



# Word from the President



**Dear fellow Entomologists,**  
COVID-19 remains with us, demanding great emotional strength from everyone. I hope you are well! This pandemic forced the Board and Advisory Board to make important decisions to adapt SEB's bylaws and the dates of our events. We thank everyone who participated in the Extraordinary General Meeting of SEB on February 23, 2021. See details below about the "Women in Entomology" project, which has brought important infor-

mation not only about women's participation, but also about how our Society can act better to benefit our entomologists. This newsletter contains positive reports like the publication of a new book in the series "Entomology in Focus" by Publisher Springer/Nature; renewal of the contract with Springer for publication of *Neotropical Entomology*; celebration of 50 years of *Neotropical Entomology* (NE); news that the publication of articles by Entomological Communications has exceeded expectations; and the deserved tribute from *Zootaxa* journal to our Advisory Board president, Jocélia Grazia. Read the tips for "Macro photography of insects"; news in the "Nomenclator Entomologicus"; the events in

entomology that will take place in 2021; reading tips at "Worth reading"; the experience of *Insects of the Sertão* on Instagram; and finally *Entomoart*, Comic strip, and Photo featured in this ISEB.

We thank Wanessa Scopel for her dedication to ISEB during these years and we welcome Jaqueline Magalhães to the editorial team.

Thank you very much to all entomologists! Let us press forward!

Sincerely,  
**Eliane D. Quintela**

## Activities of the Board

### Extraordinary General Meeting of SEB

On February 23, the Extraordinary General Meeting of SEB was held virtually, with the presence of 21 participants. The proposed agenda was to amend the SEB by-laws and to report the change in the date of the XXVIII Brazilian Congress of Entomology (CBE) and XVII Symposium on Biological Control (Siconbiol), as well as adjustment in the Organizing Committee of the XXVIII CBE.

During the Assembly, the current evolution of the pandemic in Brazil was addressed and the uncertainty

about the holding major events by September. Due to the current scenario, still imposed by the pandemic of the new coronavirus - COVID-19, the board of SEB and the Advisory Board decided once again, to postpone the CBE, which will be held from August 30 to September 2, 2022. Therefore, Siconbiol will be postponed from 2022 to 2023, and the dates to be defined by the Organizing Committee. Due to the date change of CBE to 2022 and previous commitments of event chair, Nivia Dias, the chair will be assumed by the current SEB treasurer, Flávia Barbosa and the vice-chair by Nivia Dias.

In view of the change of Congress from 2020 to 2022, a change in one paragraph of the SEB Statute was required so that the current board of directors could maintain their commitments, until the election of the

new board, which will be held at the 2022 Congress. A vote was conducted on the SEB website, with immediate results and unanimous approval for the amendment.

