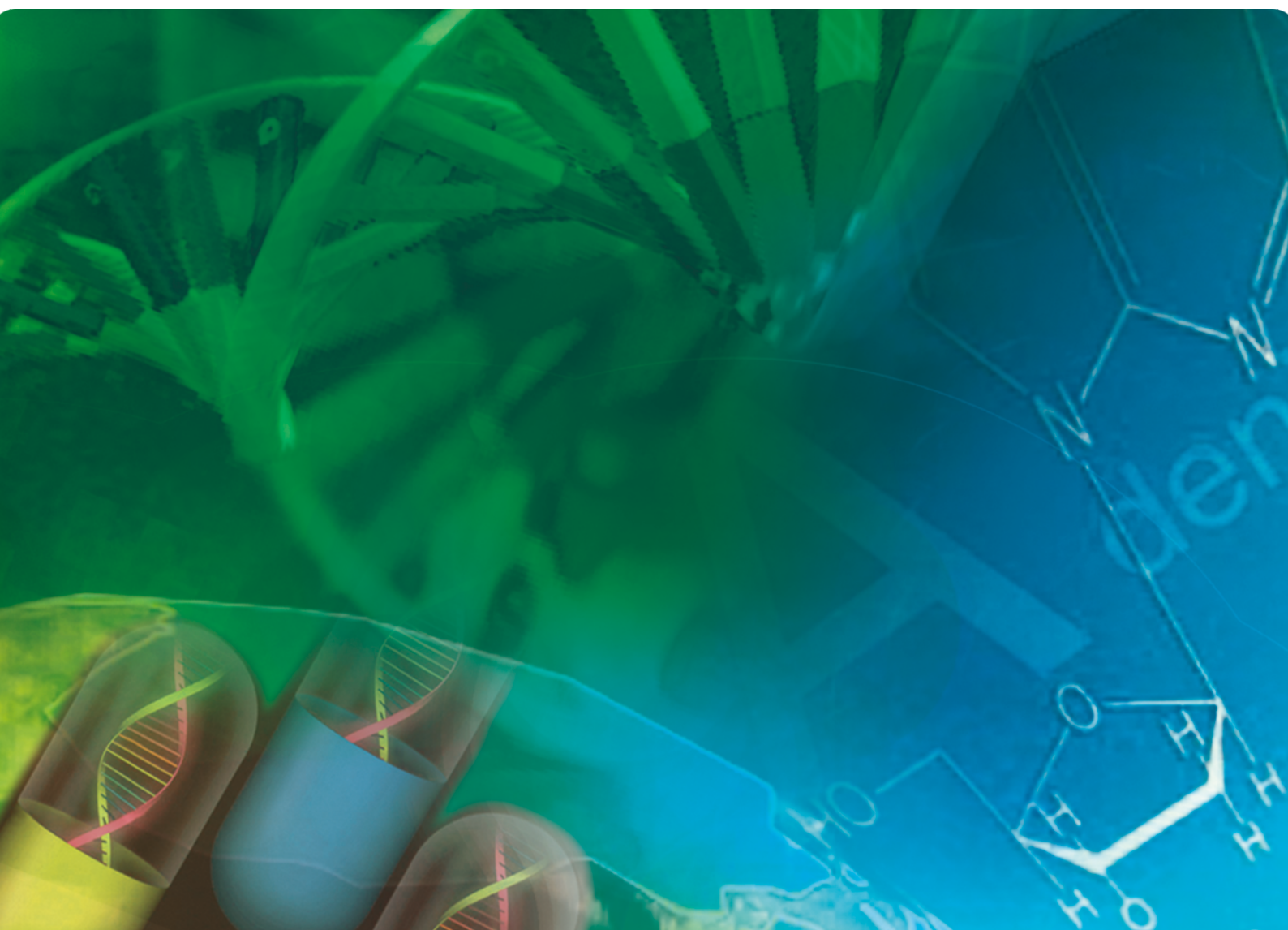


ISSN: 2161-6620 Volume 11, Number 4, October 2021



American Journal of Molecular Biology



ISSN: 2161-6620



<https://www.scirp.org/journal/ajmb>

Journal Editorial Board

ISSN Print: 2161-6620 ISSN Online: 2161-6663

<https://www.scirp.org/journal/ajmb>

Editor-in-Chief

Prof. Wei Du

The University of Chicago, USA

Editorial Board

Dr. Eran R. Andrechek

Michigan State University, USA

Prof. Deepak Bastia

Medical University of South Carolina, USA

Prof. Richard A. Cardullo

University of California, USA

Dr. Yangchao Chen

Chinese University of Hong Kong, China

Prof. Yi-Han Chen

Tongji University, China

Prof. James CS Chim

University of Hong Kong, China

Dr. Nelson W. Chong

University of Leicester, UK

Dr. François-Xavier Claret

University of Texas, USA

Dr. Mei-Zhen Cui

University of Tennessee, USA

Dr. J. Nathan Davis

Quinnipiac University, USA

Prof. Emmanuel Dias-Neto

AC Camargo Hospital, Brazil

Dr. Kangmin Duan

University of Manitoba, Canada

Dr. Steven N. Fiering

Dartmouth Medical School, USA

Prof. Juraj Gregan

University of Vienna, Austria

Prof. Kun He

Monsanto Company, USA

Dr. Liping Huang

USDA/ARS/Western Human Nutrition Research Center, USA

Prof. Cizhong Jiang

Tongji University, China

Prof. Peng Lee

New York University, USA

Prof. Lian Li

Emory University, USA

Prof. Manoel Lima

Instituto Aggeu Magalhães, Brazil

Prof. Shu-Lin Liu

Harbin Medical University, China

Prof. Yuin-Han Jonathan Loh

Children's Hospital Boston, USA

Dr. Jianxin Ma

Purdue University, USA

Prof. Azzam A. Maghazachi

University of Oslo, Norway

Dr. Murali K. Mamidi

University of Oklahoma, USA

Dr. Hengye Man

Boston University, USA

Prof. Jacques E. Nör

University of Michigan, USA

Prof. John S. O'Neill

University of Cambridge, UK

Prof. Giulio Maria Pasinetti

Mount Sinai School of Medicine, USA

Dr. Vickas V. Patel

University of Pennsylvania, USA

Dr. Manuel Narváez Peláez

University of Málaga, Spain

Dr. Rosario Osta Pinzolas

University of Zaragoza, Spain

Prof. Bimal K. Ray

University of Missouri-Columbia, USA

Dr. Elias Said

Sultan Qaboos University, Oman

Dr. Honglian Shi

University of Kansas, USA

Prof. Bronislaw L. Slomiany

Rutgers School of Dental Medicine, USA

Dr. Teruko Taketo

McGill University, Canada

Dr. Olga Vinogradova

University of Connecticut, USA

Dr. Tzung-Dau Wang

National Taiwan University, China

Prof. David S. Waugh

NCI-Frederick, USA

Dr. Jian-Jun Wei

Northwestern University, USA

Prof. Gayle E. Woloschak

Northwestern University, USA

Prof. Xiang-Qun (Sean) Xie

University of Pittsburgh, USA

Dr. Yunfeng Zhao

LSU Health Sciences Center, USA

Dr. Jing Zheng

Northwestern University, USA

Table of Contents

Volume 11 Number 4

October 2021

Prediction of Monophyletic Groups Based on Gene Order and Sequence Similarity in Organelle DNA

M. Cserhati.....83

Occurrence, Molecular Characterization and Phylogenetic Relationship of *Aspergillus* Species Isolated from Garri Sold in Benue State, North Central, Nigeria

I. O. Ogbonna, I. U. Amai, C. U. Aguoru, D. C. Amai.....100

Nanobody cDNA Mock-Up in pHEN6c Plasmid Vector: Live Out

