

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Artikel Ilmiah : Mangrove fruit (*Bruguiera gymnorhiza*) increases circulating GLP-1 and PYY, modulates lipid profiles, and reduces
 Penulis Artikel Ilmiah : Rinta Amalia, Adriyan Pramono, Diana Nur Afifah, **Etika Ratna Noer**, Muflihatul Muniroh, Andri Cahyo Kumoro
 Status Pengusul : Penulis Anggota
 Identitas Jurnal Ilmiah : a. Nama Jurnal : Heliyon
 b. ISSN : 2405-8440
 c. Nomor/Volume/Hal : 8/10/1-10
 d. Edisi (bulan/tahun) : Oktober/2022
 e. Penerbit : Elsevier
 f. Jumlah halaman : 10 halaman
 g. Alamat Dokumen Artikel : [https://www.cell.com/heliyon/fulltext/S2405-8440\(22\)02175-](https://www.cell.com/heliyon/fulltext/S2405-8440(22)02175-)
 h. DOI artikel (Jika ada) : <https://doi.org/10.1016/j.heliyon.2022.e10887>
 i. Alamat web Jurnal : <https://www.cell.com/heliyon/home>
 j. Terindeks di : SCOPUS Q1, SJR 0.55
 k. Turnitin : <http://doc-pak.undip.ac.id/13331/>

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional tidak Terakreditasi

I. Hasil Penilaian Peer Review

Komponen Yang Dinilai		Nilai Maksimal Karya Ilmiah (isikan di kolom yang sesuai)			Nilai Akhir Yang Diperoleh
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a.	Kelengkapan dan Kesesuaian unsur isi artikel(10%)	4			4,00
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d.	Kelengkapan unsur dan kualitas penerbit (30%)	12			12,00
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Nilai pengusul =		(20% \times 40)/4			2,00
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Kelengkapan dan Kesesuaian Unsur		: Unsur kelengkapan lengkap, dengan abstrak, pendahuluan, metode penelitian yang rinci serta hasil dan pembahasan yang rinci dan lengkap serta kepustakaan yang sesuai			
Ruang Lingkup dan Kedalaman Pembahasan		: Lingkup penelitian sesuai dengan bidang ilmu pengusul. Hasilnya dibahas secara luas, tampak kemanfaatan penelitian dan hasilnya juga dibandingkan dengan mensitasi hasil penelitian terdahulu, dengan pustaka yang baru dan relevan			
Kecukupan & Kemutakhiran Data & Metodologi		: Baik			
Kelengkapan Unsur dan Kualitas Penerbit		: Heliyon merupakan jurnal internasional Q1 dengan SJR 0,55			

Semarang, 19 Desember 2022
 Penilai 1



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 Bidang Ilmu : Ilmu Gizi
 Jabatan/Pangkat : Lektor Kepala

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		Internasional	Nasional Terakreditasi	Nasional tidak Terakreditasi	
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a.	Kelengkapan dan Kesesuaian unsur isi artikel(10%)	4			3.80
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Nilai Total = (100%)		40			39.80
Nilai pengusul =		(20% x 39,8)/4 =			1.99
KOMENTAR/ULASAN PEER REVIEW					
Kelengkapan dan Kesesuaian Unsur		Unsur isi artikel lengkap dan sesuai, ada abstrak sampai dengan referensi, untuk abstrak kurang menyeluruh pada isian sehingga tidak nampak adanya kesimpulan hasil penelitian pada abstrak, terdapat ada keterangan declaration of interest dan acknowledgment, penulisan baik dan rapi.			
Ruang Lingkup dan Kedalaman Pembahasan		Hasil dari penelitian tentang buah bakau ini dijelaskan dengan baik dan lengkap, didukung dengan referensi yang jumlahnya sangat memadai dan relevan.			
Kecukupan & Kemutakhiran Data & Metodologi		Metode penelitian yang digunakan dalam penelitian berupa experimental design, dalam material dan metode artikel ini dijelaskan dengan sangat baik dan lengkap. Ethical clearance penelitian juga ditunjukkan dalam artikel, referensi yang digunakan jumlahnya sangat cukup dan relevan, >90% diambil dari artikel jurnal terkini kurang dari 10 tahun.			
Kelengkapan Unsur dan Kualitas Penerbit		Jurnal Heliyon merupakan Jurnal Internasional yang terindeks Scopus Q1, memiliki nilai SJR pada tahun 2021 0.55, diterbitkan oleh Elsevier dan memiliki ISSN 2405-8440.			

Semarang, 19 Desember 2022
 Penilai 2



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 Jabatan/Pangkat : Lektor Kepala

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Anett Rosu, Kálmán Tót, György Godó, Szabolcs Kéri, Attila Nagy, Gabriella Eördegh

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Evaluating the performance of $\text{Cs}_2\text{PtI}_{6-x}\text{Br}_x$ for photovoltaic and photocatalytic applications using first-principles study and SCAPS-1D simulation

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Does trade openness influence the performance of small and medium enterprises in Nigeria? A re-evaluation of the evidence

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An autonomous cycle of data analysis tasks for the clinical management of dengue

William Hoyos, Jose Aguilar, Mauricio Toro

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A secured compression technique based on encoding for sharing electronic patient data in slow-speed networks

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Severe acute malnutrition and associated factors among children under-five years: A community based-cross sectional study in Ethiopia

Anchamo Anato

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☐ **Methods for assessing the impact of PM_{2.5} concentration on mortality while controlling for socio-economic factors**

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☐ **Effect of pretreatments and solar tunnel dryer zones on functional properties, proximate composition, and bioactive components of pumpkin (*Cucurbita maxima*) pulp powder**

Hayat Hassen Mohammed, Yetenayet Bekele Tola, Addisalem Hailu Taye, Zeneba Kedir Abdisa

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☐ **Prediction of hepatocellular carcinoma risk in patients with type-2 diabetes using supervised machine learning classification model**

Noor Atika Azit, Shahnorbanun Sahran, Voon Meng Leow, Manisekar Subramaniam, Suryati Mokhtar, Azmawati Mohammed Nawi

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Chinyere Augusta Ajuzieogu, Irene Chidinma Dyboh, David Chinemerem Nwobodo

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Wei Han, Chun-tao Shi, Jun Ma, Hua Chen, Qi-xiang Shao, Xiao-jiao Gao, Ying Zhou, Jing-feng Gu, Hao-nan Wang

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J.J. Fernández

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Md. Hasan Al Banna, Md. Sazedul Hoque, Fatima Tamanna, Md. Mahmudul Hasan, Pronoy Mondal, Md. Belal Hossain, Suprakash Chakma, Mst. Niloy Jaman, Md. Abu Tareq, Md Shafiqul Islam Khan

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Md. Rahamat Ullah, Md. Arifur Rahman, Md. Nazmul Haque, Md. Rajib Sharker, M. Muhsinul Islam, Md. Ariful Alam

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Relationship between musculoskeletal pain, sleep quality and migraine with level of physical activity in college students during the COVID-19 pandemic

Juliana Pedrosa Luna Oliveira, Juliana Zangirolami-Raimundo, Paulo Evaristo de Andrade, Soraya Louise Pereira Lima, Amanda Regina Cavalcante Lima, Luiz Carlos de Abreu, Rodrigo Daminello Raimundo

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Estimation of life history parameters for river catfish *Eutropiichthys vacha*: insights from multi-models for sustainable management

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Risk of pre-existing hyponatremia and mortality in patients with traumatic brain injury across age groups

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Mesenchymal stem cells-derived microvesicles versus platelet-rich plasma in the treatment of monoiodoacetate-induced temporomandibular joint osteoarthritis in Albino rats

Nermeen AbuBakr, Amira E. Fares, Abeer Mostafa, Dina B.E. Farag

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Multi-assessment of critical steno-occlusive middle cerebral arteries: transcranial Doppler combined with magnetic resonance angiography

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Toward an international platform: A web-based multi-language system for remote and virtual laboratories using react framework

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☐ Large-scale networks underlie cognitive insight differs between untreated adolescents ongoing their first schizophrenic episode and their reference non-schizophrenic mates

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☐ Practice, disaster preparation training needs, and associated factors in nursing staffs operating at Amhara regional state referral hospitals in Ethiopia

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☐ Optimization of nutritional and sensory properties of fermented oat-based composite beverage

