Living Planet Report. WWF Sweden, Stockholm (2022)
- Scientific Committee member, MONOCOTS VII, San José, Costa Rica (2022–2023)
- Expert Evaluator, Scientific Council of Natural and Engineering Sciences, Swedish Research Council (2022)
- External assessor, Faculty recruitment, Harvard University (2022)
- Member of Advisory Board, Milkyware / Give One, Sweden (2021–)
- Member of Science Advisory Board, Naturalis Biodiversity Centre, The Netherlands (2020–)
- Expert Reviewer, The Dasgupta Review on the Economics of Biodiversity commissioned by the Treasury of the United Kingdom (2020)
- Member of the Defra Group Evidence, Science and Analysis Committee (GESAC) (2020–)
- Member of the Science Advisory Committee for the Swedish Biodiversity Data Infrastructure (2019–)
- Expert Reviewer, Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC) by the United Nations Intergovernmental Panel on Climate Change (UN IPCC) (2019)
- Strategic Advisor, Plants, People, Planet (New Phytologist Trust (2019–)
- Panellist, “The Gordon Goodman Memorial Lecture 2018”. Stockholm Environment Institute, Royal Swedish Academy of Sciences, Stockholm (25 Sep 2018)

- Co-PI and Deputy Theme Coordinator ("Identifying efficient strategies for biodiversity conservation under the combined pressures from climate change and land use change"). BECC programme - Biodiversity and Ecosystem services in a Changing Climate
- Member of collaboration committee between the University of Gothenburg and Gothenburg Botanical Garden (1 Jul 2017 – 30 Jun 2020)
- Member of reference board, Swedish National Infrastructure for Computing (SNIC) / UGOT
- Member of reference board, project 'Medicinareberget' (University of Gothenburg; 2015–2016)
- Member of nomination committee, Swedish Systematics Association (2015–2016)
- Regular consultant for PhD evaluations and grant writing workshops at GU
- Founder (2011) and coordinator, NNB – Network for Neotropical Biogeography; joined in 2018 with the Red Latinoamericana para el Estudio de la Biogeografía Neotropical
- Moderator, "The Societal Value of Science". University of Gothenburg (Dec 2011)
- Member of Advisory Board for science education, Faculty of Sciences at University of Gothenburg (2010 – current)
- Appointed member of Swedish network for pedagogic development in higher education (2013 – current)
- Appointed member of Supervisor Panel, University of Gothenburg (2014 – current)
- Appointed member of Advisory Board, University Library (2005–2008)
- Appointed member of 'Dots to Surfaces' Task Force, Global Biodiversity Information Facility (2015–onwards)
- Treasurer, Silverkällan Housing Society (2004–2007)

#### Evaluation of theses and promotions:

- PhD, Francisco Velásquez, Universität Leipzig, Germany (2025) [referee]
- PhD, Zili Yuan, ETH Zurich, Switzerland (2024) [referee]
- Promotion to Research Director, Dr Heini Kujala, University of Helsinki (2024) [referee]
- PhD, Ben Nyberg, University of Copenhagen, Denmark (2024) [opponent]
- PhD, Patrícia Gueratto, Universidade de Campinas, Brazil (2023) [referee]
- Promotion to Associate Curator, Florida Museum of Natural History, University of Florida (2023) [referee]
- Promotion to Associate Professor, Dr Anahí Espíndola, University of Maryland (2023) [referee]
- PhD, Patrícia Gueratto, Universidade de Campinas, Brazil (2023) [referee]
- Promotion to Personal Chair, Dr Lucy Rowland, University of Exeter (2023) [referee]
- PhD, Vinícius Resende Bueno, Universidade Federal do Rio Grande do Sul, Brazil (2023) [opponent]
- External Evaluator for the position as Professor for Biodiversity of Angiosperms, Goethe Universität (2022)
- External Evaluator for the position as Professor of Plant Systematics and Evolution, Univ of Vienna (2021)
- PhD, Felipe Freitas, University of São Paulo, Brazil (2021) [referee]
- PhD, Alexandre Rejaud, University of Toulouse, France (2021) [opponent]
- Promotion to Research Director, Dr Olivier Hardy, Free University of Brussels, Belgium (2020) [referee]
- PhD, Cecilia Fonseca Fiorini, University of Minas Gerais, Brazil (2020) [referee]
- PhD, Mariana Braga, University of Stockholm, Sweden (2019) [opponent]
- PhD, Diego Bogarín, University of Leiden, Netherlands (2019) [referee]
- Promotion to Associate Professor, Dr Malik Al-Ajlouni, University of Jordan (2019) [referee]
- Promotion to Curator, Dr Richard Ree, Chicago Field Museum, USA (2018) [referee]
- Promotion to Professor, Dr Spyros Sfenthourakis, University of Cyprus (2018) [referee]
- Promotion to Associate Professor, Dr Erin Tripp, University of Colorado, USA (2018) [referee]
- PhD, Patrick Strutzenberger, University of Vienna, Austria (2018) [committee]
- PhD, Maitreya Sil, Indian Institute of Science, Bengaluru, India (2018) [committee]
- PhD, Pedro Luiz Silva de Miranda, University of Edinburgh, UK (2018) [committee]
- PhD, Théo Gaboriau, University of Montpellier, France (2018) [committee]
- Promotion to DSc, Andimuthu Ramachandran, Anna University, India (2018) [referee]
- PhD, Julien Troudet, University of Sorbonne, France (2017) [committee]
- PhD, Jana Ebersbach, Leipzig University, Germany (2017) [committee]
- Promotion to Senior Lecturer, Dr Kyle Dexter, The University of Edinburgh, UK (2017) [referee]
- PhD, Hugh Burley, University of New South Wales, Australia (2017) [committee]
- PhD, Fabian Roger, University of Gothenburg (2017) [committee]
- PhD, Brigitte Nyirambangutse, University of Gothenburg (Dec 2016) [committee]
- Promotion to Professor, Dr Arthur Bos, American University in Cairo (2016) [referee]



- PhD, Brigitte Nyirambangutse, University of Gothenburg (Dec 2016) [committee]
- Promotion to Professor (Habilitation), Dr Jerome Murienne, CNRS, France (Nov 2015) [referee]
- PhD, Gwendolyn Peyre. Barcelona University (May 2015) [opponent]
- PhD, Léa Bardon. University of Toulouse (May 2015) [opponent]
- PhD, Anna Runemark. University of Lund (May 2012) [committee]
- PhD, Wolf L. Eiserhardt. University of Aarhus (Sep 2011) [opponent]
- MSc, Mats Töpel. University of Gothenburg (2003) [opponent]

## HOSTING OF GUEST RESEARCHERS AND STUDENTS (>1 month)

- Alexandre Salino, Universidade Federal de Minas Gerais, Brazil (Professor; Aug 2023-June 2024)
- Linde Wieringa, Ludwig Maximilian University of Munich (MEME student; May 2023)
- Joao de Deus Vidal Junior, Humbolt ICP Fellow, Universität Passau, Germany (Postdoc; Mar-Apr 2023)
- Shiran Gu, University of the Chinese Academy of Sciences (PhD student; Feb 2023-Feb 2024)
- Anna Victoria Maud, Universidade Federal do Paraná (PhD student; Sep 2022-Feb 2023)
- Marcelo Tejedor. Centro Nacional Patagonico, Argentina (Professor; Nov 2016 – Jul 2017)
- Renato de Mello-Silva. Universidade de São Paulo (Professor; Mar – Apr 2014)
- Léa Bardon. University of Toulouse (PhD student; Nov 2013 – Feb 2014)

## EVENT ORGANISATION

- Co-organiser, symposium “Biodiversity in Sweden – today and tomorrow”. Royal Swedish Academy of Sciences, Stockholm. (22 Mar, 2024).
- Host, conference “State of the World’s Plants and Fungi”, Royal Botanic Gardens, Kew (Hybrid event, October 2023)
- Co-organiser, workshop: Why biodiversity matters: Plants and Animals Across Natural Systems in Brazil. Harvard University (Virtual workshop; 29 October 2021).
- Host, conference “Reforestation for Biodiversity, Carbon Capture and Livelihoods”, Royal Botanic Gardens, Kew (Virtual event, 4400 registered participants; February 2021; with Kate Hardwick, Paul Smith and others)
- Host, conference “State of the World’s Plants and Fungi”, Royal Botanic Gardens, Kew (Virtual event, 3300 registered participants; September 2020)
- Second main organiser, symposium “Frontiers in parametric biogeography”, Evolution, Guarujá, Brazil (June 2015; with James Albert)
- Co-organiser, Swedish Systematics Meeting. Gothenburg (Nov 2014)
- Co-organiser, 15th Nordic Meeting on Tropical Botany, Copenhagen (13–15 Aug 2014; with Nina Rønsted, Mette Wenøe and others)
- Second main organiser, 2nd Meeting of the Network for Neotropical Biogeography, Miami (14 Jan 2013; with Christine Bacon)
- Session organiser, Neotropical Biogeography, International Biogeographic Society meeting, Florida (9–13 January 2013; with Catherine Graham, Daniel Gavin)
- Main organiser, 14th Nordic Meeting on Tropical Botany, Göteborg (6-8 Aug 2012; with Claes Persson, Roger Eriksson, Rosemeri Morokawa)
- Main organiser, symposium “Neotropical Plant Evolution: Assembling the Big Picture”, 18<sup>th</sup> International Botanical Congress, Melbourne, Australia (23–30 Jul 2011; with Toby Pennington, Colin Hughes)
- Second main organiser, conference on Niche Evolution, University of Zurich (2–3 Jul 2009; with Peter Linder, Rafael Wüest)
- Co-organiser, Swedish Systematics Meeting. Gothenburg (Nov 2010)
- Co-organiser, Symposium “Cenozoic plants and biosphere surrounding them”. International Palynological Conference, Tokyo, Japan (23–30 Aug 2012; with Carina Hoorn, Andre Pardo)
- Main organiser, exhibition ‘Orchid Extravaganza’, Gothenburg Botanical Garden (2011; 2012)
- Main organiser, exhibition ‘Desert Life (Succulents and cacti), Gothenburg Botanical Garden (2012)
- Co-organiser, exhibition ‘A fair and organic Christmas’, Gothenburg Botanical Garden (2010) (with Mats Havström)
- Co-organiser, exhibition ‘Threats to Amazonia’, Gothenburg Botanical Garden (2011; with Friends of the Earth)
- Many workshops (including bi-annual lab meetings with c. 20 people each time) at the Department of Biological and Environmental Sciences, GU, together with students and post-docs

- Co-organiser in “Floristics competition”, an annual outreach activity between GU and the Botanical garden for 5th-grade students (c. 11 years old) (2015– onwards)

## INNOVATIONS AND ENTREPRENEURSHIP

- Founder, The Hidden Universe: Biodiversity (HUB) initiative (<https://www.hu-b.org/>)
- Founder, Atlantic Forest Research and Conservation Alliance (<https://www.araca-project.org/>)
- Founder and President, the Antonelli Foundations for Biodiversity Research and Conservation (<https://www.antonelli-foundations.org/>)
- Co-founder, CAPTAIN Technologies Ltd. (<https://www.captain-project.net/>) (2022 – current)
- Founder (2015) and Chairman (2015 – 2020), KnowMe.Earth Innovation company. Products: *Knowme.earth* – A mobile platform for logging, identifying, and sharing information about all species on Earth; *Nyckelpigeförsöket* – A school app for integrating image recognition of ladybirds, using neural networks.

## MEDIA COVERAGE AND OUTREACH

- Hundreds of interviews for newspapers, magazines, radio, TV in many countries
- Profiled on BBC’s *The Life Scientific* ([19 Sep 2023](#))
- First popular science book *The Hidden Universe: Adventures in Biodiversity* listed by *The Guardian* in [COP15 essential reading: seven books that explain the biodiversity crisis](#) (28 Nov 2022)
- *State of the Worlds Plants and Fungi* 2020 and 2023 - international coverage including many major media outlets (Sky News, BBC, Channel 5, ITV).
- Kew Science YouTube film on Atlantic Forest research: <https://www.youtube.com/watch?v=ThAU8HFGeHc> and interview in [Panorama](#).
- Teaching tool on biodiversity and evolution developed for the Royal Academy of Sciences, Sweden: <https://www.kva.se/.../05/VS0mBiologiskMangfald230522.pdf>
- **TV and video interviews and lectures:** Public lecture as part of the International Botanical Congress, Madrid: [State of the World’s Plants and Fungi](#) (July 2024); Trollhättans Stad, [Föreläsning Alexandre Antonelli](#) (6 Feb 2024); [Dreams, Vision, Hope for the Future](#) (March 2024); [A World that Values Nature](#) [[Longer version here](#)] (6 Dec 2023); [Ahmad Tea Global tiktok video](#) (7 July 2023); SVT Play ([6 Nov 2022](#)); Poddtoppen ([Nov 2022](#)); special guest on Swedish TV Go’Kväll ([15 Sept 2022](#)); Globo ([9 Sept 2022](#)); [AI in the fight for biodiversity](#) (June 2022); [Living Nature 2021 – Flourishing Diversity](#) (9 Nov 2021); Global News ([3 Nov 2021](#)); World War Zero ([2 Nov 2021](#)); BBC News 24/BBC World TV (2 Nov 2021); SVT (2 Nov 2021); Globo (2 Nov 2021); urplay.se ([Nov 2021](#)); CGTN The Agenda ([9 Oct 2021](#)); Cosmic Shambles Network – Science Shambles ([12 Sept 2021](#)); BBC London ([1 Sept 2021](#) – State of the World’s Trees); Repórter Eco ([20 Oct 2020](#)); New Phytologist Foundation, [Testing traditional plant knowledge using genomic tools](#) (14 Oct 2019); My News (Brazil; [6 Oct 2019](#)), BOTANISKA TRÄDGÅRDSPODDEN ([26 Aug 2021](#)); [Sky News](#) (24 Aug 2019); BBC World News (30 Aug 2019); Brazilian national TV O Globo ([29 Jun 2019](#)); TV Cultura ([Feb 2019](#)); Swedish TV SVT (19 Nov 2017); Swedish TV SVT 1 (31 May 2017; 10-min documentary), SVT 1 (8 Nov 2010), University of Gothenburg ([2016](#)), Wallenberg Foundation (2016); Evolution, [Comparative biogeography: A framework for cross-taxonomic inference of bioregion evolution, range shifts and species diversification](#) (30 June 2015).
- **Radio interviews and podcasts:** Bloomsbury Radio, [Post-COP28 Business Show](#) (12 Feb 2024 ); BBC Radio, [The Life Scientific](#) (19 Sep 2023); State of the World’s Plants and Fungi 2023 (various); BBC Sounds, The Documentary, ‘[Kew Gardens: Botany and the British Empire](#)’ (18 July 2023); [New Scientist podcast #201](#) ([22 June 2023](#)); Stop Ecocide Canada podcast on COP15: [One Earth, One Chance, Many Voices: The UN Convention on Biological Diversity](#) (25 Jan 2023); The Guardian Science Weekly Podcast: ‘[The biggest meeting for humanity’: Why Cop15 has to succeed](#) (7 Dec 2022); Swedish Radio programmes: Trade in illegal Russian timber ([12 March 2024](#)); [Vital plants lack protection - "can accidentally wipe out species"](#) (1 Feb 2024); [SPECIAL Barnen som försvann i Amazonas djungel](#) (16 June 2023); ‘Naturmorgon’: [7 Jan 2023](#); [16 Jan 2021](#)), Amazonas’ collapse ([13 April 2022](#)), food biodiversity ([6 Mar 2022](#)), Humboldt ([17 Feb 2022](#)); Swedish National Radio P1 ([16 June 2023](#); [4 Apr 2023](#); [19 Dec 2022](#); [2 Dec 2022](#); [2 Nov 2022](#); 14 Sept 2022 [morning and lunchtime](#); 11 Aug 2021; [26 Jan 2021](#); [2 Jan 2020](#)); 27 August 2019; [29 Jan 2019](#); 27 August 2019; [29 Jan 2019](#); 31 Oct 2018; 30 Mar 2017; 3 March 2017; 29 Dec 2016, 13 Aug 2015; 29 Dec 2016, 13 Aug 2015, 3 March 2017, 30 Mar 2017, 31 Oct 2018); BBC World Service (9 Apr 2022); Swedish Radio P4 ([9 May 2023](#), [19](#)

[Dec 2022](#), 26 Jan 2021, 20 Nov 2017, 29 Dec 2016, 30 Sept 2016, 02 July 2010, 10 May 2011, 9 Jun 2011, 15 Feb 2012, 28 Apr 2012,; 26 Jun 2012); BBC Radio Scotland (2 Nov 2021); BBC Radio 6 Music (2 Nov 2021); Talk Radio (31 Oct 2021); Times Radio (31 Oct 2021); BBC Radio ([26 June 2021](#)); Times Radio ([26 Jan 2021](#)); LBC Radio (26 Jan 2021); Radio Canada ([1 Nov 2020](#)); BBC World News ([12 Sept 2020](#)); BBC Radio 4 ([24 Apr 2020](#)); BBC Radio 4, Today Programme ([14 Oct 2019](#)), BBC Radio Scotland, Good Morning Scotland ([14 Oct 2019](#)), BBC World Service Radio (23 Sep 2019), BBC London Radio (1 Sep 2019), BBC Radio Wales ([25 Aug 2019](#); [27 Aug 2019](#)), CBC Radio News, Canada (9 April, 2017; [30 Aug 2019](#)); Swedish Radio P1, Radio France Internationale ([Nov 2018](#))

