

## ***CURRICULUM VITAE***

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### **Personal data**

Born June 5, 1950 in Södertälje, Sweden. Married, three children (20, 19 and 19 years old).

### **Positions & Commissions**

- Senior Staff Scientist, Earth Sciences Division, Lawrence Berkeley Lab, Berkeley, USA, 2008-.
- Head of Department, Dept. of Plant Biology & Forest Genetics, Swedish Univ. of Agricultural Sciences, Uppsala, Sweden, 2005-2007.
  - Deputy Head of Dept., 2004-2005.
  - Prof/chair in Mol. Cell Biol., 1999-2008.
- Prof. in Biochemistry, Dept. of Biochemistry, Stockholm Univ., 1994-99.
- Member of the Evaluation Committee for Energy, the Swedish Research Council, 2003-04.
- Member of the Evaluation Committee for Organism Biology, the Swedish Research Council, 2001-2007.
- Member of the Committee for Molecular Biology & Biochemistry at the Swedish Royal Academy of Sciences (KVA), 1999-2005.
- Reviewer of submitted manuscripts and grant applications.
- Appointed opponent for five Doctoral Thesis defenses in Sweden and abroad.
- Appointed member of the examining committee for Doctoral Theses defenses in Sweden and abroad.

### **Education**

- Postdoc at Plant Res Lab, Michigan State Univ., USA, 1984-86.
- Ph.D. in Biochemistry, Lund Univ., Sweden, 1984.

### **Research expertise**

Plant and cyanobacterial biochemistry and molecular biology. Specific areas of interest are photosynthesis, carbohydrate metabolism, sugar signaling, and sink-source interactions. Selected achievements include:

- We have isolated and characterized of a family of transcription factors, the SUSIBAs that control starch and fructan synthesis in cereals.
- We have presented a model for source-sink communication and sugar signaling during cereal endosperm development.
- In connection with this work we have established the antisense ODN technology as a powerful strategy in plant biology, e.g. as a rapid antecedent to tedious transgenic studies.
- We have demonstrated the presence of an early and atypical form of programmed cell death (PCD) during cereal endosperm development.
- We have isolated and characterized several genes involved in starch synthesis in barley, rice, sorghum and cassava.
- We have analyzed structure-function relationships of the photosystem II reaction center protein D1 by protein engineering in the cyanobacterium *Synechocystis* 6803.
- We have unraveled metabolic regulation of photosynthesis in *S. 6803*.

### **Grants**

Receiver of a large number of competitive grants from research councils, EU and private foundations.

### **Scientific output**

- 90 accepted papers in journals or books.

- Invited and participated in a large number of international and national conferences and meetings.
- 10 Ph.D. students have graduated in my group since 1992.

### **Teaching experience**

I have a solid teaching expertise in Biochemistry, Cell Biology, Photosynthesis, and Plant Gene Technology. I was Director of Undergraduate Studies in Biochemistry at Stockholm University 1992-1999. During the same time, I was the responsible and main lecturer in Biochemistry with around two 10-week courses per year, and also developed course material and on-line classes in Biochemistry. I was nominated for the “Teacher of the Year” award at Stockholm University 1997, 1996, and 1994. At SLU, Uppsala, I was the responsible and main lecturer in Cell Biology with one 10-week course per year, and Photosynthesis and Plant Gene Technology with around 8 classes per year. I was Director of Undergraduate Studies at the Department during 1999-2004.

### **Outreach activities**

- Research presentation for Prime Minister Göran Persson during his visit to SLU-Uppsala in April 2005.
- Description of our research in the magazine “SvD:s section on Research & Trade”, June 7, 2004.
- Participated in a debate on Plant Gene Technology at the Technical Museum, Stockholm, April 24, 2003.
- Participated in a debate on Plant Gene Technology at Scandic Hotel Continental, Stockholm, April 11, 2003.
- Presentation of our research to the Minister of Agriculture Ann-Christine Nyqvist, March 28, 2003.
- Presentation of our research to the Governor of Uppland Anders Björk). March 18, 2003.
- Description of our research in the daily magazine “Uppsala Nya Tidningar”, February 17, 2003.
- Interview in radio (“Vetenskapens värld”), January 28, 2002.
- Full-page description of our research in the daily magazine “Dagens Nyheter”, December 11, 2001.
- Presentation of our research for His Majesty the King during his visit to SLU-Uppsala in May 2000.
- Participated in a TV debate on Plant Gene Technology (TV program “E-fekt”, November, 1999).
- Scientific advisor to the Royal Swedish Academy of Science (KVA) for publications in the area of genetically engineered plants and microorganisms.
- A vast number of lectures and seminars in the field of Plant Gene Technology at various companies, exhibitions, universities and schools.