

## CV for Christine Finnie (1970)

### Degrees:

1993 B.Sc. in Biochemistry, Upper Second Class Honours, University of Bath, U.K.

1997 Ph.D. in Bacterial genetics, University of East Anglia/ John Innes Centre, Norwich, U.K.

### Positions:

2007-: Assoc. Prof. in proteome analysis and protein chemistry, responsible for proteome platform, Department of Systems Biology, Technical University of Denmark (DTU)

2004-2007: SJVF-funded "Young research leader" Enzyme and Protein Chemistry, BioCentrum-DTU,

2000-2004: Postdoctoral fellow, Department of Chemistry, Carlsberg Laboratory, Denmark.

1997-2000: Postdoctoral fellow, Dept. Plant Biology, Royal Veterinary and Agricultural University, Denmark

### Research Area:

Proteomics and protein biochemistry are applied to key developmental and signalling processes in plants: cereal seed development and germination; plasma membrane proteomics; plant-pathogen interactions; role of the thioredoxin system and redox regulation in plants; correlation of proteome with quality parameters.

### Distinctions and awards:

2010 "Researcher of the Year" Department of Systems Biology, DTU

### Memberships of scientific committees, review

Reviewer for French National Research Agency, German Research Foundation, Czech Science Foundation. Edit. board member: J. Proteomics. DK Representative: Intl. plant proteomics organisation INPPO. Member of committees of intl. conferences. "Task Force" member Protein.DTU. Member of PhD committee: Univ. Halle, DE (Katja Witzel), Catholic Univ. Leuven, BE (Annelies Vertommen), and numerous PhDs at U. of Copenhagen, U. of South. Denmark, DTU). Reviewer for biochemistry, plant science and proteomics journals.

**ISI journal publications:** 47; **Citations:** 956; **H.index:** 18; **Other publ.:** 9 (**Patents:** none; 5 book chapters)

### Books:

Editor: Plant Proteomics. Ann. Plant Rev., 28, Blackwell Publishing Ltd. Oxford (2006).

### Other innovation activities:

DTU Systems Biology Proteomics platform

### Supervision of PhDs (selected), 2007 – present (ongoing og finished in 2007 or later):

**Azar Shahpuri.** Cereal Proteomics: Transcript profile analysis and protein expression analysis in barley seeds. 2008-2011 **Fen Yang.** Proteome analyses of grains from fusarium resistant barley cultivars and the effect of fungal infection. 2009-2012 **Abida Sultan.** Exploiting barley first wave enzyme activities for better feed. 2012-2014 **Christina Mark.** Microfluidic monitoring of programmed cell death in living plant tissue.

### Grants (selected), 2007 – present (ongoing or finished in 2007 or later):

2007-2010: FNU project grant: Proteomics of dynamics and diversity in plant plasma membranes

2010: FNU grant for research stay (10 weeks) U. of Rome

2012-2015: FNU large project grant: Microfluidic monitoring of programmed cell death in living plant tissue

### Research collaboration with industry, 2007 – present:

Sejet Plant Breeding, Novozymes

(Page 2)

## 5 selected publications:

- Yang, F., J.D. Jensen, H.J.L. Jørgensen, B. Svensson, D.B. Collinge & **C. Finnie**: Secretomics identifies *Fusarium graminearum* proteins involved in the interaction with barley and wheat. *Mol. Plant Pathol.* 13, 445-453(2012)
- Møller, A.L.B., P. Pedas, B. Andersen, B. Svensson, J.K. Schjoerring & **C. Finnie**: Responses of barley root and shoot proteomes to long-term nitrogen deficiency, short-term nitrogen starvation and ammonium. *Plant, Cell and Environ.* 34, 2024-2037(2011).
- Finnie, C.**, B. Andersen, A. Shahpiri & B. Svensson: Proteomes of the barley aleurone layer: a model system for plant signalling and protein secretion. *Proteomics* 11, 1595-1605 (2011)
- Hynek, R., B. Svensson, O.N. Jensen, V. Barkholt & **C. Finnie**: The plasma membrane proteome of germinating barley embryos. *Proteomics* 9, 3787-3794 (2009).
- Shahpiri, A., B. Svensson & **C. Finnie**: From proteomics to structural studies of cytosolic/mitochondrial type thioredoxin systems in barley seeds. *Molecular Plant* 2, 390-406 (2009).