- **Interviews, expert commentary and features on research and profile in journals, newspapers, magazines and websites.** The Guardian, [Botanists identify 33 global ‘dark spots’ with thousands of unknown plants](#) (1 Oct 2024); *The Biologist* Vol 71(1), [Don’t forget the fungi](#) (Mar 2024); Eureka Alert ([19 Dec 2023](#)); Mongabay ([27 Dec 2023](#)); The Guardian, [Great unknowns: nine top scientists on the one mystery on Earth they’d like to solve](#) (26 Dec 2023), also featured in Guardian articles on [29 Nov 2023](#), [27 Oct 2023](#), [5 Dec 2022](#), [28 Nov 2022](#), [31 Dec 2021](#), [8 Dec 2020](#), [31 Dec 2019](#)); The Observer, [Kew Gardens’ Alexandre Antonelli: ‘We may be losing species before we even notice them’](#) (7 Oct 2023); Panorama ([14 July 2023](#)); Miljö-utveckling ([20 Jun 2023](#)); Dagens Nyheter ([29 Jan 2023](#); [10 Jun 2023](#); [05 Jan 2023](#); [14 Dec 2022](#); [20 Nov 2022](#); [16 Nov 2022](#); [27 May 2022](#), [29 May 2022](#)); Glamorama ([25 Dec 2022](#)); Mail Online ([22 Dec 2022](#)); Reuters ([22 Dec 2022](#)); Lexology ([20 Dec 2022](#)); Revista Poder ([20 Dec 2022](#)); Göteborgs-Posten ([19 Dec 2022](#)); Science Media Centre ([19 Dec 2022](#): [UN Biodiversity Conference \(COP 15\) – What can we expect?](#)); 20minutos ([15 Dec 2022](#)); havet.nu ([12 Dec 2022](#)); Forskning & Framsteg ([9 Dec 2022](#)); Correio Brasiliense ([8 Dec 2022](#)); ARCHIV ([7 Dec 2022](#)); Ege’de SonSoz ([7 Dec 2022](#)); Klimat ([7 Dec 2022](#)); newspenguin.com ([7 Dec 2022](#)); Truthout ([7 Dec 2022](#)); CommonDreams.org ([6 Dec 2022](#)); Interia Zielona ([6 Dec 2022](#)); Thred ([6 Dec 2022](#)); The Times ([5 Dec 2022](#)); eCycle.com ([5 Dec 2022](#)); El Espectador ([5 Dec 2022](#)); Extrakt ([5 Dec 2022](#)); The Panama News ([5 Dec 2022](#)); The New Statesman ([5 Dec 2022](#)); Um So Planeta ([5 Dec 2022](#)); Yesil Gazete ([5 Dec 2022](#)); Africa News ([4 Dec 2022](#)); Express ([4 Dec 2022](#)); Madagascar Sun ([4 Dec 2022](#)); The Washington Time ([4 Dec 2022](#)); Sky News ([2 Dec 2022](#); [3 Dec 2022](#)); Agencia FAPESP ([2 Dec 2022](#)); Correio Braziliense ([2 Dec 2022](#)); Diario de Pernambuco ([2 Dec 2022](#)); Forskning.se ([2 Dec 2022](#)); My Droll ([2 Dec 2022](#)); O Cubo ([2 Dec 2022](#)); Queen Mary University of London ([2 Dec 2022](#)); Science Media Centre ([2 Dec 2022](#)); Sky News ([2 Dec 2022](#)); Typos.com ([2 Dec 2022](#)); Eureka alert ([1 Dec 2022](#)); Jornal da UNICAMP ([1 Dec 2022](#)); phys.org ([1 Dec 2022](#)); Göteborgs-Posten ([Dec 2022a](#); [Dec 2022b](#)); Sweden Posts English (Dec 2022); Wprost dom ([5 Nov 2022](#)); Natursidan.se ([2 Nov 2022](#)); Bokus ([Nov 2022](#)); UOL/EOA ([17 Sept 2022](#)); Extrakt.se ([15 Sept 2022](#)); [5x15](#) (June 2022); Senckenberg Prize coverage (April/May 2022; [sencekenberg.de](#): [Alpha Galileo](#); [Frankfurter Rundschau](#); [nachrichten.idw-online.de](#); [frankfurt-live.com](#); [Frankfurter Neue Presse](#); [Weinheimer Nachrichten](#); [NTV Germany](#); 1&1 Internet AG; RTL News; [t-online.de](#); [Münchner Merkur](#); [Gießener Allgemeine](#); [Werra Rundschau](#); [Waldeckische Landeszeitung](#); [Hessische/Niedersächsische Allgemeine \(HNA\)](#); [Wetterauer Zeitung](#); [Hanauer Anzeiger](#); [Frankfurter Rundschau online](#); [ZEIT online](#); [DIE WELT](#); [sueddeutsche.de](#); [Oberhessische Presse](#); Rhein-Main-Zeitung – Faz; [FAZ.net](#); [Bild.de](#); [Informations Dienst Wissenschaft](#) +25 print articles); La Repubblica ([19 April 2022](#)); Corriere delle Alpi ([19 April](#)); La Tribuna di Treviso ([19 April 2022](#)); Il Mattino di Padova ([19 April 2022](#)); Piauí ([Feb 2022](#)); Forskning & Framsteg ([14 Oct 2021](#)); Transform magazine (Dec/Jan 21/22); Aftonbladet ([25 Dec 2021](#)); Pesquisa FAPESP ([2 Dec 2022](#); [3 Dec 2021](#)); focali.se (22 Nov 2021); IEMA’s World War Zero magazine ([2 Nov 2021](#)); Ouest France ([2 Nov 2021](#)); Delo (Slovenia) ([2 Nov 2021](#)); University of Gothenburg ([28 Oct 2021](#)); SciDev.net ([21 Oct 2021](#)); ALLT OM TRÄDGÅRD (Oct 2021); En Foque, ABC Spain (30 Aug 2021); ABC, Spain ([27 Aug 2021](#)); Pesquisa FAPESP ([5 Sept 2021](#)); Época Negócios (17 Feb 2021); El Tiempo ([3 Nov 2020](#)); Pesquisa FAPESP ([15 Oct 2020](#)); Smithsonian Magazine ([9 Oct 2020](#)); New York Times ([8 Oct 2020](#)); The Conversation ([6 Oct 2020](#)); Smithsonian website ([6 Oct 2020](#)); Courthouse News Service ([5 Oct 2020](#)); New Scientist ([29 Sept 2020](#)); Pesquisa FAPESP ([23 Jul 2020](#)); BBC News ([27 June 2020](#)); Pesquisa FAPESP ([24 June 2020](#)); Horticulture Week ([24 June 2020](#)); GQ, Brazil ([22 Mar 2020](#)); BBC News ([20 Jan 2020](#)); TAB, Brazil ([21 Nov 2019](#)); Kew Magazine (Autumn 2019, pp 50–51, “Man on a Mission”); Al Jazeera ([24 Aug 2019](#)); First Post ([24 Aug 2019](#)); The Straits Times ([24 Aug 2019](#)); CNBC ([23 Aug 2019](#)); Express ([23 Aug 2019](#)); London Economic ([23 Aug 2019](#)); Sky News ([30 June 2019](#)); O Globo ([27 Jan 2019](#), [2 Aug 2019](#)); Independent ([6 May 2019](#)); The Times ([7 May 2019](#)); The Ecologist ([7 May 2019](#)); AFP ([7 May 2019](#)); BBC ([5 May 2019](#)); Oeco ([31 Mar 2019](#)); Richmond & Twickenham Times (23 Mar 2019); BBC (22 Mar 2019); Canal Londres ([Feb 2019](#)); Valor Econômico ([Feb 2019](#)); France 24 ([Feb 2019](#)); Valor Econômico ([11 Feb 2019](#) and [18 Feb 2019](#)); Revista FAPESP (Jan 2019 [in Portuguese](#) and [English](#)); Svenska Dagbladet (29 Dec 2016; 16 Jul 2018); ETC (Jan 2019); Allers Trädgård (Jan 2019); O Globo

Sociedade (27 Jan 2019); Terra da Gente ([13 Dec 2018](#)); Unicamp magazine ([30 Nov 2018](#)); Harvard Gazette ([July 23 2018](#)); Smithsonian Magazine (November 2018); WWF Eko 2 (2018); Biologen nr 4 (2018); Extrakt.se ([12 Feb 2018](#)), GU Magazine ([Feb 2019](#); April 2016, Front page and 'monthly profile' interview; [Dec 2016](#); [Oct 2018](#), Back cover); GBIF Science Review 2016, Daily Mail, Science Daily, Times of India, IBC World News (Aug 2015); Scientific American (15 Jun 2012); Curie (April 2014); Bionews (19 Feb 2011); Naturvetenskapliga utbildningar 2014–2015 (Nov 2013); Fauna & Flora (Jan 2011); Naturvetaren (Dec 2010); Allt om Trädgård (Nov 2018, Oct 2015, Mar 2017); Hemträdgården (Aug 2010); Göteborgs Direkt (30 Dec 2016); Dagens Industri / Framtidens Forskning (29 Jun 2017); Göteborgs Posten ([28 Nov 2022](#); 15 Nov 2018, Aug 2015, 09 Jun 2009, 02 Jul 2010, 10 May 2011, 5 Mar 2012, 2 Apr 2012, 25–26 Jun 2012, 25 August 2012, 15 Sep 2012, 28 Feb 2013, 14 May 2013, 30 Nov 2015, 8 Jan 2017); Wermlands-posten (28 Feb 2012); University of Gothenburg's journal GUspegel (nr 1, 2009); the Faculty of Science's magazine (nr 1, 2009; 2015; front page: <http://sciencefacultyjournal.se/alla-nummer/>); Metro (10 May 2011, 25 Apr 2012, Nov 2015); Biodiverse (Nov 2006); Kreativa Rum (May 2008); Aftonbladet (28 Apr 2012); Gullheden (Sep 2012); Wired.com [May 2016]).

- **Panel debates:** [The Youth Earth Talk](#), Senckenberg Society for Nature Research (29 Apr 2022); [Living Nature: Art, Science and Indigenous Knowledge](#), British Library (28 Oct 2021); Film Festival, Gothenburg Science Festival (04 May 2022).

#### Other media highlights:

- Media coverage of new waterlily species *Victoria boliviana* had a reach of 161.7 million people.
- Study on useful plants featured on cover of *Science*: <https://www.science.org/doi/10.1126/science.adg8028>
- Sister reviews on Madagascar's biodiversity in *Science* widely reported in the media (e.g. [Forskning & Framsteg](#); [Madagascar Sun](#); [Africa News](#); [Phys.org](#); [Swedish National Radio](#); [Extrakt](#); [O Cubo](#); [iDiv](#); [National Geographic](#))
- Extensive media engagement during COP26 and COP15, including multiple news and radio interviews (live interviews on BBC News 24, BBC World, Times Radio, BBC Radio SVT, Globo, Global News, BBC Radio Scotland & Ovest France), film on [CBD Live](#); [Defra video](#); [briefing with the Science Media Centre](#), two SciDev debates: [What developing countries need from COP26](#) and [Climate finance 'critical for developing countries' at COP26](#); and many news items (e.g. [Sky News](#), [The Times](#), [The New Statesman](#), [Dagens Nyheter](#); [Forskning & Framsteg](#)), and podcasts (e.g. [The Guardian](#)).
- 'Ten golden rules for reforestation' paper (2021) generated 184 pieces of media coverage (including Sky News and BBC Radio, and 18 international media pieces) with a circulation of 115,600,000 'opportunities to see'. Articles included: BBC News online ([26 Jan 2021](#)); Sky News online ([26 Jan 2021](#)); The Times ([26 Jan 2021](#)); The Telegraph ([26 Jan 2021](#)); BBC Newsround ([26 Jan 2021](#)); Daily Mail ([26 Jan 2021](#)). Global Change Biology's most downloaded article of 2021.
- Media coverage of release of RBG Kew's Science Strategy 2021–2025: Edinburgh Evening News (29 Sept 2021); Business Green ([28 Sept 2021](#)); Edie ([28 Sept 2021](#)); Horticulture Week ([28 Sept 2021](#)); Research Professional News ([28 Sept 2021](#)); HortWeek.com ([27 Sept 2021](#)).
- *State of the Worlds Plants and Fungi 2020* generated 214 pieces of UK coverage reaching 349m people and over 90 pieces of international coverage. *State of the World's Plants and Fungi 2023* generated 695 pieces of UK coverage and over 1,000 pieces of international coverage, with 302 million impressions.
- Article in The Conversation: Director of Science at Kew: it's time to decolonise botanical collections ([Jun 2020](#)) had 48,442 readers worldwide and also received 929 reactions on Facebook (921 positive).
- Debate article in Aftonbladet ([25 Dec 2021](#)): [Make large-scale damage to the environment criminal everywhere](#).
- Opinion article in The Guardian co-authored with Pella Thiel (23 June, 2021): [Ecocide must be listed alongside genocide as an international crime](#)
- Six interviews conducted as part of appearance at [Hay Festival](#), Cartagena, Colombia, 2 February 2020: (Publisher Weekly/ Boston Globe; Hay Today TV; Canal Sur tv and online; Nexos, Mexico; El Tiempo daily newspaper)
- 21-minute documentary "Searching for Nature's Miraculous Medicines" shown on Swedish National Television SVT 2 (12, 14 and 16 Mar 2018).
- Featured seven times in *Science* magazine in the columns "Editor's Choice" (in text and images), in the Editorial: *Science* 324: 1366 (2009), *Science* 330: 153 (2010), *Science* 332: 15 (2011), *Science* (19 July 2013), *Science* 348: 6236 (2015), *Science* 350: 6260 (2015, plus a related *Science* podcast), and in "News" ([7 May](#)

2019; 20 Apr 2016). BBC podcast (BBC World Service, 23 Sep 2019) [Climate Action: Should we plant more trees?](#) Ritter et al. (2019) [one of the top 100 downloaded ecology papers for Scientific Reports in 2019](#).

- ‘[Sommar i P1](#)’: 1.5h-long programme on Swedish National Radio on the topic of the great silent extinction of species and how we can save biodiversity (11 August 2021), reviewed and praised by several newspapers such as [Dagens Nyheter](#) and [Svenska Dagbladet](#)
- [Hay Festival appearance](#) to promote *The Hidden Universe: Adventures in Biodiversity*.
- ‘[The rise and fall of Neotropical diversity](#)’, in the Botanical Journal of the Linnean Society’s [high-impact research collection](#) as the ‘most discussed’ paper of 2020 and 2021.
- Week-long program on orchids with Swedish Radio P4, 14–18 Mar 2011.
- Popular science presentation on the Open TV Channel
- Featured in popular science books [Den Uppfinningsrika Planeten](#): biomimikry och naturens lösningar på vår tid (Fredrik Moberg, 2021); [Forskardrömmar](#): Berättelser för nyfikna barn (Fri Tanke, 2021); [Skogslandet](#)—En granskning (Lisa Röstlund, 2022).
- Featured online several times by *Frontiers in Biogeography* (Vol. 1, Nr. 1, September 2009), Science Daily, Expertsvar, Scientific Blogging, Yuba Net, Allt om Vetenskap, Forskning.se, Sundweb, YouTube (via ScientificStation.com), Wissenschaft-online.de, GBIF Science Review (2016)
- *Science Advances* paper (2020) in the 99th percentile of [High Attention Score](#) compared to outputs of the same age
- *Ecology Letters* paper (2019) highlighted in *Nature Sustainability* (2); Aug 2019
- PNAS-paper (2015) featured in many newspapers and TV items around the world
- *Science* paper (2010) featured in over 65 newspapers worldwide, including personal interviews with several
- PNAS paper (2009) featured in over 30 newspapers in Latin America and Europe
- Cover images of journals: *Proceedings of the Royal Society Series B*, *Journal of Systematics and Evolution*, *Communicative & Integrative Biology*, *Systematic Biology*, among others.
- New Phytologist Trust You Tube Channel, [Testing traditional plant knowledge using genomic tools](#) (14 Oct 2019)
- HS Talks. Biomedical and Life Sciences Collection. [Biogeography: Explaining the geographical distribution of organisms](#).
- Nobel talks: skype discussion with school children at the Nobel Museum in Stockholm about life as a researcher (24, 25 Jan 2019)
- Expedition Mundus: Game played with children from the 7-9 grades to understand and discuss the scientific process. Gothenburg Science Festival (9 & 16 May 2017; with the Young Academy of Sweden)
- Science Café: Can we trust research? with the Young Academy of Sweden & Kirsten Knudsen (12 May 2017)
- Science Café, Kew Science Festival (25–26 May 2019)

## FILM PRODUCTION

- Farooq, H., Antonelli, A. (2018). [Where does Neotropical biodiversity come from?](#) 1-minute popular scientific summary of results from the Antonelli *et al.* 2018 study in PNAS.
- Antonelli, A. (2013). [French Guiana – Snapshots from a biological expedition](#).
- Antonelli, A. (2012). [Desert life – among cacti and succulents](#) (in Swedish)
- [New tools to understand and protect biodiversity](#). (5 min) Popular science presentation of a project funded by the Swedish Foundation for Strategic Research. Presented in [English](#) and [Swedish](#). (Apr 2019)
- [Searching for nature’s miraculous medicines](#). 21-minute documentary shown on Swedish National Television SVT 2, on 12, 14 and 16 Mar 2018 (by AlphaFilm, with Nina Rønsted and others)
- **The Quest for Cinchona**: [Short version](#) (3 min) | [Full version](#) (24 min) (by AlphaFilm, with Nina Rønsted and others; Nov 2017)
- **The Rise and Fall of Species**. [Swedish version](#) | [English version](#): (by Mediabruket; Apr 2016)
- [Never stop asking - become a scientist!](#) (by University of Gothenburg, Feb 2016; [in Swedish])
- [The past, present and future of Neotropical biodiversity](#) (by AlphaFilm, Oct 2014)

## PUBLICATIONS

Bibliometric information: [Source: **Google Scholar**. For current citation statistics, please visit: [rb.gy/n81fow](https://rb.gy/n81fow))]

- Total number of peer-reviewed publications: 257
- Total number of citations: 27,517
- h-index: 79
- i10-index: 232

### Ten selected research papers

1. Pironon, S., Ondo, I., Diazgranados, M., Allkin, R., Baquero, A.C., Cámara-Leret, R. ... **Antonelli, A.\***, Willis, K. J.\* (2024). The global distribution of plants used by humans. *Science* 383 (6680): 293-297. DOI: <https://www.science.org/doi/abs/10.1126/science.adg8028> \*Joint senior authors
2. **Antonelli, A.**, et al. (2022). Madagascar's extraordinary biodiversity: Evolution, distribution, and use. *Science* 378: eabf8069. DOI: <https://doi.org/10.1126/science.abf0869>
3. Ralimanana, H., ... **Antonelli, A.** (2022). Madagascar's extraordinary biodiversity: Threats and opportunities. *Science* 378: eadf1466. DOI: <https://doi.org/10.1126/science.adf1466>
4. Silvestro, D., Gorla, S., Sterner, T., **Antonelli, A.** (2022). Improving biodiversity protection through artificial intelligence. *Nature Sustainability* 5: 415–424. DOI: <https://doi.org/10.1038/s41893-022-00851-6>
5. Di Sacco, A., Hardwick, K., Blakesley, D., Brancalion, P.H.S., Breman, E., Cecilio Rebola, L., Chomba, S., Dixon, K., Elliott, S., Ruyonga, G., Shaw, K., Smith, P., Smith, R.J., **Antonelli, A.** (2021). Ten golden rules for reforestation to optimize carbon sequestration, biodiversity recovery and livelihood benefits. *Global Change Biology* 27: 1328–1348. DOI: <https://doi.org/10.1111/gcb.15498>
6. Condamine, F.L., Silvestro, D., Koppelhus, E.B., **Antonelli, A.** (2020). The rise of angiosperms pushed conifers to decline during global cooling. *Proceedings of the National Academy of Sciences of the USA* 117(46): 28867–28875. DOI: <https://doi.org/10.1073/pnas.2005571117>
7. **Antonelli, A.**, Zizka, A., Antunes Carvalho, F., Scharn, R., Bacon, C.D., Silvestro, D., Condamine, F.L. (2018). Amazonia is the primary source of Neotropical biodiversity. *Proceedings of the National Academy of Sciences of the USA* 115(23): 6034–6039. DOI: <https://doi.org/10.1073/pnas.1713819115>
8. **Antonelli, A.**, Kissling, W.D., Flantua, S.G.A., Bermúdez, M.A., Mulch, A.M., Muellner-Riehl, A.N., Kreft, H., Linder, H.P., Badgley, C., Fjeldså, J., Fritz, S.A., Rahbek, C., Herman, F., Hooghiemstra, H., Hoorn, C. (2018). Geological and climatic influences on mountain biodiversity. *Nature Geoscience* 11(10): 718–725. DOI: [10.1038/s41561-018-0236-z](https://doi.org/10.1038/s41561-018-0236-z)
9. Vilhena, D., **Antonelli, A.** (2015). A network approach for identifying and delimiting biogeographical regions. *Nature Communications* 6: 6848. DOI: <https://doi.org/10.1038/ncomms7848>
10. Hoorn, C., Wesselingh, F.P., ter Steege, H., Stadler, T., I. Sanmartín, Sanchez-Meseguer, A., Anderson, C.L., Jaramillo, C.M., Bermudez, C., Figueiredo, J.D., Riff, F.R., Negri, H. Hooghiemstra, J. Lundberg, T. Sarkinen, A. Mora, **Antonelli, A.** (2010). Amazonia through time: Andean uplift, climate change, landscape evolution, and biodiversity. *Science* 330: 927–931. DOI: <https://doi.org/10.1126/science.1194585>

## FULL PUBLICATION LIST

### Original research articles in scientific journals (Peer-reviewed)

1. Marline L., Ranaivoson N.A.S., Smith R.J., Ah-Peng C., Hedderson T.A.J., Wilding N., **Antonelli A.** (2025). Advancing bryophyte research and conservation: a case study on Madagascar. *Annals of Botany*: mcaf035. DOI: <https://doi.org/10.1093/aob/mcaf035>
2. Darras, K.F.A., ..., **Antonelli, A.**, .... (2025), Worldwide Soundscapes: A Synthesis of Passive Acoustic Monitoring Across Realms. *Global Ecology and Biogeography*. DOI: <https://doi.org/10.1111/geb.70021>
3. Li, P.-W., Lu, Y.-B., **Antonelli, A.**, Zhu, Z.-J., Wang, W., Qin, X.-M., Yang, X.-R. and Zhang, Q. (2025), Sliding-