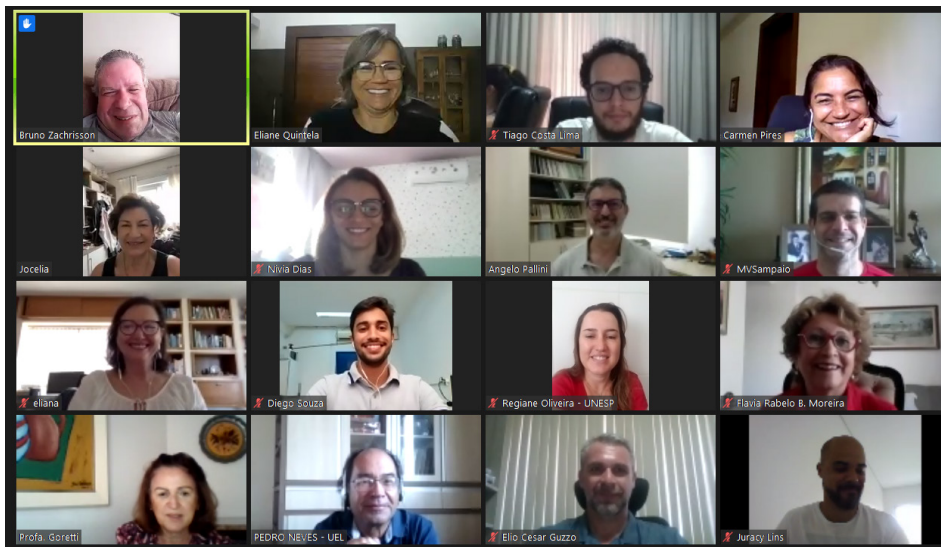
### The Women in Entomology Project

The "Women in Entomology" project was conceived by the SEB Board of Directors, interested in presenting a portrait of the role the women play in entomology in Brazil and their contribution to world science. The aim is to uncover the participation of women in the world of insects, how they became interested in this group of organisms, where they are working (whether in research, teaching, extension, innovation, or government), if women have greater or lesser participation in leadership roles, whether they have preferences for specific areas of Entomology, and more.

Once started, the project was expanded to a larger portrait of insect professionals in Brazil, including men and women.

This analysis will allow SEB's Board of Directors to direct its actions towards the achievement of specific objectives and targets, in its role to support Science, Technology, and Innovation policies that favor its members. For example, the information will be useful to guide future traditional activities of SEB, such as the CBE and Siconbiol, for the promotion of new initiatives and internal policies, in addition to supporting proposals or positions about national public policies.

The project is led by SEB, which hired three brilliant young researchers to develop the research: Juliana Hipólito, Leila Shirai, and Rosana Halinski. All three, of course, work with insects. Part of the project's methodological process is the application of questionnaires, interviews (in groups and/or indi-



viduals) and the development of research activities. You may be invited to participate in some of these activities. SEB thanks you in advance for your collaboration.

#### A new book from SEB's Entomology in Focus series to be published in 2021

The book titled "Electronic Monitoring of Feeding Behavior of Phytophagous True Bugs (Heteroptera)" was recently announced by Antônio Ricardo Panizzi, Tiago Lucini, and Paula Levin Mitchell. The book is part of SEB's *Entomology in Focus* series with publisher Springer/Nature, this being volume number 6. This book compiles for the first time all the current information on the electronic monitoring of the feeding behavior of phytophagous true bugs. It includes state-of-the-art illustrations of feeding sites on the various plant structures and examines how the different feeding strategies are related to the variable waveforms generated using the electropenetrography (EPG) technique. In addition, the book describes the mouthparts and modes of feeding and discusses the physical and chemical damage resulting from feeding activities. Covering in detail all EPG studies conducted using true bugs published to date, it explores the use of electronic monitoring of feeding coupled with histological analyses to improve strategies to control true bugs, from traditional chemical methods to gene silencing (RNAi).

The book will be published in the traditional paper version with a hardcover and as an e-book and will be available beginning on April 4, 2021. The paper version can already be purchased, for 135.19 euros. More information can be obtained on the Springer/Nature website: <https://www.springer.com/gp/book/9783030646738>

## Neotropical Entomology

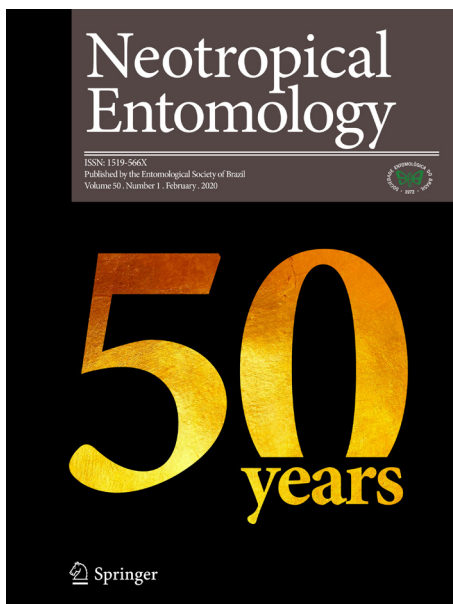
#### Contract renewal with Springer

SEB renewed the contract with Springer for publication of *Neotropical Entomology*, valid until 2027. This contract included the end of the print edition and the end of the subscription payment. Active members continue to access the journal online through the Springer website, through the association code available in the member's area. Unfortunately, the discount on the purchase of books from Springer will no longer be granted, due to the restructuring of the company, which completely separated their journal and book business.