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☐ The A(ffect) B(ehavior) C(ognition) D(ecision) of parasocial relationships: A pilot study on the psychometric properties of the Multidimensional Measure of Parasocial Relationships (MMPR)

Danilo Garcia, Elina Björk, Maryam Kazemitabar

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☐ Construction of the active aging index in Bangladesh: challenges and opportunities

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☐ Kinetics of Benzo(a)pyrene biodegradation and bacterial growth in sandy soil by *Sphingobacterium spiritovorum*

Salina Alias, Megawati Omar, Noor Hana Hussain, Nor Amani Filzah Mohd-Kamil, Suhaimi Abdul-Talib

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☐ How teachers manage their classroom in the digital learning environment – experiences from the University Smart Learning Project

Lan Thi Nguyen, Issara Kanjug, Grichawat Lowatcharin, Theeradej Manakul, Kornwipa Poonpon, Weerachai Sarakorn, Anucha Somabut, Niwat Srisawasdi, Saksuriya

Traiyarach, Kulthida Tuamsuk

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☐ Anger and worry are related to problematic smartphone use: A cross-sectional examination of novel psychopathological constructs in a college-aged sample in the United Arab Emirates

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Optimized environmental justice calculations for air pollution disparities in Southern California

Yiting Li, Anikender Kumar, Sofia Hamilton, Jeremy D. Lea, John Harvey, Michael J. Kleeman
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☐ Identification of candidate biomarkers for severe adenovirus community-acquired pneumonia by proteomic approach

Tingting Shi, Jun Bai, Di Yuan Yang, Li Huang, Hui-Feng Fan, Dong-Wei Zhang, Tongzheng Liu, Gen Lu
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☐ Multiparameter sensor based on micro/nano-structured optical fiber and composites

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☐ Revisiting Fisher-KPP model to interpret the spatial spreading of invasive cell population in biology

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☐ Role of tryptophan content in determining gluten quality and wheat grain characteristics

Rupinder Kaur, Harinderjeet Kaur, Puja Srivastava
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☐ Synthesis of high surface area mesoporous ZnCl₂-activated cocoa (*Theobroma cacao* L) leaves biochar derived *via* pyrolysis for crystal violet dye removal

Jamiu Mosebolatan Jabar, Matthew Ayorinde Adebayo, Ignatius Adekunle Owokotomo, Yisau Adelaja Odusote, Murat Yilmaz
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☐ Leucine zipper protein 2 serves as a prognostic biomarker for prostate cancer correlating with immune infiltration and epigenetic regulation

Dechao Feng, Weizhen Zhu, Xu Shi, Wuran Wei, Ping Han, Qiang Wei, Lu Yang
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☐ **Predictors of behavioral health unit readmission within 30 days of discharge: A retrospective study**

Jaylene Everett, Kaitlyn Druyor, Claire Krasinski, Marwah Obaid, Yueling Li
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☐ **Synthesis of 1,2,3-triazole-thymol derivatives as potential antimicrobial agents**

Justice Kwaku Addo, Ernest Owusu-Ansah, Nicholas T.K.D. Dayie, Xavier Cheseto, Baldwyn Torto
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☐ **Construction of novel lncRNA-miRNA-mRNA ceRNA networks associated with prognosis of hepatitis C virus related hepatocellular carcinoma**

Lishi Shao, Lei Liang, Qixiang Fang, Jiaping Wang
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☐ **Effects of institutional quality on foreign direct investment inflow in lower-middle income countries**

Sadhon Saha, Md. Nazmus Sadekin, Sanjoy Kumar Saha
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Ahmad Tauchid, Mursid Saleh, Rudi Hartono, Januarius Mujiyanto
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☐ **Plasma-induced nanostructured metallic silver surfaces: study of bacteriophobic effect to avoid bacterial adhesion on medical devices**

Cristina García-Bonillo, Robert Texidó, Joan Gilabert-Porres, Salvador Borrós
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The main Aflatoxin B1 degrading enzyme in *Pseudomonas putida* is thermostable lipase

Jyoti Singh, Alka Mehta

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A randomized clinical trial to test efficacy of chamomile and saffron for neuroprotective and anti-inflammatory responses in depressive patients

Saara Ahmad, Arfa Azhar, Prashant Tikmani, Hamna Rafique, Asra Khan, Hanif Mesiya, Humera Saeed

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A study on signal enhancement of a Raman probe using an optical pickup unit

Sung Il Ahn

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SLC7A5 is a lung adenocarcinoma-specific prognostic biomarker and participates in forming immunosuppressive tumor microenvironment

Yong Liu, Guoyuan Ma, Jichang Liu, Haotian Zheng, Gemu Huang, Qingtao Song, Zhaofei Pang, Jiajun Du

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Human health risk assessment of pesticide residues in vegetable and fruit samples in Gujarat State, India

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Eva Herlinawati, Pascal Montoro, Sigit Ismawanto, Afdholiatu Syafaah, Martini Aji, Michel Giner, Albert Flori, Eric Gohet, Fetrina Oktavia

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Study of biomethanol as sustainable replacement of Autogas at variable ignition timing

Iyashish Kumar Pandey, Dinesh M.H., Kumar G.N.



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☐ **Physicochemical properties, *in vitro* digestibility, antioxidant activity and consumer acceptability of biscuits prepared from germinated finger millet and Bambara groundnut flour blends**

Chiemela Enyinnaya Chinma, Patricia Ayuba Ibrahim, Olajide Emmanuel Adedeji, Vanessa Chinelo Ezeocha, Elizabeth Ugbede Ohuoba, Salamatu Ibrahim Kolo, Ruhaimat Abdulrahman, Nonyelum Laurentia Ogochukwu Anumba, Janet Adeyinka Adebo, Oluwafemi Ayodeji Adebo

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☐ **The effects of Covid-19 pandemic on food safety between Indonesia and Bangladesh: A comparative study**

Tofan Agung Eka Prasetya, Abdullah Al Mamun, Eka Rosanti, Aisy Rahmania, Monsur Ahmad, Siti Ma'rifah, Dian Afif Arifah, Khodadad Maruf

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Zakane Reshma, Kowshik Meenal

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☐ **Physicochemical properties and sensory quality of Motlopi (*Boscia albitrunca*) coffee prepared using different temperature-time combinations**

Kenanao Otsogile, Eyassu Seifu, Geremew Bultosa
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Mohammad Mahfuzur Rahman, Abu Tareq Mohammad Abdullah, Miskat Sharif, Sharmin Jahan, Md. Alamgir Kabir, Md. Motalab, Tanzir Ahmed Khan
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☐ **Effects of blending ratios and baking temperature on physicochemical properties and sensory acceptability of biscuits prepared from pumpkin, common bean, and wheat composite flour**

^`ebe Desalegn Melese, Ebisa Olika Keyata



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Jia Qu

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Tesfa Mengie, Yadeta Dessie, Gudina Egata, Temesgen Muche, Samuel Derbie Habtegiorgis, Lemma Getacher

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Arulraj Ramalingam, Murugavel Kuppusamy, Sivakumar Sambandam, Mouna

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Moïse Adamou, Daniel Kosini, Abraham Tchoubou-Salé, Odette Dabole Massah, Tchepegni

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Yago Neco Teixeira, Francisco José de Paula Filho, Vinícius Pereira Bacurau, Jorge Marcell Coelho Menezes, Anderson Zhong Fan, Ricardo Paulo Fonseca Melo

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Yang Tian, Xue Yang, Juan Yang, Kaikai Mao, Yujia Yao, Haoshen Liang

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Jie Su, Jianglan Huang, Linbo Qing, Xiaohai He, Honggang Chen

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Sanae Rujivan, Nopporn Thamrongrat

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Irene Giordano, Jumana Abuqwider, Mohammad Altamimi, Rossella Di Monaco, Sharon Puleo, Gianluigi Mauriello

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Ababay Ketema Worku, Delele Worku Ayele, Nigus Gabbiye Habtu, Mehary Dagne Ambaw
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Frederik A. van Delft, Milou Schuurbiers, Mirte Muller, Sjaak A. Burgers, Huub H. van Rossum, Maarten J. IJzerman, Hendrik Koffijberg, Michel M. van den Heuvel

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☐ Raw cow milk nutritional content and microbiological quality predictors of South Gondar zone dairy farmers in Ethiopia, 2020

