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New developments in the study of the cellular stress response

18th May, 2004

Department of Ecology and Genetics,
Build. 540, 2nd floor, University of Aarhus,

Program

9.45-10.00: Coffee.

10.00-10.05: Jesper Givskov Sørensen: Welcome and opening remarks.

Session 1: Protein misfolding

10.05-10.25: Niels Gregersen: How does protein misfolding/aggregation cause a stress response; introduction to the problem.
10.25-10.55: Christina Bak Pedersen: Effects of protein misfolding stress in SCAD deficiency.
10.55-11.10: Claus Bischoff: Ethylmalonic encephalopathies due to mutations in a putative glyoxylase gene.
11.10-11.25: Søren Vang: Cell stress due to expression of mutant cardiac actin.
11.25-11.40: Thomas Corydon: Impaired folding of natural and artificial HSP60 substrates due to knockdown of HSP60 by RNAi.

11.40-12.40: Lunch break.

Session 2: Gene expression analyses

12.40-13.00: Jakob Hansen/Peter Bross: Assaying a cellular stress response due to decreased levels of Hsp60 or expression of mutant Hsp60; first experiences with GENECHIP analyses.
13.00-13.20: Du Yutao: 70-mer oligonucleotide arrays and gene expression analyses of "normal" and Hsp60 mutant cells subjected to heat shock.
13.20-13.40: Jesper Givskov Sørensen: Preliminary analysis of micro array data on the stress response in *Drosophila* as induced by heat.
13.40-14.00: Morten Muhlig Nielsen: Gene expression effects of selection for heat resistance in *Drosophila* – a micro array study.

14.00- 14.15: Coffee.

Session 3: Various heat shock

14.15-14.35: David Kraft: Heat shock and proteasome - the present status.
14.35-14.55: Kamila Caraballo-Cortes: Heat shock and glucose-induced damage in human cells.
14.55- 15.10: Torsten N Kristensen: Heat stress experiment in Holstein calves.
15.10- 15.30: Peter Løvendahl: On the development of a time-resolved fluoro immuno metric assay for HSP70.
15.30-16.00: Concluding remarks and discussion in plenum.