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Annual report

Biomédica

REVISTA DEL INSTITUTO NACIONAL DE SALUD

Volume 44, 2024

24

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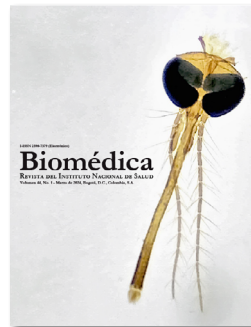
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Dear readers,

As usual, in this newsletter we share some of the results of 2024 related to the management of *Biomédica*, the journal of the Colombian *Instituto Nacional de Salud*. *Biomédica* published four regular issues and two thematic supplements, addressing chronic non-communicable diseases and clinical immunology. In addition, the journal stood out in the scientific-artistic field with the 2023 *Biomédica* Photography Contest, which connected science and creativity.

This year, the journal's impact factor reached 0.8, reflecting *Biomédica*'s commitment to quality and international visibility. *Biomédica* strengthened its connection with the scientific community, with more than 365,000 sessions on its website and a significant growth in social networks; 240 manuscripts were received, and 16.6% were accepted; editorial policies were updated to improve the access and quality of its publications. This bulletin shows that *Biomédica* has become a reference journal for scientific dissemination in public health and biomedicine.

The following were the regular issues published last year:

**Biomédica, volume 44, number 1**

Publication date: March 2024

Cover: First place, category II - Microscopic photography, *Biomédica* Photography Contest - 2023

Culex pipiens head, vector of the Japanese encephalitis, SMZ-171 stereoscope; Diego Fernando López and Juan Diego Rivera-Villota, Unidad Central del Valle

Editorial: "Vitamin D: Synthesis, deficiency, polymorphisms and resistance to its action in Latin American countries"; Pedro Nel Rueda-Plata

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/201>

**Biomédica, volume 44, number 2**

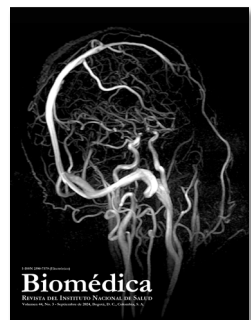
Publication date: June 2024

Cover: First place, category VI – Environmental or historical, *Biomédica* Photography Contest - 2023

"Water genesis"; Chingaza paramo, La Calera, Cundinamarca, Colombia; Nikon D5600 camera, 18-55 mm lens; Pedro José Quiroga, Universidad de los Andes, Bogotá, D. C., Colombia

Editorial: "When air became public domain"; Luis Jorge Hernández-Flórez

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/203>

**Biomédica, volume 44, number 3**

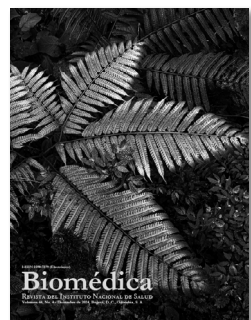
Publication date: September 2024

Cover: First place, category V - Imaging, *Biomédica* Photography Contest - 2023

Venography of a human brain by magnetic resonance, without contrast medium, posterior and right lateral view, General Electric™ MRI machine, 1,5 teslas; Felipe Rojas Borda and Marco Luciano Charry, Universidad Militar Nueva Granada, Hospital Militar Central, Bogotá, D. C., Colombia

Editorial: "Interconnection between medical and social research"; Diego M. López

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/204>

**Biomédica, volume 44, number 4**

Publication date: December 2024

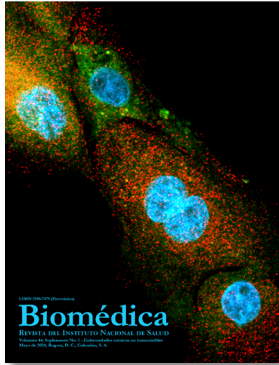
Cover: First place, category I – Plant or animal photography, *Biomédica* Photography Contest - 2023

