

Novel blue light receptors

Chair: A. Losi (Parma, ITA)

Invited Lectures:

TbWC-1: the photoreceptor of an hypogeous fungus

B. Grimaldi, P. Filetici, P. Ballario (Roma, ITA)

Multiple signal chains in the blue light dependent regulation of photosynthesis genes in *Rhodobacter sphaeroides*

H. Happ, Y. Han, S. Braatsch, G. Klug (Giessen, GER)

Signal transduction mechanism of the cryptochrome blue-light photoreceptor

C.L. Partch, M.W. Clarkson, S. Özgür, A.L. Lee, A. Sancar (Chapel Hill NC, USA)

Effect of mutations on interdomain communication in the phototropin related *Bacillus subtilis* protein Ytva

A. Losi¹, W. Gaertner² (¹Parma, ITA; ²Mülheim, GER)

Oral Presentations:

Spectroscopic studies on photocycle of the flavin-binding photoreceptor AppA, a bacterial transcriptional anti-repressor of photosynthesis genes

M. Gauden, S. Yermenko, W. Laan, I.H.M. van Stokkum, J.A. Ihalainen, R. van Grondelle, K.J. Hellingwerf, J.T.M. Kennis (Amsterdam, NED)

Functional expression of algal light-sensitive adenylyl cyclases in animal cells

S.V. Schröder-Lang¹, P. Hegemann², M. Watanabe³, G. Nagel¹ (¹Frankfurt, GER; ²Berlin, GER; ³Hayama, Japan)

Light-induced multi-step intra-protein electron transfer in DNA photolyase and cryptochrome

M. Byrdin¹, M. Vos², A. Eker³, J.P. Bouly⁴, A. Zeugner⁴, B. Giovani^{1,4}, M. Ahmad⁴, K. Brettel¹ (¹Saclay, FRA; ²Palaiseau, FRA; ³Rotterdam, NED; ⁴Paris, FRA)

A blue-light sensing, phototropin-related protein from *Pseudomonas putida*: a paradigm for an extended LOV construct

U. Krauss¹, A. Losi², W. Gaertner³, K.-E. Jaeger¹, T. Eggert¹ (¹Jülich, GER; ²Parma, ITA; ³Mülheim, GER)