- window phylogenetic analyses uncover complex interplastomic recombination in the tropical Asian–American disjunct plant genus *Hedyosmum* (Chloranthaceae). *New Phytologist*. DOI: <https://doi.org/10.1111/nph.70120>
4. Clegg, R., Azevedo, L., Martinez-Ugarteche, M.T., Neves, D., Kidner, C., Hind, D.J.N., Antonelli, A., Rowland, R., Pennington, T.R. (2025). Plant biogeography of rock outcrops in South American tropical lowlands. *Frontiers of Biogeography* 18. DOI: <https://doi.org/10.21425/fob.18.145659>
  5. Colli-Silva, M., Pérez-Escobar, O.A., Ferreira, C.D.M., Costa, M.T.R., Gerace, S., Coutinho, T.S., Yoshikawa, V.N., Antonio-Domingues, H., Hernández-Gutiérrez, R., Bovini, M.G., Duarte, M.C., Cheek, M., Chase, M.W., Fay, M.F., Christenhusz, M.J.M., Dorr, L.J., Schoepflein, C., Corcoran, M., Roy, S., Cable, S., McLay, T., Maurin, O., Forest, F., Baker, W.J., **Antonelli, A.** (2025). Taxonomy in the light of incongruence: An updated classification of Malvales and Malvaceae based on phylogenomic data. *Taxon*. DOI: <https://doi.org/10.1002/tax.13300>
  6. Truszkowski J., Maor R., Yousuf R.B., Biswas S., Chater C., Gasson P., McQueen S., Norman M., Saunders J., Simeone J., Ramakrishnan, N., **Antonelli, A.**, Deklerck, V. (2025). A probabilistic approach to estimating timber harvest location. *Ecological Applications* 35(1): e3077. <https://doi.org/10.1002/eap.3077>
  7. Chen, S.-C., **Antonelli, A.**, Huang, X., Wei, N., Dai, C., Wang, Q.-F. (2025). Large seeds as a defensive strategy against partial granivory in the Fagaceae. *Journal of Ecology*. DOI: <https://doi.org/10.1111/1365-2745.14480>
  8. Ondo, I., Dhanjal-Adams, K.L., Pironon, S., Silvestro, D., Colli-Silva, M., Deklerck, V., Grace, O.M., Monroe, A.K., Nicolson, N., Walker, B., **Antonelli, A.** (2024). Plant diversity darkspots for global collection priorities. *New Phytologist*. DOI: <https://doi.org/10.1111/NPH.20024>
  9. Faurby, S., Silvestro, D., Werdelin, L., **Antonelli, A.** (2024). Reliable biogeography requires fossils: insights from a new species-level phylogeny of extinct and living carnivores. *Proceedings of the Royal Society B: Biological Sciences* 291(2028): 20240473. DOI: <https://doi.org/10.1098/rspb.2024.0473>
  10. Aguilar-Cano, J., Pérez-Escobar, O.A., Pizano, C., Tovar, E., **Antonelli, A.** (2024). Isolated, neglected, and likely threatened: a new species of *Magoniella* (Polygonaceae) from the seasonally dry tropical forests of Northern Colombia and Venezuela revealed from nuclear, plastid, and morphological data. *Frontiers in Plant Science* 15. DOI: <https://doi.org/10.3389/fpls.2024.1253260>
  11. Przelomska, N.A.S., Diaz, R.A., Ávila, F.A., Ballen, G.A., Cortés-B, R., Kistler, L., Chitwood, D.H., Charitonidou, M., Renner, S.S., Pérez-Escobar, O.A., **Antonelli, A.** (2024). Morphometrics and phylogenomics of coca (*Erythroxylum* spp.) illuminate its reticulate evolution, with implications for taxonomy. *Molecular Biology and Evolution* 41(7): msae114. DOI: <https://doi.org/10.1093/molbev/msae114> [Journal Cover]
  12. Sjöman, H., Watkins, H., Kelly, L.J., Hiron, A., Kainulainen, K., Martin, K.W.E., **Antonelli, A.** (2024). Resilient trees for urban environments: The importance of intraspecific variation. *Plants, People, Planet*. DOI: <https://doi.org/10.1002/ppp3.10518>
  13. Azevedo, J.A.R., Faurby, S., Colli, G.R., **Antonelli, A.**, Werneck, F.P. (2024). Deforestation limits evolutionary rescue under climate change in Amazonian lizards. *Diversity and Distributions*: e13860. DOI: <https://doi.org/10.1111/ddi.13860>
  14. da Silva, F.R., de Oliveira-Silva, A.E., **Antonelli, A.**, Carnaval, A.C., Provete, D.B. (2024). Zoogeographical regions in the Atlantic Forest: patterns and potential drivers. *Journal of Biogeography*. DOI: <https://doi.org/10.1111/jbi.14859>
  15. Zuntini, A.R., ... **Antonelli A.** et al. (2024). Phylogenomics and the rise of the angiosperms. *Nature*. DOI: <https://doi.org/10.1038/s41586-024-07324-0>
  16. Aronsson, H., Zizka, A., **Antonelli, A.**, Faurby, S. (2024). Expert-based range maps cannot be replicated using data-driven methods but macroecological conclusions arising from them can. *Journal of Biogeography*. DOI: <https://doi.org/10.1111/jbi.14847>
  17. Mortier, T., Truszkowski, J., ... **Antonelli, A.**, Waegeman, W., Deklerck, V. (2024). A framework for tracing timber following the Ukraine invasion. *Nature Plants*. DOI: <https://doi.org/10.1038/s41477-024-01648-5>

18. Omollo, W.O., Rabarijaona, R.N. ... Antonelli, A., Chen, Z.-D. Liu, B., Lu, L.-M. (2024). Spatial heterogeneity of neo- and paleo-endemism for plants in Madagascar. *Current Biology*. DOI: <https://doi.org/10.1016/j.cub.2024.02.023>
19. Pérez-Escobar, O.A., ... , **Antonelli, A.** (2024). The origin and speciation of orchids. *New Phytologist*. DOI: <https://doi.org/10.1111/nph.19580> [Journal Cover]
20. Pironon, S. Ondo, I. Diazgranados, M., Allkin, R., Baquero, A.C., Cámara-Leret, R. ... Antonelli\*, A., Willis\*, K.J. (2024). The global distribution of plants used by humans. *Science* 383 (6680): 293-297. DOI: <https://www.science.org/doi/abs/10.1126/science.adg8028> [Journal Cover] \*Joint senior authors
21. Cooke, R., Sayol, F., Andermann, T., Blackburn, T.M., Steinbauer, M.J., Antonelli, A., Faurby, S. (2024). Undiscovered bird extinctions obscure the true magnitude of human-driven extinction waves. *Nature Communications* 14: 8116. DOI: <https://doi.org/10.1038/s41467-023-43445-2>
22. Ramírez-Herranz, M., Sayol, F., Rios, R.S., **Antonelli, A.**, Squeo, F.A. (2024). The origin of excavator nesting behavior and its impact on the evolution of Neotropical parrots. *Oikos*: e10155. DOI: <https://doi.org/10.1111/oik.10155>
23. Pereira, A.G., **Antonelli, A.**, Silvestro, D., Faurby, S. (2024). Two major extinction events in the evolutionary history of turtles: One caused by an asteroid, the other by hominins. *The American Naturalist* 203 (6): 644-654. DOI: <https://doi.org/10.1086/729604>
24. Mikryukov, V., ... **Antonelli, A.** et al. (2023). Connecting the multiple dimensions of global soil fungal diversity. *Science Advances* 9: eadj8016. DOI: <https://doi.org/10.1126/sciadv.adj8016>
25. Calvente, A., Alves da Silva, A.P., Edler, D., Antunes Carvalho, F., Fantinati, M.R., Zizka, A., **Antonelli, A.** (2023). Spiny but photogenic: Amateur sightings complement herbarium specimens to reveal the bioregions of cacti. *American Journal of Botany*: e16235. DOI: <https://doi.org/10.1002/ajb2.16235>
26. Tietje, M., **Antonelli, A.**, Forest, F., Govaerts, R., Smith, S.A., Sun, M., Baker, W.J. and Eiserhardt, W.L. (2023). Global hotspots of plant phylogenetic diversity. *New Phytologist*. DOI: <https://doi.org/10.1111/nph.19151>
27. Puruleia, A., Nanvonamuquitxo, C., Ernesto, M., Jamal, A., Amade, I., Wilson, M., Massingue, Y., Verburt, L., Faurby, S., **Antonelli, A.**, Perrigo, A., Farooq, H. (2023). Rediscovery of the lost skink *Proscelotes aenea* and implications for conservation. *Scientific Reports* 13: 11261. DOI: <https://doi.org/10.1038/s41598-023-38286-4>
28. Neves, B., de L Ferreira, P., Prosdocimi, F., Kessous, I.M., Couto, D.R., Moura, R.L., Salgueiro, F., Costa, A.F., Bacon, C.D., **Antonelli, A.** (2023). Repeated evolution of pollination syndromes in a highly diverse bromeliad lineage is correlated with shifts in life form and habitat. *Botanical Journal of the Linnean Society*: boad015. DOI: <https://doi.org/10.1093/botlinnean/boad015>
29. Claudel, C., Loiseau, O., Silvestro, D., Lev-Yadun, S., **Antonelli, A.** (2023). Patterns and drivers of heat production in the plant genus *Amorphophallus*. *The Plant Journal*. DOI: <https://doi.org/10.1111/tpj.16343> [Journal Cover]
30. Torres Jiménez, M. F., Chazot, N., Emilio, T., Uddling, J., **Antonelli, A.**, Faurby, S., & Bacon, C.D. (2023). Functional and historical drivers of leaf shape evolution in palms (Arecaceae). *Global Ecology and Biogeography* 00: 1–13. DOI: <https://doi.org/10.1111/geb.13708>
31. Richard-Bollans, A., Aitken, C., **Antonelli, A.**, Bitencourt, C., Goyder, D., Lucas, E., Ondo, I., Pérez-Escobar, O.A., Pironon, S., Richardson, J.E., Russell, D., Silvestro, D., Wright, C.W., Howes, M.-J. R. (2023). Machine learning enhances prediction of plants as potential sources of antimalarials. *Frontiers in Plant Science* 14. DOI: <https://doi.org/10.3389/fpls.2023.1173328>
32. Thomas, A., Meudt, H.M., Larcombe, M.J., Igea, J., Lee, W.G., **Antonelli, A.**, Tanentzap, A.J. (2023). Multiple origins of mountain biodiversity in New Zealand's largest plant radiation. *Journal of Biogeography* 00: 1– 14. DOI: <https://doi.org/10.1111/jbi.14589>
33. Woutersen, A., Jardine, P.E., Silvestro, D., Bogotá-Angel, R.G., Zhang, H.-X., Meijer, N., Bouchal, J., Barbolini, N., Dupont-Nivet, G., Koutsodendris, A., **Antonelli, A.**, Hoorn, C. (2023). The evolutionary history of the Central Asian steppe-desert taxon *Nitraria* (Nitrariaceae) as revealed by integration of fossil pollen



morphology and molecular data. *Botanical Journal of the Linnean Society*: boac050. DOI: <https://doi.org/10.1093/botlinnean/boac050>

34. Belluardo, F., Jesus Muñoz-Pajares, A. Miralles, A., Silvestro, D., Cocca, W., Mihaja Ratsoavina, F., Villa, A., Roberts, S.H., Mezzasalma, M., Zizka, A., **Antonelli, A.**, Crottini, A. (2023). Slow and steady wins the race: Diversification rate is independent from body size and lifestyle in Malagasy skinks (Squamata: Scincidae: Scincinae). *Molecular Phylogenetics and Evolution* 178: 107635. DOI: <https://doi.org/10.1016/j.ympev.2022.107635>
35. Cassemiro, F.A.S., Albert, J.S., **Antonelli, A.**, Menegotto, A., Wüest, R.O., Coelho, M.T.P., Bailly, D., da Silva, V.F.B, Frota, A., da Graça, W.J., Ré, R., Ramos, T., de Oliveira, A.G., Dias, M.S., Colwell, R.K., Rangel, T.F., Graham, C.J. (2023). Landscape dynamics promoted the evolution of mega-diversity in South American freshwater fishes. *Proceedings of the National Academy of Sciences* 120(2): e2211974120. DOI: <https://doi.org/10.1073/pnas.2211974120>
36. Miranda, C. L., I. P. Farias, M. N. F. Da Silva, A. **Antonelli, A.** F. Machado, R. N. Leite, M. D. S. Nunes, T. G. De Oliveira and J. C. Pieczarka (2022). Diversification of Amazonian spiny tree rats in genus *Makalata* (Rodentia, Echimyidae): Cryptic diversity, geographic structure and drivers of speciation. *PLOS ONE* 17(12): e0276475. DOI: <https://doi.org/10.1371/journal.pone.0276475>
37. Bacon, C.D., Silvestro, D., Hoorn, C., Bogotá-Ángel, G., **Antonelli, A.**, Chazot, N. (2022). The origin of modern patterns of continental diversity in Mauritiinae palms: the Neotropical museum and the Afrotropical graveyard. *Biology Letters* 18(11): 20220214. DOI: <https://doi.org/10.1098/rsbl.2022.0214>
38. Allasi Canales, N., Pérez-Escobar, O.A., Powell, R.F. Töpel, M., Kidner, C., Nesbitt, M., Maldonado, C., Barnes, C.J., Rønsted, N., Przelomska, N.A.S., Leitch, I.J., **Antonelli, A.** (2022). A highly contiguous, scaffold-level nuclear genome assembly for the fever tree (*Cinchona pubescens* Vahl) as a novel resource for Rubiaceae research. *Gigabyte*. DOI: <https://doi.org/10.46471/gigabyte.71>
39. Bacon, C. D., Hill, A., ter Steege, H., **Antonelli, A.**, and Damasco, G. (2022). The impact of species complexes on tree abundance patterns in Amazonia. *American Journal of Botany* 109 10): 1–4. DOI: <https://doi.org/10.1002/ajb2.16069>
40. Farooq, H., Bero, C., Guilengue, Y., Elias, C., Massingue, Y., Mucopote, I., . . . **Antonelli, A.** (2022). Snakebite incidence in rural sub-Saharan Africa might be severely underestimated. *Toxicon*, 106932. DOI: <https://doi.org/10.1016/j.toxicon.2022.106932>
41. Bellot, S., Lu, Y., **Antonelli, A.**, Baker, W.J., Dransfield, J., Forest, F., Kissling, W.D., Leitch, I.J., Nic Lughadha, E., Ondo, I., Pironon, S., Walker, B.E., Cámara-Leret, R., Bachman, S.P. (2022). The likely extinction of hundreds of palm species threatens their contributions to people and ecosystems. *Nature Ecology & Evolution*. DOI: <https://doi.org/10.1038/s41559-022-01858-0>
42. Tedersoo, L., Mikryukov, V., Zizka, A., Bahram, M., Hagh-Doust, N., Anslan, S., Prylutskyi, O., Delgado-Baquerizo, M., Maestre, F. T., Pärn, J., Öpik, M., Moora, M., Zobel, M., Espenberg, M., Mander, Ü., Khalid, A. N., Corrales, A., Agan, A., Vasco-Palacios, A.-M. ... **Antonelli, A.**, Kõljalg, U., Abarenkov, K. (2022). Global patterns in endemism and vulnerability of soil fungi. *Global Change Biology*. DOI: <https://doi.org/10.1111/gcb.16398>
43. Andermann, T., Strömberg, C.A.E., **Antonelli, A.**, Silvestro, D. (2022). The origin and evolution of open habitats in North America inferred by Bayesian deep learning models. *Nature Communications* 13(1): 4833. DOI: <https://doi.org/10.1038/s41467-022-32300-5#>
44. Smith, L.T., Magdalena, C., Przelomska, N.A.S., Pérez-Escobar, O.A., Melgar-Gómez, D.G., Beck, S., Negrão, R., Mian, S., Leitch, I.J., Dodsworth, S., Maurin, O., Ribero-Guardia, G., Salazar, C.D., Gutierrez-Sibauty, G., **Antonelli, A.**, Monro, A.K. (2022). Revised species delimitation in the giant water lily genus *Victoria* (Nymphaeaceae) confirms a new species and has implications for its conservation. *Frontiers in Plant Science* 13. DOI: <https://doi.org/10.3389/fpls.2022.883151>
45. Tietje, M., **Antonelli, A.**, Baker, W.J., Govaerts, R., Smith, S.A., Eiserhardt, W.L. (2022). Global variation in diversification rate and species richness are unlinked in plants. *Proceedings of the National Academy of Sciences* 119(27): e2120662119. DOI: <https://doi.org/10.1073/pnas.2120662119>

46. Lagomarsino, L.P., Frankel, L., Uribe-Convers, S., **Antonelli, A.**, Muchhala, N. (2022). Increased resolution in the face of conflict: phylogenomics of the Neotropical bellflowers (Campanulaceae: Lobelioideae), a rapid plant radiation. *Annals of Botany* 129(6): 723–736. DOI: <https://doi.org/10.1093/aob/mcac046>
47. Scharn, R., Negri, I.S., Sundqvist, M.K., Løkken, J.O., Bacon, C.D., **Antonelli, A.**, Hofgaard, A., Nilsson, R.H., Björk, R.G. (2022). Limited decadal growth of mountain birch saplings has minor impact on surrounding tundra vegetation. *Ecology and Evolution* 12(6): e9028. DOI: <https://doi.org/10.1002/ece3.9028>
48. Faurby, S., Pedersen, R.Ø., Svenning, J.-C., **Antonelli, A.** (2022). The counteracting effects of anthropogenic speciation and extinction on mammal species richness and phylogenetic diversity. *Global Ecology and Biogeography* 31(9), 1810–1823. DOI: <https://doi.org/10.1111/geb.13560>
49. Cano, Á., Stauffer, F.W., Andermann, T., Liberal, I.M., Zizka, A., Bacon, C.D., Lorenzi, H., Christe, C., Töpel, M., Perret, M., **Antonelli, A.** (2022). Recent and local diversification of Central American understory palms. *Global Ecology and Biogeography* 31(8): 1513–1525. DOI: <https://doi.org/10.1111/geb.13521>
50. Calió, M.F., Thode, V.A., Bacon, C.D., Silvestro, D., **Antonelli, A.**, Lohmann, L.G. (2022). Spatio-temporal evolution of the catuaba clade in the Neotropics: Morphological shifts correlate with habitat transitions. *Journal of Biogeography* 49(6): 1086–1098. DOI: <https://doi.org/10.1111/jbi.14368>
51. Andermann, T., **Antonelli, A.**, Barrett, R.L., Silvestro, D. (2022). Estimating alpha, beta and gamma diversity through deep learning. *Frontiers in Plant Science*: 13:839407. DOI: <https://doi.org/10.3389/fpls.2022.839407>
52. Si, X., Cadotte, M.W., Davies, T.J., **Antonelli, A.**, Ding, P., Svenning, J.-C., Faurby, S. (2022). Phylogenetic and functional clustering illustrate the roles of adaptive radiation and dispersal filtering in jointly shaping late-Quaternary mammal assemblages on oceanic islands. *Ecology Letters*, 25: 1250–1262. DOI: <https://doi.org/10.1111/ele.13997>
53. Klimeš, A., Simova, I., Zizka, A., **Antonelli, A.**, Herben, T. (2022). The ecological drivers of growth form evolution in flowering plants. *Journal of Ecology* 110(7): 1525–1536. DOI: <https://doi.org/10.1111/1365-2745.13888>
54. Silvestro, D., Gorla, S., Sterner, T., **Antonelli, A.** (2022). Improving biodiversity protection through artificial intelligence. *Nature Sustainability* 5: 415–424. DOI: <https://doi.org/10.1038/s41893-022-00851-6>
55. Belluardo, F., Scherz, M.D., Santos, B., Andreone, F., **Antonelli, A.**, Glaw, F., Muñoz-Pajares, A.J., Randrianirina, J.E., Raselimanana, A.P., Vences, M., Crottini, A. (2022). Molecular taxonomic identification and species-level phylogeny of the narrow-mouthed frogs of the genus *Rhombophryne* (Anura: Microhylidae: Cophylinae) from Madagascar. *Systematics and Biodiversity*, 20(1), 1–13. DOI: <https://doi.org/10.1080/14772000.2022.2039320>
56. Ferreira, P. de Lima, Batista, R., Andermann, T., Groppo, M., Bacon, C.D., **Antonelli, A.** (2022). Target sequence capture of Barnadesioideae (Compositae) demonstrates the utility of low coverage loci in phylogenomic analyses. *Molecular Phylogenetics and Evolution*, 169: 107432. DOI: <https://doi.org/10.1016/j.ympev.2022.107432>
57. Meneses, L., Martinez, Y.Y., **Antonelli, A.**, Gareca, E.E. (2022). Good news for habitat restoration projects: *Eucalyptus* does not inhibit the germination of *Polylepis*. *Restoration Ecology*: e13651. DOI: <https://doi.org/10.1111/rec.13651>
58. Gustafsson, A.L.S, Gussarova, G., Borgen, L., Ikeda, H., **Antonelli, A.**, Marie-Orleach, L., Suda, J., Rieseberg, L.H., Brochmann, C. (2022). Rapid evolution of postzygotic reproductive isolation is widespread in Arctic plant lineages. *Annals of Botany* 129(2): 171–184. DOI: <https://doi.org/10.1093/aob/mcab128>
59. Damasco, G., Anhalt, M., Perdiz, R. O., Wittmann, F., de Assis, R. L., Schöngart, J. Piedade, M.T.F., Bacon, C.D., **Antonelli, A.**, Fine, P. V. A. (2022). Certification of açai agroforestry increases the conservation potential of the Amazonian tree flora. *Agroforestry Systems* 96(2): 407–416. DOI: <https://doi.org/10.1007/s10457-021-00727-2>
60. Pérez-Escobar, O.A., Zizka, A., Bermúdez, M.A., Meseguer, A.S., Condamine, F.L., Hoorn, C., Hooghiemstra, H., Pu, Y., Bogarín, D., Boschman, L.M., Pennington, R.T., **Antonelli, A.**, Chomicki, G. (2022). The Andes through time: evolution and distribution of Andean floras. *Trends in Plant Science*. DOI: <https://doi.org/10.1016/j.tplants.2021.09.010> [Journal Cover]

