

Bauhin 2022 – Conference

15 & 16 September 2022, University of Basel, main building, Petersplatz 1, Basel, Switzerland.

Program

Thursday, 15 September 2022

07h45 Conference registration opens

08h30 Workshop & discussion: **Beyond the state-of-the-art in herbarium-based research**

10h00 *Break*

10h30 Prof. Dr. Dr. h.c. Andrea Schenker-Wicki, president of the University of Basel: **Greeting message**

10h35 Dr. Jurriaan de Vos, Organising Committee, **Introduction**

10h45 **Keynote talk:** Richard B. Primack, Boston University, USA: **Mobilizing herbarium specimens, botanical gardens, historical data sets and citizen science observations to investigate the biological effects of climate change**

11h20 Ansgar Kahmen, Dept Environmental Sciences, Basel University, Switzerland: **The stable isotopes composition of herbarium specimen reveals physiological responses of plants to environmental change**

11h40 Kenneth M. Cameron, Department of Botany, U Wisconsin-Madison, WI, USA: **A large phylo-floristic study reveals evolutionary constraints on the past, present, and future assembly of a unique regional flora in North America**

12h00 *Lunch break*

13h30 Mark Carine, The Natural History Museum, London, UK: **Documenting, understanding and opening the botanical collections of Hans Sloane (1660-1753)**

13h50 Fred Stauffer, Conservatoire et Jardin botaniques de la Ville de Genève, Chambésy, Suisse: **Digitization efforts of the phanerogamic Geneva herbarium (G, G-DC, G-BOIS, G-PREL): from 2004 to present**

14h10 Michelle J. Price, Conservatory and Botanical Garden of Geneva, Switzerland: **Looking back to move forward: impact of historical moss specimens on modern systematics**

14h30 Austin Mast, Dept of Biological Science, Florida State University, Tallahassee, FL, USA: **Machines can be taught to identify phenological anomalies described on herbarium labels**

14h50 Donat Agosti, Plazi, Bern, Switzerland: **The significance of taxonomic publications to understand biodiversity in the digital world**

15h10 *Break & poster session*

15h45 Felix Merklinger, Sukkulenten-Sammlung Zürich, Switzerland: **Impossible to press? – Succulents in Renaissance herbaria: The history of the struggle to prepare succulent plants for the herbarium**

16h05 Tilmann Walter, Institut für Geschichte der Medizin, Universität Würzburg, Germany: **Plants, gardens and herbaria. Physicians as the earliest botanists in Germany**

16h25 Sarah T. Wagner, Institut für Botanik, Technische Universität Dresden, Germany: **Network analysis of the herbarium collection of the Moravian Church from the 18th century**

16h45 Jason Grant, Institut de biologie, Université de Neuchâtel, Switzerland: **The herbarium of Swiss naturalist Jean-Frédéric Chaillet (1747-1839) meticulously records the plants and fungi of the Neuchâtel region in the Swiss Jura**



17h05 Anastasia Stefanaki, Biosystematics, Wageningen University & Research, Wageningen, The Netherlands: **Combining 16th-century botanical history and genomics to understand the complex taxonomy of the wild tulip, *Tulipa sylvestris*, in Europe**

17h25 *Leisure*

18h15 **Public lecture:** Prof. Richard B. Primack, Boston University, USA: **Climate change effects on wildflowers, trees and birds. Building on the observations of the famous American environmental philosopher Henry David Thoreau, author of «Walden»**

20h00 Conference dinner

Friday, 16 September 2022

08h30 **Keynote talk:** Hernán A. Burbano, University College London, UK: **A retrospective view on plant genetic diversity using ancient DNA**

09h05 Verena Schünemann, University of Vienna, Austria, and University of Zurich, Switzerland: **Ancient DNA analysis of medieval German grape seeds: How archaeological plant remains can contribute to the understanding of plant domestication**

09h25 Jesse R. Lasky, Pennsylvania State University, USA: **Using herbarium specimens to study biogeography and response to global change in *Arabidopsis thaliana***

09h45 Donikë Sejdiu, Inst of Evolutionary Medicine, University of Zurich, Switzerland: **Herbarium DNA traces *Phytophthora infestans* strain that caused Irish Famine into 20th-century Europe**

10h05 *Break & poster session*

10h40 Tinde van Andel, Naturalis Biodiversity Center, Leiden, the Netherlands: **How did 16th century tomatoes look like?**

11h00 Simon Aeschbacher, Dept of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland: **Caspar Bauhin's 400-year-old herbarium specimens reveal a mixed origin of early European tomatoes**

11h20 Pablo Muñoz-Rodríguez, Dept of Plant Sciences, University of Oxford, UK: **An integrated approach to studying tropical plant diversity: botanical monographs, herbarium specimens and sweet potato**

11h40 Elizabeth M. Joyce, Faculty of Biology, Ludwig-Maximilians-Universität München, Germany: **Herbarium specimens reveal inter-continental migration tracks, phylogeography and taxonomic boundaries of a widespread tropical tree**

12h00 *Lunch break*

13h30 Yvonne Willi, Dept Environmental Sciences, Basel University, Switzerland: **Evidence for parapatric speciation in selfing *Arabidopsis* revealed by herbarium specimen**

13h50 Gabriel F. Ulrich, Inst of Integrative Biology, ETH Zurich, Switzerland: **Harnessing herbaria to assess geographic extent and genetic consequences of habitat loss**

14h10 Malene Nygaard, NTNU University Museum, Norwegian University of Science and Technology, Trondheim, Norway and Natural History Museum and Botanical Garden, University of Agder, Kristiansand, Norway: **Spatiotemporal monitoring of the rare Northern dragonhead, *Dracocephalum ruyschiana* (Lamiaceae) — SNP genotyping and environmental niche modelling herbarium specimens**

14h30 Meeting summary, workshop results & general discussion

15h00 Two guided tours: Caspar Bauhin and the historic treasures of the [Basel herbaria](#), and the Botanical Garden of the University of Basel

17h00 End of symposium