

Guest lecture

"Fatty Acid Desaturation in Obesity and Diabetes"

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10 AM in the BMB seminar room



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Abstrakt: Obesity results from an imbalance between energy intake and expenditure. There are currently over 60 million obese adults in the United States. The number of overweight individuals and the incidence of cardiovascular and metabolic complications are projected to continue. Obesity and insulin resistance are associated with excess lipid accumulation in tissues such as adipose, liver, muscle and heart often due to increased hepatic fatty acid synthesis and flux of adipose-derived free fatty acids into these tissues. Metabolic and genetic manipulations directly targeting the adipose tissue and liver for weight reduction therapies have been relatively unsuccessful. The discovery of new target tissues of energy metabolism and strategies aimed at reducing the prevalence of obesity

and insulin resistance is critical for the treatment and prevention of cardiovascular disease and the metabolic syndrome. Dr. Ntambi's talk will summarize some of the important findings linking liver and skin stearoyl-CoA desaturase-1 deficiency to protection against high carbohydrate and high fat diet induced obesity respectively and will emphasize that the skin is part of metabolic network that controls energy intake, storage and expenditure.

Host: Professor Nils J. Færgeman, Department of Biochemistry and Molecular Biology, SDU.