

ISSN: 2327-5081    Volume 13, Number 10, October 2025



# Journal of Biosciences and Medicines



ISSN: 2327-5081



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

# Journal Editorial Board

ISSN 2327-5081 (Print) ISSN 2327-509X (Online)

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

---

## Editor-in-Chief

**Prof. Ahsan Jamil Kazi**

Universiti Teknologi, Malaysia

## Editorial Board

**Prof. Joaquim Carreras**

Tokai University, Japan

**Dr. Laura Ciapponi**

Sapienza University of Rome, Italy

**Prof. Hülya Cicek**

Gaziantep University, Türkiye

**Prof. Jade Q. Clement**

Texas Southern University, USA

**Prof. Maxim Crasta**

Lake Erie College of Osteopathic Medicine, USA

**Dr. Gokul C. Das**

Baylor College of Medicine, USA

**Prof. Afaf K. El-Ansary**

King Saud University, Saudi Arabia

**Prof. Dayong Gao**

University of Washington, USA

**Prof. Loris Grossi**

Università di Bologna, Italy

**Prof. Crystell Guadalupe Guzmán-Priego**

Universidad Juárez Autónoma de Tabasco, Mexico

**Prof. William Edward Hammond**

Duke University, USA

**Dr. Christer Jansson**

Pacific Northwest National Laboratory, USA

**Prof. Satish Kumar**

University of Texas Rio Grande Valley, USA

**Dr. Igor Malyshev**

Institute of General Pathology and Pathophysiology RAMS,  
Russia

**Prof. Roberto Manfredi**

University of Bologna, Italy

**Prof. Merlyn Sedano Mendioro**

University of the Philippines Los Banos, Philippines

**Dr. Lisa M. Minter**

University of Massachusetts/Amherst, USA

**Prof. Jean Marie Rodrigues**

Université Jean Monnet Saint Etienne, France

**Prof. Golder N. Wilson**

TTUHSC, USA

**Dr. Xiangru Xu**

Yale University, USA

**Prof. Gang Yang**

Zhuji Affiliated Hospital of Shaoxing University, China

**Prof. Barbara Zavan**

Ferrara University, Italy

# Table of Contents

**Volume 13    Number 10**

**October 2025**

## **Hepatitis B Virus Seroprevalence in Burkina Faso: A National Population-Based Assessment Fifteen Years after Introduction of the HBV Vaccine**

A. R. Nikiema, K. Cissé, Y. E. Hien, Y. Koné, S. C. Dabiré, I. B. Meda, T. R. Compaoré, A. A. Zoure, T. Sagna, A. Sanou, D. Belemsaga Yugbaré, A. Kagambèga, M. Camara, M. Kaboré, A. Ouedraogo Sondo, G. S. Sanou, S. Kouanda, H. G. Ouedraogo..... 1

## **Sleep Architecture and Efficiency in Older Adults: A Clinical Analysis in the Context of Obstructive Sleep Apnea**

R. Donado-Botero, I. Mesa-Beltrán, I. Tibocha-Gordón, M. Montoya-Jaramillo, K. Mendoza-Leottau, E. Macias-Posada, N. Cerro-Torres, L. M. Sánchez-Ibarra, D. Santoya-Suarez, Y. A. El Rashid Muhammad Osman, D. F. Ortiz-Perez ..... 13

## **Single-Center Evidence that ERAS Reduces Length of Stay and Hospital Costs after Laparoscopic Colectomy for Colon Cancer**

M. Zeng, Y. R. Ren ..... 31

## **Research Progress on the Use and Management of Perioperative Endotracheal Tube Cuffs**

X. Y. Chen, J. P. Dan ..... 39

## **Mechanisms of Different Intestinal Flora in Gastric Cancer**

Y. Q. Guo, Q. Q. Zhang, T. Nyima, Y. Hu ..... 48

## **Awareness of Unintended Pregnancy and Sexually Transmitted Infections among Adolescents and Young Adults in Douala IV Municipality in Cameroon**

