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  Luiza Teixeira-Costa, Vrije Universiteit Brussel, Brussels, Belgium: Parasitic flowering plant collections embody the extended specimen

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  Urs Eggli, 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»

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