论文投稿以详细摘要，格式同《Journal of Dairy Science》；摘要字数不超过800字，格式如下：

摘要需含题目、作者、作者单位、地址、邮编、目的、材料与方法、结果、讨论与结论、关键词等，原则上不插入图表，不列参考文献；请参见如下模板。

摘要格式范例如下，供参考：（本次会议只接收英文摘要）

**ADRP promotes lipid accumulation in mammary epithelial cells**

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Milk fat originates from the secretion of lipid droplets synthesized within mammary epithelial cells. Adipocyte differentiation-related protein (ADRP; also known as PLIN2) is a lipid droplets binding protein that is crucial for synthesis of mature lipid droplet. The hypothesis is ADRP regulates lipid droplet production and metabolism in goat mammary epithelial cells (GMECs), thus, plays a role in determining milk fat content. To understand the role of ADRP in ruminant milk fat metabolism, ADRP was overexpressed or knockdown in GMECs using an adenovirus system. Immunocytochemical staining revealed that ADRP localizes to the surface of lipid droplets. Supplementation with oleic acid enhances its localization on the lipid droplet surface and enhances lipid accumulation. Overexpression of ADRP increased lipid accumulation and the concentration of triacylglycerol in GMECs. In contrast, morphological examination revealed that knockdown of ADRP decreased lipid accumulation even when oleic acid was supplemented. This response was confirmed by the reduction in mass of cellular triglycerides when ADRP was knockdown. The fact that knockdown of ADRP did not completely eliminate lipid accumulation at a morphological level in GMECs without oleic acid suggests that some other compensatory factors may also aid in the process of lipid droplet formation. ADRP reversed the decrease of lipid droplet accumulation induced by adipose triglyceride lipase. This is highly suggestive of ADRP promoting triglyceride stability within lipid droplets by preventing access to adipose triglyceride lipase. Collectively, these data provide direct in vitro evidence that ADRP plays a key role in lipid droplet formation and stability in GMECs. Further experiments need to explore the mechanisms for enlargement of lipid droplet via ADRP activity in GMECs.

**Key words:** milk fat; lipid droplet; triacylglycerol; hydrolysis