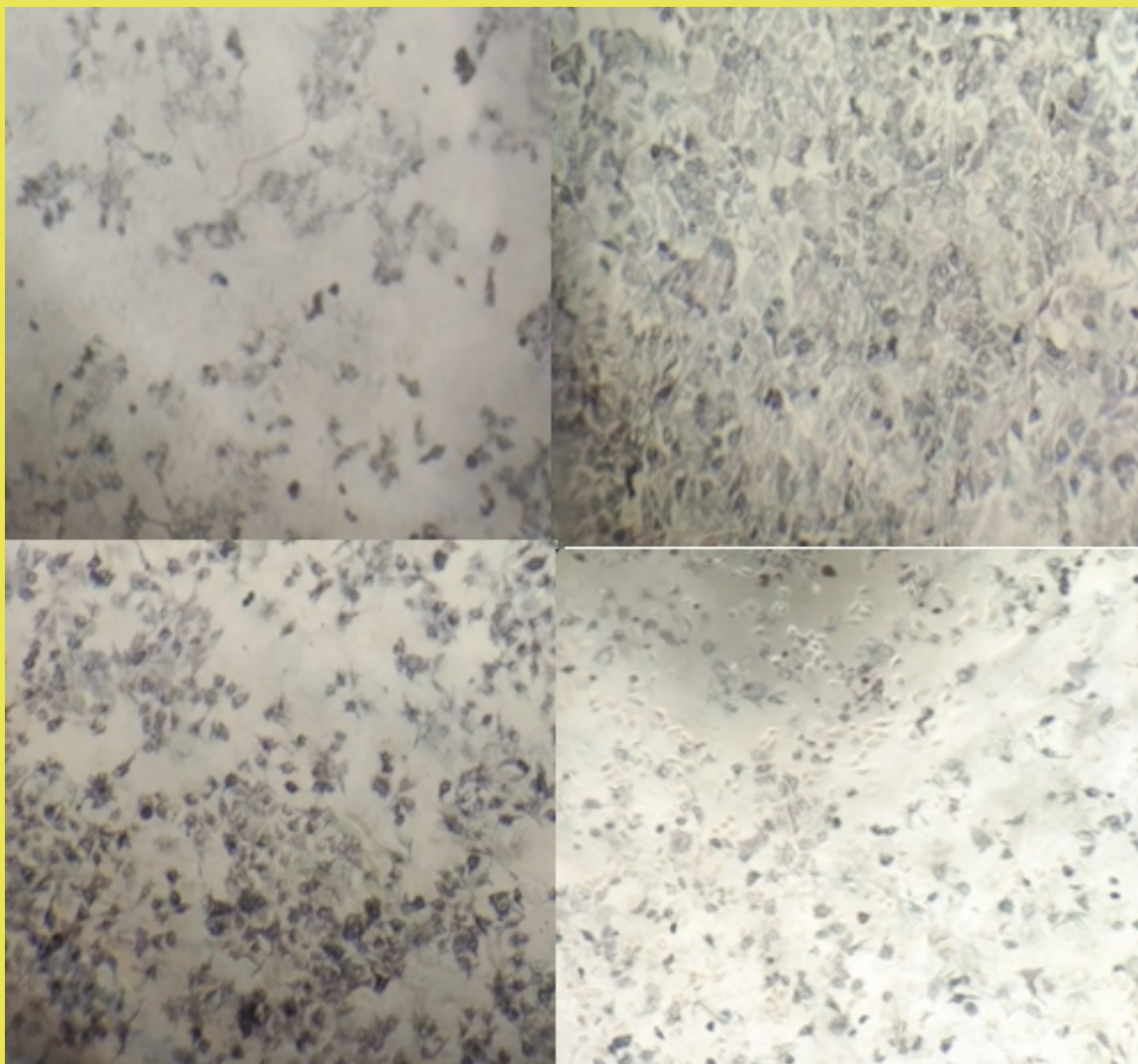


JURNAL BIOMEDIKA



Jurnal Biomedika	Vol. 15	No. 02	pp. 36 - 84	September 2022	E-ISSN : 2302 - 1306
------------------	---------	--------	-------------	----------------	----------------------



