

Aim and Scope

The Exercise Science Journal (Exercise Science, ES) is a quarterly (February 28, May 31, August 31, and November 30), peer-reviewed and open-access journal. The journal focuses on scientific research for exercise science including physiology, biochemistry, nutrition, metabolism, genetics, immunology, medicine, rehabilitation, growth and development, training, anthropometry, and epidemiology related exercise and sports. The types of manuscripts include research articles, review, short/rapid communication, case report in the field of exercise science.

Publisher: Jin-Hwan Yoon

Editor-in-Chief: Dong-Ho Park

Published by The Korean Society of Exercise Physiology

Department of Kinesiology, Hannam University, #223(60223) Goette Hall, Hannam-ro 70, Daejeon 34430, Korea

TEL: 042-629-7930, FAX: 042-629-8402, Email: exephysio1@hanmail.net

Editorial Office

Department of Kinesiology, Inha University, 5W 560C, 100 Inha-ro, Nam-gu, Incheon 22212, Korea

TEL: +82-32-860-8182, FAX: +82-32-860-8188, E-mail: dparkosu@inha.ac.kr

Printed by Academya Publishing Co.

#2003, Daerung Technotown 15-cha, 401 Simin-daero, Dongan-gu, Anyang 14057, Korea

Tel: +82-31-389-8811, Fax: +82-31-389-8817, E-mail: journal@academya.co.kr

Copyright © 2018 Korean Society of Exercise Physiology

© It is identical to the Creative Commons Attribution Non-Commercial License (<http://creativecommons.org/licenses/by-nc/4.0/>).

© This paper meets the requirements of KS X ISO 9706, ISO 9706-1994 and ANSI/NISO Z.39.48-1992 (Permanence of Paper).

• This journal was supported by the National Research Foundation of Korea Grant funded by the Korean Government (MOE).



CONTENTS

Volume 27 Number 3 August, 2018

Review Articles

- 169 Evidence of Neuroplasticity and Neuroimaging Techniques following Anterior Cruciate Ligament Injury
Yong Woo An
- 177 Mitochondria, a Therapeutic Target of Aerobic Exercise for the Vascular Homeostasis
Hojun Lee, Kijeong Kim, Min Chul Lee, Kyeongho Byun, Ji-Seok Kim

Original Articles

- 184 Orthopedic Injury Epidemiology in Korea Navy Population
Eun-Wook Chang, Eun-Jin Jung, Yangtae Kim
- 191 The Effect of Treadmill Running on Insulin Receptor, Oxidative Stress, and Impaired Synaptic Plasticity in the Brain of High Fat Diet-induced 3xTg-AD Mice
Dong-Hyun Kim
- 200 Comparison of Anthropometric and Physical Fitness Characteristics of Korean Female Professional Basketball Players by Class and Playing Position
Eun-Kyoung Park, Jun-Su Kim, Dong-Ho Park
- 209 Acute Effects of Aerobic Treadmill Exercise Intensity on Expression of Irisin and FNDC5 in Male Mouse
Hyun Namgoong, Ji-sung Lee, Jae-Geun Kim, Sewon Lee
- 217 Validation of Physical Activity Promotion System's Step-test and Estimation of Maximal Oxygen Uptake
On Lee, Chung Jin-Wook
- 225 The Effects of Acute Exercise on RANKL/RANK/OPG pathway and Bone Metabolic Markers in Healthy College Female
Ji-Yeon Kim, Hyo-Jin Kim, Dong-Ho Park, Yun-A Shin, Seok-Ki Min, Chang-Sun Kim
- 232 Effects of a Single of Bout Exercise on the Macrophage Phenotypic ratio in the Adipose Tissue of High-Fat Diet-Induced Obese Mice
Baek Kyung-Wan

목 차

제27권 3호 2018년 8월

총설

169 Evidence of Neuroplasticity and Neuroimaging Techniques following Anterior Cruciate Ligament Injury
Yong Woo An

177 혈관기능 향상성을 위한 유산소성 운동과 미토콘드리아
이호준, 김기정, 이민철, 변경호, 김지석

원저

184 대한민국 해군 근골격계 부상 역학 조사 연구
장은욱, 정은진, 김양태

191 트레드밀 운동이 고지방식으로 유도된 알츠하이머 치매 마우스에서 인슐린 수용체, 산화 스트레스 및 시냅스 가소성 장애에 미치는 효과
김동현

200 여자프로농구 선수들의 주전·비주전 및 포지션별 신체계측 및 체력 요인의 비교
박은경, 김준수, 박동호

209 1회성 유산소 트레드밀 운동 강도가 수컷 마우스의 irisin 및 FNDC5 발현에 미치는 영향
남궁현, 이지성, 김재근, 이세원

217 학생건강체력검사 스텝검사의 타당도 확인 및 최대산소섭취량 추정
이은, 정진욱

225 1회성 운동이 건강한 여대생의 RANKL/RANK/OPG pathway 및 골대사 지표에 미치는 영향
김지연, 김효진, 박동호, 신윤아, 민석기, 김창선

232 고지방식이로 유도된 비만 마우스의 지방조직에서 일회성 운동이 대식세포 표현형 비율 변화에 미치는 영향
백경완



