

Poster contributions

Herbarium DNA degradation: different ways of falling to pieces

Freek T. Bakker¹ & Lia Hemerik²

¹ Dept of Plant Sciences, Biosystematics Group, Wageningen University and Research, The Netherlands

² Biometris, Dept of Mathematical and Statistical Methods, Wageningen University and Research, The Netherlands

Simple procedures for obtaining DNA sequences from old herbarium material

Mika Bendiksby, Lisbeth Birgitte Thorbek, Charlotte Sletten Bjorå, Rune Halvorsen

Natural History Museum, University of Oslo, Norway

Comparing historic and contemporary phenology of plants in northwest Switzerland in the light of climate change from 1850 to today

Maya Bosshard, Jurriaan M. de Vos

Department of Environmental Sciences - Botany, University of Basel, Switzerland

Collections from the cold solving hot questions

Charlotte S Bjorå, Mika Bendiksby, Bjørn Petter Løfall, Einar Timdal

Natural History Museum, University of Oslo, Norway

A 150-year-old herbarium exemplifies the change of a regional flora

Michèle Büttner¹, Urs Weibel¹, Michael Jutzi², Ariel Bergamini³, Rolf Holderegger^{3,4}

¹ Museum zu Allerheiligen, Schaffhausen, Switzerland

² Info Flora, Berne, Switzerland

³ WSL Swiss Federal Research Institute, Birmensdorf, Switzerland

⁴ ETH Zürich, Department of Environmental Systems Science, Zurich, Switzerland

Emerging methods for non-destructive sampling of wood collections: microCT and fluorescence

Alana RO Chin

IBZ Plant Ecology, ETH Zürich, Switzerland

Potentials and limits in the genomic uses of a 200 years old herbarium.

Camille Christe^{1,2}, Carlos G. Boluda^{1,2}, Yamama Naciri^{1,2}, Mathieu Perret^{1,2} and Fred Stauffer^{1,2}

¹ Conservatoire et Jardin botaniques de la Ville de Genève, Switzerland

² Laboratoire de Systématique végétale et Biodiversité, Université de Genève, Switzerland

Bioprospecting in Herbaria: The case of Laurent Garcin's Geneva specimens

Alexandra Cook

University of Hong Kong and Sinergia Project, Botanical Legacies of the Enlightenment

University of Neuchâtel

Bridging Herbaria Cultural Heritage and Digital Art: Immaterial Herbaria

Rhinaixa V Duque-Thüs¹, Philipp Schlüter², Helmut Dalitz³, María Beatriz Eggli⁴

¹ Institute of Biology, Herbarium HOH, University of Hohenheim, Stuttgart, Germany

² Institute of Biology, Plant Evolutionary Biology, University of Hohenheim, Stuttgart, Germany

³ University of Hohenheim, Stuttgart, Germany

⁴ Tüscherz, Switzerland

A museomics approach to study the evolution of disease resistance genes in a crop wild relative of tomato

Edeline Gagnon¹, Gabriel Renaud², Remco Stam³

- 1) Chair of Phytopathology, TUM School of Life Sciences, Technical University of Munich, Freising, Germany
- 2) Department of Health Technology, Section for Bioinformatics, Technical University of Denmark, Copenhagen, Denmark
- 3) Institute of Phytopathology, Christian-Albrecht University, Kiel, Germany

Using herbarium collections to investigate cold and altitudinal adaptations in crustose lichen species

Julia Gerasimova^{1,2}, Andreas Beck^{1,2}

- ¹ Systematics, Biodiversity and Evolution of Plants, LMU Munich, Munich, Germany
- ² Botanische Staatssammlung München, SNSB-BSM, Munich, Germany

In the footsteps of Sarasin & Christ: digitizing fern specimens at the herbaria in Basel and Zurich

Aurélie Grall¹, Jurriaan de Vos¹, Reto Nyffeler² and Alessia Guggisberg³

- 1 Department of Environmental Sciences - Botany, University of Basel, Switzerland
- 2 Department of Systematic and Evolutionary Botany, University of Zürich, Switzerland
- 3 Institute of Integrative Biology, ETH Zurich, Switzerland

Diaspore morphospace disparity among Australasian *Atriplex* L. during adaptive radiation

Dominique Groffman¹, Anze Žerdoner Čalasan², Gudrun Kadereit²

- 1) Systematics, Biodiversity and Evolution of Plants, Ludwig Maximilian University, Munich, Germany, Ludwig Maximilian University of Munich; Erasmus Mundus Master Programme in Evolutionary Biology; Uppsala, Sweden
- 2) Systematics, Biodiversity and Evolution of Plants, Ludwig Maximilian University; Munich, Germany

Historical tomato genomes shed light on the evolution of fruit morphology and flavour

Thomas Grubinger¹, Gülfirde Akgül², Alessia Guggisberg³, Reto Nyffeler⁴, Jurriaan M. de Vos⁵, Verena J. Schuenemann², and Simon Aeschbacher¹

- ¹Institute of Evolutionary Biology and Environmental Studies, University of Zürich, Switzerland,
- ²Institute of Evolutionary Medicine, University of Zürich, Switzerland
- ³Department of Environmental Systems Science, ETH Zürich, Switzerland
- ⁴Department of Systematic and Evolutionary Botany, University of Zürich, Switzerland
- ⁵Department of Environmental Sciences – Botany, University of Basel, Switzerland

