

## Curriculum vitae

Tessa Pocock PhD

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### Education

2004 Ph.D. Biology. The University of Western Ontario, London, Canada.  
1999 M.Sc. Biology. The University of Western Ontario, London.  
1997 B.Sc. Honours Plant Science. The University of Western Ontario, London.  
1980 Diploma in Horticulture. Major in greenhouse management. Olds Agricultural College, Olds, Alberta, Canada.

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### Appointments

February 2008 until present. Director of Research. Heliospectra AB, Borås, Sweden.

April 2009- April 2011. Project leader ProEnviro (Swedish Foundation for Strategic Research): The Next Green Revolution: Light Matters. (Proposal no. M08.09)

October 2007-January 2008. Masters program coordinator, course developer, lecturer. Department of Natural Sciences, Engineering and Mathematics, Mid Sweden University, Sundsvall.

October 2004–October 2007. Marie Curie Research Fellow. FP6-2002-Mobility-5. Proposal No. 010694. Department of Natural Sciences, Engineering and Mathematics, Mid Sweden University, Sundsvall. Climate change and green algae.

1995 - 1997. Field Research Coordinator. Hempline Incorporated, Delaware, Ontario, Canada.

1981-1988. Co-owner and operator of Ballymote Farms, London, Ontario, Canada. Commercial greenhouse and field crop producers.

1980-1981. Greenhouse technician. Alberta Horticultural Research Centre, Brooks, Alberta, Canada.

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### Refereed journal publications

T Pocock, A Vetterli and S Falk. (2010) Evidence for phenotypic plasticity in the Antarctic extremophile *Chlamydomonas raudensis* Ettl UWO 241. Journal of Experimental Botany. doi: 10.1093/jxb/erq347.

T Pocock, PV Sane, S Falk and NPA Huner. (2007) Excitation pressure regulates the activation energy for recombination events in PSII reaction centres of *Chlamydomonas reinhardtii*. *Biochemistry and Cell Biology*, 85: 721-729.

Pocock T, Vetterli A, Huner NPA, Falk S. 2007. Synergistic effects of salinity and temperature in an extremophilic Antarctic alga (*Chlamydomonas raudensis* UWO 241). *Photosynthesis Research*. 91:298–299.

T Pocock, A Koziak, D Rosso, S Falk and N PA Huner. (2007). *Chlamydomonas raudensis* Ettl. (UWO 241) *Chlorophyceae* exhibits the capacity for rapid D1 repair in response to chronic photoinhibition at low temperature. *Journal of Phycology*. 43(5):924-936.

RM Morgan-Kiss, JC Priscu, T Pocock, L Gudynaite-Savitch and NPA Huner. (2006) Adaptation of Photosynthetic Microbes to Permanently Cold Environments. *Microbiology and Molecular Biology Reviews*. 70(1):222-252.

RM Morgan-Kiss, AG Ivanov, T Pocock, M Król, L Gudynaite-Savitch, and NPA Hüner. (2005) The Antarctic psychrophile, *Chlamydomonas raudensis* Ettl (UWO241) (chlorophyceae, chlorophyta) exhibits a limited capacity to photoacclimate to red light. *Journal of Phycology*. 41(4):791-800.

T Pocock, MA Lachance, T Proschold, S Kim, JC Priscu and NPA Huner. (2004) Identification of a psychrophilic green alga from Lake Bonney, Antarctica: *Chlamydomonas raudensis* Ettl. (UWO 241). *Journal of Phycology*. 40:1138-1148.

Rob L. Dean and T. Pocock. (2004) Diphenyl carbazide restores electron transport in isolated, illuminated chloroplasts after electron transport from water has been eliminated by mild heat treatment. *Biochemistry and Molecular Biology Education*. 32: 381-389.

E Small, T Pocock and PB Cavers. (2003) The biology of Canadian weeds. 119. *Cannabis sativa* L. *Canadian Journal of Plant Science*. 83: 217-237.

CN Dong, J Danyluk, KE Wilson, T Pocock, NPA Huner and F Sarhan. (2002) Cold-regulated cereal chloroplast late embryogenesis abundant-like proteins: Molecular characterization and functional analysis. *Plant Physiology*. 129(3): 1368-1381.

T Pocock, V Hurry, LV Savitch, NPA Huner. (2001) Susceptibility to low-temperature photoinhibition and the acquisition of freezing tolerance in winter and spring wheat: the role of growth temperature and irradiance. *Physiologia Plantarum*. 113(4):499-506.

LV Savitch, T Pocock, M Krol, KE Wilson, BM Greenberg and NPA Huner. (2000) Effects of growth under UVA radiation on CO<sub>2</sub> assimilation, carbon partitioning, PSII photochemistry and resistance to UVB radiation in *Brassica napus* L. cv Topas. *Aust. Journal of Plant Physiology*. 28: 203-212.