61. Tedersoo, L. et al. (2021). The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. *Fungal Diversity* 111: 573–588. DOI: <https://doi.org/10.1007/s13225-021-00493-7>
62. Henniges, M., Powell, R., Mian, S., Stace, C., Walker, K., Gornall, R., Christenhusz, M., Brown, M., Twyford, A., Hollingsworth, P., Jones, L., de Vere, N., **Antonelli, A.**, Leitch, A., Leitch, I. (2022). A taxonomic, genetic and ecological data resource for the vascular plants of Britain and Ireland. *Scientific Data* 9: 1. DOI: <https://doi.org/10.1038/s41597-021-01104-5>
63. Daru, B., Davies, T., Willis, C., Meineke, E., Ronk, A., Zobel, M., Pärtel, M., **Antonelli, A.**, Davis, C. (2021). Widespread homogenization of plant communities in the Anthropocene. *Nature Communications* 12: 6983. DOI: <https://doi.org/10.1038/s41467-021-27186-8>
64. Farooq, H., Bero, C., Guilengue, Y., Elias, C., Massingue, Y., Mucopote, I., Nanvonamuquitxo, C., Marais, J., **Antonelli, A.**, Faurby, S. (2021). Species perceived to be dangerous are more likely to have distinctive local names. *Journal of Ethnobiology and Ethnomedicine* 17: 69. DOI: <https://doi.org/10.1186/s13002-021-00493-6>
65. Bredin, Y.K., Hess, L.L., Scabin, A.B., Dunthorn, M., Hugaasen, T., Peres, C.A., Nilsson, H.R., **Antonelli, A.**, Ritter, C.D. (2021). Above- and below-ground biodiversity responses to the prolonged flood pulse in central-western Amazonia, Brazil. *Environmental DNA* 4(3): 533–548. DOI: <https://doi.org/10.1002/edn3.268>
66. Bacon, C.D., Gutiérrez-Pinto, N., Flantua, S., Castellanos, D., Jaramillo, C., Pennington, R.T., **Antonelli, A.** (2021). The seasonally dry tropical forest species *Cavanillesia chicamochae* has a middle Quaternary origin. *Biotropica* 54(1):91–99. DOI: <https://doi.org/10.1111/btp.13031>
67. Torres Jiménez, M.F., Prata, E., Zizka, A., Cohn-Haft, M., de Oliveira, A., Emilio, T., Chazot, N., Couvreur, T., Mogue Kanga, S., Sonke, B., Cano, A., Collevatti, R., Kuhnhauser, B., Baker, W.J., **Antonelli, A.**, Bacon, C.D. (2021). Molecular phylogenetics of the palm tribe Lepidocaryeae (Calamoideae: Arecaceae) and description of a new species of *Mauritiella*. *Systematic Botany* 46(3): 863–874. DOI: <https://doi.org/10.1600/036364421X16312067913543>
68. Sayol, F., Cooke, R.S.C., Pigot, A.L., Blackburn, T.M., Tobias, J.A., Steinbauer, M.J., **Antonelli, A.**, Faurby, S. (2021). Loss of functional diversity through anthropogenic extinctions of island birds is not offset by biotic invasions. *Science Advances* 7(46): eabj5790. DOI: <https://doi.org/10.1126/sciadv.abj5790>
69. Ribeiro, P.G., Torres Jiménez, M.F., Andermann, T., **Antonelli, A.**, Bacon, C.D., Matos-Maraví, P. (2021). A bioinformatic platform to integrate target capture and whole genome sequences of various read depths for phylogenomics. *Molecular Ecology* 30: 6021– 6035. DOI: <https://doi.org/10.1111/mec.16240>
70. Zizka, A., Rydén, O., Edler, D., Klein, J., Perrigo, A., Silvestro, D., Jagers, S.C., Lindberg, S.I., **Antonelli, A.** (2021). Bio-Dem, a tool to explore the relationship between biodiversity data availability and socio-political conditions in time and space. *Journal of Biogeography* 48: 2715–2726. DOI: <https://doi.org/10.1111/jbi.14256>
71. Ferreira, P.L., **Antonelli, A.**, Groppo, M. (2021). Touch me carefully: a step towards understanding morphological diversity in the South American spiny sunflowers (Compositae, Barnadesioideae). *Phytotaxa* 518(2). DOI: <https://doi.org/10.11646/phytotaxa.518.2.3>
72. **Antonelli, A.**, Clarkson, J.J., Kainulainen, K., Maurin, O., Brewer, G.E., Davis, A.P., Epiawalage, N., Livshultz, T., Persson, C., Pokorny, L., Straub, S.C.K., Struwe, L., Zuntini, A.R., Forest, F., Baker, W.J. (2021). Settling a family feud: a high-level phylogenomic framework for the Gentianales based on 353 nuclear genes and partial plastomes. *American Journal of Botany* 108(7): 1143-1165. DOI: <https://doi.org/10.1002/ajb2.1697>
73. Pérez-Escobar, O.A., Bellott, S., Przelomska, N.A.S., Flowers, J.M., Nesbitt, M., Ryan, P., Gutaker, R.M., Gros-Balthazard, M., Wells, T., Kuhnhäuser, B.G., Schley, R., Bogarin, D., Dodsworth, S., Diaz, R., Lehmann, M., Petoe, P., Eiserhardt, W.L., Preick, M., Hofreiter, M., Hajdas, I., Purugganan, M., **Antonelli, A.**, Gravendeel, B., Leitch, I.J., Torres Jiménez, M.F., Papadopulos, A.S.T., Chomicki, G., Renner, S.S., Baker, W.J. (2021). Molecular clocks and archaeogenomics of a Late Period Egyptian date palm leaf reveal introgression from wild relatives and add timestamps on the domestication. *Molecular Biology and Evolution* 38(10): 4475–4492. <https://doi.org/10.1093/molbev/msab188>

74. Eriksson, J.S., Bacon, C.D., Bennett, D.J., Pfeil, B. E., Oxelman, B., **Antonelli, A.** (2021). Gene count from target sequence capture places three whole genome duplication events in *Hibiscus* L. (Malvaceae). *BMC Ecology and Evolution* 21(1): 107. DOI: <https://doi.org/10.1186/s12862-021-01751-7>
75. Bacon, C.D., Roncal, J., Andermann, T., Barnes, C.J., Balsev, H., Gutiérrez-Pinto, N., Morales, H., Núñez-Avelleneda, L.A., Tunarosa, N., **Antonelli, A.** (2021). Genomic and niche divergence in an Amazonian palm complex. *Botanical Journal of the Linnean Society*: boab012. DOI: <https://doi.org/10.1093/botlinnean/boab012>
76. Scharn, R., Little, C.J., Bacon, C.D., Alatalo, J.M., **Antonelli, A.**, Björkman, M.P., Molau, U., Nilsson, H., Björk, R.G. (2021). Decreased soil moisture due to warming drives phylogenetic diversity and community transitions in the tundra. *Environmental Research Letters* 16(6): 064031. DOI: <https://doi.org/10.1088/1748-9326/abfe8a>
77. Azevedo, J.A.R., de C. Nogueira, C., **Antonelli, A.**, Faurby, S. (2021). Contrasting patterns of phylogenetic turnover in amphibians and reptiles are driven by environment and geography in Neotropical savannahs. *Journal of Biogeography* 48: 2008–2021. DOI: <https://doi.org/10.1111/jbi.14131>
78. Matos-Maraví, P., Wahlberg, N., Freitas, A.V.L., Devries, P., **Antonelli, A.**, Penz, C.M. (2021). Mesoamerica is a cradle and the Atlantic Forest is a museum of Neotropical butterfly diversity: Insights from the evolution and biogeography of *Brassolini* (Lepidoptera: Nymphalidae). *Biological Journal of the Linnean Society*: blab034. DOI: <https://doi.org/10.1093/biolinnean/blab034>
79. Baucon, A., de Carvalho, C.N., Felletti, F., Tosadori, G., **Antonelli, A.** (2021). Small-world dynamics drove Phanerozoic divergence of burrowing behaviors. *Geology* 49(6): 748–752. DOI: <https://doi.org/10.1130/G48523.1>
80. Serna-Sánchez, M.A., Pérez-Escobar, O.A., Bogarín, D., Torres Jiménez, M.F., Alvarez-Yela, A.C., Arcila, J.E., Hall, C.F., de Barros, F., Pinheiro, F., Dodsworth, S., Chase, M.W., **Antonelli, A.**, Arias, T. (2021). Plastid phylogenomics resolves ambiguous relationships within the orchid family and provides a solid timeframe for biogeography and macroevolution. *Scientific Reports* 11: 6858. DOI: <https://doi.org/10.1038/s41598-021-83664-5>
81. Duarte Ritter, C.D., Forster, D., Azevedo, J.A.R., **Antonelli, A.**, Nilsson, R.H., Trujillo, M.E., Dunthorn, M. (2021). Assessing biotic and abiotic interactions of microorganisms in Amazonia through co-occurrence networks and DNA metabarcoding. *Microbial Ecology*. DOI: <https://doi.org/10.1007/s00248-021-01719-6>
82. Silvestro, D., Bacon, C.D., Ding, W., Zhang, Q., Donoghue, P.C.J., **Antonelli, A.**, Xing, Y. (2021). Fossil data support a pre-Cretaceous origin of flowering plants. *Nature Ecology and Evolution* 5: 449–457. DOI: <https://doi.org/10.1038/s41559-020-01387-8>
83. Di Sacco, A., Hardwick, K., Blakesley, D., Brancalion, P.H.S., Breman, E., Cecilio Rebola, L., Chomba, S., Dixon, K., Elliott, S., Ruyonga, G., Shaw, K., Smith, P., Smith, R.J., **Antonelli, A.** (2021). Ten golden rules for reforestation to optimize carbon sequestration, biodiversity recovery and livelihood benefits. *Global Change Biology* 27: 1328–1348. DOI: <https://doi.org/10.1111/gcb.15498>
84. Zizka, A., **Antonelli, A.**, Silvestro, D. (2021). sampbias, a method for quantifying geographic sampling biases in species distribution data. *Ecography* 44(1): 25–32. DOI: <https://doi.org/10.1111/ecog.05102>
85. Farooq, H., Azevedo, J.A.R., Soares, A., **Antonelli, A.**, Faurby, S. (2021). Mapping Africa’s biodiversity: More of the same is just not good enough. *Systematic Biology* 70(3): 623–633. DOI: <https://doi.org/10.1093/sysbio/syaa090>
86. Gomes, D.F., Azevedo, J., Murta-Fonseca, R., Faurby, S., **Antonelli, A.**, Passo, P. (2020). Taxonomic revision of the genus *Xenopholis* Peters, 1869 (Serpentes: Dipsadidae): Integrating morphology with ecological niche. *PLOS ONE* 15(12): e0243210. DOI: <https://doi.org/10.1371/journal.pone.0243210>
87. Sayol, F., Steinbauer, M.J., Blackburn, T.M., **Antonelli, A.**, Faurby, S. (2020). Anthropogenic extinctions conceal widespread evolution of flightlessness in birds. *Science Advances* 6(49): eabb6095. DOI: <https://doi.org/10.1126/sciadv.abb6095>
88. Andermann, T., Faurby, S., Cooke, R., Silvestro, D., **Antonelli, A.** (2020). iucn\_sim: A new program to simulate future extinctions based on IUCN threat status. *Ecography* 44: 162–176. DOI: <http://dx.doi.org/10.1111/ecog.05110>

89. Condamine, F.L., Silvestro, D., Koppelhus, E.B., **Antonelli, A.** (2020). The rise of angiosperms pushed conifers to decline during global cooling. *Proceedings of the National Academy of Sciences of the USA* 117(46): 28867–28875. DOI: <https://doi.org/10.1073/pnas.2005571117>
90. Edler, D., Klein, J., **Antonelli, A.**, Silvestro, D. (2020). raxmlGUI 2.0: a graphical interface and toolkit for phylogenetic analyses using RAxML. *Methods in Ecology and Evolution* 12: 373–377. DOI: <https://doi.org/10.1111/2041-210X.13512>
91. Carrillo, J.D. Faurby, S., Silvestro, D., Zizka, A., Jaramillo, C., Bacon, C.D., **Antonelli, A.** (2020). Disproportionate extinction of South American mammals drove the asymmetry of the Great American Biotic Interchange. *Proceedings of the National Academy of Sciences of the USA*: 202009397. DOI: <https://doi.org/10.1073/pnas.2009397117>
92. Zizka, A., Antunes Carvalho, F., Calvente, A., Rocio Baez-Lizarazo, M., Cabral, A., Coelho, J.F.R., Colli-Silva, M., Fantinati, M.R., Fernandes, M.F., Ferreira-Araújo, T., Gondim Lambert Moreira, F., Santos, N.M.C., Santos, T.A.B., dos Santos-Costa, R.C., Serrano, F.C., Alves da Silva, A.P., de Souza Soares, A., Cavalcante de Souza, P.G., Calisto Tomaz, E., Vale, V.F., Vieira, T.L., **Antonelli, A.** (2020). No one-size-fits-all solution to clean GBIF. *PeerJ* 8: e9916. DOI: <https://doi.org/10.7717/peerj.9916>
93. Andermann, T., Faurby, S., Turvey, S.T., **Antonelli, A.**, Silvestro, D. (2020). The past and future human impact on mammalian diversity. *Science Advances* 6 (36): eabb2313. DOI: <https://doi.org/10.1126/sciadv.abb2313>
94. Chen, S-C., **Antonelli, A.**, Udayangani, L. (2020). Trade-off between seed dispersal in space and time. *Ecology Letters* 23(11): 1635–1642. DOI: <https://doi.org/10.1111/ele.13595>
95. Neves, B., Kessous, I.M., Moura, R.L., Couto, D.R., Zanella, C.M., **Antonelli, A.**, Bacon, C.D., Salgueiro, F., Costa, A. F. (2020). Pollinators drive floral evolution in an Atlantic Forest genus. *AoB PLANTS* 12(5): plaa046. DOI: <https://doi.org/10.1093/aobpla/plaa046>
96. Farooq, H., Anderson, J., Belluardo, F., Nanvonamuquitxo, C., Bennett, D., Moat, J., Soarse, A., Faurby, S., **Antonelli, A.** (2020). Wege: A new metric for ranking locations for biodiversity conservation. *Diversity and Distributions* 26(11): 1456–1466. DOI: <http://dx.doi.org/10.1111/ddi.13148>
97. Pimiento, C., Bacon, C.D., Silvestro, D., Hendy, A., Jaramillo, C., Zizka, A., Meyer, X., **Antonelli, A.** (2020). Selective extinction against redundant species buffers functional diversity. *Proceedings of the Royal Society B: Biological Sciences* 287(1931): 20201162. DOI: <https://doi.org/10.1098/rspb.2020.1162>
98. Ritter, C.D., Dunthorn, M., Anslan, S., de Lima, V.X., Tedersoo, L., Nilsson, R.H., **Antonelli, A.** (2020). Advancing biodiversity assessments with environmental DNA: Long-read technologies help reveal the drivers of Amazonian fungal diversity. *Ecology and Evolution* 10(14): 7509–7524. DOI: <http://dx.doi.org/10.1002/ece3.6477>
99. Daru, B.H., Farooq, H., **Antonelli, A.**, Faurby, S. (2020). Endemism patterns are scale dependent. *Nature Communications* 11: 2115. DOI: <https://doi.org/10.1038/s41467-020-15921-6>
100. Helmstetter, A.J., Kamga, S.M., Bethune, K., Lautenschläger, T., Zizka, A., Bacon, C.D., Wieringa, J.J., Stauffer, F., **Antonelli, A.**, Sonké, B., Couvreur, T.L.P. (2020) Unravelling the phylogenomic relationships of the most diverse African palm genus *Raphia* (Calamoideae, Arecaceae). *Plants* 9(4): 549. DOI: <https://doi.org/10.3390/plants9040549>
101. Bennett, D.J., Hettling, G.H., Silvestro, D., Vos, R., **Antonelli, A.** (2020). outsider: Install and run programs, outside of R, inside of R. *Journal of Open Source Software* 5(45): 2038. DOI: <https://doi.org/10.21105/joss.02038>
102. Carvalho-Sobrinho, J.G., Pennington, R.T., Queiroz, L.P., Alcantara, S., Baum, D.A., Bacon, C.D., **Antonelli, A.** (2020). Transitions between biomes are common and directional in Bombacoideae (Malvaceae). *Journal of Biogeography* 47(6): 1310–1321. DOI: <https://doi.org/10.1111/jbi.13815>
103. Andermann, T., Torres Jiménez, M.F., Matos-Maraví, P., Batista, R., Blanco-Pastor, J.L., Gustafsson, A.L.S., Kistler, L., Liberal, I.M., Oxelman, B., Bacon, C.D., **Antonelli, A.** (2020). A guide to carrying out a phylogenomic target sequence capture project. *Frontiers in Genetics* 10: 1407. DOI: <https://doi.org/10.3389/fgene.2019.01407>
104. Bakker, F.T., **Antonelli, A.**, Clarke, J.A., Cook, J.A., Edwards, S.V., Ericson, P.G.P., Faurby, S., Ferrand, N., Gelang, M., Gillespie, R.G., Irestedt, M., Lundin, K., Larsson, E., Matos-Maraví, P., Müller, J. von Proschwitz,