We thank Springer for the partnership and support throughout these years, especially the Editorial Manager of Springer in Brazil, Luciana Christante de Mello.

#### 50 years of Neotropical Entomology

In 2021, we celebrated the 50th anniversary of *Neotropical Entomology* (NE), whose title was originally *Anais da Sociedade Entomológica do Brasil* (ASEB). Since the publication of the first issue in 1971, the scope of ASEB/NE has been the dissemination of original entomology research produced in Brazil and, subsequently, throughout the neotropical region. As the journal became better known, its co-



verage became worldwide. In 2019, the published articles originated from more than 40 countries, mainly from the tropical and subtropical areas of the planet. The Journal's history indicates the many difficulties encountered in continuously publishing it for this length of time. The success must be credited to the effort and dedication of the Chief Editors, the Editorial Board, and the Boards of the Entomological Society of Brazil (SEB). We are grateful to all those who dedicated their time, experience, and expertise to make *Neotropical Entomology* (NE) a prestigious and internationally recognized Journal. The first issue of Volume 50 of *Neotropical Entomology* (V50-1) was published online in early February of this year and includes an Editorial recounting of the entire history of the journal, as a tribute to the editors and collaborators who have worked during these five decades. The editorial is one of many actions to celebrate these 50 years of continuous growth in quality and recognition. It was written by the current editors, in co-authorship with Daniell Rodrigo Rodrigues Fernandes (editor-in-chief of *Entomological Communications*) and Antônio Ricardo Panizzi (former editor-in-chief of NE).

Still, in the rhythm of celebration, we created commemorative trademarks that already appear on the NE website and in articles published online first. See <https://www.springer.com/journal/13744> for the 50th anniversary cover, the new cover page format, and in the pdf version of the articles, the stamp attached to the logo of the Entomological Society of Brazil.

In these 50 years, we have much to celebrate. In 2020, we received good news about the improvement in the quality indexes of the journal. The Impact Factor, for example, has grown by 45% in the past two years, and *Neotropical Entomology* now ranks among the top 50 indexed entomology journals, according to the Journal Citation Reports (JCR); and we keep improving. In 2020, more than 450 manuscripts were submitted for evaluation and, despite the difficult year, we maintained our goal of less than 40 days between submission of the article and the first response. We believe that we also managed to maintain an average of around 170 days between receipt of the manuscript until acceptance.

More commemorative events are scheduled. We are planning a series of lives with renowned researchers and the organization of a set of conferences at the next Brazilian Congress of Entomology, which will take place in August/September, in Fortaleza. Other surprises are coming, so stay tuned.

A happy new year to all, full of peace, hope, health, and resilience.

**Eliana Fontes**

**Raul Lauman**

Chief Editors of *Neotropical Entomology*  
Entomological Society of Brazil



**ENTOMOLOGICAL  
Communications**

#### Dear readers,

If we could define the year 2020 in one word, it would be "resilience". Even with a completely difficult year for everyone, this editorial department strove to achieve the objectives set for the year. We closed volume 2 with 38 articles published (more than double published in 2019) and reached the mark of 9,000 downloads and more than 25 citations on Google Scholar. For 2021, our goals are even more ambitious. Although we work on a continuous-flow publishing regime, our goal for this year will be to publish one article a week. Besides, we will appeal for indexing in new databases. In terms of innovation, we will optimize some plug-ins from our website (OJS) to make the process more dynamic. From the next update, it will only be possible to submit the article with all authors registered in the system and linked to ORCID. This update is essential for the reliability of the authorship; furthermore, the metadata will be sent to the authors' ORCID immediately after the publication of the articles. Additionally, we will work to achieve a partnership with Publons (so that peer reviewers will be able to add their editorial contributions to their respective ORCIDs). Another priority in 2021 is the use of alternative metrics. Since the end of 2020, we have been testing the Altmetric, PlumX, and Dimensions tools for free. These tools will measure how much our articles are being discussed and commented about on social networks and the internet (Twitter, Facebook, Blogs, Wikipedia, Reddit, Mendeley, etc.) in addition to quotes in Dimensions Citation Data. All of this will be interconnected in 2021. That is, each time the DOI of an article is mentioned on one of these platforms, it will be counted for these metrics. Thus, we request that authors publish their work on social networks using the DOI of the articles, so these platforms will track the reach of the works. We hope that in 2021 Entomological Communications will be your choice when it comes to releasing your data in a brief, fast, free, and quality way. Access our website and follow our social networks on Instagram, Facebook, and Twitter (you will find a link to social networks in the "Follow" tab at the beginning of our page - <https://www.entomologicalcommunications.org/>).

