

BIOGRAPHY

28.06.12



Title and name

Prof. Hilde-Gunn Opsahl Hoen-Sorteberg

Nationality

Norwegian

Panel

GMO

Education

Dr scient (PhD), 1993, Norwegian University of Agriculture (Now University of Life Sciences)

Scientific and risk assessment experience

- Risk assessment for the Norwegian GMO panel (vice chair and chair)
 - National management committee member in 2 COST actions within food and biotechnology
 - Sabbatical at UC-Berkeley
 - Sabbatical at Yale University
 - Teaching over 200 students per year genetics, molecular biology and developmental biology
 - Work on seed development, gene regulation, transcriptional profiling, meristem regulation studying genes important for its function and identity on Arabidopsis and cereals
 - Have worked on transforming barley, wheat, rice and Arabidopsis at the JIC, Lyon, Umeå and Ås
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Main scientific publications

- Work interests are on seed development, gene regulation, transcriptional profiling, meristem regulation studying genes important for its function and identity on Arabidopsis and cereals

Tengs T, Zhang H, Holst-Jensen A, Bohlin J, Butenko MA, Kristoffersen AB, Sorteberg HG, Berdal KG

(2009) Characterization of unknown genetic modifications using high throughput sequencing and computational subtraction. BMC Biotechnol 9:87

Olsen L, Divon H, Al R, Fosnes K, Lid SE, Opsahl-Sorteberg HG (2008) The *defective seed5 (des5)*

mutant: effects on barley seed development and *HvDek1*, *HvCr4* and *HvSal1* gene regulation.

J Exp Bot 59:3753-65

Tian Q, Olsen L, Sun B, Lid SE, Brown RC, Lemmon BE, Fosnes K, Gruis DF, Opsahl-Sorteberg

HG, Otegui MS, Olsen OA (2007). Subcellular Localization and Functional Domain Studies of

DEFECTIVE KERNEL1 in Maize and Arabidopsis Suggest a Model for Aleurone Cell Fate Specification Involving CRINKLY4 and SUPERNUMERARY ALEURONE LAYER1. The Plant Cell 19(10):3127-45

Roxrud I, Lid SE, Fletcher JC, Schmidt EDL and Opsahl-Sorteberg HG (2007) GASA4, one of the 14 member Arabidopsis GASA family of small polypeptides, regulates flowering and seed development. Plant and Cell Physiology 48(3):471-83

Rösti S, Rudi H, Rudi K, Opsahl-Sorteberg HG, Fahy B, Denyer K (2006) The gene encoding the cytosolic small subunit of ADP-glucose pyrophosphorylase in barley endosperm also encodes the major plastidial small subunit in the leaves. J Exp Bot 57: 3619-26

Lid SE, Al RH, Krekling T, Meeley RB, Ranch J, Opsahl-Ferstad HG and Olsen OA (2004) The maize disorganized aleurone layer 1 and 2 (dil1, dil2) mutants lack control of the mitotic division plane in the aleurone layer of developing endosperm. Planta 218:370-8

Lid SE, Olsen L, Nestestog R, Aukerman M, Brown RC, Lemmon B, Mucha M, Opsahl-Sorteberg HG, Olsen OA (2005) Mutation in the Arabidopsis thaliana DEK1 calpain gene perturbs endosperm and embryo development while over-expression affects organ development globally. Planta 221(3): 339-351

Opsahl-Sorteberg* H-G, Rudi H, Lid SE and Schulman AH (2005) Understanding developmental biology opens vast opportunities for designing novel feed and food – a discussion of potential new plant products. IN: “In the wake of the double helix” (pdf:200kB)

Rudi H, Frisli T & Opsahl-Sorteberg H-G (2004) Hordeum vulgare gene for ADP-glucose pyrophosphorylase small subunit, complete sequence Accession no AY634681

Opsahl-Sorteberg H-G*, Nielsen PS, Lund HH, Kalla R, Hammond-Kosack MCU, Shimamoto K (2004) Identification of a 49 bp fragment of the *HvLTP2* promoter directing aleurone cell specific expression. GENE (27)341:49-58