"Ferns of the cave"; La Tronera cave, El Peñón, Santander, Colombia, Nikon 5600 camera, 18-55 mm lens, ISO 320, f/10, 1/40 s, focal length: 16 mm; Pedro José Quiroga, Universidad de los Andes, Bogotá, D. C., Colombia

Editorial: "Genomics in parasitology: Accomplishments and challenges"; Concepción Puerta

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/207>

Thematic supplements 2024



***Biomédica*, volume 44, supplement 1: Chronic non-communicable diseases**

Publication date: May 2024

Cover: First place, category III - Microphotography, *Biomédica* Photography Contest - 2023
Biogenesis of CD81+ vesicles in human melanoma cells, Zeiss LSM 900 confocal microscope with Airyscan 2, 40X; Laura Fernández Fonseca, Susana Novoa, Luis Alberto Gómez, and Alicia Rosales, Dirección de Investigación en Salud Pública, Instituto Nacional de Salud, Bogotá, D. C., Colombia

Editorial: "Following the roadmap outlined by the World Health Organization: Innovation for the control of chronic noncommunicable diseases"; Ricardo A. Peña-Silva and Juan Sebastián Reyes-González

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/202>



***Biomédica*, volume 44, supplement 2: Clinical immunology**

Publication date: December 2024

Cover: First place, category IV – Electronic microscopy, *Biomédica* Photography Contest - 2023
Solanum tuberosum stomata infected with *Phytophthora infestans*, scanning electron microscope, Centro de Microscopía Avanzada, Universidad de Antioquia, Medellín, Colombia; Edgar Javier Rincón Barón, Laboratorio de Investigación e Innovación en Biotecnología Agroambiental - LIIBAAM, Universidad de Santander, Bucaramanga, Colombia

Editorial: "Cruising the transition: Challenges and opportunities when caring for immunity inborn error patients"; Andrés Felipe Zea-Vera and Lina María Castaño-Jaramillo

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/206>



***Biomédica*, volume 44, special issue, Biomédica Photography Contest - 2023**

Publication date: April 2024

Presentation: Carlos Arturo Hernández

Available at: <https://revistabiomedica.org/index.php/biomedica/issue/view/205>

Information on manuscripts published in 2024 by category

During 2024, *Biomédica* published its four regular issues on the stipulated dates: March, June, September, and December, and two thematic supplements in May and December.

The following manuscripts of different categories were published in the regular issues and thematic supplements:

Volume, number, month	Published manuscripts	Number
Volume 44, number 1, March	Editorial	1
	Case report	2
	Original research	5
	Brief communication	3
	Technical note	1
	Total	12
Volume 44, number 2, June	Editorial	1
	Case report	1
	Original research	8
	Brief communication	1
	Review	1
	Total	12
Volume 44, number 3, September	Editorial	1
	Case report	1
	Essay	1
	Original research	9
	Total	12
Volume 44, number 4, December	Editorial	1
	Case report	4
	Original research	7
	Brief communication	1
	Total	13
Volume 44, supplement 1, Chronic non-communicable diseases, May	Editorial	1
	Case report	3
	Essay	1
	Original research	12
	Brief communication	1
	Total	18
Volume 44, supplement 2, Clinical immunology, December	Editorial	1
	Case report	5
	Make the diagnosis	1
	Original research	13
	Technical note	1
	Review	3
	Total	24

Manuscripts received in 2024

Table 1. Manuscripts discriminated by section, as of December 31st. 2024

Section	2024	
	n	%
Original research	155	64.7
Brief communication	3	1.3
Essay	5	2.1
Make the diagnosis	1	0.4
Biomedicine imaging	1	0.4
Technical note	2	0.8
Case report	65	27.1
Historical review	4	1.6
Review	4	1.6
Total	240	100

Table 2. Manuscripts classified according to authors' institutional affiliation, as of December 31st. 2024

Institution	2024	
	n	%
Instituto Nacional de Salud (INS)	3	1.3
INS collaborating with national institutions	3	1.3
Other national institutions	149	62.1
International institutions	69	28.7
National and international institutions	16	6.6
Total	240	100

Table 3. Status of the manuscripts received in 2024 as of December 31st. 2024

Status	2024	
	n	%
Accepted	40	16.6
Rejected	116	48.4
In editorial process	84	35
Total	240	100

Information of interest

As part of *Biomédica*'s continuous improvement plan, several editorial actions have been taken, including the periodic review and updating of the editorial policy and instructions for authors, dissemination of contents and implementation of technological tools that enhance quality, visibility and accessibility to journal's contents.

