Network Biology

The Network Biology (ISSN 2220-8879) is an open access, peer-reviewed online journal that considers scientific articles in all different areas of network biology. It is the transactions of the International Society of Network Biology. It dedicates to the latest advances in network biology. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas. The topics to be covered by Network Biology include, but are not limited to:

- Theories, algorithms and programs of network analysis
- Innovations and applications of biological networks
- Ecological networks, food webs and natural equilibrium
- Co-evolution, co-extinction, biodiversity conservation
- Physiological networks
- Network regulation of metabolic processes, human diseases and ecological systems
- Social networks, epidemiological networks
- System complexity, self-organized systems, emergence of biological systems, agent-based modeling, individual-based modeling, neural network modeling, etc.

We are also interested in short communications that clearly address a specific issue or completely present a new ecological network, food web, or metabolic or gene network, etc.

Authors can submit their works to the email box of this journal, networkbiology@iaees.org and(or) wzhang@iaees.org. All manuscripts submitted to Network Biology must be previously unpublished and may not be considered for publication elsewhere at any time during review period of this journal.

In addition to free submissions from authors around the world, special issues are also accepted. The organizer of a special issue can collect submissions (yielded from a research project, a research group, etc.) on a specific topic, or submissions of a conference for publication of special issue.

Editorial Office: networkbiology@iaees.org

Publisher: International Academy of Ecology and Environmental Sciences
Address: Flat C, 23/F, Lucky Plaza, 315-321 Lockhart Road, Wanchai, Hong Kong
Tel: 00852-6555 7188
Fax: 00852-3177 9906
E-mail: office@iaees.org
**Network Biology**  
ISSN 2220-8879  
Volume 3, Number 3, 1 September 2013

**Articles**

**Functional interactome of Aquaporin 1 sub-family reveals new physiological functions in *Arabidopsis Thaliana***  
Mohamed Ragab Abdel Gawwad, Jasmin Šutković, Lavinija Mataković, et al.  
87-96

**Controlling ecological and biological networks via evolutionary modeling**  
Alessandro Ferrarini  
97-105

**Hierarchicalization of chaotic food webs using Interpretive Structural Modeling**  
Ping Liang, WenJun Zhang  
106-114

The International Academy of Ecology and Environmental Sciences (IAEES) is a nonprofit and registered international organization. It devotes to promote global ecology and environmental sciences and protect global ecological environments, by publishing scientific publications, conducting research activities, launching environmental programs, disseminating knowledge and technologies, sponsoring conferences, and providing information and discussion spaces, etc. The responsibility for these publications rests with the International Academy of Ecology and Environmental Sciences.

**IAEES**  