



Home About Login Register Search Current Archives

Home > Vol 6, No 2 (2016) > **V. Fedulova**

Influence of Deuterium Depleted Water on Rat Physiology: Reproductive Function, Forming and Posterity Development

Lilia V. Fedulova, Stepan S. Dzhimak, Elena A. Kotenkova, Ekaterina R. Vasilevsky, Irina M. Chernukha

Abstract

Reproductive function and postnatal progeny development of rats in four generations treated with deuterium depleted water (40 ppm) were investigated. The targeted generations were parent (F0), first (F1), second (F2) and third (F3). Replacement of tap water to deuterium depleted water did not influence on fertility index as well as on survival and postnatal offspring development. Reproductive function, physical parameters and reflexes development in rats and pups consumed DDW was similar or more intensive in comparison with control group. Therefore, DDW consumption did not possess any toxic effects and may enhance general postnatal development.

Keywords

Fertility, deuterium depleted water, rats, generation, adaptation

Full Text:

SUBSCRIPTION

Login to verify subscription

USER

Username

Password

Remember me

Login

NOTIFICATIONS

- [View](#)
- [Subscribe](#)

JOURNAL CONTENT

Search

[Subscribers Only](#)

Refbacs

There are currently no refbacks.

ISSN: 1927-5951

All ▼

Search

Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)
- [Other Journals](#)

FONT SIZE

INFORMATION

- [For Readers](#)
- [For Authors](#)
- [For Librarians](#)

CURRENT ISSUE

ATOM	1.0
RSS	2.0
RSS	1.0

KEYWORDS

[Amphotericin B](#), [Amphotericin B colloidal dispersion](#), [Amphotericin B deoxycholate](#), [Liposomal Amphotericin B](#), [Paediatrics Invasive Fungal Infections \(IFI\)](#), [Antifungals Beliefs](#), [Career Goals](#), [Clinical Pharmacy](#), [Education](#), [Jordan](#), [Pharm.D students](#), [Carotenoid](#), [β-carotene](#), [Morinda citrifolia](#), [Active pharmaceutical ingredient](#), [Chokeberry](#), [antioxidant activity](#), [hematology](#), [clinical chemistry](#), [Holothurian](#), [organic extracts](#), [selectivity index](#), [HeLa cells](#), [Lycii radices](#), [immunomodulatory](#), [macrophage](#), [cytokine](#), [nitric oxide](#), [Male infertility](#), [causes](#), [treatment](#), [antioxidants](#), [food supplements](#), [Microbial endocrinology](#), [fermented dairy products](#), [probiotic lactobacilli](#), [Lactobacillus helveticus](#), [Lactobacillus casei](#), [Lactobacillus delbrueckii subsp. bulgaricus](#), [neuromediators](#), [catecholamines](#), [neuroactive amino acids](#), [behavior modification](#), [aggressi](#), [Mushroom](#), [functional food](#), [disease prevention](#), [antioxidant](#), [umami](#), [Nanotechnology](#), [Nanostructure materials](#), [Nanodevices](#), [Biomarkers](#), [Natural fibre](#), [RSM](#), [Retort processing](#), [dietary fibre](#), [sensory analysis](#), [Nutrition](#), [Omega-3](#).

[glutamine- L-alanine](#), [enteral nutrition](#), [parenteral nutrition](#), [ICU](#), [Overweight](#), [body mass index](#), [anthropometric measures](#), [food supplements](#), [hunger](#), [hypocaloric diet](#), [PEG-IFN- \$\alpha\$ -2a](#), [20-kDa](#), [Unipeq](#), [Peginterferon alfa-2a](#), [pharmacokinetics](#), [clinical trial](#), [safety](#), [Rheumatoid arthritis](#), [Spondyloarthropathies](#), [Budget impact analysis](#), [Adalimumab](#), [Etanercept](#), [Tumour necrosis factor alpha inhibitors](#), [Sodium Adsorption Ratio \(SAR\)](#), [Residual Sodium Carbonate \(RSC\)](#), [Ground water](#), [Sulfonamide](#), [in-silico studies](#), [statistics](#), [quantitative structure activity relationship](#), [Ustekinumab](#), [adalimumab](#), [psoriasis](#), [dose escalation](#), [nutrition](#), [therapeutic intervention](#), [radio-opaque hypertonic enema](#), [DIOS](#)