Journal Citation Report (2023)

According to the information published by the Journal Citation Reports, published in June 2024, the impact factor of *Biomédica* was 0.8.

Biomédica Photography Contest - 2024

On December 1st. 2024, *Biomédica* published the results of the *Biomédica* Photography Contest - 2024. This issue was edited by Dr. Carlos Arturo Hernández and the special online number devoted to the contest will be published in the first quarter of 2025. The winners are listed below available at <https://revistabiomedica.org/index.php/biomedica/announcement/view/79>

I. Plant or animal macrophotography

First place: "Between light and disease," Paul Quinatoa Tutillo, province of Orellana, Ecuador

Second place: *Compsus auricephalus*, Diego Fernando Rodríguez, Jardín Botánico, Bogotá, D. C., Colombia

II. Microscopic photography of insects, parasites, direct smears, lesion scrapings, microbiology cultures, and similar

First place: Terminalia of a male specimen of *Aedes (Ochlerotatus) serratus* (Theobald, 1901), Orinoco River, Bojowani Reserve; Emilio Alejandro Bocanegra-Dueñas and Jorge Luis De las Salas, Laboratorio Departamental de Salud Pública de Vichada, Puerto Carreño, Vichada, Colombia

Second place: *Fasciola hepática*; Diego Fernando López, Juan Diego Rivera, and Cristhian Camilo Velandia- Mosquera, Unidad Central del Valle del Cauca, Tuluá, Valle, Colombia

Third place: Adult male of *Trichuris trichiura*; Juan Camilo Galvis-Marín and Fredy Alexander Tabares-Villa, Microbiología y Parasitología, Facultad de Ciencias de la Salud, Universidad Tecnológica de Pereira, Pereira, Risaralda, Colombia

III. Microphotography at any magnification, with any coloration and any type of microscope

First place: Cross-section of a frog head from the *Andinobates* genus; Edgar Javier Rincón Barón, Universidad de Santander, Bucaramanga, Santander, Colombia

Second place: Longitudinal section of a muscle infected with encysted larvae of *Trichinella spiralis*; Juan Diego Rivera, Cristhian Camilo Velandia, and Diego Fernando López, Unidad Central del Valle del Cauca, Tuluá, Valle, Colombia

Third place: Morphology of LLC1 (Lewis Lung Carcinoma 1) derived from *Mus musculus*, characterization of cultured lung cancer cells *in vitro*; Karen Gisselle Rodríguez Pintor, Carolina Palacios Montoya, Valeria Hernández Giraldo, and Juan C. Calderón, Grupo de Investigación en Fisiología y Bioquímica - PHYSIS, Faculty of Medicine, Universidad de Antioquia, Medellín, Antioquia, Colombia

IV. Transmission or scanning electron microscopy

First place: Surface of a mature pollen grain of *Persea americana* (avocado); Edgar Javier Rincón, Universidad de Santander, Bucaramanga, Santander, Colombia

Second place: *Escherichia coli* bacteria obtained with an ultramicrotome; Daniel Abella-López, Grupo de Virología Molecular, Centro Singular de Investigación en Química Biológica y Materiales Moleculares -- CiQUS, Universidad de Santiago de Compostela, Santiago de Compostela, España

V. Imaging: radiology, computed tomography, magnetic resonance imaging, PET/CT or other similar

No contributions were received for this category.

