

Tentative Outline

Special Issue for Current Metabolomics

(Avianomics: Beginning at the end)

Guest Editor: Sami Dridi

Aims & Scope:

Poultry meat supports the livelihoods and food security of billions of people. However, it is facing several challenges from a steep projected increase in global demand for high quality protein and the need to adapt to environmental contrasts, droughts, and the pressure on natural resource availabilities (water, land, energy) due to climate changes. Thus, intensive fundamental and applied research are needed to improve poultry production sustainability. New techniques involving genomics, epigenetics, proteomics, transcriptomics, mobilomics and metabolomics are now making their ways to solve these problems. This topic will highlight the most recent omics advances in poultry.

Keywords: Poultry, stress, omics, health, feed efficiency, well-being, reproduction

Subtopics:

Dr. Jana Seifert

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Title: gastrointestinal microbiota in health and disease: use of omics technology

Dr. Byung-Whi Kong

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Title: proteo-transcriptomics and feed efficiency in poultry

Dr. Joseph Corbo

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Title: Transcriptome profiling and avian photoreceptor diversification

Dr. Behnam Abasht

University of Delaware (abasht@udel.edu)

Title: Metagenomics and woody breast in chickens

Dr. Brynn H Voy

University of Tennessee (bhvoy@utk.edu)

Title: Transcriptomic and metabolomics profiling of chicken adipose tissue biology

Dr. Molette C.

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Title: Functional genomics and stress response in chickens

Dr. Colette Desert

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Title: Identification of biomarkers for phenotypic and physiological disorders: use of whole blood transcriptomics

Dr. Blebois E

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Title: use of omics to identify molecular markers for male chicken fertility

Dr. Ning Qiu

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Title: proteomics and poultry egg white protein quality

Dr. Zhao Guiping

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Title: Avian influenza and host cell interactome

Dr. Rath NC

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Title: Omics and identification of femoral head necrosis (FHN)-related markers

Schedule:

- ✧ Manuscript submission deadline: **October 29, 2017**
- ✧ Peer Review Due: **November 30, 2017**
- ✧ Revision Due: **December 31, 2017**
- ✧ Announcement of acceptance by the Guest Editors: **January 15, 2018**
- ✧ Final manuscripts due: **January 15, 2018**

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