

## Curriculum vitae

**Helene Larsson Jönsson** (710212), married, 2 children (born in 2001 & 2006)  
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### Personal introduction

I was raised on a farm in Scania, South Sweden, so I am familiar with agricultural issues. I have always been interested in natural science in a broad sense of way. Lately I have focussed on growth limits and stress factors, e.g. pathogens, heavy metals and nutrient deficiency.

### Education

- 2001            Doctor of Philosophy in Plant Physiology, Lund University.  
 Title: Role of cadmium and ultraviolet-B radiation in plants – Influence on photosynthesis and element content in two species of Brassicaceae
- 1996            MSc in Biology, Lund University
- 1995-1996     Studies at the Swedish University of Agricultural Sciences (SLU) in Alnarp  
 3 p   Entomology  
 7 p   Plant Pathology  
 10 p Applied Plant Pathology  
 10 p Root Function and Environment  
 5 p   Environmental Control and Resource Management in Agriculture  
 5 p   Bioenergy  
 5 p   Soil Management  
 5 p   Sugar Beet Production
- 1990            Collage graduation, Naturvetenskaplig linje, St:Petri Läroverk, Malmö

### Current position

Researcher at the Swedish University of Agricultural Sciences (SLU), Dep. of Biosystems and Technology, since 2011-08-11

### Previous positions

Teacher (80 %), Yh education at Svalövs Gymnasium, 2009-09-02 – 2011-08-10  
 Researcher (50-70 %), SLU, 2006-05-15 – 2009-06-30, 100 % research  
 Field research specialist (50%), HS-Malmöhus, 2006-05-15 – 2006-12-31  
 Teacher (75 %), SLU, 2005-08-24 – 2005-09-25  
 Teacher (75 %), SLU, 2005-01-01 – 2005-06-30  
 Teacher (75 %), SLU, 2004-09-06 – 2004-10-01  
 Teacher (75 %), SLU, 2003-09-08 – 2004-07-27

Teacher (75 %), SLU, 2003-01-01 – 2003-06-30  
 Teacher (2 weeks), Lund University, spring 2002  
 PhD student, (100 %), Lund University, 1996 – 2001  
 Summer work, SLU, 1989 – 1996

### **International papers, peer-reviewed**

Larsson Jönsson E.H. and Asp H. 2012. Effects of pH and nitrogen on cadmium uptake in potato. *Biologia Plantarum*. Accepted

Larsson Jönsson E.H. and Asp H. 2011. Influence of nitrogen supply on cadmium accumulation in potato tubers. *J. Plant Nutr.* 34:3, 345-360.

Larsson E.H., Asp H. & Bornman J.F. 2001. Influence of prior Cd<sup>2+</sup> exposure on the uptake of Cd<sup>2+</sup> and other elements in the phytochelatin-deficient mutant, *cad1-3*, of *Arabidopsis thaliana*. *J. Exp. Bot.* 53: 447-453

Larsson E.H., Bornman J.F. & Asp H. 2001. Physiological effects of cadmium and UV-B radiation in phytochelatin-deficient *Arabidopsis thaliana*, *cad1-3*. *Aust. J. Plant Physiol.* 28: 505-512

Larsson E.H., Bornman J.F. & Asp H. 1998. Influence of UV-B and Cd<sup>2+</sup> on chlorophyll fluorescence, growth and nutrient content in *Brassica napus*. *J. Exp. Bot.* 49: 1031-1039.

### **Proceedings**

Larsson, H., Bornman J.F., Asp H. 1998. Possible interactions between cadmium and UV-B in *Brassica napus*. 6th International Symposium on Genetics and Molecular Biology of Plant Nutrition, Elsinore, Denmark (Abstract)

Bornman, J.F., Olsson, L., Larsson E.H., Lundh L. 1995. Profiles of changes in leaves exposed to elevated levels of supplemental UV-B radiation. Conference on Vegetation Stress, Neuherberg, Germany (Abstract)

Olsson, L., Bornman, J.F., Sundby-Emanuelsson, C., Larsson, H., Lundh, L. 1995. Impact of supplemental UV-B and photoinhibitory visible radiation: Profiles of response and recovery in leaves of *Brassica napus*. Conference on Vegetation Stress, Neuherberg, Germany (Abstract)

