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Table of Contents

Volume 18, Issue 8 — August 2024

Research Articles

1.

Generation of an Optimized Dendritic Cell Culture System and Discrimination of the Heterogeneity of the Cultured Cells

Jing Wang, Xiaomin Dai, ChiaChing Hsu, Ying He, Ji Zhang, Lai Wei, Ping Zhou, Xiaoping Chen, Cong-Yi Wang, Jun Yang, Nianqiao Gong

Keywords: Dendritic Cells, Cell Culture, Immunology, Cell Differentiation, Cytokine Secretion

2.

Box-Cox Distribution Under Power Normalization

E. M. Nigm, Aya Kamal

Keywords: Box-Cox transformation, extreme value distribution, power normalization, generalized Pareto distribution, likelihood ratio test, GEVP model

3.

Mean Square Solutions of Second-Order Random Differential Equations by Using the Differential Transformation Method

Ayad R. Khudair, S.A.M. Haddad, Sanaa L. Khalaf

Keywords: Differential Transformation Method, Random Differential Equations, Stochastic Processes, Computational Mathematics, Exact Solutions

4.

Load Speed Problems of Web Resources on the Client Side: Classification and Methods of Solution

Dr. Osama Ahmad Salim Safarini

Keywords: web performance, client-side optimization, load speed, user agent behavior, browser performance

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5.

Prevalence and Socio-economic and Demographic Factors Related to Household Food Insecurity in South-East Iran

Zohreh Mortazavi, Alireza Dorosty, Mohammad Reza Eshraghian, Ali Reza Ansari Moghadam, Mahdi Ghaffari, Maryam Mohammadi

Keywords: food insecurity, socio-economic factors, Zahedan, Iran, hunger, demographic analysis, nutritional access

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6.

Comparative Analysis of Capillary Blood INR Using CoaguChek XS POC and Conventional Coagulation Blood Tests

Atanaska Dinkova, Lyudmila Vladimirova-Kitova, Tanya Deneva-Koycheva

Keywords: anticoagulants, point-of-care testing, INR variability, vitamin K antagonists, CoaguChek XS, clinical laboratory, Sysmex S 2000i

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7.

Design of Fuzzy Logic-Based Footprint Authentication to Enhance Global Security

Kapil Kumar Nagwanshi, Sipi Dubey

Keywords: biometric authentication, fuzzy logic, footprint recognition, image processing, global security