

## PRESENTATION

Dear Readers,

It is with great satisfaction that we present this new special edition of the Revista Binacional Brasil-Argentina, which encompasses, as usual, due to our perspective on the dialogue between sciences, the diversity and interconnection of knowledge from seemingly distinct areas, but intrinsically interconnected. In this volume, we highlight the synergy between disciplines that, at first glance, may seem distant, but in reality, are intertwined in unexpected ways, enriching the academic field.

By offering this edition, we believe we are providing our readers with a valuable tool for fostering debate and encouraging new research in the areas focused on here.

We start this edition with two essays. The first addresses the textbook as a fundamental pedagogical resource in the educational context, used to support the teaching-learning process at different levels of education, playing a crucial role in offering structured contents, organized in a didactic and accessible way to students, helping teachers in the transmission and contextualization of knowledge. It is about "**Textbook as a pedagogical resource: concept, function, choice, and use**", which reflects on the most used didactic material in schools, assisting the teacher in planning and developing learning opportunities and situations in a way to meet the singularities of their students. In the text, its authors present and expose what constitutes a Textbook, the different variables that characterize it, and the various functions of this material, starting from a brief history of the book, mentioning the transformations and innovations that have occurred over time. The second essay, titled "**High Vibration Management as an emerging theory from the communicative essence in university institutions**", seeks to reflect on the management of high vibrations from the essential communication of key informants in university institutions. Using theorists like Reyes and Ruiz (2013) for management, Carballo (2014) for high vibration, and Berlo (2008) for communication, an interpretative and phenomenological onto-epistemological approach is adopted, with an emerging method. The study focuses on the National Experimental University of the

Falcón nucleus of the Bolivarian Armed Forces, identifying weaknesses, such as fractured communication and interpersonal relationships, pointing out the presence of toxic individuals as obstacles to communication among employees.

Following, RBBA cheers the readers with the dossier entitled “**Teaching and Learning in STEM Areas: Challenges in Times of Disruptions of the Academic and Educational World**” organized by Dr. Héctor Santiago Odetti (Universidad Nacional del Litoral, Argentina) and Dr. Tânia Cristina Rocha Silva Gusmão (Universidade Estadual do Sudoeste da Bahia, Brazil). This is a set of seven articles that reveals an incursion into the world of STEM, highlighting the relevance of exact and applied sciences in an interdisciplinary context. Its organizers understand that, at the crossroads of the 21st century, we face unprecedented challenges in the academic and educational world, especially in the STEM areas (Science, Technology, Engineering, and Mathematics), and this dossier investigates the complexity of teaching and learning, exploring persistent problems and innovative strategies to overcome them. In a moment when technological disruption and socioeconomic changes are redefining the educational landscape, this edition offers a comprehensive view of the experiences of various countries in managing these transformations.

The texts presented seek to contribute to the understanding of the current challenges and provide practical solutions to educators, encouraging the search for creative and effective resources that can adapt to the new realities of the educational environment. The order of the articles presented by the dossier's organizers provides a coherent narrative, starting with innovations in teaching and ending with practical applications and reflections on the learning of Science, Technology, Engineering, and Mathematics, so that each article contributes to a more complete understanding of the challenges and opportunities in education in these critical areas.

First, "**Connecting Art and Mathematics: Mosaics with Geogebra**" highlights the importance of innovative approaches in mathematics teaching. The second, "**Integrating the Arts into STEAM in a Dialogic-Problem Posing Way**", emphasizes interdisciplinarity, crucial for education, including the arts as a vital component. "**Critical Mathematics Education: Challenges for the Social Inclusion of the Elderly**" focuses on inclusion, highlighting how mathematics can be accessible to different demographic groups. The fourth article, "**Addressing the Affect towards Mathematics through an**

**Escape Room in 6th Grade Elementary Education**", presents a playful approach to learning mathematics, showing how gamification can increase primary school students interest. In **"Discussions on Experimentation and Learning of Physics Concepts"**, the importance of practical methods in science teaching is highlighted. **"Explaining Chemistry at the University: Analysis of a First-Year Teacher's Discourse"** focuses on the analysis of teaching discourse and how it can enhance understanding of complex concepts in Chemistry. The last article, **"Human Nutrition: Strategies for an Interdisciplinary Approach in Educational Institutions"**, addresses interdisciplinary education, using a daily theme like nutrition to demonstrate how various areas of knowledge can be integrated.