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Xiaoyun Wu, Quan Gong, Yeyu Chen, Ya Liu, Mingjiang Song, Feiyang Li, Pengcheng Li, Jiansheng Lai
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Geronimo José Bouzas Sanchis, Johnnatas Mikael Lopes, Sanderson José Costa de Assis, Romena Leão Azevedo Catão, Thiago Ribeiro Teles Santos, Angelo Giuseppe Da Costa Oliveira Roncalli
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Hongbo Zhao, Meng Wang, Xu Chang
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Jiangqin Pu, Feng Wang, Peng Ye, Xiaomin Jiang, Wenying Zhou, Yue Gu, Shaoliang Chen
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☐ Managing the challenges of competing interests of different regions in setting the boundaries of neighboring urban areas: the case of Addis Ababa city administration and oromia regional state, Ethiopia

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armonic tinnitus



Xiaoyan Ma, Ningxuan Chen, Fangyuan Wang, Chi Zhang, Jing Dai, Haina Ding, Chaogan Yan, Weidong Shen, Shiming Yang

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Dian Lv, Qi Lai, Qi Zhang, Ji-hong Wang, Yuan-ce Li, Guang-Zhi Zeng, Jun-Lin Yin

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☐ **Experimental study on potential suitability of natural lime and waste ceramic dust in modifying properties of highly plastic clay**

Adamu Beyene, Yada Tesfaye, Damtew Tsige, Alemineh Sorsa, Teyba Wedajo, Narobika Tesema, Getnet Mekuria

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Bo Wu, Shixiang Xu, Guowang Meng, Yaozhong Cui

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☐ **Regulatory effect of long-stranded non-coding RNA-CRNDE on neurodegeneration during retinal ischemia-reperfusion**

Ting-Ting Sun, Xiu-Miao Li, Jun-Ya Zhu, Wen Yao, Tian-Jing Yang, Xiang-Rui Meng, Jin Yao, Qin Jiang

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☐ **Antileukemic activity of YPN-005, a CDK7 inhibitor, inducing apoptosis through c-MYC and FLT3 suppression in acute myeloid leukemia**



Jun-Kwan Koo, Eun-Ji Choi, Eun-Hye Hur, Ju Hyun Moon, Ji Yun Kim, Han-Seung Park, Yunsuk Choi, Jung-Hee Lee, Kyoo-Hyung Lee, Eun Kyung Choi, Jinhwan Kim, Je-I



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Jwo-Huei Jou, Jing-Hsiu Chen, Jin-Ting Lin, Ming-Hui Cheng

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Jiwon Jung, Hyejin Yang, Soyeon Park, Hyun-Jung Lim, Sun-Kyung Kim, Young-Ju Lim, Eun Ok Kim, Sung-Han Kim

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Orietta Segura-Badilla, Ashuin Kammar-García, Jeyne Mosso-Vázquez, Raúl Ávila-Sosa Sánchez, Carlos Ochoa-Velasco, Paola Hernández-Carranza, Addí Rhode Navarro-Cruz

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Nanako Nino, Toshiaki Ishida, Naoko Nakatani, Kyaw San Lin, Kaung Htet Nay Win, Cho Yee Mon, Akihiro Nishimura, Shotaro Inoue, Akihiro Tamura, Nobuyuki Yamamoto, Suguru Uemura, Atsuro Saito, Takeshi Mori, Daiichiro Hasegawa, Yoshiyuki Kosaka, Kandai Nozu, Noriyuki Nishimura
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Marjia Sultana, Shishir Dhar, Towhid Hasan, Lincon Chandra Shill, Nafisa Habib Purba, Akibul Islam Chowdhury, Suvasish Das Shuvo
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Yalfal Temesgen, Mengistu Ketema, Alealign Ademe
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☐ **Pre COVID-19 molecular epidemiology of respiratory syncytial virus (RSV) among children in Bangladesh**

Mohammad Enayet Hossain, Mohammed Ziaur Rahman, Md. Muzahidul Islam, Ananya Ferdous Hoque, Mariya Kibtiya Sumiya, Mst. Noorjahan Begum, Mohammad Mamun Alam, K.M. Main Uddin, Md. Zakiul Hassan, Mustafizur Rahman, Doli Rani Goswami, W. Abdullah Brooks
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Seda Hatice Gökler, Didem Yılmaz, Zerrin Funda Ürük, Semra Boran
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Guishen Yu, Kuei-Feng Chang, I-Tung Shih

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Jiu-hong You, Jun-liang Jiang, Wen-bo He, Hui Ma, Mei Zhou, Xin-xin Chen, Qiao-ling Liu, Cheng Huang

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Muhammad Abdur Rouf, Md. Jahidul Islam, Md. Roknuzzaman, Md. Noman Siddique, Md Rony Golder

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Ahmed M. Fallatah, Habib Ur Rehman Shah, Khalil Ahmad, Muhammad Ashfaq, Abdul Rauf, Muhammad Muneer, Mohamed M. Ibrahim, Zeinhom M. El-Bahy, Amir Shahzad, Afshain Babras

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asha Abdelrahman, Fouad Mohamed Aldawash

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Ahmad Fauzan Zakki, Aulia Windyandari

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Kumeshan Reddy, Akshay K. Saha

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José F. Guzmán, Joaquín Madera, Diana Marín-Suelves, Jesús Ramón-Llin

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Oscar Mamani-Benito, Renzo Felipe Carranza Esteban, Ronald Castillo-Blanco, Tomás Caycho-Rodriguez, Madona Tito-Betancur, Rosa Farfán-Solís

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Sameha Alshakhsi, Khansa Chemnad, Mohamed Basel Almourad, Majid Altuwairiqi, John McAlaney, Raian Ali

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A pilot study of newborn screening for Duchenne muscular dystrophy in Guangzhou

Xuefang Jia, Xiang Jiang, Yonglan Huang

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Chunyu Zhang, Wei Zhou, Yinqiu Tan, Daofeng Tian, Chunlong Zhong

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☐ Improving anti-hypertensive properties of plant-based alternatives to yogurt fortified with rice protein hydrolysate

Prinya Wongsu, Kittikan Yuenyongrattanakorn, Waranya Pongvachirint, Anusara Auntalarok

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Beneficial effects of SGLT2 inhibitor on metabolic inflexibility and visceral fat amount in animal model of obese type 2 diabetes

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☐ Quality control, preparation process optimizing and anti-inflammatory effects of *Premna Puberula* Pamp. Pectin

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Esomeprazole and Apixaban Pharmacokinetic Interactions in Healthy Rats

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Pujiriani, Bonardo Prayogo Hasiholan

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Oladiti Olaniyi, Daniel Juwon Arotupin

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Corrigendum

- ☐ Corrigendum to “Prefrontal reactivity to TMS perturbation as a toy model of mental health outcomes during the COVID-19 pandemic”[Heliyon 8 (8), (August 2022) Article e10208]

Ruben Perellón-Alfonso, María Redondo-Camós, Kilian Abelláneda-Pérez, Gabriele Cattaneo, Selma Delgado-Gallén, Goretti España-Irla, Javier Solana Sánchez, José M. Tormos, Alvaro Pascual-Leone, David Bartrés-Faz

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- ☐ Corrigendum to “A decision support system for multi-target disease diagnosis: A bioinformatics approach”[Heliyon 6 (3), (March 2020) Article e03657]

Femi Emmanuel Ayo, Joseph Bamidele Awotunde, Roseline Oluwaseun Ogundokun, Sakinat Oluwabukonla Folorunso, Adebola Olayinka Adekunle

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Erratum

- ☐ Erratum to “Ceratonia siliqua leaves ethanol extracts exert anti-nociceptive and anti-inflammatory effects” [Heliyon 8 (8), (August 2022) Article e10400]

Abdelrahim Alqudah, Esam Y. Qnais, Mohammed A. Wedyan, Muna Oqal, Mohammed Alqudah, Rawan AbuDalo, Nabil AL-Hashimi

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Prof. Athanasios Damialis

Dr. Athanasios Damialis is a multi-disciplinary scientist working for more than 20 years on the fields of plant and fungal ecology, environmental sciences, biometeorology, climate change and environmental health. His particular focus lies on the reproductive biology of plants (flowering phenology, atmospheric circulation of airborne pollen) and on endophytic fungi. He uses an inter-disciplinary research approach with environment-environment interactions and human-environment interactions. This includes mainly those interactions including, but not limited to, the detection of bio-climatic indicators and spatiotemporal patterns of plant, forest and agricultural habitats and ecosystems, in relation to ongoing and simulated climate change. His research goal is to comprehend the responsive ability of organisms under stress conditions, ultimately, attempting to promote sustainable growth and environmental quality.



