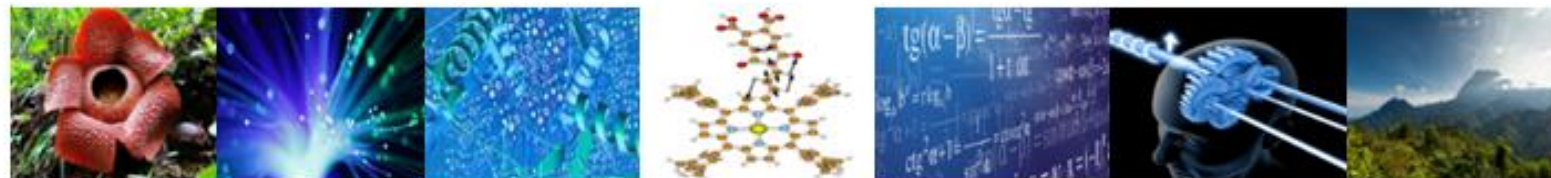
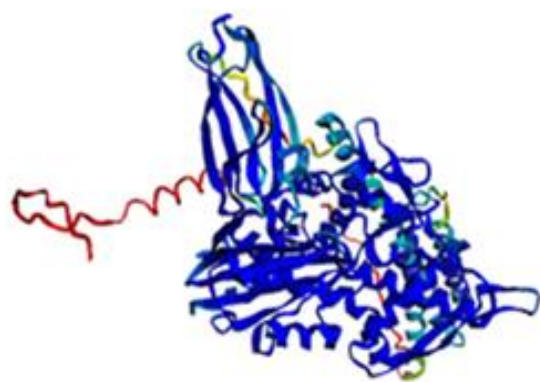


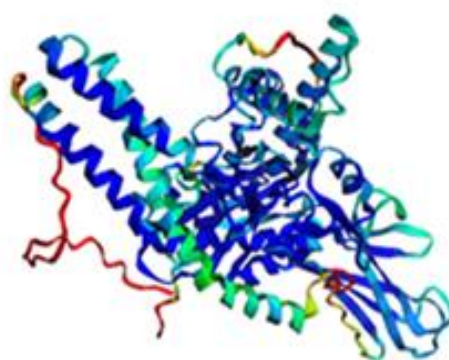
TRANSACTIONS ON SCIENCE AND TECHNOLOGY



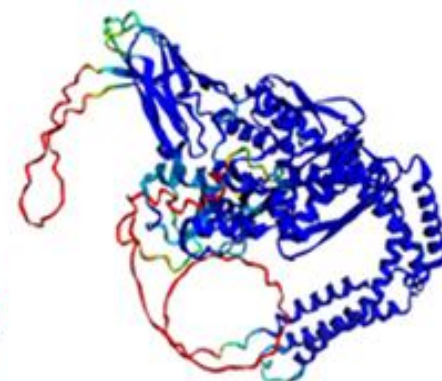
Volume 10 Issue No 3
September 2023



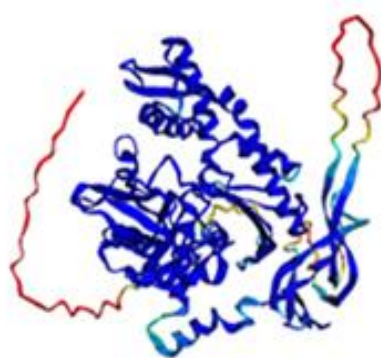
gahsp70-1



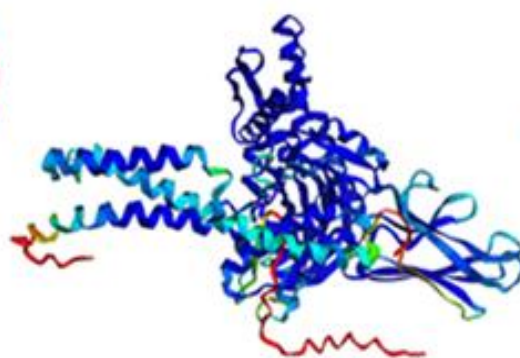
gahsp70-2



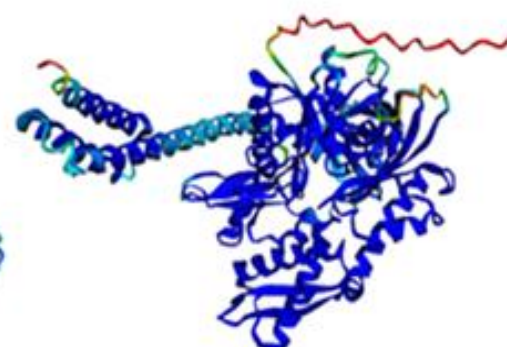
gahsp70-3



gahsp70-4



gahsp70-5



gahsp70-6

pI00T: ■ Very low (<50) ■ Low (60) ■ OK (70) ■ Confident (80) ■ Very high (>90)

3-D homology model rendered by the Alpha Fold 2 (AF2)

ISSN 2289-8786 (online)