These studies explore how the intersection of these fundamental disciplines with humanities and social sciences can generate innovative solutions for contemporary challenges.

The continuous flow of articles begins by exploring Education not as an isolated field, but as an essential thread that permeates all areas of knowledge, with two articles making up this axis. The first, titled **"Creativity in Education: Bibliometric Study of a Decade of Research"**, results from a bibliometric study using VOSviewer software, covering the years 2010 to 2021 in the scientific databases SciELO, b-on, and Virtual Health Library (VHL) concerning creativity in the Science of Education. Its authors mapped publications and analyzed research related to Creativity, especially in the field of Education. The findings are intriguing! The second text of this axis is titled **"Active Methodologies: A Research on Their Use in Brazil"**. As the title indicates, it analyzes the growth of active methodologies in Brazilian education, highlighting the most currently used methods. Thus, it relates Paulo Freire's pedagogy to active methodologies, emphasizing the combination of knowledge and the interaction between students and teachers in the teaching process, using a literature review from the Scopus database from 2017 to 2021.

Following, two articles discuss Constitutional Law and its role in shaping contemporary society, highlighting not only legal aspects but also social impacts. In this direction, **"Public Policies for Indigenous Peoples in Brazil: An Analysis of Advances and Challenges Post-Constitution"** examines indigenous rights after the 1988 Federal Constitution, emphasizing the need for creation and implementation of instruments to

guarantee the fundamental rights of the original peoples. It highlights the historical character of the Brazilian indigenous community, emphasizing essential aspects for the construction of national history in light of constitutional determinations on indigenous rights. The article develops a discussion about public policies for these peoples and the challenges for the effectiveness of these actions today, considering the debate on the Marco Temporal thesis. Following in the same sequence, "**Constitutional Hermeneutics and Dirigisme: The Unfulfilled Promises of Late Modernity**" explores the relationship between constitutional hermeneutics, dirigisme, and the unfulfilled promises in late modernity. Using a methodological approach based on literature review and hermeneutic analysis, the study examines how the constitutional project is connected to these promises, considering history and institutions as central elements to understand such concepts.

Continuing, two articles establish a cultural dialogue involving Literature, Cinema, and Music as essential elements of our human experience. By intertwining these three artistic expressions, they demonstrate how these forms of expression not only reflect but also shape our understanding of the world, providing a profound reflection on social, political, and existential themes. Thus, "**Dialogism and the Aesthetics of Reception in the Antinomic Theological Discourse of the tales 'Vicente' and 'O Senhor'**" is a study about the paradoxical theological relationships between humanity and God in the tales "Vicente" and "O Senhor" by Miguel Torga, a biographical review founded on the Bakhtinian dialogic concept and Reception Analysis. In "**Cinema and Music in the Trajectory of Waldick Soriano: the Films 'Paixão de um Homem' (1972) and 'O Poderoso Garanhão' (1973)**" discusses the trajectory of the popular singer Waldick Soriano in his foray into Brazilian cinema of the 1970s, analyzing his films "Paixão de um Homem" (1972), by Egydio Eccio, and "O Poderoso Garanhão" (1973), by Antônio B. Thomé, in harmony with his musical successes. The construction of the text starts from the singer's biography, contextualizing the historical moment of the 1970s, characterized by a predominance of popular cinema and the emergence of a segment of films starring Brazilian popular music singers to meet the commercial interests of the film industry.

Finally, the review titled "**The Cultural Cold War and its Agents**", written by Manoel Reinaldo Silva Rego, discusses the work " O segredo das senhoras americanas:

intelectuais, internacionalização e financiamento na Guerra Fria Cultural", authored by the teacher Marcelo Ridenti.

As emphasized at the beginning of this Cover, the diversity of themes presented in this edition reflects the richness of the interconnection of knowledge and the need for an interdisciplinary approach in research and understanding of the world around us. We hope that this edition of RBBA inspires new perspectives and promotes increasingly close collaboration between various areas of knowledge.

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