### **National papers**

Larsson Jönsson H., Asp H., Gissén C. 2011. Cadmium content in potato – Management factors, soil factors and cultivar differences. LTJ rapport 2011:32, SLU, Alnarp, ISBN 978-91-86373-83-2

Larsson Jönsson H. 2007. Cadmium - a hot potato?, *Viola* 24: 24-25

### **Presentations**

Larsson Jönsson, E.H. 2012. Calcium strategies for increased inner quality, seminar at Potato research in Alnarp, Sweden (invited speaker)

Larsson Jönsson, E.H. 2012. Calcium application strategies that improve potato quality, internal seminar at the Dep. of Horticulture, Sweden.

Larsson Jönsson, E.H. 2012. Calcium strategies for increased quality in Swedish potatoes, seminar for growers and advisors at the yearly meeting of Estrellas Potatisodlare, Sweden (invited speaker)

Larsson Jönsson, E.H. 2009. Cadmium content in potato for food consumption, seminar at a Horticultural Conference in Alnarp, Sweden (invited speaker)

Larsson Jönsson, E.H. 2007. Cadmium content in potatoes for food – management factors, soil factors and cultivars, 2007, seminar at “Potatisdagarna” (a yearly information for potato growers and advisors), Lilla Böslid, Sweden (invited speaker)

### **Research grants**

Calcium application strategies that improve potato quality, 2011-2014, SLF, 2 280 000 SEK

Does boron deficiency increase in potato at high calcium fertilization? 2012-2013, Stiftelsen Svensk växtnäringsforskning, 93 000 SEK

The impact of calcium and chloride ions on the cadmium content in carrots applied with different nitrogen forms, C.F Lundströms stiftelse, 2010, 60 000 SEK

Cadmium content in potatoes for food – management factors, soil factors and cultivars, 2006-2008, SLF & Partnerskap Alnarp, 1 170 000 SEK

### **Pedagogical qualifications**

#### *Courses*

- Course in grading and assessment, SLU
- Basic course in education, SLU
- Pedagogical introduction, Lund University
- Communication technique, Lund University

#### *Teaching skills*

- Course manager and examiner in Ecological production and lecturer in Plant physiology on the Horticultural Management Programme in 2012.
- Lecturer, course manager and examiner in Crop Production (35 Yh points), 2009-2011, a course in the first year of a Higher Vocational Education in Agriculture (Driftsledare/Gårdsmästare på Yrkeshögskolan)

- Lecturer and course manager in Plant Protection at the Agricultural and Rural Management Diploma Programme. Course manager in Advanced Plant Protection and Agriculture in an international perspective also at the Agricultural and Rural Management Diploma Programme. I was the examiner in all courses. 2003-2005.
- Course manager in the Degree Project for students on the Horticultural Management Programme (15 ECTS), in 2008-2009.
- Lecturer in Plant Physiology within Botany (10 p), 2002, in Lund University. My lectures concerned essential nutrients and plant anatomy. I was also responsible for support and examination of their team-work.
- Within my PhD-project I was involved in supervision of laboratory lessons and team-work on the following courses:
  1. Stress Physiology (10 p), in English
  2. Plant Physiology (5 p)
  3. Plant Physiology for teachers at high school
  4. Biology for students of technology

### **Other Administrative qualifications**

#### *Attendance in boards*

- Member of the Research council at the Dep. of Biosystems and Technology, SLU, 2013-
- Member of the school council at my children's school since 2010.
- Representing the PhD-students at the board of the Dep. of Plant Physiology, Lund, 1998-2000.
- Representing the PhD-students at the board of the Division of Plant Physiology, Lund, 1997-1999.

### **Additional skills**

#### *Relevant courses during PhD-studies*

- Analysis of Variance and Experimental Design (5 p), SLU
- Energy Analysis; Energy, Environmental and Natural Resources (5 p), Lund University

#### *Languages*

|               |         |
|---------------|---------|
| Mother Tongue | Swedish |
| Fluently      | English |
| Moderately    | German  |