T. F. Jember.....116

Molecular Cloning, Expression and Purification of Recombinant VHH Proteins Expressed in *E. coli*

T. F. Jember.....129

Morphological, Pathological, Biochemical and Molecular Characterization of *Ralstonia solanacearum* Isolates in Bangladesh

S. Razia, M. S. M. Chowdhury, F. M. Aminuzzaman, N. Sultana, M. Islam.....142

The Anti-Sickling Properties of Medicinal Plants, Insights in Botanical Medicine

I. Krasias.....165

American Journal of Molecular Biology (AJMB)

Journal Information

SUBSCRIPTIONS

The *American Journal of Molecular Biology* (Online at Scientific Research Publishing, <https://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 © 2021 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 © 2021 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: ajmb@scirp.org

Call for Papers

American Journal of Molecular Biology (AJMB)

ISSN 2161-6620 (Print) ISSN 2161-6663 (Online)

<https://www.scirp.org/journal/ajmb>



American Journal of Molecular Biology (AJMB) is an international journal dedicated to the latest advancement of molecular biology. 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 molecular biology. 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.

Editorial Board

Dr. Eran R. Andrechek
Prof. Deepak Bastia
Prof. Richard A. Cardullo
Dr. Yangchao Chen
Prof. Yi-Han Chen
Prof. James CS Chim
Dr. Nelson W. Chong
Dr. François-Xavier Claret
Dr. Mei-Zhen Cui
Dr. J. Nathan Davis
Prof. Emmanuel Dias-Neto
Dr. Kangmin Duan

Dr. Steven N. Fiering
Prof. Juraj Gregan
Prof. Kun He
Dr. Liping Huang
Prof. Cizhong Jiang
Prof. Peng Lee
Prof. Lian Li
Prof. Manoel Lima
Prof. Shu-Lin Liu
Prof. Yui-Han Jonathan Loh
Dr. Jianxin Ma
Prof. Azzam A. Maghazachi

Dr. Murali K. Mamidi
Dr. Hengye Man
Prof. Jacques E. Nör
Prof. John S. O'Neill
Prof. Giulio Maria Pasinetti
Dr. Vickas V. Patel
Dr. Manuel Narváez Peláez
Dr. Rosario Osta Pinzolas
Prof. Bimal K. Ray
Dr. Elias Said
Dr. Honglian Shi
Prof. Bronislaw L. Slomiany

Dr. Teruko Taketo
Dr. Olga Vinogradova
Dr. Tzung-Dau Wang
Prof. David S. Waugh
Dr. Jian-Jun Wei
Prof. Gayle E. Woloschak
Prof. Xiang-Qun (Sean) Xie
Dr. Yunfeng Zhao
Dr. Jing Zheng

The journal publishes original papers including but not limited to the following fields:

- Algorithms for Molecular Biology
- Biochemistry and Molecular Biology
- Biophysics and Molecular Biology
- Cellular & Molecular Biology
- Electrophoresis
- Gene Expression
- Genomics
- GH Family
- Insect Biochemistry and Molecular Biology
- Insect Molecular Biology
- Microbiology and Molecular Biology
- Molecular Biology and Evolution
- Molecular Biology of the Cell
- Molecular Biology Techniques
- Molecular Evolution
- Molecular Genetics
- Molecular Neuroscience
- Peptides
- Physiology and Molecular Biology of Plants
- Plant Molecular Biology
- Proteins
- Steroid Biochemistry and Molecular Biology

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.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

Website and E-Mail

<https://www.scirp.org/journal/ajmb>

E-mail: ajmb@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research
Publishing**

Website: <https://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org