

**Friday, 20 July 2007**

## **1 - Genetic, Molecular and Biochemical Correlates for C4 and CAM (3)**

**09:00 Prof. J Andrew C Smith (University of Oxford)**

Evolutionary origins of CAM photosynthesis [1.1]

**09:30 Dr Lonnie Guralnick (Western Oregon University)**

The extent of C<sub>4</sub> and CAM photosynthesis in three *Grahamia* species of the Portulacaceae. [1.2]

**09:50 Dr Elena Voznesenskaya (Komarov Botanical Institute RAS)**

Characterization of photosynthesis in C<sub>3</sub> and C<sub>4</sub> species of the genus *Halosarcia* (Salicornioideae) [1.3]

**10:10 Dr Maxim Kapralov (University of Birmingham)**

Phylogenetic analysis of natural selection in Rubiscos of C<sub>3</sub>, C<sub>4</sub> and CAM plants [1.4]

**10:30 Refreshment Break**

**11:00 Prof. Richard Leegood (University of Sheffield)**

Single-cell C<sub>4</sub> photosynthesis in marine diatoms? [1.5]

**11:30 Prof. Maurice Ku (National Chiayi University)**

A Cyanobacterial CO<sub>2</sub> Concentrating Mechanism Enhances Rice Photosynthesis and Productivity [1.6]

**11:50 Dr C Reyes-Garcia and Dr M Mejia-Chang (CICY Yucatan and University of Cambridge)**

Stable isotopic determinants of water exchange by bromeliads along climatic gradients [1.7]

**12:20 Dr Achim Walter (Research Center Juelich)**

Diel leaf growth cycles in *Clusia spp.* are related to changes between C<sub>3</sub> and Crassulacean acid metabolism during development and during water stress [1.8]

**12:40 Prof. Craig Martin (University of Kansas)**

Windows of opportunity ... or portholes of pain? The light environment *inside* leaves of CAM succulents with adaxial epidermal windows [1.9]

**Chair: Annie Borland**

**13:00 Lunch**

## **1 - C4 CAM Futures**

**14:00 Prof. Russell K. Monson (University of Colorado)**

C<sub>3</sub>-C<sub>4</sub> Intermediate Species: Lessons in the Evolution of Biochemical and Anatomical Novelty [1.1]

**14:30 Dr Hossein Akhani (University of Tehran)**

Ecological Distribution and Diversity of C<sub>4</sub> Plants in Iran [1.2]

**14:50 Dr Joseph Holtum (James Cook University)**

A C<sub>4</sub>-dominated savanna responds to elevated concentrations of atmospheric CO<sub>2</sub>: the OzFACE experiment [1.3]

**15:20 General Discussion - Howard Griffiths**

**Chair: Howard Griffiths**

**15:45 Coffee and Depart**