Dr. Riccardo Scalenghe

Dr. Riccardo Scalenghe is a multi-disciplinary scientist working for more than 20 years on the field of Soil Science. His particular focus lies mainly on the cycle of phosphorus, the soil-water interface (including its frozen equivalent), and the anthropogenic impacts on soils. He uses an inter-disciplinary research approach with environment-environment interactions and human-environment interactions. This includes mainly those interactions including, but not limited to, the detection of pedogenic indicators and spatiotemporal patterns of plant, forest and agricultural habitats and ecosystems. His research goal is to comprehend the responsive ability of soils under stress conditions, ultimately, attempting to promote sustainable human and ecosystems health.

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Prof. Nicola Zambrano

Nicola Zambrano is professor of Molecular Biology at the University of Naples Federico II, and group leader at CEINGE Advanced Biotechnologies, Naples, Italy. He holds a M.Sc. degree in biological sciences and a Ph.D. in biotechnologies, acquired within a joint doctoral program from the Universities of L'Aquila and Naples, Italy. He was a visiting fellow at National Cancer Institute, NIH in Bethesda from 1991 to 1994, and visiting scientist at EMBL in Heidelberg, Germany in 1997. His academic career at the Federico II University in Naples started with an assistant professor position in biochemistry (1996), before being enrolled as an associate professor (2002) and then, as a full professor in molecular biology (2010).

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**Prof. Jinrong Min**

Professor Jinrong Min received his Ph.D. degree in physics from the Institute of Physics, Chinese Academy of Sciences in China, and carried out his post-doctoral training in chromatin structural biology at the Cold Spring Harbor Laboratory, USA. He is currently the principal investigator of the Chromatin Structural Biology Group at the Structural Genomics Consortium (SGC), University of Toronto, and an associate professor in the Department of Physiology at the University of Toronto.

Biology

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**Prof. Yu-Chung Chiang**

Research piloted in my research answers a key biological question: how do genetic signals within and among species reveal evolutionary and geographical structure, including plant phylogeography of East Asia and the Pacific Islands, introgression between wild populations and cultivars, and conservation genetics on rare and endemic plant.

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**Dr. Larisa Yarovaya**

Doctor Larisa Yarovaya received her doctorate in finance from Northumbria University in England. Currently, she is a lecturer in finance, Programme Director BSc Finance, and deputy head of Centre for Digital Finance at the Southampton Business School, University of Southampton.

Dr. Yarovaya is a researcher the fields of international finance, digital finance, financial integration, Islamic finance, energy economics, information transmission, and international business. She has published her research in peer-reviewed academic journals and is an associate editor of the *International Review of Financial Analysis*, *Journal of International Financial Markets Institutions and Money*, *Heliyon*, and *Data-in-Brief*.

**Assoc. Prof. Pavlos Delias**

Pavlos Delias is a tenured faculty member at the [International Hellenic University](#), Department of Accounting and Finance. He holds a jointly supervised PhD from both [Technical University of Crete](#) and [University Paris Dauphine](#), under a cotutelle agreement.

Pavlos Delias has been invited as a visiting professor in several universities (national as well as international). He has contributed to numerous research projects, focusing on applying the principles of business analytics and operational research to decision support systems design and use. He is also a member of the coordination board for the EURO working group on decision support systems. His research interests are in the areas of business process analytics, business analytics and operational research, and multiple criteria analysis.



Assoc. Prof. Eugene Ezebilo, PhD

Eugene Ezebilo is an Associate Professor of Economics. He received his PhD in Economics from Swedish University of Agricultural Sciences, Sweden. He is currently a Deputy Director for Research at the National Research Institute, Port Moresby in Papua New Guinea. He is a guest lecturer at University of Papua New Guinea where he teaches two courses in the Master of Economics and Public Policy program. In the past ten years, Eugene's research has focused primarily on the economic value of ecosystem goods and services, land use planning, affordable housing and economic development. His academic career started at Swedish University of Agricultural Sciences as a Post-Doctoral Researcher in Environmental and Natural Resource Economics, followed by an Assistant Professor in Economics and Planning from the same university, where he later became an Associate Professor of Economics. His research interests are in environmental and resource economics, housing economics and policy, land use planning and economic development.

Cancer Research

Meet the full editorial team for [Heliyon Cancer Research](#).



Prof. Graham Pawelec

Graham Pawelec received an MA in Natural Sciences and a PhD in Transplantation Immunology from the University of Cambridge, UK. He is currently Professor of Experimental Immunology in the Department of Immunology, University of Tübingen, Tübingen, Germany. He is a Visiting Professor at Nottingham Trent University, UK and at King's College London, UK, holds an Honorary Chair at Manchester University, UK. He is a member of the Cancer Solutions Program at the Health Sciences North Research Institute of Canada, Sudbury, Ontario, Canada. He is currently Co-Editor-in-Chief of "Immunity and Aging". Graham's research interests are centred on alterations to immunity, especially T cell-mediated immunity, in ageing and cancer in man, and the influence these have on the outcome of vaccination and immunomodulatory antibody therapies. The impact of polypathogenicity (including multiple infections, cancer, Alzheimer's, diabetes, autoimmunity) as well as stress (psychological, nutritional) on immune signatures reflecting individual immune status is of particular interest in the clinical context.



Dr. Kamal Kant Sahu

Dr. Kamal Kant Sahu is a fellow in hematology and medical oncology at the Huntsman Cancer Institute at the University of Utah in Salt Lake City. Dr. Sahu received his medical education at the Chhattisgarh Institute of Medical Sciences in Bilaspur, India. He completed training in internal medicine and subsequently a fellowship in clinical hematology and bone marrow transplantation at the Postgraduate Institute of Medical Education and Research (PGIMER) in Chandigarh, India. After coming to the United States, Dr. Sahu undertook residency training in internal medicine at Saint Vincent Hospital in Worcester, Massachusetts, and, in July 2021, began his fellowship training in hematology and medical oncology at the Huntsman Cancer Institute. Dr. Sahu is active in clinical research and has published widely with over 200 papers in PubMed-indexed journals. His clinical and research interests focus on genitourinary malignancies.

Chemical Engineering

Meet the full editorial team for [Heliyon Chemical Engineering](#).



Prof. Bart Van der Bruggen

Bart Van der Bruggen received his PhD in chemical engineering from KU Leuven in 2000. He currently works as full professor at KU Leuven (Belgium) and extraordinary professor at Tshwane University of Technology (South Africa). He has vast experience as an editor for various journals and is also very active author and reviewer, with over 600 publications, cited more than 25,000 times. His expertise is in separation processes in classical and non-classical chemical engineering applications, with a focus on membrane science and technology.

Chemistry

Meet the full editorial team for [Heliyon Chemistry](#).



Dr. Francesco Epifano

Prof. Epifano obtained his degree in medicinal chemistry and pharmaceutical technology in 1993 from the University of Perugia, Italy. In 1998, he obtained his Ph.D. in agricultural entomology at the Faculty of Agricultural Sciences of the University of Perugia. Currently, he is an associate professor of medicinal chemistry at the Department of Pharmacy of the University Gabriele D'Annunzio of Chieti-Pescara. His recent work is concerned with synthesis and pharmacological properties of secondary metabolites from plants, fungi, and bacteria. Dr. Epifano was the recipient of the 2010 IADR / Glaxo Smith Kline Innovation in Oral Care Award as the co-investigator of the project entitled "Therapeutic potential of Citrus auraptene for periodontal disease", the 2012 Apivita Award for Phytochemistry, and the 2017 Pierre Fabre – Phytochemical Society of Europe Innovation Award.

Clinical research

Meet the full editorial team for [Heliyon Clinical research](#).



