

MICROBIAL BIOSYSTEMS' EDITORIAL BOARD

EDITOR-IN-CHIEF

A.M. ABDEL-AZEEM, Botany and Microbiology Department, Faculty of Science, University of Suez Canal, Egypt. E-mail: ahmed_abdelazeem@science.suez.edu.eg

DEPUTY EDITOR-IN-CHIEF

- V. K. GUPTA, Mohammed VI Polytechnic University, Morocco.
B. P. SINGH, National Institute of Food Technology Entrepreneurship & Management (NIFTEM), India.
A. M. ABU-ELSAOUD, University of Suez Canal, Ismailia 41522, Egypt.
A. M. GALAL DARWISH, City of Scientific Research and Technological Applications, Alexandria, Egypt.
T. A. MOHAMED, Dental Basic Sciences Department, College of Dentistry, University of Duhok, Iraq.

EDITORS

- A. A. ELKELISH, University of Suez Canal, Egypt.
A. K. AWASTHI, Tsinghua University, China.
A. N. YADAV, Eternal University, India.
A. O'DONOVAN, National University of Ireland Galway, Ireland.
B. K. SARMA, Banaras Hindu University, India.
C. NAYAKA, University of Mysore, India.
F. J. SIMÕES CALACA, University of Brasília, Brazil.
G. D. GODINEZ, Universidad Autónoma de Tlaxcala, Mexico.
J. CHEN, Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, China.
J. P. VERMA, Hawkesbury Institute for the Environment, Australia.
D. H. SHEIR, National Research Centre, Egypt.
J. S. SINGH, Babasaheb Bhimrao Ambedkar (Central) University, Uttar Pradesh, India.
K. DASHORA, Indian Institute of Technology, Delhi, India.
K. SRIDHAR, Department of Biosciences, Mangalore University, Karnataka, India.
M. C. PAGANO, Federal University of Minas Gerais, Brazil.
M. SHARMA, Estonian University of Life Sciences (EMU), Estonia.
N. A. NAFADY, Assiut University, Egypt.
G. SAXENA, Jawaharlal Nehru University, India.
H. I. M. IBRAHIM, Faculty of Education, Ain Shams University, Egypt.
M. A. ABDEL RAHMAN, Faculty of Science, Suez Canal University, Egypt.
R. PRASAD, Sun Yat-Sen University, Guangzhou, China.
S. AMRANI, Houari Boumediène University of Sciences and Technology, Algeria.
P. ANGELINI, University of Perugia, Italy.
R. KUMAR, National Fungal Culture Collection of India, India.
S. XAVIER-SANTOS, University of Goiás State, Brazil.
S. P. ÁLVAREZ, the Centro Interdisciplinario de Investigación para el Desarrollo Integral Regional, Mexico.
S. RODRIGUEZ-COUTO, Unit of Environmental Engineering, Donostia-San Sebastian, Spain
T. N. S. ISMAIL, Food Industries and Nutrition Division, National Research Centre, Egypt.
T. S. ABDELMONEIM, University of Suez Canal, Egypt.
W. EBRAHIM, Mansoura University, Egypt.
S. GHOSH, University of Free State, South Africa
Y. SU LEE, Kangwon National University, Republic of Korea.
Z. USMANI, Tallinn University of Technology (TalTech), Estonia.
F. DEGOLA, University of Pari, Italy.
W. LAKHDARI, Institute of Agronomic Research of Algeria, Algeria.
L. HAJJI-HEDFI, Regional Centre of Agricultural Research of Sidi Bouzid, Tunisia.
N. YOUSAF, Government College University Lahore, Pakistan.
S. SARWAR, Lahore College for Women University, Pakistan.
S. SELIM, Jouf University, Saudi Arabia.
A. NASSER, University of the Punjab, Pakistan.

FEATURE EDITORS

- B. A. **BALBOOL**, October University for Modern Sciences and Arts, Egypt.
M. T. **ABDEL-WARETH**, Theodor Bilharz Research Institute, Egypt.
F.J. **TARIQ**, University of Health Sciences, Lahore, Pakistan.
C. **VARGAS-DE-LA-CRUZ**, Universidad Nacional Mayor de San Marcos, Perú.
H. H. **ABO NAHAS**, University of Suez Canal, Ismailia 41522, Egypt.
M. A. **Abd EL AZEEM**, University of Sinai, Al-Arish, Egypt.
Y. A. **EL-MARADNY**, University of Alexandria, Alexandria, Egypt.

Caption for cover image

SEM of *Brucella abortus* Photograph by Dennis Kunkel.