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Nota di contenuto

Preliminary Material / Mijung Kim and C. H. Diona -- Visions and Challenges of Biology Education for Sustainability: Keynote Papers / Mijung Kim and C. H. Diona -- Linking Education to Socially-Relevant Bioentrepreneurship for Sustainable Development / Paul P.S. Teng -- Promoting Public Understanding of Sustainable Development: Opportunities for Science Education / Merle C. Tan -- Actions and Opportunities: a North American Perspective on Undergraduate Biology Education for Social and Sustainable Development / Margaret Waterman -- From Gene to Education - The ECNG Research Framework: Education, Cognition, Neuroscience, and Gene / Chun-Yen Chang and Ting-Kuang Yeh -- Biology Education in China 2000–2010: Curricular Trends and Teacher Preparation Models for a Changing Society / Enshan Liu -- Biology Education in the Future / Robert L. Wallis -- Biology, Community, and Higher Education / Mijung Kim and C. H. Diona -- A Visualisation Tool for Experiential Learning in Environmental Science: Using Football Fields, Agricultural Fields and Waterways to Illustrate the Implication of Different Water Allocation Decisions / Anne Wallis , Michelle Graymore , Ty Matthews and Susan Byrne -- Using Metacognition as a Tool to Advance Reading Comprehension in a Science Class / Jocelyn D. Partosa -- De La Salle-College of Saint Benilde in the Philippines: Making a Difference in Sustainable Development / Maria Cristina A. Bordallo -- Oil Producing Plants as Alternative Source of Energy for Sustainable Development / Vivian S. Tolentino , Milarosa L. Librea , Mark Joseph Sibal , Emmanuel Espineda and Wendel T. Marcelo -- Research as an Integral Component of Biology Education in Philippine Schools / Josefino R. Castillo -- Biology for Non-Majors at the University of the Philippines Diliman Extension Program in Pampanga (UPDEPP): Learning Sexually Transmitted Diseases Minus the Squirms / Nenita M. Dayrit -- An Assessment of the Pantabangan Reforestation, Livelihood and other Community Involvement Projects of La Consolacion College of Manila, Philippines / Rosalinda Mercedes E. Castillo -- Indigenous Knowledge and Taxonomy of Bats in Loboc Watershed Forest Reserve, Bohol, Philippine / Reizl P. Jose , Marina A. Labonite , Rumila C. Bullecer , Agustin B. Ancog , Nida G. Butron and Ricardo P. Bullecer -- Anatomical Characterization of Oil Cells and Oil Cavities in *Jatropha curcas* L. using Light and Electron Microscopy / Milarosa L. Librea and Vivian S. Tolentino -- Extent of *Escherichia coli* Contamination of Cagayan de Oro River and Factors Causing Contamination / Lesley Casas Lubos and Lalevie Casas Lubos -- Biophysico-Chemical and Socioeconomic Study of Two Major Manila Esteros / Glorina P. Orozco and Macrina T. Zafaralla -- Sustainable Intensification of Agricultural Production: The Essential Role of Ecosystem-Literacy Education for Smallholder Farmers in Asia / Jan Willem Ketelaar and Alma Linda Abubakar -- Teaching Practice and Student Learning of Biology and the Environment / Mijung Kim and C. H. Diona -- Improving Science Learning through Writing-to-Learn Strategy: Writing Claim and Evidence in Classroom Teaching / Hang Chuan Teng , Jashanan Kasinathan , Vivianne Low , Mosbergen Irving Brian and Ashri B. Shukri.

Sommario/riassunto

In an era of globalization and urbanization, various social, economic, and environmental challenges surround advances in modern biological sciences. Considering how biological knowledge and practice are intrinsically related to building a sustainable relationship between nature and human society, the roles of biology education need to be rethought to respond to issues and changes to life in this biocentury.

This book is a compilation of selected papers from the Twenty Third Biennial Conference of the Asian Association for Biology Education 2010. The title, *Biology Education for Social and Sustainable Development*, demonstrates how rethinking and reconstruction of biology education in the Asia-Pacific region are increasingly grounded in deep understandings of what counts as valuable local knowledge, practices, culture, and ideologies for national and global issues, and education for sustainable development. The 42 papers by eminent science educators from Australia, China, Philippines, Singapore, Taiwan, and the U.S., represent a diversity of views, understandings, and practices in biology education for sustainable development from school to university in diverse education systems and social-cultural settings in the Asia-Pacific region and beyond. The book is an invaluable resource and essential reference for researchers and educators on Asian perspectives and practices on biology education for social and sustainable development.