Dr. Carolyn Mackintosh-Franklin

Dr. Carolyn Mackintosh-Franklin has had an extensive career in both clinical practice and higher education working at the University of Bradford, University of Liverpool, University of Hull and currently working at the University of Manchester. She received her first degree from the University of Newcastle Upon Tyne, her MSc from the University of Manchester and doctorate from the University of Bradford. She is also a registered nurse specializing in the assessment and management of acute and chronic pain. Her research interests are broad ranging; encompassing work on health care professionals' attitudes towards those in pain, aspects of pain assessment and management, and pedagogic research into learning needs of mature students, with a range of highly cited publications and conference presentations in these areas.



Dr. Avril Mansfield, R.Kin, PhD

Avril Mansfield received a BSc in Sport and Exercise Science and MSc in Biomedical Engineering from the University of Limerick, Ireland, and PhD in Medical Science from the University of Toronto, Canada. She is also a Registered Kinesiologist. She is appointed as a Senior Scientist at KITE-Toronto Rehabilitation Institute, University Health Network, and is cross appointed as an Associate Professor in the Department of Physical Therapy at the University of Toronto, and Affiliate Scientist with the Hurvitz Brain Sciences Program, Evaluative Clinical Sciences, Sunnybrook Research Institute. Her research aims to improve safe independent mobility among older adults and people with neurological injury and disease by improving balance control, reducing falls and injury risk, and increasing participation in exercise and physical activity. Her work spans basic research in motor control and motor learning, clinical trials, and implementation.



Prof. Giuseppe Musumeci

Giuseppe Musumeci received a BSc, MSc and PhD in Sport and Exercise Science from the University of Catania, Italy. Currently, he works as a Full Professor of Sport and Exercise Science at the Department of Biomedical and Biotechnological Sciences, School of Medicine, University of Catania, Italy. He is also an Adjunct Professor at the Faculty of Sport Sciences, Fujian Normal University, Fuzhou, China. Prof. Musumeci is the Director of the Research Center on Motor Activities (CRAM), the Director of the School of Posturology and Physical Exercise Sciences, the Dean of the Human Movement Sciences Faculty and the Head of the Movement Innovation PosturaLab at the University of Catania. Musumeci's research interests are centred on preventive and adapted physical activity for all chronic non-communicable diseases and kinesiotherapy and posturometric activity for the main paramorphism and dysmorphisms of our body. Other research topics of interest are osteoarthritis and musculoskeletal disorders and the relative effects of diet, ageing and physical activity.

Computer science

Meet the full editorial team for [Heliyon Computer science](#).



Assoc. Prof. Jonathan H. Chan

Assoc. Prof. Jonathan H. Chan is an associate professor of computer science and a co-founder of D-Lab at the School of Information Technology, King Mongkut's University of Technology Thonburi, Thailand. Jonathan holds a Ph.D. from the University of Toronto, where he has also served as a visiting professor. In addition to his role as the section editor of *Heliyon Computer science*, Dr. Chan is an action editor of *Neural Networks*, and a member of the editorial boards of *International Journal of Machine Intelligence and Sensory Signal Processing*, *International Journal of Swarm Intelligence*, and *Proceedings in Adaptation, Learning and Optimization*.

Dr. Chan is a founding member and a current VP of the IEEE-CIS Thailand Chapter, and a senior member of IEEE, ACM, and INNS, a member of the Professional Engineers of Ontario (PEO), and a governing board member of APNNS. He also holds an NVIDIA Deep Learning Institute (DLI) University Ambassadorship and is a certified DLI instructor. His research interests include intelligent systems, biomedical informatics, and data science and machine learning in general.

Dentistry

Meet the full editorial team for [Heliyon Dentistry](#).



Gaetano Isola, PhD

Dr. Gaetano Isola qualified in Dentistry at the University of Messina, Italy and obtained his PhD in "Physiopathology of the Stomatognathic Apparatus and Dental Materials" at the University of Turin, Italy. He is a visiting research fellow at the Laboratory of the Study of Calcified Tissues and Biomaterials at the Department of Periodontology, Université de Montréal, Canada. Dr. Isola did an advanced course in periodontology at the University of Ferrara and a 3-year certificate in oral surgery at the University of Naples "Federico II." He is a visiting Professor at the Department of Periodontology, University of North Carolina at Chapel Hill, USA and at the Department of Oral Surgery, University of Granada, Spain. He is also a visiting researcher at the Department of Implantology and Oral Surgery, University of Bern, Switzerland, and the Department of Periodontology, Eastman Dental Institute, London.

Dr. Isola is an active member of the Italian Society of Oral Surgery (SIdCO) and of the International Piezoelectric Surgery Academy (IPA). He serves on the board of the International Association of Dental Research (IADR) and is a member of the Italian Society of Periodontology (SIdP), as well as an active member of the International IADR Constitution Committee of the International Association of Dental Research (IADR) (2016–2019 and 2019–2022).

His main research interests focus on the clinical, biological, and pharmacological aspects of periodontitis, and the relationship between oral health and systemic health and the pre-neoplastic disorders.

Earth science

Meet the full editorial team for [Heliyon Earth science](#).



Prof. Andrew S. Hursthouse

Professor Hursthouse is a professor of environmental geochemistry at the University of the West of Scotland (UWS) and holds a Ph.D. in environmental radioactivity from University of Glasgow and a B.Sc. degree in geochemistry from University of Reading. He holds a 100 talent high-end expert fellowship at Hunan University of Science & Technology, Xiangtan, PRC. He has editorial roles in several earth and environmental science journals and has worked in academic and industrial research environments.

Professor Hursthouse's areas of interest and expertise are in earth process interactions and the environmental geochemistry of metallic elements, resource exploitation and implications for human health, and this approach also applied to environmental pollution, industrial processes, economic development and society; remediation and treatment of chemical pollution; chemical and environmental hazards, waste and environmental management and regulation.

Education

Meet the full editorial team for [Heliyon Education](#).



Prof. David González-Gómez

Heliyon Education is led by Section Editor David González-Gómez, Ph.D. Dr. González-Gómez is a Professor in the Department of Science and Mathematics Education and the Dean of the Teaching Trainer School at the University of Extremadura (Spain). Dr. González-Gómez is known internationally for work in science education; science, technology, engineering, and mathematics (STEM); active learning methodologies for teaching science; affective domain in the science learning process; education for the sustainability; SDGs. Currently, he is an advisory council of the Science, Technology, and Innovation of Extremadura government in Spain.

Energy

Meet the full editorial team for [Heliyon Energy](#).



Dr. Socrates Kaplanis

Prof. Socrates Kaplanis obtained his degree in physics from University Thessaloniki, a MSc in nuclear reactors from Aston University, and a PhD in radiation detection and modelling from the University Patra. He has held academic positions including professor of renewable energy systems at the Technological Educational Institute of Patra, head of the renewable energy systems laboratory, honorary professor and doctor honoris causa at the Transylvania University in Brasov, and as a visiting professor at the University of Applied Sciences in Aachen, Germany.

Prof. Kaplanis has a research background in solar radiation, prediction modelling, zero and intelligent energy buildings, PV systems engineering, solar thermal engineering, and PV based hybrid systems. He has held various posts, including president of the Technological Educational Institute of Patra, president of the Technological Educational Institute of Western Greece, and vice-president and President of the European Institutions in Higher Education (EURASHE).

Engineering

Meet the full editorial team for [Heliyon Engineering](#).



Prof. Andrea Francesco Morabito

Professor Andrea Francesco Morabito received his Ph.D. in computer, biomedical, and telecommunications engineering from the University of Reggio Calabria, Italy, where he has also served as an assistant professor in electromagnetic fields since 2010. His research work is mainly focused on models and effective strategies for the solution of inverse problems, in particular, antenna synthesis, phase retrieval, and electromagnetic inverse scattering.



Prof. Mohammad Mehdi Rashidi

Professor Mohammad Mehdi Rashidi received his Ph.D. in mechanical engineering from Tarbiat Modares University, Iran. He is currently a professor of mechanical engineering at Tongji University in Shanghai, China, and previously taught at Bu-Ali University in Iran. Prof. Rashidi was named a 2018 highly cited researcher by Clarivate Analytics.

Environment

Meet the full editorial team for [Heliyon Environment](#).