**Daniell Rodrigo Rodrigues Fernandes  
& Rafael Major Pitta**

Chief Editors of *Entomological Communications*  
Entomological Society of Brazil



# Focus Entomology

## Discovering another world from insect macro photography

Have you ever thought about how many things go unnoticed by your eyes every day? Nature presents several forms of manifestations, which we usually fail to notice and end up ignoring all the admirable beauty of this (almost) invisible world. They are colors, shapes, and textures that surround us all the time and that are completely imperceptible by many. One way to reach all this diversity of visual perceptions and enter this fantastic world is through macro photography.

This, which is one of the main aspects of photography, enchants everyone since its main function is to enhance tiny details from the world around us. Think of macro photography as an art form, just like music. To produce amazing photos, you must realize the importance of each piece that will compose the final image, which are the subject, light, focus, composition, and finally, the edition to be used to finalize and immortalize that fraction of second you captured it on your camera.



But what is macro photography? Well, in a nutshell, macro photography is the technique of photographing at a very short distance, enlarging subjects with the help of special lenses and/or dedicated accessories, such as extension tubes, reversal rings, bellows, and close-up filters. Every day, more and more digital cameras are launched on the market, with capacities, effects, and technologies to make life easier for lovers of macro photography. Currently, the power to observe the tiny aspects of nature is in the palm of everyone's hand, since smartphones are already capable of producing good magnifications, especially if they rely on the help of small close-up filters that can be attached to any device. Several digital resources, such as applications dedicated to image editing, are also available, which amplify the beauty of the photo, making it more attractive, through color balance, use of selective focus, increased sharpness, among other numerous features.

Exploring the macro world is definitely for those who are not content to observe only what they can normally see. Nature lovers spend hours searching for treasures hidden among flowers and leaves, in their backyards or gardens, or anywhere that has something to discover. Who has never been in an unorthodox position to try to capture the image of an insect in the leaf? Or did you have to go out

of your way to photograph that tiny flower with its reproductive structures full of unique textures? Outdoor macro photography is quite fun and rewarding since almost everything around you is a potential subject.

Perhaps there is no better subject to be photographed by macro photography enthusiasts than insects. These little creatures are extremely photogenic, as they sport spectacular colors and structures, such as the scales on the wings of a butterfly, the sutures and carinas on the elytron of a beetle, the thousands of facets on the eyes of a fly, or the infinite setae of a bee. In addition, insects have the most varied and unusual habits that arouse the curiosity and fascination of even those who have studied them for years. Macro photography has the power to bring these scenes together, transporting the photographer or viewer of the image into the world of insects.

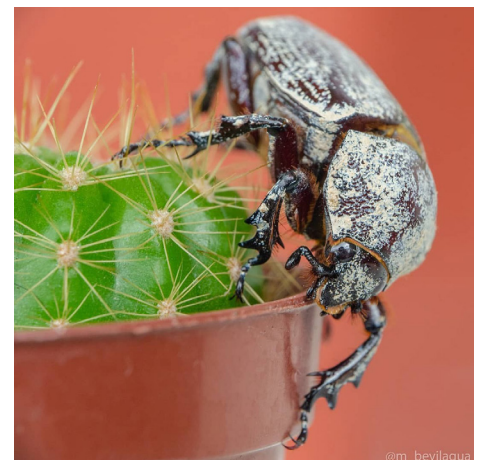
Undeniably, watching and photographing insects is like discovering a whole new world. Can you imagine yourself only a few millimeters tall and living in that environment? These animals are easily found as they are almost everywhere. You can observe them in forests, fields, lakes, and even in our homes. Even in a short walk through a garden or park, you can encounter different types of insects hidden among the leaves, on the ground, in the trees, or under rocks, inspiring you to find a good angle and click without fear. All you have to do is just notice them and have the patience to photograph them.

