

### **Safeguarding pollinators and pollination services through citizen science**

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The population's knowledge about the organisms that promote the pollination ecosystem service is important for the transition to sustainable societies and planetary health. Citizen science has great potential for monitoring the indicators of the Sustainable Development Goals and, in the case of projects involving pollinators, it can contribute to SDGs 2, 8, 15 and 17. For example, many people are unaware of the importance of bees, beetles, moths, butterflies, flies, bats and birds for pollination and, consequently, for the production of seeds and fruits or even the generation of income for thousands of people on the planet. Fear or disgust can even harm the conservation of these beings in the long term. The book "Citizen Science and South American pollinators" (Ghilardi-Lopes & Zattara, 2022 - <https://doi.org/10.4322/978-65-86819-20-5.100001.pt> and <https://doi.org/10.4322/978-65-86819-21-2.100001.es>) was produced by 60 authors (52 scientists and 8 citizen scientists, from Brazil, Argentina, Peru, Chile, Colombia and the United Kingdom) and aimed not only to disseminate information about these different pollinator groups, but highlighting citizen science projects underway in South America so that the public can contribute to the generation of scientific knowledge about the biology and ecology of South American pollinators. The book uses colloquial language to explain how to become a citizen scientist. Also, eight citizen science projects are presented, with which the reader can collaborate ("The Guardians of Pollinators", "Project Beekee - #cidadãoasf", "Ecological Lists of Butterflies", "FIT Count", "Flower flies of Chile", "Most-Wanted-Bee", "Urban Bats in Lima", "I saw a Bumble bee").

### **Girawa - Planetary Health education project for Sri Lanka, Brazil and beyond**

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Girawa is a volunteer-led project building an open-access educational resource that puts nature at the heart of STEM education. Our goal is to provide interactive educational materials for students aged up to 18 years, and to promote international consensus and collaboration for planetary health. We cover topics from human disease to ecology through educational materials prepared by team members covering a range of expertise in STEM subjects.

Currently, Girawa is partnered with the Foundation of Goodness in Sri Lanka, Clubé Saúde Planetária Lins in Brazil, and with The King's Academy in the US, with the goal of expanding to other parts of the world. In total, Girawa has launched five educational modules. Examples of topics explored include air pollution, COVID-19, and medicinal plants. In addition to our electronic educational material and practical activities, we publish blog articles discussing a variety of