Transactions on Science and Technology

Volume 10, Issue Number 3, September 2023

E-ISSN: 2289-8786

Editors-in-Chief

- | | |
|--|--|
| <p>Jedol Dayou
Energy, Vibration and Sound Research Group (e-VIBS),
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.
jed[at]jums.edu.my</p> | <p>Khim Phin Chong (Special Issue)
Biotechnology Programme,
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.
chongkp[at]jums.edu.my</p> |
|--|--|

Managing Editor

- | | |
|---|--|
| <p>Fui Pien Chee
Energy, Vibration and Sound Research Group (e-VIBS),
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.
fpchee06[at]jums.edu.my</p> | <p>Asmahani Awang
Energy, Vibration and Sound Research Group (e-VIBS),
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.
asmahani_awang[at]jums.edu.my</p> |
|---|--|

Editorial Board

- | | |
|---|---|
| <p>Aini Janteng
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> | <p>Ammielle Akim Kerudin
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Andy Russel Immit Mojiol
Faculty of Tropical Forestry,
Universiti Malaysia Sabah.</p> | <p>Chong Mun Ho
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Coswald Stephen Sipaut @ Mohd Nasri
Faculty of Engineering,
Universiti Malaysia Sabah.</p> | <p>Ismail Jusoh
Faculty of Resource Science and Technology,
Universiti Malaysia Sarawak.</p> |
| <p>Jidon Adrian Janaun
Faculty of Engineering,
Universiti Malaysia Sabah.</p> | <p>Jualang Azlan Gansau
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Ko Ying Hao
Faculty of Engineering and Technology,
Tunku Abdul Rahman University of Management and Technology</p> | <p>Leong Wan Vun
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Mohd Kamel Wan Ibrahim
Faculty of Engineering,
Universiti Malaysia Sabah.</p> | <p>Moh Pak Yan
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Noumie Surugau
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> | <p>Ping Chin Lee
Faculty of Science and Natural Resources,
Universiti Malaysia Sabah.</p> |
| <p>Rachel Fran Mansa
Faculty of Engineering,
Universiti Malaysia Sabah.</p> | <p>Raseetha Vani Siva Manikam
Faculty of Applied Sciences,
Universiti Teknologi MARA Shah Alam.</p> |
| <p>Sebastian Dayou
School of Engineering & Technology,
University College of Technology Sarawak.</p> | <p>Thomas Moh Shan Yau
School of Engineering & Technology,
University College of Technology Sarawak.</p> |
| <p>Yeong Sheng Tey
Institute of Agricultural and Food Policy Studies,
Universiti Putra Malaysia.</p> | |

International Editorial Board

- | | |
|---|---|
| <p>Baba Musta
Universiti Malaysia Sabah, Sabah, Malaysia</p> | <p>Cesar G. Demayo
Mindanao State University-Iligan Institute of Technology,
Philippines</p> |
| <p>Francisco Nuñez De Caceres
Universidad Autonoma del Estado de Hidalgo, Mexico</p> | <p>Mariam Gaidamashvili
Iv. Javakishvili Tbilisi State University, Georgia</p> |
| <p>Patricia Anthony
Lincoln University, New Zealand</p> | |

Associate Editor

Jackson Chang, Malaysia

Associate Editors (Special Issue)

<p>Arnnyitte Alexander Malaysia</p>	<p>Syahriel Abdullah Malaysia</p>
--	--

African Continent Section***Editor-in-Chief***

Gbenga Festus Akomolafe, *Federal University of Lafia, Nigeria.*
gbenga.akomolafe[at]science.fulafia.edu.ng

Editorial Board

Terna Tersoo Paul **Akwashiki Ombugadu**
Federal University of Lafia, Nigeria *Federal University of Lafia, Nigeria*

Transactions on Science and Technology

Volume 10, Issue Number 3, September 2023

Table of Contents

<i>Wan Nur Shuhaida Wan Mahadi; Clemente Michael Wong Vui Ling; Hyun Park; Nur Athirah Yusof</i>	122	<i>In silico</i> analysis and structure modelling of heat shock protein HSP70 from <i>Glaciozyma antarctica</i> PI12 as a model system to understand adaptation strategies of Antarctic organisms amid adverse climates
<i>Nur Fadzilah Mohamad Radzi; Azura Che Soh; Asnor Juraiza Ishak; Mohd Khair Hassan</i>	150	Herbs recognition based on chemical properties using machine learning algorithm
<i>Mazlan Mohamed; Nor Rohimah Abdullah; Jidon Janaun; Hasyiya Karimah Adli; Mohamad Faiz Mohd Amin; Arman Shah; Muhammad Iqbal Ahmad</i>	156	Epoxy-Graphene composite reinforced with bamboo biochar powder: Effect on mechanical properties
<i>Umra Sumina Mohamed Telidi; Nora Salina Md Salim</i>	164	Effect of ball milling time on structural properties and colour analysis of calamansi (<i>Citrus microcarpa</i>) peel powder
<i>Nur Athirah Hashim; Azlinda Abu Bakar</i>	170	The isolation of human intestinal parasites from American cockroach: A preliminary study