- T., Roderick, G.K., Schliep, A., Wahlberg, N., Wiedenhoef, J., Källersjö, M. (2020). The Global Museum: natural history collections and the future of evolutionary science and public education. *PeerJ* 8: e8225. DOI: <https://doi.org/10.7717/peerj.8225>
105. Batista, R., Olsson, U., Andermann, T., Aleixo, A., Cherem Ribas, A., **Antonelli, A.** (2020). Phylogenomics and biogeography of the world's thrushes (Aves, *Turdus*): New evidence for a more parsimonious evolutionary history. *Proceedings of the Royal Society B* 287: 20192400. DOI: <http://dx.doi.org/10.1098/rspb.2019.2400>
  106. Faurby, S., Silvestro, D., Werdelin, L., **Antonelli, A.** (2020). Brain expansion in early hominins predicts carnivore extinctions in East Africa. *Ecology Letters* 23(3): 537–544. DOI: <https://doi.org/10.1111/ele.13451>
  107. Canales, N.A., Nikolaj T., Hansen, G., Cornett, C., Walker, K., Driver, F., **Antonelli, A.**, Maldonado, C., Nesbitt, M., Barnes, C.J., Rønsted, N. (2020). Historical chemical annotations of *Cinchona* bark collections are comparable to results from current day high-pressure liquid chromatography technologies. *Journal of Ethnopharmacology* 249: 112375. DOI: <https://doi.org/10.1016/j.jep.2019.112375>
  108. Pérez-Escobar, O.A., Lucas, E., Jaramillo, C., Monro, A., Morris, S.K., Bogarín, D., Greer, D., Dodsworth, S., Aguilar-Cano, J., Sanchez Meseguer, A., **Antonelli, A.** (2019). The origin and diversification of the hyperdiverse flora in the Chocó biogeographic region. *Frontiers in Plant Science* 10: 1328. DOI: <https://doi.org/10.3389/fpls.2019.01328>
  109. Heiden, G., **Antonelli, A.**, Pirani, J.R. (2019). A novel phylogenetic infrageneric classification of *Baccharis* (Asteraceae: Astereae), a highly diversified American genus. *Taxon*. DOI: <https://doi.org/10.1002/tax.12128>
  110. Neves, B., Zanella, C.M., Kessous, I.M., Uribbe, F.P., Salgueiro, F., Bered, F., **Antonelli, A.**, Bacon, C.D., Costa, A.F. (2019). Drivers of bromeliad leaf and floral bract variation across a latitudinal gradient in the Atlantic Forest. *Journal of Biogeography* 47(1): 261–274. DOI: <https://doi.org/10.1111/jbi.13746>
  111. Ritter, C.D., Faurby, S., Bennett, D.J., Naka, L.N., ter Steege, H., Zizka, A., Haenel, Q., Nilsson, R.H., **Antonelli, A.** (2019). The pitfalls of biodiversity proxies: Differences in richness patterns of birds, trees and understudied diversity across Amazonia. *Scientific Reports* 9: 19205. DOI: <https://doi.org/10.1038/s41598-019-55490-3>
  112. Azevedo, J.A.R., Guedes, T.B., de C. Nogueira, C., Passos, P., Sawaya, R.J., Prudente, A.L.C., Barbo, F.E., Strüssmann, C., Franco, F.L., Arzamendia, V., Giraud, A.R., Argôlo, A.J.S., Jansen, M., Zaher, H., Tonini, J.F.R., Faurby, S.\*, **Antonelli, A.** (2019). Museums and cradles of diversity are geographically coincident for narrowly distributed Neotropical snakes. *Ecography* 42: 1–12. DOI: [0.1111/ecog.04815](https://doi.org/10.1111/ecog.04815)
  113. Da Silva, E. A., de Araujo, H.F.P., Aleixo, A., **Antonelli, A.**, Fernandes, A.M. (2019). The effects of climate change on the distribution of South American antbirds (*Thamnophilus punctatus* complex) as affected by niche divergences and contact zone interactions between species. *Journal of Ornithology* 161: 229–241. DOI: <https://doi.org/10.1007/s10336-019-01721-3>. Full text link: <https://rdcu.be/bSbSM>
  114. Morais, E.B., Schönenberger, J., Conti, E., **Antonelli, A.**, Szövényi, P. (2019). Orthologous nuclear markers and new transcriptomes that broadly cover the phylogenetic diversity of Acanthaceae. *Applications in Plant Sciences* 7(9): e11290. DOI: <https://doi.org/10.1002/aps3.11290>
  115. Rahbek, C., Borregaard, M.K., **Antonelli, A.**, Colwell, R.K., Holt, B.G., Noguees-Bravo, D., Rasmussen, C.M.Ø., Richardson, K., Rosing, M.T., Whittaker, R.J., Fjeldså, J. (2019). Building mountain diversity: geological and evolutionary processes. *Science* 365(6458): 1114–1119. DOI: <https://doi.org/10.1126/science.aax0151>
  116. Ritter, C.D., Zizka, A., Barnes, C., Nilsson, R.H., **Antonelli, A.** (2019). Locality or habitat? Exploring predictors of biodiversity in Amazonia. *Ecography* 41: 1–13. DOI: <https://doi.org/10.1111/ecog.03833>
  117. Silvestro, D., **Antonelli, A.**, Salamin, N., Meyer, X. (2019). Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework. *Paleobiology* 45(4): 546–570. DOI: <https://doi.org/10.1017/pab.2019.23>
  118. Bernal, R., Bacon, C.D., Baslev, H., Hoorn, C., Bourlat, S.J., Tuomisto, H., Salamanca, S., van Manen, M.T., Romero, I., Sepulchre, P., **Antonelli, A.** (2019). Could coastal plants in western Amazonia be relicts of past marine incursions? *Journal of Biogeography* 46: 1749–1759. DOI: <https://doi.org/10.1111/jbi.13560>
  119. Bernardo-Madrid, R., Calatayud, J., González-Suarez, M., Rosvall, M., Lucas, P.M., **Antonelli, A.**, Rueda, M., Revilla, E. (2019). Human activity is altering the world's zoogeographical regions. *Ecology Letters* 22(8): 1297–1305. DOI: <https://doi.org/10.1111/ele.13321>

120. Amorim, B.S., Vasconcelos, T.N.C., Souza, G., Alves, M., **Antonelli, A.**, Lucas, E. (2019). Advanced understanding of phylogenetic relationships, morphological evolution and biogeographic history of the mega-diverse plant genus *Myrcia* and its relatives (Myrtaceae: Myrteae). *Molecular Phylogenetics and Evolution* 138: 65–88. <https://doi.org/10.1016/j.ympev.2019.05.014>
121. Zizka, A., Silvestro, D., Andermann, T., Azevedo, J., Duarte Ritter, C., Edler, D., Farooq, H., Herdean, A., Ariza, M., Scharn, R., Svanteson, S., Wengström, N., Zizka, V., **Antonelli, A.** (2019). CoordinateCleaner: standardized cleaning of occurrence records from biological collection databases. *Methods in Ecology and Evolution* 10: 744–751. DOI: <https://doi.org/10.1111/2041-210X.13152>
122. Barrett, C.F., McKain, M., Brandon, S., Xue-Jun, G., Yuqu, Z., **Antonelli, A.**, Bacon, C. (2019). Ancient polyploidy and genome evolution in palms. *Genome Biology and Evolution* 11(5): 1501–1511. DOI: <https://doi.org/10.1093/gbe/evz092>
123. ter Steege, H., Mota de Oliveira, S., Pitman, N.C.A., Sabatier, D., **Antonelli, A.**, Andino, J.E.G., Aymard, G.A., Salomão, R.P. (2019). Towards a dynamic list of Amazonian tree species. *Nature Scientific Reports* 9: 3501. DOI: <https://doi.org/10.1038/s41598-019-40101-y>
124. Matos-Maraví, P., Wahlberg, N., **Antonelli, A.**, Penz, C.M. (2019). Species limits in butterflies (Lepidoptera: Nymphalidae): Reconciling classical taxonomy with the multispecies coalescent. *Systematic Entomology*. DOI: <https://doi.org/10.1111/syen.12352>
125. **Antonelli, A.**, Zizka, A., Antunes Carvalho, F., Scharn, R., Bacon, C.D., Silvestro, D., Condamine, F.L. (2018). Amazonia is the primary source of Neotropical biodiversity. *Proceedings of the National Academy of Sciences of the USA* 115(23): 6034–6039. DOI: <https://doi.org/10.1073/pnas.1713819115>
126. Bennett, D.J., Hettling, H., Silvestro, D., Vos, R. and **Antonelli, A.** (2018). restez: Create and query a local copy of GenBank in R. *Journal of Open Source Software* 3(31) 1102. DOI: <https://doi.org/10.21105/joss.01102>
127. Andermann, T., Fernandes, A., Olsson, U., Töpel, M., Pfeil, B., Oxelman, B., Aleixo, A., Faircloth, B.C., **Antonelli, A.** (2018). Allele phasing greatly improves the phylogenetic utility of ultraconserved elements. *Systematic Biology* 68: 32–46. DOI: <https://doi.org/10.1093/sysbio/syy039>
128. Ritter, C.D., Zizka, A., Roger, F., Tuomisto, H., Barnes, C., Barnes, C., Nilsson, R.H., **Antonelli, A.** (2018). High-throughput metabarcoding reveals the effect of physicochemical soil properties on soil and litter biodiversity and community turnover across Amazonia. *PeerJ* 6: e5661. DOI: <https://doi.org/10.7717/peerj.5661>
129. Bennett, D.J., Hettling, H., Silvestro, D., Zizka, A., Bacon, C.D., Faurby, S., Vos, R.A., **Antonelli, A.** (2018). phylotaR: An automated pipeline for retrieving orthologous DNA sequences from GenBank in R. *Life* 8: 20. doi: [10.3390/life8020020](https://doi.org/10.3390/life8020020)
130. Andermann, T., Cano, Á., Zizka, A., Bacon, C.D., **Antonelli, A.** (2018). SECAPR - A bioinformatics pipeline for the rapid and user-friendly processing of targeted enriched Illumina sequences, from raw reads to alignments. *PeerJ* 6: e5175. DOI: <https://doi.org/10.3390/life8020020>
131. Bacon CD, Velásquez-Puentes FJ, Hoorn, C., **Antonelli A.** (2018). Iriarteeae palms tracked the uplift of Andean Cordilleras. *Journal of Biogeography* 45(7): 1653–1663. DOI: <https://doi.org/10.1111/jbi.13350>
132. Faurby, S., **Antonelli, A.** (2018). Evolutionary and ecological success is decoupled in mammals. *Journal of Biogeography* 45(10): 2227–2237. DOI: <https://doi.org/10.1111/jbi.13411> [Editors' Choice]
133. Silvestro, D., Tejedor, M.F., Serrano-Serrano, M.L., Loiseau, O., Rossier, V., Rolland, J., Zizka, A., Höhna, A., **Antonelli, A.**, Salamin, N. (2018). Early arrival and climatically linked geographic expansion of New World monkeys from tiny African ancestors. *Systematic Biology* 68(1): 78–92. DOI: <https://doi.org/10.1093/sysbio/syy046>
134. Muscarella, R., Bacon, C.D., Faurby, S., **Antonelli, A.**, Munch-Christiansen, S., Svenning, J.-C., Balslev, H. (2018). Soil fertility and flood regime are correlated with phylogenetic structure of Amazonian palm communities. *Annals of Botany* 123: 641–655. DOI: <https://doi.org/10.1093/aob/mcy196>
135. Ferreira, M., Fernandes, A.M., Aleixo, A., **Antonelli, A.**, Olsson, U, Bates, J. M, Cracraft, J., Ribas, C. (2018). Evidence for mtDNA capture in the jacamar *Galbula leucogastra* / *chalcothorax* species-complex and insights on the evolution of white-sand ecosystems in the Amazon basin. *Molecular Phylogenetics and Evolution* S1055-7903(17): 30687-5. DOI: <https://doi.org/10.1016/j.ympev.2018.07.007>

136. Abreu, N.Ld., Alves, R.J.V., Cardoso, S.R.S., Bertrand, Y.J., Sousa, F., Hall, C.F., Pfeil, B.E., **Antonelli, A.** (2018). The use of chloroplast genome sequences to solve phylogenetic incongruences in *Polystachya* Hook (Orchidaceae Juss). *PeerJ* 6: e4916. DOI: <https://doi.org/10.7717/peerj.4916>
137. Woutersen, A., Jardine, P., Bogota-Angel, G., Silvestro, D., **Antonelli, A.**, Zhang, M.-L., Gogna, E., Erkens, R., Hoorn, C. (2018). A novel approach to study the morphology and chemistry of pollen in a phylogenetic context, applied to the halophytic taxon *Nitraria* L. (Nitrariaceae). *PeerJ* 6: e5055. DOI: <https://doi.org/10.7717/peerj.5055>
138. Faurby, S., Davis, D., Pedersen, R.Ø., Schowanek, S.D., **Antonelli, A.**, Svenning, J.-C. (2018). PHYLACINE 1.2: The Phylogenetic Atlas of Mammal Macroecology. *Ecology* 99(11): 2018, pp. 2626. DOI: <https://doi.org/10.1002/ecy.2443>
139. Hagen, O., Andermann, T., Quental, T.B., **Antonelli, A.**, Silvestro, D. (2018). Estimating age-dependent extinction: Contrasting evidence from fossils and phylogenies. *Systematic Biology* 67(3): 458–474. DOI: <https://doi.org/10.1093/sysbio/syx082>
140. Silva, G.A.R., **Antonelli, A.**, Moraes, E.M., Lendel, A., Manfrin, M.H. (2018). The impact of early Quaternary climate change on the diversification and population dynamics of a South American cactus species. *Journal of Biogeography* 45: 76–88. DOI: <https://doi.org/10.1111/jbi.13107>
141. Cano, A., Bacon, C.D., Stauffer, F.W., **Antonelli, A.**, Serrano-Serrano, M.L., Perret, M. (2018). The roles of dispersal and mass extinction in shaping palm diversity across the Caribbean. *Journal of Biogeography* 45(6): 1432–1443. DOI: <https://doi.org/10.1111/jbi.13225>
142. Eriksson, J.S., de Sousa, F., Bertrand, Y.J.K., **Antonelli, A.**, Oxelman, B., Pfeil, B.E. (2018). Allele phasing is critical to revealing a shared allopolyploid origin of *Medicago arborea* and *M. strasseri* (Fabaceae). *BMC Evolutionary Biology* 18: 9. DOI: <https://doi.org/10.1186/s12862-018-1127-z>
143. Guedes, T.B., Sawaya, R.J., Zizka, A., Laffan, S., Faurby, S., Pyron, A., Bérnills, R.S., Jansen, M., Passos, P., Prudente, A.L.C., Cisneros-Heredia, D.F., Braz, H.B., Nogueira, C.C., **Antonelli, A.** (2018). Patterns, biases, and prospects in the distribution and diversity of Neotropical snakes. *Global Ecology and Biogeography* 27: 14–21. DOI: <https://doi.org/10.1111/geb.12679>
144. Bacon, C.D., Velásquez-Puentes, F.J., Hinojosa, L.F., Schwartz, T., Oxelman, B., Pfeil, B., Arroyo, M.T.K., Wanntorp, L., **Antonelli, A.** (2018). Evolutionary persistence in *Gunnera* and the contribution of southern plant groups to the tropical Andes biodiversity hotspot. *PeerJ* 6: e4388. DOI: <https://doi.org/10.7717/peerj.4388>
145. Lehtonen, S., Silvestro, D., Karger, D. N., Scotese, C., Tuomisto, H., Kessler, M., Peña, C., Wahlberg, N., **Antonelli, A.** (2017). Environmentally driven extinction and opportunistic origination explain fern diversification patterns. *Nature Scientific Reports* 7: 4831. DOI: <https://doi.org/10.1038/s41598-017-05263-7>
146. Gonçalves, V.M., Pfeil, B.E., **Antonelli, A.**, Duarte, M.C. (2017). Two new species of *Pavonia* (Malvoideae, Malvaceae) from southern Bahia, Brazil. *Phytotaxa* 305: 97–103. DOI: <http://dx.doi.org/10.11646/phytotaxa.305.2.3>
147. Nieto Blazquez, E., **Antonelli, A.**, Roncal, J. (2017). Historical biogeography of endemic seed plant genera in the Caribbean: did GAARlandia play a role? *Ecology and Evolution* 7(23): 10158–10174. DOI: <https://doi.org/10.1002/ece3.3521>
148. Perez-Escobar, O.A., Chomicki, G., Condamine, F.L., Karremans, A.P., Bogarin, D., Matzke, N., Silvestro, D., **Antonelli, A.** (2017). Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. *New Phytologist* 215(2): 891–905. DOI: <https://doi.org/10.1111/nph.14629>
149. Rova, J., Persson, C., Ljungstrand, E., **Antonelli, A.** (2017). Lectotypification of *Pentagonia macrophylla* Benth. (Rubiaceae). *Phytotaxa* 311(3): 288–292. DOI: <http://dx.doi.org/10.11646/phytotaxa.311.3.10>
150. Bacon, C.D., Moraes, M., Jaramillo, C., **Antonelli, A.** (2017) Endemic palm species shed light on habitat shifts and the assembly of the Cerrado and Restinga floras. *Molecular Phylogenetics and Evolution* 110: 127–133. DOI: <https://doi.org/10.1016/j.ympev.2017.03.013>



