Automated recognition of pancreatic islets (coded orange in middle column) in insulin-immunostained pancreas specimens of control (left) and Zucker diabetic fatty rat (right). The insulin-positive area (coded yellow in bottom column) in islets was also automatically quantified. This image appears in an article by Kakimoto et al., titled ‘Automated recognition and quantification of pancreatic islets in Zucker diabetic fatty rats treated with exendin-4’ published in the Journal of Endocrinology. The full article can be accessed at DOI:10.1530/JOE-12-0456. Magnification: ×20
Credit: T Kakimoto, H Kimata, S Iwasaki, A Fukunari and H Utsumi

REVIEW

MAP/microtubule affinity-regulating kinases, microtubule dynamics, and spermatogenesis
Elizabeth I Tang, Dolores D Mruk & C Yan Cheng

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Inhibition of 72 kDa inositol polyphosphate 5-phosphatase E improves insulin signal transduction in diet-induced obesity
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Autocrine effects of neuromedin B stimulate the proliferation of rat primary osteoblasts
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Increased susceptibility to diet-induced obesity in GPRC6A receptor knockout mice
Christoffer Clemmensen, Sanela Smajilovic, Andreas N Madsen, Anders B Klein, Birgitte Holst & Hans Brüner-Osborne

Sex-specific effects of prenatal stress on glucose homoeostasis and peripheral metabolism in rats

Acute psychological stress results in the rapid development of insulin resistance
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Increased glucagon-like peptide-1 secretion may be involved in antidiabetic effects of ginsenosides
Can Liu, Mian Zhang, Meng-yue Hu, Hai-fang Guo, Jia Li, Yun-li Yu, Shi Jin, Xin-ting Wang, Li Liu & Xiao-dong Liu
The role of interleukin 1β in the anti-adipogenic action of macrophages on human preadipocytes
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Hyperthyroidism causes cardiac dysfunction by mitochondrial impairment and energy depletion
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The sorting of proglucagon to secretory granules is mediated by carboxypeptidase E and intrinsic sorting signals
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RETRACTION
Non-esterified fatty acids and human lymphocyte death: a mechanism that involves calcium release and oxidative stress
Rosemari Otton, Danielly Oliveira da Silva, Thais Regina Campolo, Leonardo R Silveira, Maria Oliveira de Souza, Elaine Hatanaka & Rui Curi
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Erratum: Non-esterified fatty acids and human lymphocyte death: a mechanism that involves calcium release and oxidative stress
Rosemari Otton, Danielly Oliveira da Silva, Thais Regina Campolo, Leonardo R Silveira, Maria Oliveira de Souza, Elaine Hatanaka & Rui Curi
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ERRATUM
Plasma ghrelin is positively associated with body fat, liver fat and milk fat content but not with feed intake of dairy cows after parturition
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