Prof. Frederic Coulon

Professor Frederic Coulon holds a chair in Environmental Chemistry & Microbiology at Cranfield University, UK. In addition to his position as section editor for *Heliyon Environment*, Prof. Coulon is an associate editor for *Environment International* and *Science of the Total Environment*. His professional interests include: soil and water chemistry; fate and transport of chemicals in surface and subsurface waters; water and wastewater treatment; soil and sediment treatment; hazardous waste site remediation; energy and environment; population and environment; and public communication of environmental science and engineering. His research achievements address international priorities under the umbrella of the Water-Soil-Waste nexus across sectors and scales. His work is premised on the understanding that environmental resources are inextricably intertwined and therefore there is a need of advancing a nexus approach to enable integrated and sustainable management of water, soil and waste systems.



Prof. Christian Sonne

Professor Christian Sonne, DVM, PhD, DScVetMed, Dipl. ECZM-EBVS, holds a professorship in veterinary ecotoxicology and wildlife medicine at Aarhus University, Denmark. In addition to his position as section editor for *Heliyon Environment*, Prof. Sonne serves as special issues editor for *Environmental Pollution*. Since 1997, Prof. Sonne has specialized in the cross-field of biological effects from exposure to environmental chemicals, diseases and climate change, giving him a unique insight and profile working with a broad range of animals including predatory mammals, raptorial birds, sea birds, fish and humans. He has a broad insight and interest in internal and

reproductive organs (histopathology, size, and morphology), skeletal system (bone density and morphology using e.g. DXA scanning), immune system (intra dermal testing of lymphocyte functioning, immune globulin production and cytokine and APP expressions), endocrine system (steroid and peptide hormones), PBPK modelling, blood biochemistry and infectious diseases (zoonosis). Prof. Sonne uses his global network to obtain interdisciplinary research results. Since 2015, he has applied his in-depth knowledge and understanding of biological processes to also include specific un-solved wildlife issues in Denmark (eider duck population declines) and health of raptors. Recently his innovative approaches have led to the first interactions with private industry focusing on natural resources developments and translational medicine within insulation, osteoporosis and metabolic syndrome. Prof. Sonne also specializes in surgical field implantations of intra-coelomic (abdominally) and subcutaneously satellite transmitters (PTTs) in various sea bird species and immobilization of deer spp.

Food science and nutrition

Meet the full editorial team for [Heliyon Food science and nutrition](#).



Dr. Lilian Mariutti

Dr. Lilian R. B. Mariutti received her master and doctorate degrees in food science from the School of Food Engineering - University of Campinas, Brazil, where she currently has a position as assistant professor. She was a researcher fellow in the Laboratory of Veterinary Drug Residues of the Brazilian Ministry of Agriculture, Livestock and Food Supply. Her research focuses on the identification and bioaccessibility of bioactive compounds and lipids and design of food ingredients from non-conventional sources.

Genetics

Meet the full editorial team for [Heliyon Genetics](#).



Assoc. Prof. Qiang Wu, PhD

Dr. Qiang Wu is an associate professor in the State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology. He obtained his Ph.D degree from National University of Singapore in 2003. He then received his postdoc training in Genome Institute of Singapore (Mentor: Prof Huck Hui Ng) and the Gurdon Institute, University of Cambridge (mentor: Prof Magdalena Zernicka-Goetz). He went back to National University of Singapore as an assistant professor in 2009. He joined Macau University of Science and Technology in 2017.

Dr. Wu's research interest is to study how genetic and epigenetic factors determine stem cell fates and regulate cancer progression with a combination of molecular, cellular and high throughput approaches.

Global Health & Infectious Diseases

Meet the full editorial team for [Heliyon Global Health & Infectious Diseases](#).



Dr. Chaisiri Angkurawaranon

Chaisiri Angkurawaranon received his MD from Chiang Mai University and specialises in Family Medicine. He received a Masters in Medical Statistics and a PhD in Non-communicable Disease Epidemiology from the London School of Hygiene and Tropical Medicine. His research focuses on global health issues related to ageing and chronic conditions (both communicable and non-communicable) in primary care.



Prof. Keertan Dheda, PhD

Professor Keertan Dheda is a hospital-based general physician, pulmonologist, and a critical care specialist who heads up the Division of Pulmonology at Groote Schuur Hospital and the University of Cape Town. He is a South African National Research Foundation 'A'-rated clinician scientist and has professorial appointments at the University of Cape Town and the London School of Hygiene and Tropical Medicine. He serves on several national and international academic and advisory bodies, including the editorial boards of the American Journal of Respiratory and Critical Care Medicine and Lancet Respiratory Medicine.



Assoc. Prof. Nitika Pant Pai

Dr. Nitika Pant Pai is a tenured Associate Professor in the Department of Medicine at McGill University. Her global implementation research program for the past twenty years is focused on point-of-care diagnostics for HIV and other sexually transmitted blood borne infections; specifically the innovation, implementation and impact of digital strategies with rapid diagnostics and wearable solution. She develops integrated connected strategies with digital innovations, Bayesian diagnostics, artificial intelligence to plug health service delivery gaps in diagnostics in rapid diagnostics. She serves to inform domestic and global policy on point-of-care diagnostics.

Her research program is based in Canada, India and South Africa. She has led many diagnostic trials, cohort/cross sectional studies, meta-analyses, systematic reviews, modelling studies, to inform the gaps in policies to end the HIV epidemic. Her research has been supported by grants from the Canadian Institutes of Health Research, the FRQS, Grand Challenges Canada, Bill and Melinda Gates Foundation, National Institutes of Health, MRC SHIP, South African DST, IC-IMPACTS, Clinton Health Access Initiative, among others.

She has served on many technical working groups for national and international agencies: WHO, Foundation for Innovative Diagnostics, PSI, The Bill and Melinda Gates Foundation, ASLM, CDC, PHAC, REACH, among others. She has advised the office of the US Congress on multiplex testing. She has also contributed to HIV self-testing guidelines and policy guidance for HIV self-testing for the WHO. She serves the Strategic Advisory Board of the Foundation for Innovative Diagnostics and is on WHO's Roster of Digital Health Experts. She serves on the Editorial Moard for biomedical journals and regularly reviews for key international health agencies.

She is an elected member of the College of New Scholars, Artists & Scientists of the Royal Society of Canada.



Dr. Marcos Roberto Tovani-Palone

Marcos Roberto Tovani Palone completed his MSc from the Hospital for Rehabilitation of Craniofacial Anomalies, University of São Paulo, Brazil, and PhD in Experimental Pathology from Ribeirão Preto Medical School, University of São Paulo, Brazil. He is a DDS specializing in different fields of health, including pediatric dentistry, syndromes and craniofacial anomalies, health management, and health surveillance. He has published more than 100 papers in reputed journals and has been serving as an editorial board member of important biomedical journals. His main research interests focus on pediatric pathology, orofacial clefts, general medicine, dentistry, global and public health. More recently in 2021, he obtained the degree of Public Administration. With an ongoing involvement in many projects and high impact research activities, he has established important international collaborations with researchers from all over the world.

Immunology

Meet the full editorial team for [Heliyon Immunology](#).



Mats Waldemar Johansson, PhD

Immunology, Eosinophils

Dr. Mats W. Johansson received his PhD degree in biology within the research field of invertebrate immunology/innate immunity at Uppsala University, Sweden, was a postdoctoral fellow in cell biology at the Sanford Burnham Prebys Medical Discovery Institute, La Jolla, California, USA, and was then an Assistant and Associate Professor, and Director of Studies of biology at Uppsala University. He is currently a Senior Scientist and Research Professor (honorary) at the Morgridge Institute for Research, Madison, Wisconsin, USA, and affiliated as an Honorary Associate/Fellow with the Division of Allergy, Pulmonary and Critical Care Medicine of the Department of Medicine and the Department of Biomolecular Medicine, University of Wisconsin-Madison. Since coming to Madison he has done research on eosinophil biology, asthma, and eosinophilic esophagitis (EoE), and now recently also COVID-19.

Information Science

Meet the full editorial team for [Heliyon Information Science](#).



Prof. Gregorio González Alcaide

Gregorio González-Alcaide (PhD) is a full Professor at the Department of the History of Science and Library & Information Sciences, at the University of Valencia.

Dr. González Alcaide teaching activities include Bibliometrics, skills in writing and academic communication and processes for evaluating research activities. He has also worked to raise awareness on the importance of academic honesty, to discourage behaviors like plagiarism and to foster respect for the ethical principles that must guide the research and publication process.

