







Q

Home ▶ All Journals ▶ Journal of Receptors and Signal Transduction ▶ List of Issues ▶ Volume 28, Issue 1-2 ▶ Metabolic Roles of the M3 Muscarinic Ace

Journal of Receptors and Signal Transduction > Volume 28, 2008 - Issue 1-2

430 40

0

Views CrossRef citations to date Altmetric

Research Article

Metabolic Roles of the M₃ Muscarinic Acetylcholine Receptor Studied with M₃ Receptor Mutant Mice: A Review

DINESH GAUTAM, JONGRYE JEON, JIAN HUA LI, SUNG-JUN HAN, FADI F. HAMDAN, YINGHONG CUI, ...show all

Pages 93-108 | Published online: 10 Oct 2008



Full Article

Figures & data

References

66 Citations

Metrics

Reprints & Permissions

Read this article

Abstract

The M₃ i

central a

Recent s

Recent s

revea

func

overexp essentia

experim

β -cell M

studies

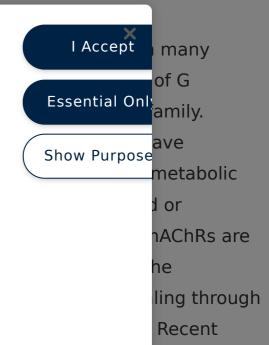
We Care About Your Privacy

We and our 843 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. Privacy Policy

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

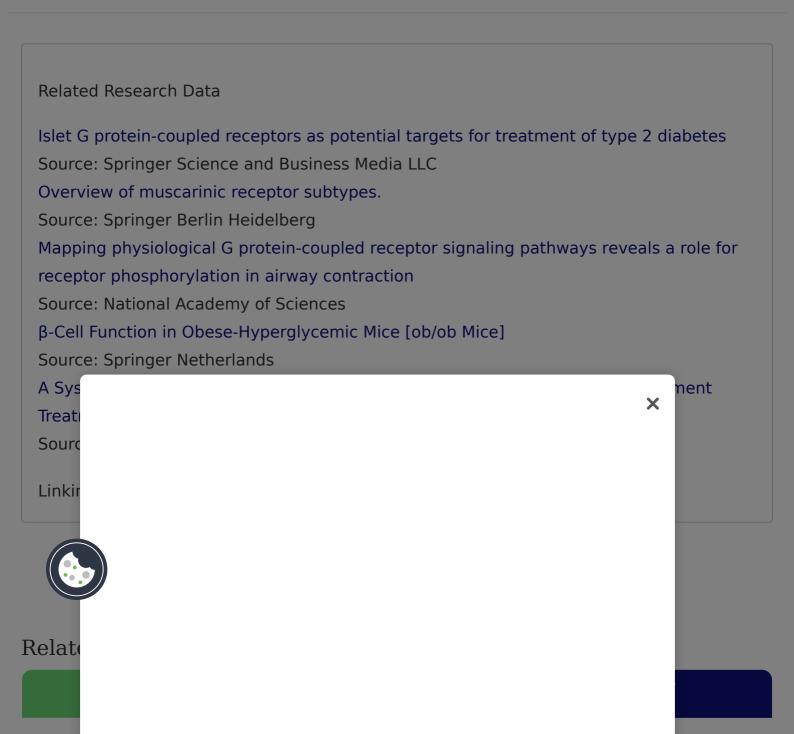
List of Partners (vendors)



e of Ma

receptors protected mice against various forms of experimentally or genetically induced obesity and obesity-associated metabolic deficits. Under all experimental conditions tested, M₃ receptor-deficient mice showed greatly ameliorated impairments in glucose homeostasis and insulin sensitivity, reduced food intake, and a significant elevation in basal and total energy expenditure, most likely due to increased central sympathetic outflow and increased rate of fatty acid oxidation. These findings are of potential interest for the development of novel therapeutic approaches for the treatment of obesity and associated metabolic disorders.

Q Key Words: : Glucose homeostasis Insulin Knockout mice Muscarinic receptor Transgenic mice



Information for Open access **Authors** Overview R&D professionals Open journals Editors **Open Select** Librarians **Dove Medical Press** Societies F1000Research Opportunities Help and information Reprints and e-prints Advertising solutions Newsroom Accelerated publication Corporate access solutions Books Keep up to date Register to receive personalised research and resources by email Sign me up Taylor & Francis Group Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions Accessib X