151. **Antonelli, A.**, Hettling, H., Condamine, F.L., Hettling, H., Nilsson, R.H., Sanderson, M.J., Sauquet, H., Scharn, R., Silvestro, D., Töpel, M., Bacon, C.D., Oxelman, B., Vos, R.A. (2017). Toward a self-updating platform for estimating rates of speciation and migration, ages and relationships of taxa. *Systematic Biology* 66(2): 152–166. DOI: <https://doi.org/10.1093/sysbio/syw066>
152. Töpel, M., Zizka, A., Calió, M.F., Scharn, R., Silvestro, D., **Antonelli, A.** (2017). SpeciesGeoCoder: Fast categorisation of species occurrences for analyses of biodiversity, biogeography, ecology and evolution. *Systematic Biology* 66(2): 145–151. DOI: <https://doi.org/10.1093/sysbio/syw064>
153. Edler, D., Guedes, T., Zizka, A., Rosvall, M., **Antonelli, A.** (2017). Infomap Bioregions: Interactive mapping of biogeographical regions from species distributions. *Systematic Biology* 66(2): 197–204. DOI: <https://doi.org/10.1093/sysbio/syw087>
154. Ritter, C.D., McGrate, G., Nilsson, R.H., Fearnside, P.M., Palme, U., **Antonelli, A.** (2017). Environmental impact assessment in Brazilian Amazonia: Challenges and prospects to assess biodiversity. *Biological Conservation* 206: 161–168. DOI: <https://doi.org/10.1016/j.biocon.2016.12.031>
155. Zizka, A., ter Steege, H., Pessoa, M.C.R., **Antonelli, A.** (2017). Finding needles in the haystack: Where to look for rare species in the American tropics? *Ecography* 41: 321–330. DOI: <https://doi.org/10.1111/ecog.02192>
156. Maldonado, C., Persson, C., Alban, J., **Antonelli, A.**, Rønsted, N. (2017). *Cinchona anderssonii* (Rubiaceae), a new overlooked species from Bolivia. *PhytoTaxa* 297(2): 203–208. DOI: <http://dx.doi.org/10.11646/phytotaxa.297.2.8>
157. Pessoa, M.C.R., Persson, C., **Antonelli, A.**, Barbosa, M.R.V. (2017). First record of *Chomelia triflora* (J.H. Kirkbr.) Delprete & Achille (Rubiaceae) from Brazil. *Check List* 13(4): 159–162. DOI: <https://doi.org/10.15560/13.4.159>
158. Condamine, F., Leslie, A., **Antonelli, A.** (2017) Ancient islands acted as refugia and pumps for conifer diversity. *Cladistics* 33: 69–92. DOI: <https://doi.org/10.1111/cla.12155>
159. Claudel, C., Buerki, S., Chatrou, L., **Antonelli, A.**, Alvarez, N., Hetterscheid, W. (2017). Large-scale phylogenetic analysis of *Amorphophallus* (Araceae) derived from nuclear and plastid sequences reveals new subgeneric delineation. *Botanical Journal of the Linnean Society* 184(1): 32–45. DOI: <https://doi.org/10.1093/botlinnean/box013>
160. Maldonado, C., Barnes, C.J., Cornett, C., Holmfred, E., Hansen, S.H., Persson, C., **Antonelli, A.**, Rønsted, N. (2017). Phylogeny predicts the quantity of antimalarial alkaloids within the iconic yellow *Cinchona* bark (Rubiaceae: *Cinchona calisaya*). *Frontiers in Plant Science* 8: 391. DOI: <https://doi.org/10.3389/fpls.2017.00391>
161. ter Steege, H., Vaessen, R.W., Cárdenas-López, D., Sabatier, D., **Antonelli, A.**, Mota de Oliveira, S., Pitman, N.C.A., Møller Jørgensen, P., Salomão, R.P. (2016). The discovery of the Amazonian tree flora with an updated checklist of all known tree taxa. *Nature Scientific Reports* 6: 29549. DOI: <https://doi.org/10.1038/srep29549>
162. Barnes, C.J., Maldonado, C., Frøslev, T.G., **Antonelli, A.**, Rønsted, N. (2016). Unexpectedly high beta-diversity of root-associated fungal communities in the Bolivian Andes. *Frontiers in Microbiology* 7: 1377. DOI: <https://doi.org/10.3389/fmicb.2016.01377>
163. Mekkerdchoo, O., chaleeda Borompichaichartkul, C., Perrigo, A.L., Szrednicki, G., Prakitchaiwattana, C., **Antonelli, A.** (2016). Tracing the evolution and economic potential of konjac glucomannan in *Amorphophallus* species (Araceae) using molecular phylogeny and RAPD markers. *Phytotaxa* 282(2): 081–106. DOI: <http://dx.doi.org/10.11646/phytotaxa.282.2.1>
164. Silvestro, D., Zizka, A., Bacon, C.D., Cascales-Miñana, B., Salamin, N., **Antonelli, A.** (2016) Fossil biogeography: A new model to infer dispersal, extinction and sampling from paleontological data. *Philosophical Transactions of the Linnean Society B* 371: 1691. DOI: <https://doi.org/10.1098/rstb.2015.0225>
165. Bacon, C.D., Celasquez-Puentes, F., Florez-Rodriguez, A., Balslev, H., Galeano, G., Bernal, R., **Antonelli, A.** (2016). Phylogeny of Iriarteae palms, cross-Andean disjunctions, and multiple origins of infructescence morphology in *Wettinia*. *Botanical Journal of the Linnean Society* 182: 272–286. DOI: <https://doi.org/10.1111/boj.12421>

166. Bacon, C.D., Molnar, P., **Antonelli, A.**, Crawford, A.J., Montes, C., Vallejo-Pareja, M.C. (2016). Quaternary glaciation and the Great American Biotic Interchange. *Geology* 44(5): 375–378. DOI: <https://doi.org/10.1130/G37624.1>
167. Barrett, C.F., Bacon, C.D., **Antonelli, A.** Cano, A., Hofmann, T. (2016). An introduction to plant phylogenomics, with a focus on palms. *Botanical Journal of the Linnean Society* 182: 234–255. DOI: <https://doi.org/10.1111/boj.12399>
168. Lagomarsino, L., Condamine, F., **Antonelli, A.**, Mulch, A., Davis, C.C. (2016). The abiotic and biotic drivers of rapid diversification in Andean bellflowers. *New Phytologist* 210: 1430–1442. DOI: <https://doi.org/10.1111/nph.13920>
169. Abarenkov, K., Adams, R.I., Laszlo, I., Agan, A., Ambrosio, E., **Antonelli, A.**, Bahram, M., Bengtsson-Palme, J., Bok, G., Cangren, P., Coimbra, V., Coleine, C., Gustafsson, C., He, J., Hofmann, T., Kristiansson, E., Larsson, E., Larsson, T., Liu, Y., Martinsson, S., Meyer, W., Panova, M., Pombubpa, N., Ritter, C., Ryberg, M., Svantesson, S., Scharn, R., Svensson, O., Töpel, M., Unterseher, M., Visagie, C., Wurzbacher, C., Taylor, A.F.S., Kõljalg, U., Schriml, L., Nilsson, R.H. (2016). Annotating public fungal ITS sequences from the built environment according to the MiXS-Built Environment standard – a report from a May 23-24, 2016 workshop (Gothenburg, Sweden). *MycoKeys* 16: 1–15. DOI: <https://doi.org/10.3897/mycokeys.16.10000>
170. Silva, G.A.R., Jojima, C.L., Moraes, E.M., **Antonelli, A.**, Manfrin, M.H., Franco, F.F. (2016). Intra and interspecific sequence variation in closely related species of *Cereus* (CACTACEAE). *Biochemical Systematics and Ecology*, pp. 137–142. DOI: <https://doi.org/10.1016/j.bse.2016.02.001>
171. Bacon, C.D., Silvestro, D., Jaramillo, C.A., Smith, B.T., Chakrabarty, P., **Antonelli, A.** (2015). Biological evidence supports an early and complex emergence of the Isthmus of Panama. *Proceedings of the National Academy of Sciences of the USA* 112(19): 6110–6115. DOI: <https://doi.org/10.1073/pnas.1423853112>
172. Silvestro, D., **Antonelli, A.**, Salamin, N., Quental, T.B. (2015). The role of clade competition in the diversification of North American canids. *Proceedings of the National Academy of Sciences of the USA* 112(28): 8684–8689. DOI: <https://doi.org/10.1073/pnas.1502803112>
173. Vilhena, D., **Antonelli, A.** (2015). A network approach for identifying and delimiting biogeographical regions. *Nature Communications* 6: 6848. DOI: <https://doi.org/10.1038/ncomms7848>
174. **Antonelli, A.**, A. Zizka, D. Silvestro, R. Scharn, B. Cascales-Miñana, Bacon, C.D. (2015). An engine for global plant diversity: Highest evolutionary turnover and emigration in the American tropics. *Frontiers in Genetics* 6: 130. DOI: <https://doi.org/10.3389/fgene.2015.00130>
175. Silvestro, D., Cascales-Miñana, B., Bacon, C.D., **Antonelli, A.** (2015). Revisiting the origin and diversification of vascular plants through a comprehensive Bayesian analysis of the fossil record. *New Phytologist* 207: 425–436. DOI: <https://doi.org/10.1111/nph.13247>
176. Maldonado, C., Molina, C., Zizka, A., Persson, C., Taylor, C., Alban, J., Chilquillo, E., Rønsted, N., **Antonelli, A.** (2015). Estimating species diversity and distribution in the era of big data: To what extent can we trust public databases? *Global Ecology and Biogeography* 24: 973–984. DOI: <https://doi.org/10.1111/geb.12326>
177. Wüest, R., **Antonelli, A.**, Zimmermann, N., Linder, H.P. (2015). Available climate regimes drive niche diversification in grasses during range expansion. *The American Naturalist* 185(5): 640–652. DOI: <https://doi.org/10.1086/680551>
178. Zhang, Q., Feild, T.S., **Antonelli, A.** (2015). Assessing the impact of phylogenetic incongruence on taxonomy, floral evolution, biogeographical history, and phylogenetic diversity. *American Journal of Botany* 102(4): 566–580. DOI: <https://doi.org/10.3732/ajb.1400527>
179. Schwartz, T., Nylinder, S., Ramadugu, C., **Antonelli, A.**, Pfeil, B.E. (2015). The origin of oranges: a multi-locus phylogeny of Rutaceae subfamily Aurantioideae. *Systematic Botany* 40(4): 1053–1062. DOI: <https://doi.org/10.1600/036364415X690067>
180. Lagomarsino, L., **Antonelli, A.**, Muchhala, N., Mathews, S., Davis, C.C. (2014). Phylogeny, classification, and fruit evolution of the species-rich Neotropical bellflowers (Campanulaceae: Lobelioideae). *American Journal of Botany* 101(12): 2097–2112. DOI: <https://doi.org/10.3732/ajb.1400339>

181. Silvestro, D., Schnitzler, J., Liow, L.H., **Antonelli, A.**, Salamin, N. (2014). Bayesian estimation of speciation and extinction from incomplete fossil occurrence data. *Systematic Biology* 63(3): 349–367. DOI: <https://doi.org/10.1093/sysbio/syu006>
182. Linder, H.P., Rabosky, D.L., **Antonelli, A.**, Wüest, R.O., Ohlemüller, R. (2014). Disentangling the influence of climatic and geological changes on species radiations. *Journal of Biogeography* 41(7): 1313–1325. DOI: <https://doi.org/10.1111/jbi.12312>
183. Nilsson, R.H., Hyde, K.D., Pawlowska, J., Ryberg, M., Tedersoo, L., Aas, A.B., Alias, S.A., Alves, A., Anderson, C.L., **Antonelli, A.**, Arnold, A.E., Bahnmann, B., Bahram, M., Bengtsson-Palme, J., Berlin, A., Branco, S., Chomnunti, P., Dissanayake, A., Drenkhan, R., Friberg, H., Frøslev, T.G., Halwachs, B., Hartmann, M., Henricot, B., Jayawardena, R., Jumpponen, A., Kauserud, H., Koskela, S., Kulik, T., Liimatainen, K., Lindahl, B., Lindner, D., Liu, J.-K., Maharachchikumbura, S., Manamgoda, D., Martinsson, S., Neves, M.A., Niskanen, T., Nylinder, S., Pereira, O.L., Pinho, D.B., Porter, T.M., Queloz, V., Riit, T., Sanchez-García, M., de Sousa, F., Stefaczyk, E., Tadych, M., Takamatsu, S., Tian, Q., Udayanga, D., Unterseher, M., Wang, Z., Wikee, S., Yan, J., Larsson, E., Larsson, K.-H., Kõljalg, U., Abarenkov, K. (2014). Improving ITS sequence data for identification of plant pathogenic fungi. *Fungal Diversity* 67: 11–19. DOI: <https://doi.org/10.1007/s13225-014-0291-8>
184. Schirromeister, B.E., de Vos, J., **Antonelli, A.**, Bagheri, H.C. (2013). Evolution of multicellularity coincided with increased diversification of cyanobacteria and the Great Oxidation Event. *Proceedings of the National Academy of Sciences of the USA* 110(5): 1791–1796. DOI: <https://doi.org/10.1073/pnas.1209927110>
185. Linder, H.P., **Antonelli, A.**, Pirie, M.D., Humphreys, A.M., Wüest, R.O. (2013). What determines biogeographical ranges? Historical wanderings and ecological constraints in the danthonioid grasses. *Journal of Biogeography* 40(5): 821–834. DOI: <https://doi.org/10.1111/jbi.12070>
186. Groppo, M., Kallunki, J.A., Pirani, J.R., **Antonelli, A.** (2012). Chilean *Pitavia* more closely related to Oceania and Old World Rutaceae than to Neotropical groups: evidence from two cpDNA non-coding regions, with a new subfamilial classification of the family. *PhytoKeys* 19: 9–29. DOI: <https://doi.org/10.3897/phytokeys.19.3912>
187. Pirie, M.D., Humphreys, A.M., **Antonelli, A.**, Galley, C., Linder, H.P. (2012). Model uncertainty in ancestral area reconstruction: A parsimonious solution? *Taxon* 61(3): 652–664. DOI: <https://doi.org/10.1002/tax.613013>
188. Töpel, M., **Antonelli, A.**, Yesson, C., Eriksen, B. (2012). Past climate change and plant evolution in western North America: A case study in Rosaceae. *PLoS One* 7: e50358. DOI: <https://doi.org/10.1371/journal.pone.0050358>
189. **Antonelli, A.**, Sanmartín, I. (2011). Mass extinction, gradual cooling, or rapid radiation? Reconstructing the spatiotemporal evolution of the ancient angiosperm genus *Hedyosmum* (Chloranthaceae) using empirical and simulated approaches. *Systematic Biology* 60(5): 596–615. DOI: <https://doi.org/10.1093/sysbio/syr062>
190. Zhang, Q., **Antonelli, A.**, Feild, T.S., Kong, H.-Z. (2011). Revisiting taxonomy, morphological evolution, and fossil calibration strategies in Chloranthaceae. *Journal of Systematics and Evolution* 49: 315–329. DOI: <https://doi.org/10.1111/j.1759-6831.2011.00129.x>
191. Humphreys, A.M., **Antonelli, A.**, Pirie, M.D., Linder, H.P. (2011). Ecology and evolution of the diaspore ‘burial syndrome’. *Evolution* 65(4): 1163–1180. DOI: <https://doi.org/10.1111/j.1558-5646.2010.01184.x>
192. Schirromeister, B.E., **Antonelli, A.**, Bagheri, H.C. (2011). The origin of multicellularity in cyanobacteria. *BMC Evolutionary Biology* 11: 45. DOI: <https://doi.org/10.1186/1471-2148-11-45>
193. **Antonelli, A.**, Humphreys, A.M., Lee, W.G., Linder, H.P. (2011). Absence of mammals and the evolution of New Zealand grasses. *Proceedings of the Royal Society Series B: Biological Sciences* 278: 695–701. DOI: <https://doi.org/10.1098/rspb.2010.1145> [Journal Cover]
194. Bartish, I.V., **Antonelli, A.**, Richardson, J.E., Swenson, U. (2011). Vicariance or long-distance dispersal: historical biogeography of the pantropical subfamily Chrysophylloideae (Sapotaceae). *Journal of Biogeography* 38: 177–190. DOI: <https://doi.org/10.1111/j.1365-2699.2010.02389.x>
195. Bytebier, B., **Antonelli, A.**, Bellstedt, D.U., Linder, P. (2011). Estimating the age of fire in the Cape Flora of South Africa from an orchid phylogeny. *Proceedings of the Royal Society Series B: Biological Sciences* 278: 188–195. DOI: <https://doi.org/10.1098/rspb.2010.1035>

196. **Antonelli, A.**, Verola, C.F., Parisod, C. Gustafsson, A.L.S. (2010). Climate cooling promoted the expansion and radiation of a threatened group of South American orchids (Epidendroideae:Laeliinae). *Biological Journal of the Linnean Society* 100(3): 596–606. DOI: <https://doi.org/10.1111/j.1095-8312.2010.01438.x>
197. Gustafsson, A.L.S., Verola, C.F., **Antonelli, A.** (2010). Reassessing the temporal evolution of orchids with new fossils and a Bayesian relaxed clock, with implications for the diversification of the rare South American genus *Hoffmannseggella* (Orchidaceae: Epidendroideae). *BMC Evolutionary Biology* 10: 177. DOI: <https://doi.org/10.1186/1471-2148-10-177>
198. Groppo, M., Fiaschi, P., Salatino, M.L.F., Ceccantini, G.T., Santos, F.A.R., Verola, C., **Antonelli, A.** (2010). Placement of *Kuhlmanniodendron* Fiaschi & Groppo in Lindackerieae (Achariaceae, Malpighiales) confirmed by analyses of rbcL sequences, with notes on pollen and wood anatomy. *Plant Systematics and Evolution* 286: 27–37. DOI: <https://doi.org/10.1007/s00606-010-0276-3>
199. **Antonelli, A.**, Nylander, J.A.A., Persson, C., Sanmartín, I. (2009). Tracing the impact of the Andean uplift on Neotropical plant evolution. *Proceedings of the National Academy of Sciences of the USA* 106(24): 9749–9754. DOI: <https://doi.org/10.1073/pnas.0811421106>
200. **Antonelli, A.** (2009). Have giant lobelias evolved several times independently? Life form shifts and historical biogeography of the cosmopolitan and highly diverse subfamily Lobelioideae (Campanulaceae). *BMC Biology* 7: 82. 21 pp. DOI: <https://doi.org/10.1186/1741-7007-7-82>
201. **Antonelli, A.**, Dahlberg, C.J., Karlgren, K.H.I., Appelqvist, T. (2009). Pollination of the Lady's slipper orchid (Orchidaceae: *Cypripedium calceolus*) in southern Scandinavia: taxonomic and conservational aspects. *Nordic Journal of Botany* 27: 266–273. DOI: <https://doi.org/10.1111/j.1756-1051.2009.00263.x>
202. Eriksson, K.M., **Antonelli, A.**, Nilsson, R.H., Clarke, A.K., Blanck, H. (2009). A phylogenetic approach to detect selection on the target site of the antifouling compound irgarol 1051 in tolerant periphyton communities. *Environmental Microbiology* 11(8): 2065–2077. DOI: <https://doi.org/10.1111/j.1462-2920.2009.01928.x>
203. **Antonelli, A.** (2008). Higher level phylogeny and evolutionary trends in Campanulaceae subfam. Lobelioideae: Molecular signal overshadows morphology. *Molecular Phylogenetics and Evolution* 46(1): 1–18. DOI: <https://doi.org/10.1016/j.ympev.2007.06.015>
204. Hallenberg, N., Henrik Nilsson, R., **Antonelli, A.**, Wu, S.H., Maekawa, N., Nordén, B. (2007). The *Peniophorella praetermissa* species complex (Basidiomycota). *Mycological Research* 111: 1366–1376. DOI: <https://doi.org/10.1016/j.mycres.2007.10.001>
205. Verola, C.F., Semir, J., **Antonelli, A.**, Koch, I. (2007). Biosystematic studies in Brazilian endemic genus *Hoffmannseggella* H.G.Jones (Orchidaceae: Laeliinae): a multiple approach applied to conservation. *Lankesteriana* 7(1-2): 419–422. DOI: <https://doi.org/10.15517/LANK.V7I1-2.19651>
206. Andersson, L., **Antonelli, A.** (2005). Phylogeny of the tribe Cinchoneae (Rubiaceae), its position in Cinchonoideae, and description of a new genus, *Ciliosemina*. *Taxon* 54(1): 17–28. DOI: <https://doi.org/10.2307/25065412>

Review and comment articles in scientific journals (Peer-reviewed):

207. Brancalion, P.H.S., Hua, F., Joyce, F.H., **Antonelli, A.**, Holl, K.D. (2025). Moving biodiversity from an afterthought to a key outcome of forest restoration. *Nature Reviews Biodiversity*. DOI: <https://doi.org/10.1038/s44358-025-00032-1>
208. **Antonelli, A.**, Rueda, X., Calcagno, R., Nantongo Kalunda, P. (2024). How biodiversity credits could help to conserve and restore nature. *Nature* 634: 1045-1049. DOI: <https://doi.org/10.1038/d41586-024-03475-2>
209. **Antonelli, A.**, Teisher, J.K., Smith, R.J., et al. (2024). The 2030 Declaration on Scientific Plant and Fungal Collecting. *Plants, People, Planet*. DOI: <https://doi.org/10.1002/ppp3.10569>
210. Davis, C.C., Sessa, E., Paton, A., **Antonelli, A.**, Teisher, J.K. (2024). Guidelines for the effective and ethical sampling of herbaria. *Nature Ecology & Evolution*. DOI: <https://doi.org/10.1038/s41559-024-02544-z>