Towards a “reasoned” digitisation of herbaria for research

Alessia Guggisberg¹, Guilhem Mansion²

- 1 Institute of Integrative Biology, ETH Zurich, Switzerland
- 2 Institute of Biology, University of Neuchâtel, Switzerland

Using herbaria to reconstruct Japanese knotweed invasion history and eco-evolutionary dynamics

Ramona-Elena Irimia¹, Farah Badreldin¹, Uta Grünert¹, Christina Richards^{1,2}, Oliver Bossdorf¹

- ¹Plant Evolutionary Ecology, Institute of Evolution & Ecology, University of Tübingen, Germany
- ²University of South Florida, Department of Integrative Biology, Tampa, Florida, USA

Using herbarium specimens for studying climate change

Thea Kull, Kätlin Langerbaur, Tiiu Kull

Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Tartu, Estonia
Herbarium of Agricultural and Environmental Institute (TAA)

Can we identify where geneflow between crops and their wild relatives might be more likely to occur based on herbaria and GBIF records?

Beatrice Landoni¹, Rocio Perez-Barrales²

- ¹School of Biological Sciences, University of Portsmouth, UK
- ²Department of Botany, Universidad de Granada, Spain

Detecting demographic history from herbarium material: the case of Papua New Guinea Begonia

Thibault Michel^{1,2}; Hannah Wilson^{1,3}; Mark Hughes¹; Daniel C. Thomas⁴, and Catherine Kidner^{1,2}

1 Royal Botanic Garden of Edinburgh

2 University of Edinburgh

3 University of Glasgow

4 National Parks Board, Singapore Botanic Gardens

Following Podlech's legacy: Unleashing the potential of the Munich Herbarium collection for phylogenetic analyses of the largest genus of flowering plants

Diego F. Morales-Briones, Gudrun Kadereit

Princess Therese von Bayern chair of Systematics, Biodiversity and Evolution of Plants, Ludwig-Maximilians-Universität München, Munich, Germany

Challenges with georeferencing herbarium specimens: a case study derived from the Flora of the Canton Zürich project

Reto Nyffeler

Department of Systematic and Evolutionary Botany, University of Zürich

Aspects of the organisation of an early 18th century garden revealed by newly studied and discovered specimens from Herman Boerhaave (1668-1738).

Aleida Offerhaus, Anastasia Stefanaki, Tinde van Andel

Naturalis Biodiversity Center, Leiden University, The Netherlands

Looking back to move forward: impact of historical moss specimens on modern systematics

Michelle J. Price

Conservatory and Botanical Garden of Geneva

Ampelographic collection in 230-year-old *Herbarium Wolnyanum*

Milica Rat

University of Novi Sad, Faculty of Sciences, Department of Biology and Ecology, Novi Sad, Serbia

A Time Capsule of Renaissance Botanical Illustration: "Plant Images Related to Caspar Bauhin and his Herbarium"

Karen Reeds

Princeton Research Forum and National Coalition of Independent Scholars

Shifting plant distribution driven by climate change?

Jessica Wang¹, Markus Fischer¹, Stefan Eggenberg², Katja Rembold¹

1 Botanical Garden of the University of Bern, Switzerland

2 Info Flora, c/o Botanical Garden of the University of Bern

Within-species variation poorly reflects species diversification along elevational gradients in *Saxifraga*: a herbarium study with special reference to inflorescence structure.

Seraina E. Rodewald^{1,2}, Jurriaan M. de Vos¹

1 Dept of Environmental Sciences - Botany, University of Basel, Switzerland

2 Dept Biology 1 - Systematics, Biodiversity and Evolution of Plants, Ludwig Maximilians University Munich, Germany

Resurrecting a heterotypic synonym and validly describing a *nomen nudum* based on herbarium specimens

R. R. Rubite^{1*}, D. B. H. Ubaldo¹, J. C. Salcedo¹, K.-F. Chung², L. T. Evangelista³, D. N. Tandang^{3,4} & M. Hughes⁵

¹University of the Philippines Manila, Department of Biology, College of Arts and Sciences, Manila, Philippines,

²Research Museum and Herbarium (HAST), Biodiversity Research Center, Academia Sinica, Taipei, Taiwan

³Philippine National Herbarium (PNH) Botany Division, National Museum, Manila, Philippines

⁴Biodiversity Program, Taiwan Intern Graduate Progr, Academia Sinica & National Taiwan Normal Univ; Dept of Life Science, National Taiwan Normal University; Biodiversity Research Center, Academia Sinica, Taipei, Taiwan

⁵Royal Botanic Garden Edinburgh, Edinburgh, United Kingdom

Plant Exchange Networks in the 19th Century

Christof Nikolaus Schröder

German University of Administrative Sciences Speyer / Justus-Liebig-University Giessen / CNSflora Edingen, Germany

Herbarium phylogenomics, taxonomy and evolution of complex reproductive systems in Connaraceae

Serafin J. R. Streiff, Jurriaan M. de Vos

Department of Environmental Sciences - Botany, University of Basel, Switzerland

Correspondence of D.F.L. von Schlechtendal in the herbarium of Halle, Germany (HAL)

Natalia Tkach & Martin Röser

Geobotany and Botanical Garden, Institute of Biology, Martin Luther University Halle-Wittenberg, Halle, Germany

Flora of the Canary Islands – Revised Checklist to a Classic Arena of Botany

Anna Walentowitz¹, Carl Beierkuhnlein¹, Walter Welss²

¹ Chair of Biogeography, University of Bayreuth, Germany

² Botanical Garden and Herbarium Erlangense, Friedrich Alexander University Erlangen, Germany