His main line of research has focused on the study of scientific collaboration by means of Bibliometrics and social network analysis as research methodologies. His studies have aimed to determine the extent of cooperative practices, structural properties, and the characteristics of scientific networks at different analytical levels (authors, institutions, and countries) and in different disciplines or areas of knowledge. He has also investigated cooperative practices as a process and researchers' perceptions with regard to this phenomenon, combining quantitative and qualitative approaches based on surveys and interviews.

Materials science

Meet the full editorial team for [Heliyon Materials science](#).



Prof. Luis M. Gandía

Luis M. Gandía is a full professor of chemical engineering at the Public University of Navarre (UPNA) since 2010. Prof. Gandía obtained his Ph.D. in chemistry at the Faculty of Chemistry of the University of the Basque Country in Donostia/San Sebastián in 1993. He is a founding member of the Institute for Advanced Materials (InaMat) at UPNA. He is the head of a multi-disciplinary research team mainly working on renewable resources valorization and the development of catalytic materials for environmental and energy applications. His research interests include: preparation and physico-chemical characterization of heterogeneous catalysts; structured and micro-structured catalysts and chemical reactors; photocatalysis; biofuels and synthetic fuels; hydrogen energy; Li-ion batteries; methane conversion; CO₂ valorization and Computational Fluid Dynamics (CFD).

Mathematics

Meet the full editorial team for [Heliyon Mathematics](#).



Prof. Hermann J. Eberl

Dr. Hermann Eberl is a professor in the Department of Mathematics and Statistics at the University of Guelph (Canada), where he is also the director of the Biophysics Interdepartmental Graduate Program. Prior to joining the University of Guelph he obtained his graduate degrees (Dipl.Math., Dr.rer.nat) at the Technical University of Munich (Germany) and was a postdoctoral fellow first at the Delft University of Technology (the Netherlands), and then at the GSF National Research Center for Environment and Health in Oberschleissheim (Germany).

His research is in mathematical modelling, analysis, and simulation of biological systems and their interaction with their physical environment. This encompasses dynamical systems, partial differential equations, numerical analysis and scientific computing. The two primary strands of his research in recent years were the development and application of mathematical methods in biofilm research and mathematical modelling of honeybee colonies and their diseases.



Assoc. Prof. Yilun Shang, PhD

Dr. Yilun Shang is an Associate Professor in the Department of Computer and Information Sciences at Northumbria University (UK), where he is also the Program Lead of MSc Artificial Intelligence. Prior to joining Northumbria, he obtained his BS and PhD degrees in Mathematics from Shanghai Jiao Tong University (China) and was an Associate Professor of Mathematics in Tongji University (China).

His research interests mainly include complex networks, nonlinear dynamics, applied probability, combinatorics, algorithms, and computation. Some primary strands of his research in recent years were the topological indices of graphs, network resilience, random graphs, and distributed cooperative control of multiagent systems.

Microbiology

Meet the full editorial team for [Heliyon Microbiology](#).



Assoc. Prof. Dana Stanley

Associate Professor Dana Stanley was awarded a PhD in molecular microbiology from Victoria University, Melbourne, in 2009. Her PhD project, "Generation and Characterisation of Ethanol-Tolerant *Saccharomyces cerevisiae* Mutants," investigated the molecular and metabolic determinants of ethanol tolerance in yeast and was awarded "the most outstanding PhD in 2009" by the University. Prof. Stanley held a postdoctoral position in CSIRO's Animal Health Laboratories (AAHL), one of the world's most sophisticated animal

research laboratories, where she researched poultry intestinal health, specifically gut microbiota and genetics. Currently, Prof. Stanley is a leader of the molecular microbiology research cluster at Central Queensland University, focusing in human and livestock intestinal health, probiotic and next generation antibiotic development and pathogen control. She is working in collaboration with world's leading probiotic companies on research projects aiming to improve intestinal health of agricultural animals and humans. Prof. Stanley's work has been published in *Nature Medicine* (as the first author), *Nature Communications* and *Nature Immunology*.

Neuroscience

Meet the full editorial team for [Heliyon Neuroscience](#).



Assoc. Prof. Mario Tiberi

Dr. Mario Tiberi is a senior scientist at the Ottawa Hospital Research Institute's Neuroscience Program, and associate professor at the University of Ottawa Faculty of Medicine in the departments of medicine, cellular and molecular medicine, and psychiatry. He is also a member of the University of Ottawa Brain and Mind Research Institute. Dr. Tiberi completed his PhD in Pharmacology (1990) on opioid receptors at the Université de Montréal under the supervision of Dr. Jacques Magnan, before moving on to a very successful post-doctoral training at the Howard Hughes Medical Institutes at Duke University in Dr. Marc Caron's laboratory. It was during his postdoctoral training that Dr. Tiberi refined his area of research expertise in molecular biology and biochemistry of dopamine receptors. His research interests focus on dopamine receptors, G proteins, signal transduction, desensitization and phosphorylation. Dr. Tiberi's work aims to understand complex structure and molecular relationships of dopamine receptor signaling complexes using in vitro cellular systems and pre-clinical in vivo models, with the aim of aiding in the development of novel therapeutic strategies for brain disorders such as Parkinson's disease, stroke, schizophrenia and drug addiction. Dr. Tiberi has published over 50 scientific papers and edited two books. He has wide experience with undergrad and graduate student supervision as well as teaching. Many of his former graduate students have gone on to successful independent research careers.

Pharmaceutical science, pharmacology and toxicology

Meet the full editorial team for [Heliyon Pharmaceutical science, pharmacology and toxicology](#).



Prof. Emilio Clementi

Emilio Clementi graduated in medicine and surgery at the University of Milano, received his doctorate in pharmacotherapy at the University of Brescia to move as research fellow to the University College London. He is currently full professor of pharmacology and director of the clinical pharmacology unit of the National Health System at the University of Milano, co-opted member in the executive committee of the International Union of basic and clinical Pharmacology (IUPHAR).

He has published on the pathophysiology of nitric oxide and its relevance in therapeutic perspective, especially in skeletal muscle, and on pharmacokinetics, pharmacogenetics and pharmacoepidemiology in paediatrics. He is presently the editor in chief of pharmacological research.



Prof. Dimitrio Lamprou

Dimitrios Lamprou (Ph.D. MBA) is a reader in pharmaceutical engineering and the MSc programme director in industrial pharmaceuticals at the School of Pharmacy in Queen's University Belfast (UK). He is also the chair at United Kingdom and Ireland Controlled Release Society (UKICRS). Dr. Lamprou specialises in the areas of pharmaceutical manufacturing & emerging technologies and his research and academic leadership have been recognised in a range of awards, including the Royal Pharmaceutical Society Science Award and the Scottish Universities Life Sciences Alliance Leaders Scheme Award. His group is applying nano and microfabrication techniques in pharmaceutical and medical device manufacturing, such as 3D printing & bioprinting, electrospinning and microfluidics.



Dr. Martin Leonard

Dr. Leonard obtained his PhD in pharmacology in 2000 from University College Dublin, Ireland. He has over 15 years' experience as a toxicologist focussed to developing and improving on models and methods for assessment of toxicological hazard, including the use of high content omics technology and iPSC in vitro models of the airway. Dr. Leonard is a European registered toxicologist and currently holds a position as principal toxicologist at Public Health England directing research into the mechanisms of allergen and particulate hazard associated with asthma and allergic airway disease. Dr. Leonard has published extensively in the fields of toxicology, cell biology and immunology. In addition to section editor at Heliyon, he is also associate editor for the journal Toxicology in Vitro.

Physics

Meet the full editorial team for [Heliyon Physics](#).



Prof. Gerald Cleaver

Gerald B. Cleaver earned his Ph.D. in early universe cosmology and string theory at Caltech. He is a professor and graduate program director of the department of physics at Baylor University in Waco, Texas. He also heads the Early Universe Cosmology and String Theory (EUCOS) division of Baylor's Center for Astrophysics, Space Physics and Engineering Research (CASPER).

