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JOINT EVENT

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Obesity and GLP-1: Obesity pathophysiology and GLP-1 treatment potential

besity impairs almost all aspects of health and is a global challenge to our healthcare system as the prevalence reaches billion humans. erefore, there is an acute need for better prevention and treatment strategies. Glucagon-like-peptide-1 (GLP-1), secreted from endocrine cells in the intestine upon meal intake, reduces food intake. We have previously shown that Obese people have low endogenous GLP-1 response; weight loss induces a marked increase in GLP-1 response and; treatment GLP-1 analogues facilitates long term weight loss maintenance (12 kg) accompanied by substantial improvement in metabolic health, compared to diet-induced weight loss maintenance. Chronic in ammation is an established part of the pathogenesis of obesity and activation of macrophages and T-cells in the expanded adipose tissue is coupled to the development of a pro-in ammatory state and insulin resistance. Interestingly, emerging evidence identi es GLP-1 as a potentially important immuno-modulator. GLP-1 decreases in ammation-associated gene and protein expression in macrophages and exerts anti-in ammatory actions in adipocytes and endothelial cells as well as potent anti-in ammatory e ects in humans.

Biography

Signe Torekov is currently an Associate Professor at University of Copenhagen, Denmark. She has a strong background in metabolic translational research. She has DXWKRUHG RULJLQDO SHHU UHYLHZHG SDSHUV PXFK RI WKLV ZRUN KDV EHHQ SXEOLVKHG LQ KLJK UDQ! Nordisk Foundation Excellence Fellowship. In 2015, she formed an international alliance in immuno-metabolism with top researchers at Oxford and Karolinska University.

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