

## Manal Hassen Al-Traboulsi

د. منال حسن الطرابلسي (درجة علمية: استاذ مساعد)

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### Personal Information

Nationality: Libyan

Place of birth: Benghazi, Libya

### Education

January, 2007 - June, 2011      University of Nottingham, Nottingham, U.K  
PhD in Biosciences (Plant sciences/Environmental sciences)  
Project title: **The responses of field-grown bean and maize crops to elevated soil CO<sub>2</sub>.**

Project aim: To examine plant responses in terms of above- and below-ground growth to soil CO<sub>2</sub> enrichment caused by CO<sub>2</sub> leakage from Carbon Capture and Storage (CCS) geological storage sites or underground transport pipes.

Specific goal of the project: To simulate soil containing high CO<sub>2</sub> concentrations and study its impact on soil pH and the germination and growth of two contrasting species, bean and maize.

Supervisors: Prof. Colin Black, Prof. Jeremy Colls, Prof. Michael Steven, Dr. Sofie Sjögersten.

September, 1996 – July, 1999      McGill University, Montreal, Canada  
MSc in Biology  
Project title: **Responses of plant roots and pastureland soils to increasing CO<sub>2</sub> concentrations.**

Project aim: To examine responses of *Plantago major* and *Poa pratensis* to high atmospheric CO<sub>2</sub> concentrations and to investigate the impact of 5 years of CO<sub>2</sub> enrichment on root biomass and on total C and N content of roots and soil in pastureland.

Supervisors: Prof. Catherine Potvin, Prof. Brian Wilsey

September, 1986 – July, 1990      University of Garyounis, Benghazi, Libya  
 BSc in Botany

**Relevant professional, occupational and training courses attended**

Course title	Date	Training provider
Statistics for experimental design	09.1996 - 01-1997	McGill University
Global Biogeochemistry	09.1997 - 01.1998	McGill University
Creative thinking	30.March.2007	University of Nottingham
Marking and assessment	18.April.2007	University of Nottingham
Demonstrating in laboratory practical	23.April.2007	University of Nottingham
Presentation skills	18.June.2007	University of Nottingham
Experimentation and computing techniques	09.2007 - 12.2007	University of Nottingham
Referencing and citing using Endnote	13.November.2007	University of Nottingham
Philosophy of science and scientific ethics	21.November.2007	University of Nottingham
MS Excel functionality-a	27.November.2007	University of Nottingham
MS Excel- b: data exploration, analysis graphing	01.December.2007	University of Nottingham
How to prepare an effective poster. I.	28.January.2008	University of Nottingham
How to prepare an effective poster. II.	06.February.2008	University of Nottingham
Getting into the habit of writing	11.February.2008	University of Nottingham
Mayers-Briggs type indicator (MBTI)	18.February.2008	University of Nottingham
Getting going on your thesis	21.April.2009	University of Nottingham
Introduction to image and photo editing	08.May.2009	University of Nottingham

**Teaching**

09.2000-01.2001,  
 09.2002-01.2003      Botany I  
 University of Garyounis, Benghazi, Libya

09.2000-01.2001,  
 09.2001-01.2002,  
 09.2002-01.2003      Botany II  
 Comparative plant morphology  
 University of Garyounis, Benghazi, Libya

02.2001-06.2001,  
 02.2002-06.2002,  
 02.2004-06.2004      Microbiology for Medicine  
 Global climate change  
 University of Garyounis, Benghazi, Libya

02.2012-present,  
    Plants and Environment  
 Botany I, Botany for Medicine  
 University of Benghazi, Benghazi, Libya

## **Extracurricular activities**

### **Conferences**

- 1- Society for Experimental Biology (SEB) annual main meeting, 1-4 July 2011, Glasgow, UK.
- 2- Rothamsted Research Soil Organic Matters, 23-25 June 2009, Harpenden, UK.
- 3- Annual Postgraduate Symposium, University of Nottingham, 25 March 2009, Nottingham, UK.
- 4- Annual Postgraduate Symposium, University of Nottingham, 25-26 March 2008, Nottingham, UK.
- 5- Annual Postgraduate Symposium, University of Nottingham, 26-27 March 2007, Nottingham, UK.

### **Published Work**

#### **Journals**

- 1- Al-Traboulsi, M., Sjögersten, S., Colls, J., Steven, M. and Black C. (2013). Potential impact of CO<sub>2</sub> leakage from Carbon Capture and Storage (CCS) systems on growth and yield in maize. *Plant and Soil*. 365: 267-281.
- 2- Al-Traboulsi, M., Sjögersten, S., Colls, J., Steven, M. and Black C. (2012). Impact of CO<sub>2</sub> leakage from Carbon Capture and Storage (CCS) systems on growth and yield in spring field bean. *Environmental and Experimental Botany*. 80, 43-53.
- 3- Al-Traboulsi, M., Sjögersten, S., Colls, J., Steven, M. and Black C. (2012). Potential impact of CO<sub>2</sub> leakage from Carbon Capture and Storage (CCS) systems on field bean (*Vicia faba*). *Physiologia Plantarum*. 146: 261-271.