VI. Environmental or historical photograph

First place: "El Dulima by night, snow-capped volcano of Tolima, a titan rammed by the clouds, greeted by the stars"; Pedro José Quiroga, Universidad de los Andes, Bogotá, D. C., Colombia

Second place: Andean bear cub (*Tremarctos ornatus*), buffer zone of the Guasca paramo; John Francisco Ávila, Universidad de La Salle, Bogotá, D. C., Colombia

Third place: Spectacled parakeet (*Forpus conspicillatus*), Reserva Natural de la Laguna de Sonso, Valle del Cauca; Juan Diego Rivera-Villota, medical student, Semillero en Enfermedades Infecciosas - ENITRANS, Unidad Central del Valle del Cauca, Tuluá, Valle, Colombia

Web analytics

According to statistics from Google Analytics, between January 1st. and December 31st. 2024, our website (<https://revistabiomedica.org>) registered 365,906 visits from people located in Colombia, México, Perú, Spain, Argentina, United States, Ecuador, Chile, Venezuela, and Bolivia. Out of the 272,637 users, 269,082 were first time visitors, while 3,555 were frequent visitors. These individuals spent a media of 2 minutes and 52 seconds per session, viewed about 1.71 internal pages per visit and used desktop computers (58.7%), mobile devices (40.3%), or tablets (1.0%).

Regarding traffic sources, internet users found our articles and information of interest through Google Chrome, visiting the *Biomédica* website directly – because they were already familiar with it –, and by clicking on the links we included in the different newsletters and in the notifications sent by e-mail. Also, others were referred from specific pages such as: the database of specialized literature in biomedicine and health sciences, PubMed; the electronic library SciELO Colombia; the *Instituto Nacional de Salud de Colombia*; the search engines Bing and Google Scholar; the Virtual Health Library, coordinated by the Latin American and Caribbean Center for Health Sciences Information, the Pan American Health Organization and the World Health Organization; and the bibliographic portal Dialnet of the *Universidad de La Rioja*.

The visits by number were as follows:

- Volume 44, number 1, published in March: 1,919 views
- Volume 44, special issue dedicated to *Biomédica Photography Contest - 2023*, published in April: 1,721 views
- Volume 44, supplement 1 about chronic non-communicable diseases, published in May: 2,399 views
- Volume 44, number 2, published in June: 1,907 views
- Volume 44, number 3, published in September: 2,197 views
- Volume 44, supplement 2 about clinical immunology, published on December: 771 views
- Volume 44, number 4, published in December: 1,436 views

Social networks

In relation to the presence of *Biomédica* on Facebook, X, LinkedIn, and Instagram, we announced in these platforms the online publication of issues 1, 2, 3 and 4, supplements 1 and 2, and the third edition of the special issue of the scientific photography contest. All issues were part of volume 44 of *Biomédica*. At the same time, the author's abstracts included in these editions were periodically shared to facilitate the understanding of the findings presented by researchers and to contribute to the dissemination of science.

Additionally, our social media accounts were used to:

1. Publicizing the call for the fourth version of the *Biomédica* Photography Contest and publishing its results.
2. Maintaining constant interaction with the virtual community by bringing them important information on the sector and resolving their frequent concerns, and
3. Encouraging the submission of research papers for the thematic supplements on chronic non-communicable diseases, clinical immunology, digital technology and artificial intelligence in health, and climate change and health (the call for these last two special issues will close at the end of February 2025 and these editions will enter into circulation during the second half of the same year).

Lastly, *Biomédica* ended 2024 with an increase in the number of followers, who were aware of its content, participated actively, and contributed to the exchange of scientific knowledge in digital environments: 4,063 on Facebook; 3,431 on X; 1,221 on LinkedIn, and 625 on Instagram.

To ensure the continued growth of the magazine's virtual community, we encourage you to stay connected at:

<https://www.facebook.com/RevistaBiomedicalNS>

https://x.com/Biomedica_INS

<https://www.linkedin.com/company/biomedica-revista-del-instituto-nacional-de-salud>

<https://www.instagram.com/revistabiomedica>

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We thank the editors, the scientific community, and the reviewers for helping us fulfilling the purpose of growing and gaining visibility and recognition internationally, as a way to support and promote scientific production generated in Colombia and Latin America.