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Mini-symposium: Update on cellular stress response Wednesday, 22 October, 2003

Research Unit for Molecular Medicine
Mødelokale 4
Skejby Sygehus
Brendstrupgaardsvej
8200 Århus N

9.45-10.00: Coffee.

Session 1: Pathology of protein misfolding and cellular stress response

10.00-10.40:

Variations in cellular stress management genes in disease, disease-susceptibility and stress sensitivity. Associate professor, Peter Bross, Research Unit for Molecular Medicine, University of Aarhus.

10.40-11.20:

Conformational disorders, Professor Niels Gregersen, Research Unit for Molecular Medicine, University of Aarhus.

11.20-11.40:

Association of stress response genes with human longevity. Ph.D. student, Ripudaman Singh, Department of Molecular Biology/Institute of Human Genetics, University of Aarhus.

11.40-11.50: Break

11.50-12.10:

Measurements of transcription activity of hsp encoding genes by quantitative PCR. Ph.D. student, Jakob Hansen, Research Unit for Molecular Medicine, University of Aarhus.

12.10-12.30:

Measurements of transcription activity of hsp encoding genes using microarrays. Associate Professor, Mogens Kruhoffer Molecular Diagnostic Laboratory, Department of Clinical Biochemistry, Aarhus University Hospital.

12.30-12.50:

Modulation of signal transduction by repeated mild heat shock in human fibroblasts. Master student, Elise Nielsen, Department of Molecular Biology, University of Aarhus.

12.50-13.20: Lunch break.

Session 2: Heat Shock proteins

13.20-14.00:

Heat stress proteins and thermal resistance: an evolutionary-ecological perspective.

Professor, Volker Loeschcke, Department of Genetics and Ecology, University of Aarhus.

14.00-14.20:

Investigation of double stranded RNA in response to heat stress in *Drosophila melanogaster*.

Ph.D. student, Morten Muhlig Nielsen, Department of Molecular Biology, University of Aarhus.

14.20-14.40:

Variation in the expression level of the inducible Hsp70: Geographical variation and climatic factors is affecting expression levels. Post doc., Jesper G. Sørensen, Department of Genetics and Ecology, University of Aarhus.

14.40-14.50: Break.

14.50-15.10:

Quantitative genetic variation in physiological responses to stress in dairy cattle. Senior scientist, Peter Løvendahl, Department of Animal Breeding and Genetics, Danish Institute of Agricultural Sciences.

15.10-15.30:

Hsp expression in farm animals -preliminary results, ideas and perspectives. Ph.D. student, Torsten Nygård Kristensen, Department of Animal Breeding and Genetics, Danish Institute of Agricultural Sciences/Department of Genetics and Ecology, University of Aarhus.

15.30-16.00: Concluding remarks and discussion in plenum.