With CASPER colleagues, Prof. Cleaver (i) explores quantum gravity effects in the early universe and the signatures of specific quantum gravity proposals, especially with regard to the cosmic microwave background (CMB), (ii) studies relativistic thermodynamics and physics & cosmology applications to cryptography, (iii) analyzes spacetime curvatures (and their possible divergences) for theorized spacetime wormholes, and (iv) investigates advanced spacecraft propulsion systems. Prof. Cleaver was a member of a NASA blue-ribbon review committee for advanced propulsion system proposals. He has written over 100 journal articles and conference proceedings, is co-author of an elementary particle physics textbook, author of six book chapters, on the editorial board of four science journals, and referee for nine physics journals.

Psychology

Meet the full editorial team for [Heliyon Psychology](#).



Assoc. Prof. Heng Choon Oliver Chan

Dr. Heng Choon (Oliver) Chan received his Ph.D. in Criminology from the University of South Florida, FL, USA and M.A. in Forensic Psychology from Marymount University, VA, USA. He is currently an associate professor of criminology in the Department of Social and Behavioral Sciences at City University of Hong Kong, Hong Kong, SAR. Dr. Chan has published six academic books, with three as the sole-authored monographs on sexual homicide and Asian sexual offending and lead co-edited three reference books on the psycho-criminological aspects of different crime and criminal justice topics (i.e., Asian criminal justice, global stalking behavior, and African mental health and the criminal justice system). Besides, he has published over 100 peer-reviewed journal articles and books chapters, and presented at numerous international academic and field conferences.



Dr. Pavica Sheldon

Prof. Pavica Sheldon received her PhD in communication studies from Louisiana State University, and currently serves as chair and associate professor in the Department of Communication Arts at University of Alabama in Huntsville. Dr. Sheldon is an author of three books and over 40 journal articles, studying uses and gratifications of social media, and also how people communicate forgiveness in interpersonal relationships.

Quantitative biology, biotechnology and bioengineering

Meet the full editorial team for [Heliyon quantitative biology, biotechnology and bioengineering](#).



Dr. Andrea de Martino

Andrea De Martino received his PhD in theoretical physics from SISSA (Trieste, Italy). He worked at the Hahn-Meitner-Institut (Berlin, Germany), the Italian Institute for the Physics of Matter (Rome, Italy) and Sapienza University (Rome) before joining the National Research Council and, more recently, the Italian Institute for Genomic Medicine in Turin, where he is part of the Statistical Inference & Computational Biology Unit.

Dr. De Martino is generally interested in the physics of living systems across multiple scales, from single cells to ecosystems. He works in broadly defined systems biology (computational & mathematical biology, genome-scale models, bioinformatics, etc.). Dr. De Martino's favorite questions revolve around the functional roles of cell-to-cell heterogeneities, the interplay between physiology and gene expression in proliferating vs quiescent cells, the processing of information by biological networks, and the emergence of multi-cellular and population-level behavior.

Society and politics

Meet the full editorial team for *Heliyon Society and politics*.



Prof. P. Vigneswara Ilavarasan

P. Vigneswara Ilavarasan (PhD - IIT Kanpur) is a professor of information systems at the Dept. of Management Studies, Indian Institute of Technology Delhi. He researches and teaches about the interaction of information and communication technologies (ICTs), society, and business.

Dr. Ilavarasan has been a visiting research fellow at United Nations University - School of Computing and Society (Macau) and School of Management, Curtin University (Perth). He is a recipient of the Outstanding Young Faculty Fellowship Award at IIT Delhi and Prof. M.N. Srinivas Memorial Prize of the Indian Sociological Society. He is also a senior research fellow at LIRNEasia, a leading regional ICT policy and regulation think tank. He has received large research grants from Dept of Science & Technology (Govt of India), ICSSR (India), IDRC (Canada), Oxford Analytica (UK), IPTS (European Commission), CIPPEC (Argentina) and IdeaCorp (Philippines). His research has appeared in various leading international journals and at numerous global conferences.



Dr. Tomayess Issa

Dr. Tomayess Issa is a Senior Lecturer at the Faculty of Business and Law - Curtin University/Australia. Tomayess completed her doctoral research in Web development and Human Factors. As an academic, she is also interested in establishing teaching methods and styles to enhance the students' learning experiences and resolve problems that students face. Tomayess is a Conference and Program Co-Chair of the IADIS International Conference on Internet Technologies and Society and IADIS International Conference on International Higher Education. Furthermore, she initiated the IADIS conference for Sustainability, Green IT and Education. Currently, she conducts research locally and globally in Human-Computer Interaction, Usability, Social Networking, Sustainability, Sustainable Design, Green IT, Cloud Computing and Teaching and Learning. Tomayess published her work in several peer-reviewed journals, books, book chapters, papers and research reports and participated in local and global conferences. Tomayess Issa was a coordinator in the International research network (IRNet-EU (Jan2014 – Dec 2017)) to study and develop new tools and methods for advanced pedagogical science in the field of ICT instruments, e-learning and intercultural competences. Tomayess Issa is a senior research member of ISRLab (Information Society Research Lab) from International Association for Development of the Information Society. Finally, Tomayess supervised PhD, Master of Phil and Master Dissertations; and she received Curtin Guild Awards for her teaching and supervision. In 2017, she received the overall winner Student Guild Outstanding Achievement in Teaching Excellence 2017 Award for university-wide. Tomayess received 2021 Green Gown Awards Australasia -Next Generation Learning and Skills - Highly Commended to the Green Information Technology and Sustainability unit.



Assoc. Prof. Dimitris Tsarouhas

Dimitris Tsarouhas, PhD is Visiting Associate Professor at the Department of Political Science, Virginia Tech, and Associate Professor at the Department of International Relations, Bilkent University, Turkey. He is a Non-Resident Senior Research Fellow at the Hellenic Foundation for European and Foreign Policy (ELIAMEP) and a Scientific Council Member of the Foundation for European Progressive Studies (FEPS) in Brussels.

Tsarouhas is the co-editor (with Owen Parker) of *Crisis in the Eurozone Periphery: The Political Economies of Greece, Spain, Portugal and Ireland* (London: Palgrave 2018), author of *Social Democracy in Sweden: the Threat from a Globalized World* (London and New York: I.B. Tauris, 2008) and co-editor of *Bridging the Real Divide: Social and Regional Policy in Turkey's EU Accession Process* (METU Press 2007). His research has been published in numerous book volumes and journals such as *Regulation & Governance*, *New Political Economy*, *Journal of European Integration*, *Public Administration*, *Comparative European Politics*, *Cambridge Review of International Affairs*, *Social Politics*, *Social Policy & Administration*, *Political Studies Review*, *Armed Forces & Society*, *European Journal of Industrial Relations* and *Southeast European and Black Sea Studies*.

Veterinary Science

Meet the full editorial team for *Heliyon Veterinary Science*.



Prof. Benjamin Emikpe

Prof. Benjamin Emikpe is a Professor of diagnostic and toxicological pathology and Dean, School of Veterinary Medicine, Kwame Nkrumah University of Science and Technology, (KNUST) Kumasi, Ghana. His research had been on the diagnosis of endemic, emerging and zoonotic diseases affecting livestock, zoo and threatened wildlife. His interest is in One health and pulmonology with intranasal vaccination approaches to control of major pneumonia in domestic animal and the use of phytogenic delivery of Newcastle

disease and Infectious bursal disease vaccines in poultry. He has graduated 19 doctoral students in the diagnosis of endemic and emerging disease, use of vaccine delivery, probiotics and phytobiotics to control caprine, swine, fish and wildlife diseases. He has published extensively and had been plenary speaker in international conferences and workshops on livestock, wildlife disease diagnosis and One health.

Women's health

Meet the full editorial team for [Heliyon Women's health](#).



Dr. Lena Serghides, PhD

Lena Serghides is a Senior Scientist at the Toronto General Hospital Research Institute, University Health Network, an Assistant Professor in the Department of Immunology and a Member of the Institute of Medical Sciences at the University of Toronto, and an Adjunct Scientist at the Women's College Research Institute, Women's College Hospital. She received a B.Sc. in Biology from Wilfrid Laurier University and a Ph.D. in Medical Sciences from the University of Toronto. Her lab's research is motivated by the goal of optimizing maternal and infant health in the context of infections of global health importance including HIV and malaria. Her current research focus is on understanding the mechanisms that contribute to the increased risk for adverse pregnancy outcomes in women living with HIV – with a special focus on the placenta, as well as understanding the long-term effects of in utero exposure to HIV and HIV antiretrovirals.

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