C. M. Mohnchimbare, A. B. D. Fankep, H. L. F. Kamga ..... 66

## **Comprehensive Analysis of Prognostic and Diagnostic Value, Immune Infiltration, and Co-Regulation Networks of Centromere Protein Family Members in Pancreatic Ductal Adenocarcinoma**

G. H. Yin, T. Liu, W. Qin ..... 76

## **Research Progress and Prospects on Biomarkers for Endometrial Cancer and New Targets for Precision Diagnosis and Treatment**

G. C. Wang, C. J. Yi ..... 96

## **Five-Year Outcomes of Reverse Total Shoulder Arthroplasty in a Malaysian Tertiary Public Hospital: A Retrospective Cohort Study**

R. A. Jabul, F. B. Kamaruddin, A. A. Rutel ..... 104

## **Progress in Laboratory Indicators of Severe Pertussis in Children**

X. X. Yu, A. M. Li ..... 113

## **Application of Cognitive Behavioral Therapy in Hospice Care of Cancer Patients**

L. L. Tang, Q. Wen ..... 122

## **Research Progress in Neuromodulation Techniques for Promoting Awareness in Patients with Disorders of Consciousness**

H. M. Wei, C. S. Lai ..... 132

## **Optical Coherence Tomography in Lower Extremity Arterioplasty**

Q. W. Luo, W. G. Xu ..... 143

## **Health Literacy Profiles of Palliative Care Patients in a University Hospital in Benin and Associated Factors**

A. Otti, A. J. E. Dossou, E. C. Ahossi, I. Agbété, H. G. C. Adomou, F. Okéléyé, D. Koutchonan, R. Hadékon, M. Misengabu, L. Baba-Moussa, K. A. Agbodandé, C. Sossa Jérôme ..... 153

## **Comprehensive Evaluation and Stability Indication of HPLC-UV and HPLC-FI Methods for the Synchronic Analysis of Three Antihypertension Agents Hydrochlorothiazide, Amlodipine, and Valsartan**

K. H. Abu-Shandi ..... 172

## **Ultrasonography of Fetal Transcerebellar Measurements for Prediction of Gestational Age in Normal Sudanese Pregnancies**

A. H. A. Mohammed, K. E. E. Babeiker, T. O. Ali, M. O. Mustafa, M. M. F. Alhassen ..... 181

## **The Power and the Limits of Zero: Strengths and Pitfalls of CT Coronary Artery Calcium Score in Risk Assessment**

E. C. N. Lim, C. E. D. Lim ..... 196

## **Clinical Utility of C-Reactive Protein-Triglyceride Glucose Index (CTI) and hs-CRP for Distinguishing Obese and Non-Obese Phenotypes of NAFLD: NHANES 2017-2020**

H. Li, C. X. Zou ..... 207

## **Coexistence of Pulmonary Langerhans Cell Histiocytosis and Bronchial Carcinoid Tumor in Systemic Lupus Erythematosus: Coincidence or Autoimmune Association?**

S. I. Al Hamal, M. Al Nasser, Z. Z. Al Zahir ..... 218

## **Drastic Reduction in Household Income following the SARS-CoV-2/COVID-19 Pandemic: Impact on Birth Rates in Italy and on Access to Assisted Reproduction Techniques (ART) in Lazio: Short Review and Observational Study**

F. Sciarra, E. Nardi, S. Nardi, A. Pacchiarotti ..... 226

## **Restoring Male Fertility Impaired by Heavy Metal Exposure: A Study on the Effectiveness of a Combined Antioxidant Supplementation with Coenzyme Q10, Zinc, and D-Aspartic Acid**