The best time to photograph insects is at dawn, as this is when the temperatures are lower, and most insects are less active. This makes it much easier, as it allows you to get closer and seek different angles without the risk that the animal will flee. Another advantage of photographing them in the morning is that during this period the natural light is more diffuse, making it easier to play with the light/shadow. However, artificial light sources such as flashes or flashlights can be used either to illuminate the subject more or to make silhouette clippings, allowing you to take amazing photos. However, only the act of photographing may not result in a good image if it is not properly edited, since the raw images leave the cameras and



need adjustments and/or corrections. Dozens of software are available that allow you to make small modifications to the photo, even create surreal images through graphic manipulations.

In addition to the remarkable cultural and artistic importance of macro photography, in the academic environment, especially in entomology, this technique is widely used in several scientific publications. Macro photographs taken in the field or in the laboratory can represent insects in their natural environments with behaviors not yet known. Structures that will be part of taxonomic articles can be portrayed to help reduce the subjectivity of character descriptions, to represent what it really is. Some insect species have even been described from macro photography published on social networks. Thus, the plurality of uses for this photographic genre is remarkable.



Photographing small subjects is fun, and having the basic equipment is essential, but it will not necessarily produce good photos. The more you experiment and adjust your technique, the better your images will be. Practice a lot, because the old saying "practice makes perfect" is particularly applicable to macro photography. Photographing small objects at a short distance puts a new and different aspect on everything. The main idea is to take lots and lots of macro photos, become completely familiar with the features of your camera, and do several tests in image editors. Macro photography is a fascinating genre that can become a pleasurable life-long hobby.

**Marcus Bevilaqua**  
Master in Entomology – INPA

## Members

### Jocélia Grazia will receive a tribute with a special number from Zootaxa

Zootaxa Journal will have a special publication number in celebration of the career and life of Professor Dr. Jocélia Grazia (UFRGS). The volume will come out soon, containing 42 articles, more than 60 authors from 12 countries, and 4 continents. Many new taxa will be described, of which six genera and 33 species in honor of Professor Jocélia, in addition to other new species. Professor Jocélia was surprised by the news at a live broadcast, in late February. Check it out at: <https://www.youtube.com/watch?v=15TCr25fDZO>

SEB congratulates the brilliant entomologist Jocélia Grazia, an example of a professor and scientist, who deserved this tribute.



### The passing of Ivan Corso, a reference in integrated pest management

Embrapa Soja retired researcher Ivan Carlos Corso, 71, died on March 3, in Londrina (PR). Corso worked at Embrapa Soja from 1975 to 2009, with the Entomology team. The researcher graduated in Agronomic Engineering, in 1971, from the Federal University of Rio Grande do Sul. In 1974, he started his master's course at the same university, with the support of the National Plan for Soy, an arrangement coordinated by the Ministry of Agriculture, which involved universities and research institutions.

He was supervised by Dr. Miguel Dalmo de Menezes Porto and co-supervised by Dr. Elvis Heinrichs,



associated then with the University of Arkansas. His dissertation addressed the relationship between the associated effect of stink bugs and fungi in the production and quality of soybean seeds (*Glycine max* (L.) Merrill), as well as in the transmission of diseases.

At Embrapa Soja, he initially dedicated himself to the study of biological control of insect pests by pathogenic agents, in particular, the control of the soybean caterpillar by a nuclear polyhedrosis virus. Subsequently, he shifted his attention to studies involving the chemical control of soybean pests, always considering the sustainability aspects of phytosanitary measures, such as the need to minimize their impacts on biodiversity, especially useful insects such as parasitoids and predators.

