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*Sex-linked differences in lipolysis mediated adipose tissue inflammation in aging and obesity.*

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This pilot study focuses on understanding sex-differences in metabolic and inflammatory responses to obesity and aging. Obesity induced chronic inflammation is one of the driving forces for the development of insulin resistance, type 2 diabetes and cardiovascular disease and females are particularly protected from this obesity-induced inflammation. The mechanism for female protection is not well-understood. This study will provide insight on sex-differences in lipolysis mediated adipose inflammation in both obesity and aging and will hence pave the way for future investigations into sex-linked lipid mediators involved in activating inflammatory responses in aged and obese models. A better understanding of the mediators of adipose inflammation is necessary and could facilitate the development of therapeutic approaches against inflammation-induced diseases in both men and women.