F. Sciarra, S. Nardi, A. Pacchiarotti ..... 244

## The Impact of Diet and Nutrition on the Gut-Liver Axis in Cirrhosis and Hepatic Encephalopathy

M. Hassan, R. Bakalov, S. Baset, P. Shethna, D. Patel, A. Weitoshova, N. Qadir, R. Batista ..... 253

## Gastrointestinal Manifestations of Autoimmune Diseases: Diagnostic Implications for Frontline Clinicians

D. F. Ortiz-Pérez, R. A. Revelo-Arcos, J. J. López-Diago, J. D. Pantoja-Torres, E. A. Pillimue-Muelas,  
A. J. Triana-Pomare, F. A. Velasco-Vasquez, C. A. Valencia Urquina, C. M. Mercado-Pineda,  
J. J. Jaramillo-Baena, G. P. Castañeda-Ortega, J. A. Pérez-Sanmiguel, M. A. Jelkh-Salazar ..... 272

## Application of Bronchial Blockers in Thoracic Surgery

Y. J. Liu, H. W. Dan, L. Zhang, Y. F. Wang, M. Zhang ..... 285

## Positron Emission Tomography/Computed Tomography and Magnetic Resonance Imaging Findings of Primary Leiomyosarcoma of the Liver: A Case Report and Literature Review

J. Y. Jiang, J. Y. Cui, Y. J. Peng ..... 292

## Research Progress on the Correlation between Whole Blood Inflammatory Indicators and Pulmonary Embolism

S. B. Wei, C. D. Wei, S. G. Luo ..... 303

## Bioequivalence Assessment of Two Fixed-Dose Formulations of Empagliflozin/Linagliptin (25 mg/5 mg) Coated Tablets in Healthy Subjects under Fasting and Fed Conditions

E. Pena, A. Inatti, A. Taly, J. G. Chacón, M. X. Serrano ..... 320

## Advances in Pharmacological Therapy for Spinal Cord Injury

Q. Y. Zheng, S. M. Xu ..... 342

## Explanatory Factors of Poor Performance in the Routine Distribution of Insecticide-Treated Nets through Immunization Services in the Democratic Republic of Congo

F. B. Phanzu, A. N. Nkabila, G. Ilombe, N. Basosila, B. M. Baangi, JR. N. Musiti, P. M. Mungala,  
M. N. Bakuwa, J. Kanowa, A. K. N'siala, L. N. M. Kintaudi, A. N. Kalonji, P. N. Lukanu,  
J. Losimba Likwela ..... 358

## Identification, Structural Analyses of EXO70 Gene Family in *Arabidopsis* and Functional Analysis of EXO70B1 Employing *Nicotiana benthamiana*

Q. Lin, J. Y. Zeng, P. Jia, K. Chen, H. B. Zhang, J. Z. Huang ..... 375

## Application of Robocare Nursing Mode in Whole-Process Nursing of Domestic Robot-Assisted Radical Prostatectomy

J. Wang, Q. Sun, J. J. Liu, Y. Sang, Y. Liu, H. Wang ..... 386

# Call for Papers



## Journal of Biosciences and Medicines

ISSN 2327-5081 (Print) ISSN 2327-509X (Online)

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

Journal of Biosciences and Medicines is an international journal dedicated to the latest advancement in biosciences and medicines. 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 biosciences and medicines. All manuscripts must be prepared in English and are subject to a rigorous and fair peer-review process. Accepted papers will appear online within 3 weeks followed by printed hard copy.

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

- Biochemistry
- Cancer Research
- Cardiovascular Research
- Cell and Molecular Biology
- Computation Genetics
- Ethics and Government
- Gene Therapy
- Genetic Counseling
- Genetics
- Immunology
- Medical Research
- Microbiology/Virology
- Molecular Diagnostics
- Nanotechnology and Biomedicine, including the Use of Viruses
- Neurology/Neuroscience
- Oncogenetics
- Pathology
- Pharmacology and Toxicology
- Physiology/Biophysics
- Stem Cell Research and Biomedicine, including Diabetes, Cardiovascular Disease, Spinal Cord Injuries, Dementia, Parkinson's Disease, Organ Transplantation
- The Use of "Rational Drug Design" Investigation

### Website and E-mail

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

E-mail: [jbm@scirp.org](mailto:jbm@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](mailto:sub@scirp.org)  
Advertisement: [service@scirp.org](mailto:service@scirp.org)