Ivan Corso became a reference on the topic and was consulted by official bodies, cooperatives, technical assistance entities, and individual producers. Thus, his role as a researcher in entomology was always accompanied by his involvement in technology transfer and the source of information for various links in the soy chain.

With remorse, SEB says goodbye to the entomologist Ivan Corso, who contributed greatly to the advancement of Brazilian Entomology. We give our sincere condolences to his family and friends.

Source: <https://www.embrapa.br/busca-de-noticias/-/noticia/59793913/embrapa-soja-despede-se-de-ivan-corso>

## Entomology on the Press

### Museum of Entomology versus Pandemic

The pandemic caused by the Sars-CoV-2 coronavirus forced the temporary closure of museums and other cultural spaces, but creativity, combined with technology, brings knowledge and entertainment through exhibitions in a virtual environment into homes. This is the case of the Museum of the Instituto Biológico (IB-APTA). Those who visit the site: [planetainseto.com.br](http://planetainseto.com.br) will find curiosities about insects, learn a little about insects of medical importance, sustainable technologies linked to Entomology, and other information that connect insects to people's daily lives. On the website, it is possible to learn about agricultural pests, their general classification, popular name, general biology of the insect, and other curiosities. The main attractions are common and giant mealworm beetle, silkworm, stick bugs, leafcutter ant, bees, among others. Mimicry, biodiversity, the importance of insects, camouflage, pollinators, and even entomophagy are topics covered. You can learn how biological control works with the use of fungi, nematodes, parasitoids, and predators. For those who are even more interested in the subject, it is possible to see online how a laboratory specialized in Entomology works! The "Planeta Inseto" is considered the only insect museum in Brazil. Since its inception in 2010, it has already received more than 400 thousand visitors. This museum is an excellent source to obtain knowledge about the most common insects of our day to day, and great interactive bibliography to optimize knowledge in this area in elementary and high school, in addition to being a form of entertainment in times of social isolation. "The only insect zoo in Brazil, authorized by Ibama and the São Paulo State Environment Secretariat" can be visited at this link: <https://planetainseto.com.br/> Source: *Secretary of Agriculture and Supply, Instituto Biológico (IB) – São Paulo*



Credit: Planeta inseto: <https://planetainseto.com.br/atracoes-do-planeta-inseto/bicho-da-seda/>

## Nomenclator entomologicus

108. *Trichopria anastrephae* Lima, 1940 has been recorded as pupal parasitoid of fruit flies in Brazil. Even though it is well described and illustrated, there is still some uncertainty regarding the recognition of the species, mainly due to the lack of a taxonomic review of

the neotropical species of the genus. Therefore, it is appropriate, for the time being, to use *Trichopria* sp. aff. *anastrephae* for this diaptiid parasitoid of fruit flies, until its identity is clarified.

**Reference:** Shimbori EM, Costa VA, Zucchi

RA(2020). Annotated checklist and illustrated key to parasitoids (Hymenoptera: Diapriidae, Eulophidae and Pteromalidae) of fruit flies (Diptera, Tephritidae) in Brazil. *Zootaxa*, 4858(1), 53-70.

**E.M. Shimbori, V.A. Costa & R.A. Zucchi**

Fontes EMG, Laumann RA, Fernandes DRR et al. (2021) Fifty years of Neotropical Entomology. *Neotropical Entomology*, 50(1): 1-4. <https://doi.org/10.1007/s13744-021-00854-6>

Lanna LM, Rocha JFH, Cavalcante S, Godoy D, Teixeira MLF (2021). First record of non-carnivore feeding behavior in a wild praying mantis (Mantodea: Mantidae). *Entomological Communications*, 3, ec03003. <https://doi.org/10.37486/2675-1305.ec03003>

Mound LA (2020) *Covidthrips novendecim*, an isolated new Phlaeothripinae taxon (Thysanoptera) from Queensland. *Australian Entomologist*, 47(4), 248-252.