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## Invited Book chapters

NPA Huner , AG Ivanov, PV Sane, T Pocock, M Krol, A Balseris, D Rosso, LV Savitch, VM Hurry, G Öquist. (2005) Photoprotection of photosystem II: reaction center quenching versus antenna quenching. In: Photoprotection, Photoinhibition, Gene Regulation and Environment. Advances in Photosynthesis and Respiration (Demmig-Adams B, Adams WW, Mattoo AK, eds), Kluwer Academic Publishers, Dordrecht. Pp 155-174.

T Pocock, M Krol and NPA Huner. (2004) The determination and quantification of photosynthetic pigments by reverse phase high performance liquid chromatography (HPLC), thin layer chromatography and spectrophotometry. *In* Methods in Molecular Biology : Photosynthesis Research Protocols. (Carpentier, R. ed). Humana Press Inc. New Jersey, USA. Pp 137-148.

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### **Refereed conference proceedings**

T Pocock, A Vetterli, N Huner and S Falk. (2007). Synergistic effects of salinity and temperature in n extremophilic Antarctic alga (*Chlamydomonas raudensis* UWO 241). *Photosynt. Res.* 91:298-299.

T Pocock, D Rosso, S Falk and NPA Huner. (2005). Recovery from photoinhibition in the low-light adapted Psychrophilic green alga, *Chlamydomonas raudensis* (UWO241). Eds: A. Van der Est and D. Bruce. *Photosynthesis: Fundamental Aspects to Global Perspectives*. Pp 525-527.

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### **Non-refereed conference proceedings**

T Pocock. (2010). Light, Plants and the Human Landscape. Light Symposium 2010. Natural Light - Daylight and artificial light for mankind. Stockholm, Sweden. October 2010. <http://www.lightsymposium2010.com/>

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### **Dissertations**

Tessa H Pocock. 2004. Phylogeny, Photoinhibition and Recovery of a New Antarctic Psychrophile, *Chlamydomonas raudensis* (UWO 241). PhD thesis. The University of Western Ontario, London, Canada. ISBN 9780494120293. 209 p.

Tessa H Pocock. 1999. The Effect of Temperature and Light on Photoinhibition, Carbon Metabolism and Freezing Tolerance: A Survey of Winter and Spring Wheat Cultivars. MSC Thesis. The University of Western Ontario, London, Canada. ISBN 0612580741. 152 p.

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### **Technical reports**

2009. Tessa Pocock. Spectral analysis and physiological status of a greenhouse crop in Orust, Western Sweden. Heliospectra AB.

2009. Tessa Pocock. Determination of plant signals for plant growth and plant stress estimation models. Heliospectra AB.

1997. Tessa Pocock. Fibre Hemp Research Report: Hemp field trials, cultural practices, pests and diseases. Hempline Inc., Delaware, Ontario, Canada.

1995. Tessa Pocock and PB Cavers. Fibre Hemp Research Report: Hemp variety selection, germination and cultural practices. Hempline Inc., Delaware, Ontario, Canada.

### **Conference presentations**

Presented at over 20 national and international conferences.

### **Academic awards, honours and grants**

#### *International:*

Swedish Foundation for Strategic Research. Project leader ProEnviro. Proposal No. M08.09. "The Next Green Revolution: Light Matters". April 2009 – April 2011. (3,800,000.00 SEK/ 531,600.00 CAD).

Marie Curie Intra-European Fellowship, FP6-2002-Mobility-5. Proposal No. 010694. "Biological consequences of global climate change. The effects of salinity and temperature in extremophilic algae." Mid Sweden University, Sundsvall, Sweden. October 2004-December 2006 (2,000,000 SEK/397,400.00 CAD).

#### *National, regional and institutional:*

Chunfang Hu Annual Award in Plant Sciences for top PhD thesis. UWO. December 2004.

NSERC. UWO. 2001- 2003.

Graduate Tuition Scholarships. UWO. 2001- 2004.

Ontario Graduate Student Scholarships. UWO. 2000- 2004.

Dr. Irene Uchida Scholarship for academic excellence. UWO. 2001-2002.

Robert and Ruth Lumsden Award in Science. UWO. 2000.

Dr. Irene Uchida Scholarship for academic excellence. UWO. 1999-2000.

Student University Scholarship. UWO. 1998- 2000.

David E. Laudenbach Scholarship for excellence in balancing research and community, social or family activities. UWO. 1997.

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### **Other**

Ad Hoc reviewer for Acta Physiologia, Biochemistry and Cell Biology and Physiologia Plantarum.

Member of the Federation of the Societies of Biochemistry and Molecular Biology, The Marie Curie Fellows Association, and The Canadian Society of Plant Physiologists.

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