



Open Journal of Animal Sciences





Journal Editorial Board

ISSN 2161-7597 (Print) ISSN 2161-7627 (Online)

http://www.scirp.org/journal/ojas

Editor-in-Chief

Prof. Young W. Park Fort Valley State University, USA

Associate Editors

Prof. Elsayed Ibrahim Elagamy Al-Qassim University, Saudi Arabia

Dr. Byeng Ryel MinTuskegee University, USA

Editorial Board

Prof. Mahmoud Mohamed Ahmed Abdel-Aziz King Faisal University, Saudi Arabia

Prof. Adel Abdallah Abdel-Ghani Minia University, Egypt

Prof. Ahmed A. Al-Haidary King Saud University, Saudi Arabia

Prof. Berna Arda Ankara University School of Medicine, Turkey

Prof. Osama Ibrahim Azawi University of Mosul, Iraq

Prof. Klaus-Peter Brüssow Leibniz Institute for Far Animal Biology (FBN) Dummerstorf, Germany

Prof. Ivan Cunha Bustamante FilhoUniversidade Federal do Rio Grande do Sul, BrazilProf. Suresh Dinkar KharcheCentral Institute for Research on Goats, India

Prof. Oguz KulKirikkale University, TurkeyProf. Zissis MamurisUniversity of Thessaly, GreeceDr. Rahul Mahavir NandreKansas State University, USA

Prof. Ahmad Oryan Shiraz University, Iran

Prof. Paolo PolidoriUniversity of Camerino, ItalyProf. H. P. PuttarajuBangalore University, IndiaDr. Mrigendra RajputMedgene Labs LLC, USA

Prof. Ali SaadounUniversity of the Republic, UruguayDr. Newton Soares da SilvaUniversidade do Vale do Paraiba, BrazilProf. Augusto VitaleItalian National Institute of Health, Italy

Prof. Qiao Wang Massey University, New Zealand

Prof. Wolfgang Johann WeningeCentre for Anatomy and Cell Biology, Austria

Prof. Hongli YanGenomic Medicine Institute, ChinaProf. Arda YildirimGaziosmanpasa University, TurkeyProf. Moustafa M. ZeitounQassim University, Saudi ArabiaProf. Huitong ZhouLincoln University, New Zealand



Volume 8 Number 3

ISSN Online: 2161-7627 ISSN Print: 2161-7597

July 2018

Table of Contents

Poultry By-Product Meals as Partial Fish Meal Replacement Yielded Higher Somatic Growth in Alsatian Charr (Salvelinus alpinus X fontinalis) than Pork or Vegetable-Based Fish Meals
M. J. Kainz, H. H. Hager, E. Schneeberger
Effect of Tannin in Green Tea By-Product in Combination with Bio-Char Supplemented into Basal Beef Cattle Diet on Nutrient Digestibility, Methane Production and Animal Performance
M. A. Khoa, N. H. Quang, T. V. Thang, T. V. Phung, T. T. Kien
The Correlation between the Activities of Digestive Enzymes in the Pancreas and Blood Serum in Chicken
V. G. Vertiprakhov, A. A. Grozina, V. I. Fisinin, I. A. Egorov
Age and Gender Dependent Amino Acid Concentrations in the Feather, Feather-Free and Whole Empty Body Protein of Fast Growing Meat-Type Chickens
C. Wecke, D. R. Khan, A. Sünder, F. Liebert
Artificial Insemination Service Efficiency and Constraints of Artificial Insemination Service in Selected Districts of Harari National Regional State, Ethiopia
B. Engidawork
Effect of Locality, Host Species and Sex on the Metazoan Parasitic Infestation of Two, Species of Scarus Fish from the Red Sea Coast at Jeddah and Rabigh in Saudi Arabia
A. O. Bakhraibah252
Effects of the Partial Replacement of Soybean Meal by Insect or Algae Meal in Chicken Diets with Graded Amino Acid Supply on Parameters of Gut Microbiology and Dietary Protein Quality
S. Velten, C. Neumann, J. Schäfer, F. Liebert
Pig Social Status and Chronic Cold or Crowd Stressors Differentially Impacted Immune Response
J. L. Salak-Johnson, S. R. Webb
Effects of the Consumption of Macleaya cordata Extract Preparation by Sows
R. A. Matulka, J. Dohms.
Rearing Performance of Juvenile Brown Trout (Salmo trutta) Subjected to Exercise and Dietary Bioprocessed Soybean Meal
J. M. Voorhees, M. E. Barnes, S. R. Chipps, M. L. Brown

Open Journal of Animal Sciences, 2018, 8, 191-355





ISSN Online: 2161-7627 ISSN Print: 2161-7597

On the Separation Mechanism between a Shark's Tooth and Its Jaw Base, with Special Emphasis on an Observation Made from a White Shark, <i>Carcharodon carcharias</i>	\$
E. K. Ritter, A. Dellios.	329
Hair Analysis of Mammals of Brazilian Wildlife for Forensic Purposes	
T. M. Tremori, F. M. M. Garcia, L. M. M. Flórez, B. P. Gonçalves, B. W. D. F. de Camargo, C. Gwinnett, C. R. Teixeira, N. S. Rocha	335
Evaluation of a Rumen Protected Omega 3 Supplement for Reproduction in Dairy Cows as Determined in Three Large Herd Field Trials	
M. Ballard, A. T. Byrd.	346

Open Journal of Animal Sciences (OJAS) Journal Information

,0411141 11110111141101

SUBSCRIPTIONS

The *Open Journal of Animal Sciences* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2018 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:

Copyright © 2018 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ojas@scirp.org



Open Journal of Animal Sciences

ISSN 2161-7597 (Print) ISSN 2161-7627 (Online) http://www.scirp.org/journal/ojas

Editor-in-Chief

Prof. Young W. Park

Fort Valley State University, USA

Editorial Board

Prof. Mahmoud Mohamed Ahmed Abdel-Aziz

Prof. Adel Abdallah Abdel-Ghani

Prof. Ahmed A. Al-Haidary

Prof. Berna Arda

Prof. Osama Ibrahim Azawi

Prof. Klaus-Peter Brüssow

Prof. Ivan Cunha Bustamante Filho

Prof. Suresh Dinkar Kharche

Prof. Oguz Kul Prof. Zissis Mamuris Dr. Rahul Mahavir Nandre Prof. Ahmad Oryan Prof. Paolo Polidori

Prof. H. P. Puttaraju Dr. Mrigendra Rajput

Dr. Mrigendra Rajput Prof.Ali Saadoun Dr. Newton Soares da Silva Prof. Augusto Vitale Prof. Qiao Wang

Prof. Wolfgang Johann Weninge

Prof. Hongli Yan

Prof. Arda Yildirim Prof. Moustafa M. Zeitoun

Prof. Huitong Zhou

Open Journal of Animal Sciences (OJAS) is an international journal dedicated to the latest advancement of animal sciences. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of animal sciences. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Animal Behavior
- Animal Cognition
- Animal Conservation
- Animal Ecology
- Animal Genetics
- Animal Physiology and Nutrition
- Animal Products and Processing
- Animal Reproduction
- Breeding and Genetics

- Embryo Manipulation
- Environment and Housing
- Ethology and Welfare
- Feeds and Feeding
- Food Evaluation
- Livestock Economics
- Nutrition and Digestion
- Physiology and Endocrinology

E-mail: ojas@scirp.org

Tropical Animal Health and Production

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Website and E-Mail

http://www.scirp.org/journal/ojas