Jurnal Biomedika

Volume 15 No. 01 September 2022

ISSN

P-ISSN : 1979 - 035X

E-ISSN : 2302 - 1306

Editor in Chief

Dr. Dian Kresnadipayana, S.Si., M.Si

(Faculty of Health Sciences, Setia Budi University)

Managing Editor

Rahmat Budi Nugroho, S.Si., M.Sc. (Faculty of Health Sciences, Setia Budi University)

Rinda Binugraheni, S.Si., M.Sc. (Faculty of Health Sciences, Setia Budi University)

Dra. Dewi Sulistyowati, M.Sc. (Faculty of Health Sciences, Setia Budi University)

Rumeyda Chitra Puspita, SST., MPH. (Faculty of Health Sciences, Setia Budi University)

Editorial Board

Dr. ret nat. Arli Aditya Parikesit (Indonesia International Institute for Life Sciences)

drh. Mokhammad Fahrul Ulum, M.Si., Ph.D (Faculty of Veterinary Medicine, IPB University)

Kurnia Ritma Dhanti, S.Si., M.Biotech (Univeritas Muhammadiyah Purwokerto)

Rety Setyawaty, ST., MT (Akademi Farmasi Kusuma Husada Purwokerto)

Makhabbah Jamilatun, S.Si., M.Si (Health Polytechnic of Health Ministry Banten)

Fitri Nuroini, S.Si., M.Si (Muhammadiyah Semarang University)

Reny Pratiwi, M.Si., Ph.D (Faculty of Health Sciences, Setia Budi University)

Dr. Ifandari, M.Si (Faculty of Health Sciences, Setia Budi University)

Reviewer

Prof. dr. Marsetyawan HNE Soesatyo, M.Sc., Ph.D (Faculty of Medicine, Gadjah Mada University)

Prof. Venty Suryanti, S.Si., M.Phil., Ph.D (Faculty of Mathematics and Natural Sciences, Sebelas Maret University)

Dr. dr. Dewa Ayu Sri Laksemi, S.Ked., M.Sc. (Faculty of Medicine, Udayana University)

Dr. Dra. Ning Rintiswati, M. Kes (Faculty of Medicine, Gadjah Mada University)

Dr. Betty Nurhayati, M.Si (Health Polytechnic of Health Ministry Bandung)

Dr. Dyah Purwaningsih, S.Si., M.Sc. (Faculty of Mathematics and Natural Sciences, Yogyakarta State University)

Dr. Sri Hastuti, S.Si., M.Si. (Faculty of Mathematics and Natural Sciences, Sebelas Maret University)

Dr. ret nat. Ikhwan Resmala Sudji, S.Si., M.Si (Departemmn of Biomedical Science, Andalas University)

Dr. Hasria Alang, S.Si., M.Kes (Faculty of Health Sciences, Setia Budi University)

dr. Tias Pramesti Griana, M. Biomed. (Universitas Islam Negeri Maulana Malik Ibrahim Malang)

Ria Amelia, M.Imun (DepartmentMedical Laboratory Technology, STIKes Mitra Keluarga)

Dr. Titik Sunarni, S.Si., M.Si, Apt. (Faculty of Pharmacy, Setia Budi University)

Dr. Sunardi, S.Si., M.Si. (Faculty of Engineering, Setia Budi University)

Editorial Office:

Health Sciences Faculty, Setia Budi University of Surakarta

Jl. Letjen Sutoyo, Mojosongo, Surakarta 57127

Telp: (0271) 852518, Fax: (0271) 853275

Email: biomedika@setiabudi.ac.id

www.biomedika.setiabudi.ac.id