



AGENDA

Workshop on the use of carrot crop wild relatives

Location: Madison, Wisconsin, USA

Dates: Saturday, August 17th 2013

Expected Outputs of the meeting:

- A. *Where we are:* Synthesis of past experiences and challenges of the use of CWRs in carrot pre-breeding
- B. *Where we should be going:* Synthesis of expert opinions on the best 'way forward' with regards to the use of CWRs in carrot pre-breeding:
 - 1. Which traits should pre-breeding efforts focus on in the context of climate change?
 - 2. Which CWR taxa are promising but have so far largely remained unexploited?
 - 3. Where do such taxa occur and what should priorities be for future collecting?
 - 4. What are the main obstacles for an increased use of CWR in carrot pre-breeding (e.g. taxonomical issues; access regimes to PGR; funding constraints; etc.) and how can we overcome them?

Session 1: Occurrence and access to wild relatives of carrot *in situ* and in germplasm collections

11:00 - 1:30 (short 10 min talks)

1. Introduction – Hannes Dempewolf (*Global Crop Diversity Trust*)
2. *Daucus* taxonomy – David Spooner (*USDA/University of Wisconsin, Madison*)
3. Carrot domestication – Shelby L. Ellison (*University of Wisconsin, Madison*)
4. The U.S. germplasm collection – Kathleen R. Reitsma (*USDA/Iowa State University*)
5. The UK germplasm collection – Charlotte Allender (*Warwick University*)
6. Carrot CWRs in the ECPGR Umbellifer Working Group – Emmanuel Geoffriau (*Université d'Angers*) and Charlotte Allender (*Warwick University*)
7. *Daucus* germplasm collecting and diversity in continental France and Corsica – Emmanuel Geoffriau (*Université d'Angers*)
8. *Daucus* germplasm collecting by the U.S. – Philipp Simon (*USDA/ University of Wisconsin, Madison*)
9. Climate change and carrot – Philipp Simon (*USDA/University of Wisconsin, Madison*)

Session 2: Molecular tools for carrot diversity analysis and breeding

1:30 – 2:00

Roundtable discussion – Geoffriau, Grzebelus, Iorizzo, Simon and representatives from the private sector

Session 3: Experiences and prospects for use of carrot wild relatives in breeding programs

2:00 – 4:00 (Two 15 min talks, hour long roundtable discussion and wrap-up)

1. Pre-breeding and CWRs in Germany – Thomas Nothnagel (*Julius Kühn-Institut, Germany*)
2. Pre-breeding and CWRs in the U.S. – Philipp Simon (*USDA/University of Wisconsin, Madison*)
3. Breeding goals, key traits, and utilization of CWRs: A roundtable discussion of global experiences
Aamir Ali Chaudhry (University of Sargodha, Pakistan) [tentative], Zhuang (CAAS-IVF, China), Private sector participants

Summary and future steps – Hannes Dempewolf