211. Jago, S., Elliott, K.F.V.A., Tovar, C., Soto Gomez, M., Starnes, T., Abebe, W., **Antonelli, A.** . . . Borrell, J.S. (2024). Adapting wild biodiversity conservation approaches to conserve agrobiodiversity. *Nature Sustainability*. DOI: <https://doi.org/10.1038/s41893-024-01427-2>
212. **Antonelli, A.**, Govaerts, R., Nic Lughadha, E., Onstein, R.E., Smith, R.J., Zizka, A. (2023). Why plant diversity and distribution matter. *New Phytologist* 240: 1331-1336. DOI: <https://doi.org/10.1111/nph.19282>
213. Niskanen T., Lücking R., Dahlberg A., ... **Antonelli, A.** (2023). Pushing the Frontiers of Biodiversity Research: Unveiling the Global Diversity, Distribution, and Conservation of Fungi. *Annual Review of Environment and Resources* 48:22.1–22.28. <https://doi.org/10.1146/annurev-environ-112621-090937>
214. Truszkowski, J., Perrigo, A., Broman, D., Ronquist, F., **Antonelli, A.** (2023). Online tree expansion could help solve the problem of scalability in Bayesian phylogenetics. *Systematic Biology*: syad045. DOI: <https://doi.org/10.1093/sysbio/syad045>
215. Tedersoo, L., Sepping, J., Morgunov, A. S., Kiik, M., Esop, K., Rosenvald, R., Hardwick, K., Breman, E., Purdon, R., Groom, B., Venmans, F., Kiers, E. T., **Antonelli, A.** (2023). Towards a co-crediting system for carbon and biodiversity. *Plants, People, Planet*, 1– 11. DOI: <https://doi.org/10.1002/ppp3.10405>
216. Sigmund, G., Ågerstrand, M., **Antonelli, A.**, Backhaus, T., Brodin, T., Diamond, M. L., Erdelen, W. R., Evers, D. C., Hofmann, T., Hueffer, T., Lai, A., Torres, J. P. M., Mueller, L., Perrigo, A. L., Rillig, M. C., Schaeffer, A., Scheringer, M., Schirmer, K., Tlili, A. Soehl, A., Triebkorn, R., Vlahos, P., vom Berg, C., Wang, Z., Groh, K. J. (2023). Addressing chemical pollution in biodiversity research. *Global Change Biology* 29: 3240– 3255. DOI: <https://doi.org/10.1111/gcb.16689>
217. Farooq, H., **Antonelli, A.**, Faurby, S. (2023). A call for improving the Key Biodiversity Areas framework. *Perspectives in Ecology and Conservation*. DOI: <https://doi.org/10.1016/j.pecon.2023.02.002>
218. **Antonelli, A.** (2023). Indigenous knowledge is key to sustainable food systems. *Nature* 613: 239-242. DOI: <https://doi.org/10.1038/d41586-023-00021-4> [peer-reviewed by exception]
219. **Antonelli, A.**, Dhanjal-Adams, K. L., & Silvestro, D. (2022). Integrating machine learning, remote sensing and citizen science to create an early warning system for biodiversity. *Plants, People, Planet*, 1– 10. DOI: <https://doi.org/10.1002/ppp3.10337>
220. **Antonelli, A.**, Smith, R.J., Perrigo, A., et al. (2022). Madagascar’s extraordinary biodiversity: Evolution, distribution, and use. *Science* 378: eabf8069. DOI: <https://doi.org/10.1126/science.abf0869>
221. Ralimanana, H. Perrigo, A., Smith, R.J., ... **Antonelli, A.** (2022). Madagascar’s extraordinary biodiversity: Threats and opportunities. *Science* 378: eadf1466. DOI: <https://doi.org/10.1126/science.adf1466>
222. **Antonelli, A.** (2022). The rise and fall of Neotropical biodiversity. *Botanical Journal of the Linnean Society*, 199(1): 8–24. DOI: <https://doi.org/10.1093/botlinnean/boab061>
223. Pimiento, C., **Antonelli, A.** (2022). Integrating deep-time palaeontology in conservation prioritisation. *Frontiers in Ecology and Evolution* 10. DOI: <https://doi.org/10.3389/fevo.2022.959364>
224. Cowell, C., Paton, A., Borrell, J.S., Williams, C., Wilkin, P., **Antonelli, A.**, Baker, W.J., Buggs, R., Fay, M.F., Gargiulo, R., Grace, O.M., Kuhnhäuser, B.G., Woudstra, Y., Kersey, P.J. (2021). Uses and benefits of digital sequence information from plant genetic resources: lessons learnt from botanical collections. *Plants People Planet*. DOI: <https://doi.org/10.1002/ppp3.10216>
225. Grace, O.M., Pérez-Escobar, O.A., Lucas, E.J., Vorontsova, M.S., Lewis, G.P., Walker, B.E., Lohmann, Lúcia G., Knapp, S., Wilkie, P., Sarkinen, T., Darbyshire, I., Nic Lughadha, E., Monro, A., Woudstra, Y., Demissew, S., Muasya, A. M., Díaz, S., Baker, W.J., **Antonelli, A.** (2021). Botanical monography in the Anthropocene. *Trends in Plant Science* 26(5): 433–441. DOI: <https://doi.org/10.1016/j.tplants.2020.12.018>

226. Pironon, S., Borrell, J.S., Ondo, I., Douglas, R., Phillips, C., Khoury, C.K., Kantar, M., Fumia, N., Soto Gomez, M., Viruel, J., Govaerts, R., Forest, F., **Antonelli, A.** (2020). Toward unifying global hotspots of wild and domesticated biodiversity. *Plants* 9(9): 1128. DOI: <https://doi.org/10.3390/plants9091128>
227. Nic Lughadha, E.N, Bachman, S.P., Leão, T.C., Forest, F., Halley, J.M., Moat, J., Acedo, C., Bacon, K. Brewer, R.F.A., Gâteblé, G., Gonçalves, S.C., Govaerts, R., Hollingsworth, P.M., Krisai-Greilhuber, I., de Lirio, E.J., Moore, P.G.P., Negrão, R., Onana, J.-M., Rajaovelona, L., Razanajatovo, H., Reich, P.B., Richards, S.L., Rivers, M.C., Cooper, A., Iganci, J., Lewis, G.P., Smidt, E.C., **Antonelli, A.**, Mueller, G.M., Walker, B.E. (2020). Extinction risk and threats to plants and fungi. *Plants, People, Planet* 2(5): 399–408. DOI: <https://doi.org/10.1002/ppp3.10146>
228. Ulian, T., Diazgranados, M., Pironon, S., Padulosi, S., Liu, U., Howes, M.-J.R., Borrell, J.S., Ondo, I., Pérez-Escobar, O.A., Sharrock, S., Ryan, P., Hunter, D., Lee, M.A., Barstow, C., Łuczaj, L., Pieroni, A., Cámara-Leret, R., Noorani, A., Mba, C., Nono Womdim, R., Muminjanov, H., **Antonelli, A.**, Pritchard, H.W., Mattana, E. (2020). Unlocking plant resources to support food security and promote sustainable agriculture. *Plants, People, Planet* 2(5): 421–425. DOI: <https://doi.org/10.1002/ppp3.10145>
229. Grace, O.M., Lovett, J.C., Gore, C.J.N., Moat, J., Ondo, I., Pironon, S., Langat, M.K., Pérez-Escobar, O.A., Ross, A., Abbo, M.S., Shrestha, K.K., Gowda, B., Farrar, K., Adams, J., Cámara-Leret, R., Diazgranados, M., Ulian, T., Sagala, S., Rianawati, E., Hazra, A., Masera, O.R., **Antonelli, A.**, Wilkin, P. (2020). Plant Power: Opportunities and challenges for meeting sustainable energy needs from the plant and fungal kingdoms. *Plants, People, Planet* 2(5): 446–462. DOI: <https://doi.org/10.1002/ppp3.10147>
230. Paton, A., **Antonelli, A.**, Carine, M., Campostrini Forzza, R., Davies, N., Demissew, S., Dröge, G., Fulcher, T., Grall, A., Holstein, N., Jones, M., Liu, U., Miller, J., Moat, J., Nicolson, N., Ryan, M., Sharrock, S., Smith, D., Thiers, B., Victor, J., Dickie, J. (2020). Plant and Fungal Collections: Current status, future perspectives. *Plants, People, Planet* 2(5): 499–514. DOI: <https://doi.org/10.1002/ppp3.10141>
231. Pearce, T., **Antonelli, A.**, Tambam, B.B., Brearley, F.Q., Couch, C., Campostrini Forzza, R., Gonçalves, S.C., Magassouba, S., Morim, M.P., Mueller, G.M., Nic Lughadha, E., Obreza, M., Sharrock, S., Simmonds, M.S.J., Utteridge, T., Breman, E. (2020). International collaboration between collections-based institutes for halting biodiversity loss and unlocking the useful properties of plants and fungi. *Plants, People, Planet* 2(5): 515–534. DOI: <https://doi.org/10.1002/ppp3.10149>
232. Williams, C., Walsh, A., Vaglica, V., Sirakaya, A., da Silva, M., Dalle, G., Winterton, D., Annecke, W., Smith, P., Kersey, P.J., Way, M., **Antonelli, A.**, Cowell, C. (2020). Conservation Policy: Helping or hindering science to unlock properties of plants and fungi. *Plants, People, Planet* 2(5): 535–545. DOI: <https://doi.org/10.1002/ppp3.10139>
233. Perrigo, A., Hoorn, C., **Antonelli, A.** (2019). Why Mountains Matter for Biodiversity. *Journal of Biogeography* 47(2): 15–25. DOI: <https://doi.org/10.1111/jbi.13731>
234. Chomicki, G., Weber, M., **Antonelli, A.**, Bascompte, J., Kiers, E.T. (2019). The impact of mutualisms on species richness. *Trends in Ecology and Evolution* 34(4): 698–711. [COVER] DOI: <https://doi.org/10.1016/j.tree.2019.03.003>
235. Rydén, O., Zizka, A., Jagers, S.C., Lindberg, S.I., **Antonelli, A.** (2019). Linking democracy and biodiversity conservation: Empirical evidence and research gaps. *Ambio* 49: 419–433. DOI: <https://doi.org/10.1007/s13280-019-01210-0>
236. Ritter, C.D., Häggqvist, S., Karlsson, D., Sääksjärvi, I.E., Muasya, M., Nilsson, R.H., **Antonelli, A.** (2019). Biodiversity assessments in the 21st century: The potential of insect traps to complement environmental samples for estimating eukaryotic and prokaryotic diversity using high-throughput DNA metabarcoding. *Genome* 62(3): 147–159. DOI: <https://doi.org/10.1139/gen-2018-0096>
237. Matos-Maraví, P., Duarte Ritter, C., Barnes, C.J., Nielsen, M., Olsson, U., Wahlberg, N., Marquina, D., Sääksjärvi, I., **Antonelli, A.** (2019). Biodiversity seen through the perspective of insects: 10 simple rules on methodological choices and experimental design for genomic studies. *PeerJ* 7: e6727. DOI: <https://doi.org/10.7717/peerj.6727>

238. Bravo, G.A., **Antonelli, A.**, Bacon, C.D., Bartoszek, K., Blom, M., Huynh, S., Jones, G., Knowles, L., Lamichhane, S., Marcussen, T., Morlon, H. (2019). Embracing heterogeneity: coalescing the Tree of Life and the future of phylogenomics. *PeerJ* 7: e6399. DOI: <https://doi.org/10.7717/peerj.6399>
239. **Antonelli, A.**, Kissling, W.D., Flantua, S.G.A., Bermúdez, M.A., Mulch, A.M., Muellner-Riehl, A.N., Kreft, H., Linder, H.P., Badgley, C., Fjeldså, J., Fritz, S.A., Rahbek, C., Herman, F., Hooghiemstra, H., Hoorn, C. (2018). Geological and climatic influences on mountain biodiversity. *Nature Geoscience* 11(10): 718–725. DOI: <https://doi.org/10.1038/s41561-018-0236-z>
240. **Antonelli, A.**, Ariza, M., Albert, J., Andermann, T., Azevedo, J., Bacon, C., Faurby, S., Guedes, T., Hoorn, C., Lohmann, L., Matos-Maraví, P., Ritter, C. D., Sanmartín, I., Silvestro, D., Tejedor, M., ter Steege, T., Tuomisto, H., Werneck, F., Zizka, A., Edwards, S. (2018). Conceptual and empirical advances in Neotropical biodiversity research. *PeerJ* 6: e5644. DOI: <https://doi.org/10.7717/peerj.5644>
241. Eiserhardt, W., **Antonelli, A.**, Bennett, D.J., Botigue, L.R., Burleigh, J.G., Dodsworth, S., Enquist, B.J., Forest, F., Kim, J.T., Kozlov, A.M., Leitch, I.J., Maitner, B.M., Mirarab, S., Piel, W.H., Perez-Escobar, O.A., Pokorny, L., Rahbek, C., Sandel, B., Smith, S.A., Stamatakis, A., Vos, R.A., Warnow, T., Baker, W.J. (2018). A roadmap for global synthesis of the plant tree of life. *American Journal of Botany* 105(3): 1–9. DOI: <https://doi.org/10.1002/ajb2.1041>
242. Albert, J.S., **Antonelli, A.** (2017). Society for the Study of Systematic Biology symposium: Frontiers in Parametric Biogeography. *Systematic Biology* 66(2): 125–127. DOI: <https://doi.org/10.1093/sysbio/syx036>
243. De Baets, K., **Antonelli, A.**, Donoghue, P. (2016). Tectonic blocks and molecular clocks. *Philosophical Transactions B* 371: 1699. DOI: <http://dx.doi.org/10.1098/rstb.2016.0098>
244. Hughes, C., Pennington, R.T., **Antonelli, A.** (2013). Neotropical plant evolution: assembling the big picture. *Botanical Journal of the Linnean Society* 171: 1–18. DOI: <https://doi.org/10.1111/boj.12006>
245. **Antonelli, A.**, Sanmartín, I. (2011). Why are there so many plant species in the Neotropics? *Taxon* 60(2): 403–414. DOI: <https://doi.org/10.1002/tax.602010>
246. Hoorn, C., Wesselingh, F.P., Steege, H. ter., Stadler, T., I. Sanmartín, Sanchez-Meseguer, A., Anderson, C.L., Jaramillo, C.M., Bermudez, C., Figueiredo, J.D., Riff, F.R., Negri, H. Hooghiemstra, J. Lundberg, T. Sarkinen, A. Mora, **Antonelli, A.** (2010). Amazonia through time: Andean uplift, climate change, landscape evolution, and biodiversity. *Science* 330: 927–931. DOI: <https://doi.org/10.1126/science.1194585>

#### Scientific books and book chapters (Peer-reviewed)

247. Guedes, T.B., Azevedo, J.A.R., Bacon, C.D., Provete, D.B., **Antonelli, A.** (2020). Diversity, Endemism, and Evolutionary History of Montane Biotas Outside the Andean Region. In: *Neotropical Diversification*. Edited by V. Rull and A. Carnaval. Springer. pp 299–328. ISBN 978-3-030-31166-7. DOI: [https://doi.org/10.1007/978-3-030-31167-4\\_13](https://doi.org/10.1007/978-3-030-31167-4_13)
248. Azevedo, J.A.R., Collevatti, G.R., Jaramillo, C.A., Strömberg, C.A.E., Guedes, T.B., Matos-Maraví, P., Bacon, C.D., Carrillo, J.D., Faurby, S., **Antonelli, A.** (2020). On the young savannas in the land of ancient forests. In: *Neotropical Diversification*. Edited by V. Rull and A. Carnaval. Springer. pp 271–298. ISBN 978-3-030-31166-7. DOI: [https://doi.org/10.1007/978-3-030-31167-4\\_12](https://doi.org/10.1007/978-3-030-31167-4_12)
249. Hoorn, C., Perrigo, A., **Antonelli, A.** (2018). *Mountains, Climate and Biodiversity*. Wiley, 594 pp. ISBN: 978-1-119-15987-2.
250. Condamine, F.L., **Antonelli, A.**, Lagomarsino, L.P., Hoorn, C., Liow, L.H. (2018). Teasing apart mountain uplift, climate change and biotic drivers of species diversification. In: *Mountains, Climate and Biodiversity*. Edited by C. Hoorn, A. Perrigo and A. Antonelli. Wiley. pp 257–272. ISBN: 978-1-119-15987-2.
251. Hoorn, C., Perrigo, A., **Antonelli, A.** (2018). Mountains, climate and biodiversity: An introduction. In: *Mountains, Climate and Biodiversity*. Edited by C. Hoorn, A. Perrigo and A. Antonelli. Wiley. pp 1–14. ISBN: 978-1-119-15987-2.
252. Huber, O., Prance, G.T., Kroonenberg, S., **Antonelli, A.** (2018). The tepuis of the Guiana Highlands. In: *Mountains, Climate and Biodiversity*. Edited by C. Hoorn, A. Perrigo and A. Antonelli. Wiley. pp. 339–353. ISBN: 978-1-119-15987-2.

253. **Antonelli, A.** (2017). Comparative biogeography, big data, and common myths. In: Tropical Plant Collections: Legacies from the Past? Essential Tools for the Future? Edited by I. Friis and H. Balslev. *Scientia Danica. Series B, Biologica*, vol. 6. ISSN 1904-5484. ISBN 978-87-7304-407-0
254. **Antonelli, A.** (2016). Neotropical biogeography: Possible goals and challenges for the next ten years. [in Portuguese] In: *Biogeografia da América do Sul / Análise de Tempo, Espaço e Forma*. Edited by C.J.B. de Carvalho & E.A.B. Almeida. Rio de Janeiro: Roca. pp 279–288.
255. Fiaschi, P., Pirani, J.R., Heiden, G., **Antonelli, A.** (2016). Floristic biogeography of South America. [in Portuguese] In: *Biogeografia da América do Sul / Análise de Tempo, Espaço e Forma*. Edited by C.J.B. de Carvalho & E.A.B. Almeida. Rio de Janeiro: Roca. pp 215–226.
256. **Antonelli, A.**, Quijada-Masareñas, A., Crawford, A.J., Bates, A.J., Velazco, J.M., Wüster, W. (2010). Molecular studies and phylogeography of Amazonian tetrapods and their relation to geological and climatic models. In: *Amazonia, Landscape and Species Evolution, 1st edition*. Edited by C. Hoorn and F.P. Wesselingh. Blackwell Publishing. ISBN 9781405181136.
257. Wesselingh, F. P., Hoorn, C., Kroonenberg, S.B., **Antonelli, A.**, Lundberg, J.G., Vonhof, H.B., Hooghiemstra, H. (2010). On the origin of Amazonian landscapes and biodiversity: a synthesis. In: *Amazonia, Landscape and Species Evolution, 1st edition*. Edited by C. Hoorn and F.P. Wesselingh. Blackwell Publishing, ISBN 9781405181136.

