



Animal Models for the Study of Human Disease: Chapter 13. Animal Models of Dietary-Induced Obesity

Louise Thibault

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This chapter aims to review literature on different aspects of obesity from fat-rich diets in non-human species. Usefulness of using small rodents in animal models to infer aspects of human obesity is discussed in terms of similarities and differences and how obesity is defined. The paradigm of using fat-rich diets in animal models of human obesity is explored according to its adequacy and dietary characteristics related to fatty acid composition. Physiological factors and mechanisms that can play a role in the development of obesity induced by a diet rich in fat are examined, namely the efficiency of nutrient utilization and the possible lack of inhibitory effect of fat on intake. The role of hormones such as leptin, ghrelin and insulin is discussed. Behavioural mechanisms related to sensory-specific facilitation of eating with fat rich diets, altered feeding rhythmicity and learned eating are considered. The possible reversal of fat-rich diet induced obesity in animal models is explored. This chapter concludes with comments on appropriate design of animal studies and suggestions for future research.

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