

Challenges and perspectives in research and teaching of host pathogen interaction topics: new post-pandemic times to Brazil and other South American countries

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Here is our proposal to improve learning in biomedical sciences for graduate and undergraduate courses with a broad vision integrating disciplines such as molecular cell biology, biochemistry, and biophysics around concepts of pathogen interaction within vertebrate and invertebrate hosts. Our paradigm is based on the possibility offered by the pandemic to have remote activities that give access to students and researchers from different places in Brazil and Latin American countries to discuss science. A multidisciplinary view of host-pathogen interaction allows us to understand better the mechanisms involved in the pathology of diseases, as well as to formulate broad strategies for the diagnosis, treatment, and control of thereof. The approach to integrating heterogeneous groups in science involves the critical analysis of national scientific resource distribution, where only some have the possibilities to conduct competitive scientific research. Solid theoretical training, contact, collaboration with groups of excellence, and training within a multidisciplinary network are our proposals for a permanent platform of scientific strengthening and dissemination for Latin America. Here we will review the concept of host-pathogen interaction, the type of institutions where it is taught and researched, new trends in active teaching methodologies, and the current political context in science.

Key words: active learning; critical thinking; higher education; host-pathogen interaction; pandemic; remote education

In general, the development of Brazilian and Latin American science is affected by multiple aspects. One of them is isolation, due to the extensive geographical distances between the different centers and universities that develop frontier research in biological or biomedical sciences areas.

During the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) pandemic, in an unsuspected way, we had the opportunity to feel connected, in spite of physical distance. Using platforms such as Teams, Google Meet, and Zoom, among others, allowed us to connect, meet, and participate in seminar series, discussing science like never before. With the help of these platforms, exciting ideas were born, among them, the Host-Pathogen Interaction Meeting I (HPIM I) in virtual form.⁽¹⁾ The initiative, which will be performed annually, represents the conceptual framework of joining strategies to strengthen teaching and research on the interaction between pathogens and hosts, integrating science between different countries of the world, as shown in Fig. 1.

The host-pathogen interaction concept

Infectious diseases are caused by pathogenic microorganisms, such as viruses, bacteria, parasites, or fungi spread directly or indirectly from one person to another, which can affect people all over the world, as has been observed with the coronavirus disease 2019 (COVID-19) pandemic.^(2,3) On the other hand, neglected tropical diseases (NTDs) are a diverse group of conditions mainly prevalent in tropical areas, disproportionately affecting impoverished communities. Many of them are vector-borne, have animal reservoirs, and are associated with complex life cycles.⁽⁴⁾ All these factors make their control challenging. These diseases cause devastating health, social and economic consequences to more than one billion people. The gravity and result of the infection depend on the microorganism's virulence, the host immune response and the site of infection.^(5,6) Although they are not exclusive to underdeveloped countries, they are of little financial appeal to the large pharmaceutical industry, since they do not reach the large consumer markets found in developed countries. In Brazil and Latin America, the main NTDs are: dengue, Chagas disease, leishmaniasis, malaria, schistosomiasis, leprosy and tuberculosis.^(7,8)

Human pathogens are multicellular, unicellular, or acellular organisms, including bacteria, parasites, fungi, and viruses. Some of them must necessarily live in compartments of our organism or within our cells.⁽⁹⁾ Others may have a more transient relationship and only settle to

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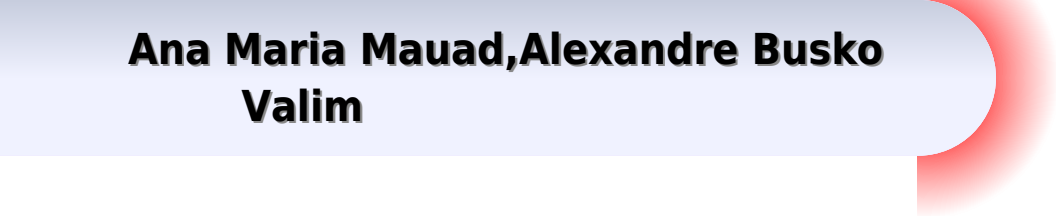
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New Perspectives Of Brazil

**Ana Maria Mauad,Alexandre Busko
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