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### **BIOENERGY FROM WINTER BEET – A JOINT PROJECT ALONG THE VALUE CHAIN**

**Bioenergie de betteraves automnales – un projet conjointe au long de la chaîne de valeur ajoutée / Bioenergie aus Winterrüben – ein Gemeinschaftsprojekt entlang der Wertschöpfungskette**

#### **ABSTRACT**

Winter sugar beet are expected to achieve much higher yields compared to spring sown beet. Therefore, the cultivation of winter beet could be a good alternative to produce easily decomposable biomass for methane production. In this joint project, which has run from 2009 to 2014, the whole value chain including different aspects of breeding, cultivation systems and crop production and the possible uses of winter beet in particular for biogas production is considered. Partners from three institutes at the University of Kiel and three departments of the Institute of Sugar Beet Research, Göttingen, are involved in addition to partners from Nordic Sugar and Strube Research.

The project covers special aspects concerning the use of winter beet for biogas production, which are presented as poster in the same session:

- Qtls for winter hardiness in sugar beet (*Beta vulgaris* ssp. *vulgaris* L.) (KOPISCH *et al.*)
  - Mechanisms of winter hardiness of winter beet (LOEL & HOFFMANN),
  - Risk assessment for frost killing of winter sugar beet (REINSDORF & KOCH)
  - Simulation of potential yields for non-bolting winter beet (STEPHAN *et al.*),
  - Biogas from winter beets (OHL *et al.*),
  - Methane yield of winter beet (OHL *et al.*), and
  - Resource efficiency of winter beet cultivation (STOCKFISCH *et al.*) as a comprehensive assessment of the cultivation system winter beet.
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