Opinion, perspective and comment articles, editorials, and reports (Non peer-reviewed)

258. Antonelli, A., Chater, C., Strassburg, B., Balmford, A. (2025). Trade tariffs could worsen deforestation in South America. *Nature* 640: 881. DOI: <https://doi.org/10.1038/d41586-025-01262-1>
259. Pironon, S., Ondo, I., Diazgranados, M., Allkin, R., Baquero, A.C., Cámara-Leret, R. ... **Antonelli, A.\***, Willis, K. J.\* (2024). Safeguard stewards of biodiversity knowledge—Response. *Science* 385(6708): 506-506. DOI: <https://doi.org/10.1126/science.adp6014> \*Joint senior authors
260. Kersey, P.J., **Antonelli, A.** (2023). Physical infrastructure and global capacity are both needed to fight biodiversity loss. *Nature Plants*. DOI: <https://doi.org/10.1038/s41477-023-01594-8>
261. Silvestro, D., Goria, S., Groom, B., Sterner, T., **Antonelli, A.** (2023). The 30 by 30 biodiversity commitment and financial disclosure: Metrics matter (October 6, 2023). Available at SSRN: <https://ssrn.com/abstract=4594937>. DOI: <http://dx.doi.org/10.2139/ssrn.4594937>
262. Farooq, H., **Antonelli, A.**, Faurby, S. (2023). Future-proofing the Key Biodiversity Areas framework. Correspondence. *Perspectives in Ecology and Conservation*. DOI: <https://doi.org/10.1016/j.pecon.2023.09.002>
263. **Antonelli, A.**, Fry, C., Smith, R.J., Eden, J., et al. (2023). *State of the World's Plants and Fungi 2023*. Royal Botanic Gardens, Kew. DOI: <https://doi.org/10.34885/wwn-6s63>
264. Ren, H., **Antonelli, A.** (2023). National botanical gardens at the forefront of global plant diversity conservation. *The Innovation*. DOI: <https://doi.org/10.1016/j.xinn.2023.100478>
265. Tedersoo, L., Seeping, J., Morgunov, A.S., Kiik, M., Esop, K., Rosenthal, R., Hardwick, K., Breman, E., Purdon, R., Groom, B., Venmans, F., Kiers, E.T., **Antonelli, A.** (2023). Towards a co-crediting system for carbon and biodiversity. *Plants, People, Planet* 6(1): 18–28. DOI: <https://doi.org/10.1002/ppp3.10405>
266. **Antonelli, A.**, Farooq, H., Colli-Silva, M., Araújo, J.P.M., Freitas, A.V.L., Gardner, E.M., Grace, O., Gu, S., Marline, L., Nesbitt, M., Niskanen, T., Onana, J.M., Pérez-Escobar, O.A., Taylor, C., Knapp, S. (2023). People-inspired names remain valuable. *Nature Ecology and Evolution* 7: 1161–1162. DOI: <https://doi.org/10.1038/s41559-023-02108-7>
267. Johannesson, K., **Antonelli, A.**, Pinhassi, J., Svensson, E., Wahlberg, N., Åkesson, S. (2023). Science says... on biodiversity and evolution. Swedish Royal Academy of Sciences. Free link to article: <https://www.kva.se/app/uploads/2023/05/VSOmBiologiskMangfald230522.pdf> [see also video at [https://youtube.com/shorts/C505\\_R2kAdM](https://youtube.com/shorts/C505_R2kAdM)]
268. **Antonelli, A.** (2023). Five essentials for area-based biodiversity protection. *Nature Ecology & Evolution*. DOI: <https://doi.org/10.1038/s41559-023-02023-x>. Free link to article: <https://rdcu.be/c7kkH>



269. Guedes, T.B., Diniz-Filho, J.A., Diele-Viegas, L.M., Tonini, J.F.R., **Antonelli, A.** (2023). Invest in early-career researchers in Brazil. *Science* 379: 6631. DOI: <https://www.science.org/doi/10.1126/science.adg4131>
270. Goodale, U.M., **Antonelli, A.**, Nelson, C.R., Chau, M.M. (2023). Seed banks needed to restore ecosystems. *Science* 379(6628): 147–147. DOI: <https://doi.org/10.1126/science.adg2171>
271. **Antonelli, A.**, Moomaw, W., Niinemets, Ü., Malcolm, J.R. (2023). Open Letter to World Leaders. Published by Cut Carbon Not Forests. Available at: <https://www.cutcarbonnotforests.org/scientist-letter-read/>
272. The Declaration Drafting Committee. (2021). Kew declaration on reforestation for biodiversity, carbon capture and livelihoods. *Plants People Planet*. DOI: <https://doi.org/10.1002/ppp3.10230>
273. Royal Botanic Gardens, Kew (2021). *Science Strategy 2021–2025*. Royal Botanic Gardens, Kew, Richmond. DOI: <https://doi.org/10.34885/rbgkewsciencestrategy2021>
274. **Antonelli, A.\***, Fry, C.\*, Smith, R.J.\*, Simmonds, M.S.J.\*, Kersey, P.J.\*, Pritchard, H.W.\*, et al. (2020). *State of the World's Plants and Fungi 2020*. Royal Botanic Gardens, Kew. DOI: <https://doi.org/10.34885/172>
275. **Antonelli, A.**, Hiscock, S., Lennon, S., Simmonds, M., Smith, R.J., Young, B. (2020). Protecting and sustainably using the world's plants and fungi. *Plants, People, Planet* 2(5): 368–370. DOI: <https://doi.org/10.1002/ppp3.10150>
276. Nic Lughadha, E., **Antonelli, A.**, Humphreys, A.M. (2020) Plant diversity is in serious decline. In: *Living Planet Report 2020 - Bending the curve of biodiversity loss*. Almond, R.E.A., Grooten M. and Petersen, T. (Eds). WWF, Gland, Switzerland.
277. Antonelli, A. (2020). [Director of Science at Kew: it's time to decolonise botanical collections](#). The Conversation. 19 June 2020.
278. **Antonelli, A.**, Smith, R.J., Simmonds, M.S.J. (2019). Unlocking the properties of plants and fungi for sustainable development. *Nature Plants* 5: 1100–1102. DOI: <https://doi.org/10.1038/s41477-019-0554-1>. Full text link: <https://rdcu.be/bWBkv>
279. **Antonelli, A.** (2019). Tree plantations: get them right. *Nature* 572: 178. DOI: <https://doi.org/10.1038/d41586-019-02366-1>
280. Kehoe, L., Reis, T., Virah-Sawmy, M., Balmford, A., Kuemmerle, T., Knohl, A., **Antonelli, A.**, et al. (2019). Make EU trade with Brazil sustainable. *Science* 364(6438): 341. DOI: <https://doi.org/10.1126/science.aaw8276>
281. **Antonelli, A.**, Perrigo, A. (2018). The science and ethics of extinction. *Nature Ecology and Evolution* 2: 581. DOI: <https://doi.org/10.1038/s41559-018-0500-z>
282. Zizka, A. and **Antonelli, A.** (2018). Mountains of diversity. *Nature* 555: 173–174. DOI: <https://doi.org/10.1038/d41586-018-02062-6>
283. **Antonelli, A.**, Perrigo, A. (2018). The pitfalls of taking science to the public. *Science* 359(6373): 283. DOI: <https://doi.org/10.1126/science.aar8468>
284. **Antonelli, A.** (2018). *Neotropical Biogeography: Regionalisation and Evolution*. CRC Biogeography Series. *Quarterly Review of Biology* 93(3): 266. [Book review]
285. Jaramillo, J., Montes, C., Cardona, C., Silvestro, D., **Antonelli, A.**, Bacon, C.D. (2018). Comments to “Formation of the Isthmus of Panama: Response to Jaramillo et al.”. *Science Advances* 3(6): e1602321. DOI: <https://doi.org/10.1126/sciadv.1602321> (eLetter, 26 April 2018).
286. Pérez-Escobar, O.A., Cámara-Leret, R., **Antonelli, A.**, Bateman, R., Bellot, S., Chomicki, G., Cleef, A., Diazgranados, M., Dodsworth, S., Jaramillo, C., Madriñan, S., Olivares, I., Zuluaga, A., Bernal, R. (2018). Mining threatens Colombian ecosystems. *Science* 359(6383): 1475–1475. DOI: <https://doi.org/10.1126/science.aat4849>
287. **Antonelli, A.** (2017). Drivers of bioregionalisation. *Nature Ecology and Evolution* 1: 0114. DOI: <https://doi.org/10.1038/s41559-017-0114>

288. Jaramillo, J., Montes, C., Cardona, C., Silvestro, D., **Antonelli, A.**, Bacon, C.D. (2017). Comment (1) on “Formation of the Isthmus of Panama” by O’Dea et al. *Science Advances* 3(6): e1602321. DOI: <https://doi.org/10.1126/sciadv.1602321>
289. **Antonelli, A.**, Perrigo, A. (2016). Cities: factor in their biological impact. *Nature* (540): 39. DOI: <https://doi.org/10.1038/540039a>
290. **Antonelli, A.** (2015). Multiple origins of mountain life. *Nature* 524: 300–301. DOI: <https://doi.org/10.1038/nature14645>
291. Bacon, C.D., Silvestro, D., Jaramillo, C.A., Smith, B.T., Chakrabarty, P., **Antonelli, A.** (2015). Reply to Lessios and Marko et al.: Early and progressive migration across the Isthmus of Panama is robust to missing data and biases. *Proceedings of the National Academy of Sciences* 112(43): E5767–E5768. DOI: <https://doi.org/10.1073/pnas.1515451112>
292. **Antonelli, A.** (2014). The evolution and fate of Neotropical biomes. In: *Proceedings of the XI Latin American Botanical Congress*. Salvador, Brazil.
293. Hoorn, C., Mosbrugger, V., Mulch, A., **Antonelli, A.** (2013). Biodiversity from mountain building. *Nature Geoscience* 6: 154. DOI: <https://doi.org/10.1038/ngeo1742>
294. Dawson, M.N., Algar, A.C., **Antonelli, A.**, Dávalos, L.M., Davis, E., Early, R., Guisan, A., Jansson, R., Lessard, J-P., Marske, K.A., McGuire, J.L., Stigall, A.L., Swenson, N.G., Zimmermann, N.E., Gavin, D.G. (2013). A horizon scan of Biogeography. *Frontiers of Biogeography* 5(2): 130–157. DOI: <https://doi.org/10.21425/F5FBG18854>
295. Hoorn, C., Wesselingh, F.P., Steege, H. ter., Stadler, T., I. Sanmartín, Sanchez-Meseguer, A., Anderson, C.L., Jaramillo, C.M., Bermudez, C., Figueiredo, J.D., Riff, F.R., Negri, H. Hooghiemstra, J. Lundberg, T. Sarkinen, A. Mora, **Antonelli, A.** (2011). Origins of Biodiversity–Response. *Science* 331: 399–400. DOI: <https://doi.org/10.1126/science.331.6016.399>
296. Schirrmeyer, B.E., Anisimova, M., **Antonelli, A.**, Bagheri, H.C. (2011). Evolution of cyanobacterial morphotypes: Taxa required for improved phylogenomic approaches. *Communicative & Integrative Biology* 4: 424–427. DOI: <https://doi.org/10.4161/cib.16183>
297. **Antonelli, A.** (2010). The Andean uplift and Neotropical diversification. In: *Diversidade Vegetal Brasileira*. Edited by M. L. Absy, F. D. A. Matos, I. L. Amaral. Sociedade Brasileira de Botânica. ISBN 978-85-211-0062-1.
298. Byttebier, B., **Antonelli, A.**, Bellstedt, D.U., Linder, P. (2010). Estimating the age of fire in the Cape flora of South Africa from an orchid phylogeny. In: XIXth AETFAT Congress-Madagascar, 25-30 April 2010. Abstracts. Edited by V. H. Jeannota, S. G. Razafimandimbison, P. De Block. Meise. *Scripta Botanica Belgica* 46: 102.
299. Rodriguez, V., **Antonelli, A.** (2009). Gaining access to biological material from Brazil. *Taxon* 58(3): 1025. DOI: <https://doi.org/10.1002/tax.583046>
300. **Antonelli, A.**, Rodriguez, V. (2009). Brazil should facilitate research permits. *Conservation Biology* 23 (5), 1068-1069. <https://doi.org/10.1111/j.1523-1739.2009.01300.x>

#### Pre-prints for studies not listed above (non-peer-reviewed)

301. Darras, K.F.A., ... **Antonelli, A.**, ... et al. (2024). Worldwide Soundscapes: a synthesis of passive acoustic monitoring across realms. BioRxiv. DOI: doi: <https://doi.org/10.1101/2024.04.10.588860>
302. Andermann, T., Strömberg, C., **Antonelli, A.**, Silvestro, D. (2021). The evolution of open habitats in North America revealed by deep learning models. *bioRxiv*: 2021.2009.2003.458822. DOI: <https://doi.org/10.1101/2021.09.03.458822>
303. Meseguer, A., Michel, A., Fabre, P-H, Perez-Escobar, O., Chomicki, G., Riina, R., **Antonelli, A.**, Jaramillo, C. (preprint, 20 Jan 2020). The origin and drivers of Neotropical plant and tetrapod diversification. *Authorea*: DOI: <https://doi.org/10.22541/au.157954144.40496750>

#### Doctoral Thesis

304. **Antonelli, A.** (2008). *Spatiotemporal Evolution of Neotropical Organisms: New Insights into an Old Riddle*. Doctoral Thesis. Department of Plant and Environmental Sciences, University of Gothenburg, Göteborg, Sweden. <http://hdl.handle.net/2077/17695>

## POPULAR SCIENCE BOOK CHAPTERS, ARTICLES AND PUBLIC BLOGS

- **Antonelli, A.** (2022). Foreword In: H. de Boer, M.O. Rydmark, B. Verstraete, B. Gravendeel (eds.). *Molecular Identification of Plants: From Sequence to Species*. Advanced Books. DOI: <https://doi.org/10.3897/ab.e98875>
- **Antonelli, A.** (2022). [Protect the most valuable nature, not the cheapest](#) (in Swedish). Forskning och Framsteg.
- **Antonelli, A.** (2022). [An international law is needed to halt biodiversity loss](#) (in Swedish). Göteborgs Posten.
- **Antonelli, A.** & Smith, R. (2022). [Madagascar's extraordinary biodiversity: challenges & opportunities for the future](#). Kew Blog.
- **Antonelli, A.** et al. (600+ co-signatories) (2022) [Scientists urge end to burning forest biomass for energy for sake of nature and biodiversity](#). Available at <https://www.cutcarbonnotforests.org>
- **Antonelli, A.** (2022). [How Lula could help curb the environmental crisis](#). Kew Blog.
- **Antonelli, A.** (2022). [Harnessing the power of artificial intelligence for conservation](#). Kew Blog.
- **Antonelli, A.** (2022). *The Hidden Universe: Adventures in Biodiversity*. Witness Books, Penguin. ISBN: 9781529109160
- Gerhardt, K., Chen, D., Skelton, A., Tranvik, L., **Antonelli, A.** + 1939 co-signatories. (2022). [This is enough, politicians – take the climate crisis seriously](#). Aftonbladet (25 Aug 2022) [in Swedish].
- **Antonelli, A.** (2022). Foreword in: *Molecular identification of plants: from sequence to species*. Pensoft Publishers.
- **Antonelli, A.** (2021). [Nature is our greatest economic asset](#). Kew Blog.
- **Antonelli, A.** (2021). Foreword in: *Flora: Inside the Secret World of Plants*. Kew Publishing.
- Perrigo, A., Vrasckdonk, E., Durkin, L., **Antonelli, A.** (2020). [The full impact of supermarket products](#). Nature Sustainability Community.
- Owen, N. et al. (2020). [We call on you to help protect evolutionary distinct species across the Tree of Life](#). OnTheEdge Conservation.
- **Antonelli, A.** (2020). [Seeds of hope](#). *Samara* 36: Nov 2020.
- **Antonelli, A.** (2020). [Biodiversity, resilience and a green recovery](#). Kew Science blog.
- **Antonelli, A.** (2020). [Curiosity is the first step in fighting the climate crisis](#). Evening Standard comment piece, 11 Feb 2020.
- **Antonelli, A.** (2019). Nature's small things – with big values. In: Håkansson, D., (ed.) *A kaleidoscope of knowledge*. Santérus. ISBN: 978-91-7359-140-9. Pp 11–22.
- Antonelli, A. (2019). [The Amazon is burning. Will the world just watch?](#) Kew Science blog.
- **Antonelli, A.** (2019). [We need to plant 3 billion trees to save the planet – but not just any trees](#). The Telegraph.
- **Antonelli, A.** (2019). [When scientists and visitors meet](#). Kew Science Blog.
- **Antonelli, A.**, Sterner, T. (2019). SOS (Saving Our Species). [Nature Research Sustainability Community](#).
- **Antonelli, A.** (2019). Förord. In: Danielsson, C. *Göteborgs botaniska trädgård*. (in Swedish)
- **Antonelli, A.**, Eriksen, B., Hansson, E., Hilding-Rydevik, T., Karlsson, P., Krause, T., Källersjö, M., Lindberg, S.I., Persson, M., Rockström, J., Sigurdsson, H., Sköld, H., Sterner, T., Sundström, M., Sveide, J., Thiel, P. L., Vajda, V., Ölund, M. (2019). *Svenska Dagbladet*. (in Swedish)
- **Antonelli, A.**, Burnelius, L., Hansson, E., Lind, J., Pettersson, M., Sandahl, J., Strand, L., van der Spoel, D., Westman, P. (2018). [Our animals are dying – this is how Sweden can save them](#). *Aftonbladet*. (in Swedish)
- Goodall, J., ... **Antonelli, A.**, ... (2018). [Letter of Concern from the International Community of Conservationists and Scholars](#). *Any Hope for Nature*.
- **Antonelli, A.** (2018). [Everyone should try a sabbatical](#). *Curie – Swedish research magazine*. (in Swedish)
- Moberg, A., Strandberg, S., Nordström, J., **Antonelli, A.** (2018). [Akademipodden om komplexitet](#). *Podcast of the Young Academy of Sweden* (in Swedish)
- **Antonelli, A.** (2018). [How Harvard motivates its students](#). *Curie – Swedish research magazine*. (in Swedish)
- **Antonelli, A.** (2018). [Only Sweden Swedish fika has](#). *Curie – Swedish research magazine*. (in Swedish)
- Almroth, B.C., Backhaus, T., Andersson, L., **Antonelli, A.**, et al. (2018). Erroneous and unethical reasoning about immigration. *ETC* March 23, 2018 (in Swedish)
- **Antonelli, A.** (2018). [When I knocked on the door of the world's most famous biologist](#). *Curie – Swedish research magazine*. (in Swedish)

- **Antonelli, A.** (2018). [The carefully chosen](#). *Curie – Swedish research magazine*. (in Swedish) [[Curie's most read blog during 2018](#)]
- **Antonelli, A.** (2018). [Oh, what I've been longing to this!](#) *Curie – Swedish research magazine*. (in Swedish)
- **Antonelli, A.** and Perrigo, A. (2017). [We must protect biodiversity](#). *Washington Post*, December 15.
- **Antonelli, A.** (2017). [Biodiversity must come into focus](#). *Tidsskriften Folkuniversitetet* (4):6–7. (in Swedish)
- **Antonelli, A.** (2017). Sensual Women, Lush Wetlands and Cool Caimans. *ReVista – Harvard Review of Latin America* 1:37.
- **Antonelli, A.** (2017). Invited by the City of Gothenburg to blog on biodiversity for a full week, c. 28 posts (<https://www.instagram.com/greenhackgbg/?hl=en>)
- Rønsted, N., **Antonelli, A.**, Maldonado, C., Hansen, S.H. (2017). Jagten på Kinabarken til behandling av malaria. *Aktuel Naturvidenskab* 3: 32-36. (in Danish)
- **Antonelli, A.** and Källersjö, M. (2017). A new biodiversity centre in western Sweden. *Biodiverse* 2: 8–11. (in Swedish)
- Moberg, A., Burchardt, S., Filipsson, H., **Antonelli, A.** (2017). Field work. *Podcast of the Young Academy of Sweden* (in Swedish)
- Panas, M., **Antonelli, A.**, Adiels, C.B. (2016). Discovery club inspires school kids in Gothenburg. *Biologen* 3:8-11. [in Swedish]
- **Antonelli, A.** (2016). “A world of possibilities”. Internet Blog, University of Gothenburg, Faculty of Sciences (08 Sept 2016).
- **Antonelli, A.** (2016). “Life on a thin thread”. Internet Blog, University of Gothenburg, Faculty of Sciences (29 Aug 2016).
- **Antonelli, A.** (2016). “New species every kilometre”. Internet Blog, University of Gothenburg, Faculty of Sciences (26 Aug 2016).
- Petri, A. & **Antonelli, A.** (2012). *Suckulenter*. Göteborgs botaniska trädgårds förlag. ISBN 978-91-87068-53-9.
- **Antonelli, A.**, Fuentes, R., eds. (2008). *The tropical rainforest: environment and biodiversity*. Universeum Science Centre. [Booklet in Swedish]
- **Antonelli, A.** (2003). En jätte på besök. *Aromia* (3).
- **Antonelli, A.** (2002). Sköldbaggar osäkra framtid. *Aromia* (3).

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- Languages spoken: Portuguese (mother tongue); Swedish, English, Spanish, French (fluent); German, Italian, Botanical Latin (basic)

## PERSONAL INTERESTS

Trail running and orienteering; reading popular science books; gardening and carpentering; collecting, mounting and identifying insects; photographing and filming; listening to good music, cooking and baking; spending time with friends; and tree-hugging when no one is watching.

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