Prezoto F, Nascimento FS, Barbosa BC, Somavilla A (Eds) (2021), *Neotropical social wasps: basic and applied aspects*. Cham, Springer. 472 p.

Santos JC, Fernandes GW (Eds) (2021). *Measuring arthropod biodiversity: a handbook of sampling methods*. Cham, Springer. 600 p.

Tihelka E, Giacomelli M, Huang D-Y, Pisani D, Donoghue Pcj, Cai C-Y (2020) Fleas are parasitic scorpionflies. *Palaeoentomology*, 3(6), 641-653.

Worth  
reading



# Announce Your Page

## Have insects invaded social media? Experience Insect of the Sertão on Instagram

Whoever doesn't communicate, gets in trouble, the old warrior would say! As scientists today, we can understand this expression by Chacrinha (a Brazilian TV personality). We live in times of "flat-earthers", anti-vaccine movements, and denials of science of all kinds. We can no longer "just" do science, we need to demonstrate to society in general, the importance of what we do. You must be asking, but wait, in addition to writing projects, teaching, conducting experiments, orienting students, and a lot of reticence, do I have to also be a journalist? Not everyone, because many do not have this skill, but we must encourage as much as possible those who have the communicative spirit. In this context, we cannot deny the outreach power of social networks. I was invited to write this text precisely because of my experience with my Instagram profile, *Insetos do Sertão*. I created the account initially in 2019, as a place to put my photos of insects registered in the Semi-arid Northeast. Then a friend suggested that I also write some curiosities about the insect in

the photo, later I realized that it was also a channel for scientific dissemination. The blessed pandemic came and suddenly we came face to face with live broadcast of all kinds, there were lives of sertanejos, comedians, influencers, and a little bit of everyone. I thought, why not do a live on insects? As a result, *Papo de Inseto* was created as a space to explore with entomologists from all corners of Brazil and even abroad. Twenty interviews were conducted, with varied themes, always with great public participation in a relaxed atmosphere. To celebrate a year of *Insetos do Sertão*, I interviewed Professor Parra. In addition to obviously talking about biological control, it was possible to learn a little about the professor's early career, even that he was a great footballer! For those who missed, all *Papo de Inseto* are available on Instagram and YouTube in *Insetos do Sertão*. A positive factor of the pandemic was several channels for the dissemination of entomology on social networks, especially Instagram. We already have a profile, like the World of Insects, which exceeded 40 thousand followers! By the looks of things, I think that future entomologists will find it easier to explain

their work at the Christmas family reunion. When your uncle better understands what a parasitoid is, you can be sure that we will have an easier time negotiating public and private investments in research. So, have you created your profile on any social network to publicize your work? Run and take the opportunity to follow @insetosdosertao on Instagram!)



### Tiago C. da Costa Lima

Researcher at Embrapa Semiárido  
Instagram Creator - Insetos do Sertão

## Entomology Events

- Second International Congress of Biological Control (ICB2) – April 26 to 30, 2021 –Virtual (<https://www.iobc-icbc.com/>)
- 56th Annual Congress of the Brazilian Society of Tropical Medicine (MEDTROP) – June 6 to 9, 2021, Belém, PA, Brazil
- IX Symposium of the European Association of Acarologists – July 12 to 16, 2021, Bari, Italy
- XXVI International Congress of Entomology – July 18 to 23, 2021, Helsinki, Finland
- Symposium on Insect-Plant Interactions (SIP) – July 25 to 29, 2021, Leiden, Holland.
- XXXIV Brazilian Congress of Zoology – March 7 to 10, 2022
- XXVIII Brazilian Congress of Entomology – August 30 to September 2, 2022, Fortaleza, CE, Brazil
- XI Argentinian Congress and XII Latin American Congress of Entomology – October 24 to 28, 2022, La Plata, Argentina
- XVII Biological Control Symposium (Siconbiol)/II Latin American Symposium on Biological Control – 2023, Juazeiro, BA & Petrolina, PE, Brazil

## Change in the Editorial Team of the SEB Newsletter

For this edition of the Brazilian Entomological Society Newsletter we have some changes in the editorial team: the editor Wanessa Scopel is leaving the activity. We thank Wanessa for all her great contribution and dedication to the Newsletter during these years. We welcome the new publisher, Jaqueline Magalhães Pereira and we wish success with the team.

