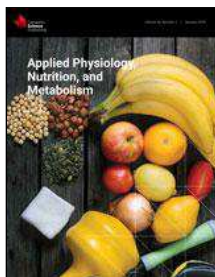


Applied Physiology, Nutrition, and Metabolism

Home About Us Journals Books Compilations Open Access Authors Librarians Societies Blog Contact Français

Home > Journals > Applied Physiology, Nutrition, and Metabolism > List of Issues > Volume 0, Number ja, > Impact of flaxseed and soy nuts as dietary supplements on lipid profil...



Browse the journal

- List of issues
- e-First articles
- Just-IN articles
- Current issue
- Special issues
- Most read articles
- Most cited articles
- Sample issue
- Author index
- For authors
- About the journal
- Open Access
- Benefits and services
- Instructions to authors
- Submit a manuscript
- Permission forms
- Reprints & permissions to reuse content

Article

« Previous TOC Next »

Impact of flaxseed and soy nuts as dietary supplements on lipid profile, insulin sensitivity and GLUT4 expression in ovariectomized rats

Luciana Dresseno; Alexandre Lehnen, PhD, Gabriela Teló, Ariel Silveira, Melissa M. Markoski, Ubiratan F. Machado, Beatriz D Schaen

Published on the web 28 May 2018.

Received February 24, 2018.

Applied Physiology, Nutrition, and Metabolism, <https://doi.org/10.1139/apnm-2018-0137>

ABSTRACT

We assessed the effects of a diet with flaxseed or soy nuts versus estradiol on lipid profile, insulin sensitivity, and GLUT4 expression in ovariectomized female rats. Forty-four Wistar female rats (90-days old) underwent ovariectomy were divided: C (standard diet); E (standard diet+subcutaneous 17 β -estradiol pellets); L (standard diet+flaxseed+subcutaneous placebo pellets); and S (standard diet+soy nuts+subcutaneous placebo pellets). Customized diets and the insertion of pellets were started 21 days after ovariectomy, and maintained for another 21 days. We measured body weight, insulin tolerance, total cholesterol, LDL-cholesterol, HDL-cholesterol, triglycerides, and GLUT4 (cardiac and adipose tissues). We found lower body weight and Lee index in group E; a trend for improved insulin sensitivity in S ($p=0.066$). Groups L and S showed lower lipid profile vs. C. Microsomal GLUT4 increased in L (cardiac and adipose tissues); plasma membrane GLUT4 increased in E, L and S (both tissues). We conclude that flaxseed and soy nuts as dietary supplements improve lipid profile and they increased GLUT4 expression.

PDF (485 K)

PDF-Plus (317 K)



Take **notes**, share and follow articles, make **comments**, and collaborate with peers!



DISCUSS



FOLLOW



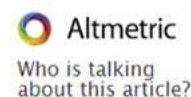
SHARE



COMMENT



NOTE



Article Tools

Tweet Partilhar

Add to Favorites

Download Citation

Email a Colleague

Request Permissions

Citation Alerts

Download Adobe Reader for PDFs

Journal Tools

Instructions to authors

Get an email alert for the latest issue

Check out the journal's featured content

Follow the Journal

Subscribe Now or click [here](#) for more information

Empowered by Science

Canadian Science Publishing's 2018-2022 Strategic Plan envisions a world where everyone is empowered with scientific knowledge.

Explore Our Plan

ACCESS OUR ARCHIVES

We have over **100,000** archives available online

Learn more



Connect With Us



Alerts



CSP Blog

Facebook



Twitter

YouTube



LinkedIn



RSS



© Copyright 2018 – Canadian Science Publishing