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**Name of Journal:** *World Journal of Diabetes*

**Manuscript NO:** 52254

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### *Basic Study*

**Lack of Syndecan-1 produces significant alterations in whole-body composition, metabolism and glucose homeostasis in mice**

Anil Kumar Jaiswal, Mohanraj Sadasivam, Susan Aja, Abdel Rahim A Hamad

### **Abstract**

#### BACKGROUND

Obesity is a disease state with serious adverse metabolic complications, including glucose intolerance and type 2 diabetes that currently has no cure. Identifying and understanding roles of various modulators of body composition and glucose homeostasis is required for developing effective cures. Syndecan-1 (Sdc1) is a member of the heparan sulfate proteoglycan family that has mainly been investigated for its role in regulating



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## Liver-Restricted Repin1 Deficiency Improves Whole-Body ...

<https://diabetes.diabetesjournals.org/content/63/10/3295> ▾

Oct 01, 2014 · Interestingly, both LRep1  $-/-$  and CD36 KO mice are protected against **impaired glucose homeostasis**, despite these alterations in lipid metabolism . Therefore, Repin1 **deficiency** in the liver provides a model to dissect the **effects of liver fat accumulation** from those of increased circulating lipids on **whole-body insulin sensitivity**.

Cited by: 15

Author: Matthias Kern, Joanna Kosacka, Nico He...

Publish Year: 2014

## (PDF) Genetic Deletion of Syndecan-4 Alters Body ...

[https://www.researchgate.net/publication/337334088\\_Genetic\\_Deletion\\_of\\_Syndecan-4...](https://www.researchgate.net/publication/337334088_Genetic_Deletion_of_Syndecan-4...)

Genetic Deletion of Syndecan-4 Alters Body Composition, Metabolic Phenotypes, and the Function of Metabolic Tissues in Female Mice Fed A High-Fat Diet (Running Title: Sdc4 Deficiency Affects ...

## Direct comparison of methionine restriction with leucine ...

<https://www.nature.com/articles/s41598-017-10381-3>

Aug 30, 2017 · MR and LR improve **whole-body glucose metabolism**. \*Significantly different to MR and LR-fed mice (  $P < 0.05$ ) for overall diet effect and interaction of diet with time. ( c) Fasting **serum insulin** was measured after 6 weeks on diet, ( d) fasting **blood glucose** was measured after 8 weeks on diet,...

Cited by: 21

Author: Emma K. Lees, Emma K. Lees, Ruth Ba...

Publish Year: 2017

## Obesity- and gender-dependent role of ... - Scientific Reports

[www.nature.com/articles/srep37992](http://www.nature.com/articles/srep37992)

Nov 30, 2016 · In contrast, despite clear alterations in pituitary axes, lack of SST or CORT did not **drastically impacted mice growth, body composition** or glucose/insulin metabolism, which is in agreement with ...

Cited by: 3

Author: Raúl M. Luque, José Cordoba-Chacon, A...

Publish Year: 2016

## Role of Diacylglycerol Kinases in Glucose and Energy ...

<https://www.sciencedirect.com/science/article/pii/S1043276019301201>

To date, several **whole-body** knockout models have been generated and each isoform has been shown to play an **important role in energy homeostasis**. Whereas the contribution of specific DGK isoforms to



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### Glycosaminoglycan remodeling during ... - PubMed Central ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4766247>

Feb 25, 2016 · HSPGs such as **syndecan-1** and perlecan, in particular, have been implicated in lipoprotein **metabolism**, and it is evidenced by impairment in the clearance of remnant lipoproteins in **syndecan-1** knockout **mice**. HS-GAGs are also known to be involved in hepatic clearance of apoB-48-containing lipoproteins.

Cited by: 18

Author: Vemana Gowd, Abhignan Gurukar, Nandi...

Publish Year: 2016

### Emerging role of the brain in the homeostatic regulation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4892882>

Mar 11, 2016 · Leptin has an important role in the control of glucose metabolism. A lack of leptin (ob/ob mice) or its functional receptor (db/db mice) leads not only to obesity, but also metabolic derangement, including insulin resistance and diabetes. Leptin treatment of ob/ob mice improves glucose homeostasis.

### Tissue-specific disruption of the growth hormone receptor ...

<https://www.sciencedirect.com/science/article/pii/S1096637419300619>

Therefore, results suggest that **disrupted GH action** in the heart have **repercussions in whole body**