**Jaqueline Magalhães Pereira** - Federal University of Goiás - [jaquelinemagalhaesufg@gmail.com](mailto:jaquelinemagalhaesufg@gmail.com)



## EntomoArt!

*Henriclides thoas brasiliensis*

**Artist: Giulianne Simizu Calizotti**

Biologist – Collaborator at the Universidade Estadual de Londrina

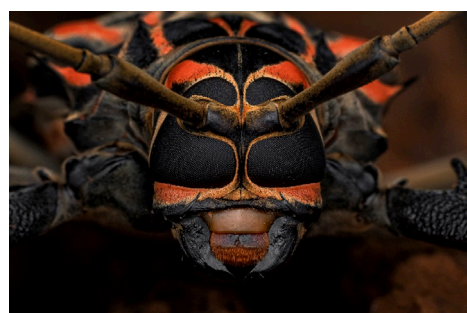


## Your Picture

Coleoptera: *Acrocinus longimanus*

**Autor: Lucas Mastellini Theodoro**

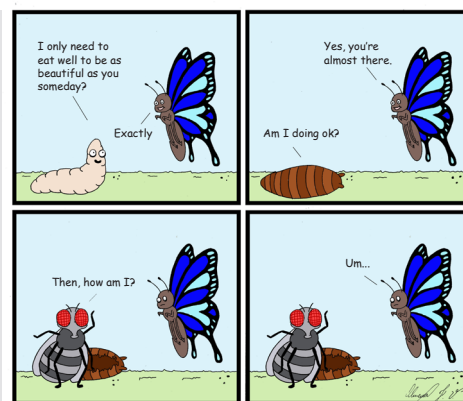
Degree in Biological Science – UEL



## Comic Strip

**Artist: João Vitor de Oliveira**

Master's Student - Postgraduate Program in Biological Sciences – UEL





## SEB MEMBERSHIP 2021

### Professional

Online Journal  
**R\$ 150,00**

### Student

Online Journal  
**R\$ 75,00**

### Foreigners

Online Journal  
**US\$ 75,00**

To join or renew SEB membership, visit [www.seg.org.br](http://www.seg.org.br) or contact us by mail [secretaria@seb.org.br](mailto:secretaria@seb.org.br)

Entomological Society of Brazil

## NEWSLETTER



Editors

**Élison Fabrício Bezerra Lima**

UFPI - Universidade Federal do Piauí  
[elisonfabricao@hotmail.com](mailto:elisonfabricao@hotmail.com)

**João Antonio Cyrino Zequi**

UEL - Universidade Estadual de Londrina  
[joaozequi@gmail.com](mailto:joaozequi@gmail.com)

**Jaqueline Magalhães Pereira**

UFG - Universidade Federal de Goiás  
[jaquelinemagalhaesufg@gmail.com](mailto:jaquelinemagalhaesufg@gmail.com)

Rodovia GO-462, Km 12  
Santo Antônio de Goiás - GO  
Caixa Postal: 179 CEP: 75375-000  
Fone: (62) 3533-2206

[www.seb.org.br](http://www.seb.org.br)

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*ESALQ/USP, Piracicaba, SP*

### INTERNATIONAL DELEGATE

**Antônio Ricardo Panizzi**  
*Embrapa Trigo, Passo Fundo, RS*

### NEOTROPICAL ENTOMOLOGY

**Eliana Maria Gouveia Fontes**  
*Embrapa Recursos Genéticos  
e Biotecnologia, Brasília, DF*

### ENTOMOLOGICAL COMMUNICATIONS

**Daniell Rodrigo  
Rodrigues Fernandes**  
*INPA, Manaus, AM*

**Rafael Major Pitta**  
*Embrapa Agrossilvipastoril,  
Sinop, MT*



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