

Contents

1 Impacts of Agriculture in Latin America: Problems and Solutions	1
Neli Romano-Armada, María Julia Amoroso, and Verónica B. Rajal	
2 Organochlorinated Contaminants in General Population of Argentina and Other Latin American Countries	17
Adriana S. Ridolfi, Gloria B. Álvarez, and María E. Rodríguez Girault	
3 Strategies to Ameliorate Soils Contaminated with Boron Compounds.....	41
Norma B. Moraga, María Julia Amoroso, and Verónica B. Rajal	
4 Advances in Chile for the Treatment of Pesticide Residues: Biobeds Technology.....	53
Gabriela Briceño, Gonzalo Tortella, Olga Rubilar, Graciela Palma, and M. Cristina Diez	
5 Bioremediation of Soils Contaminated with Pesticides: Experiences in Mexico	69
M. Laura Ortiz-Hernández, Alexis Rodríguez, Enrique Sánchez-Salinas, and M. Luisa Castrejón-Godínez	
6 Bioremediation and Biotransformation of Carbon Nanostructures Through Enzymatic and Microbial Systems.....	101
Nelson Durán, Amauri J. Paula, Diego Stéfani T. Martinez, and Amedea B. Seabra	
7 Phytoremediation: Strategies of Argentinean Plants Against Stress by Heavy Metals.....	123
Mariana Rosa, Fernando Prado, Mirna Hilal, Eduardo Pagano, and Carolina Prado	

8	Microbial Consortia, a Viable Alternative for Cleanup of Contaminated Soils.....	135
	Liliana Beatriz Villegas, María Alejandra Martínez, Analía Rodríguez, and María Julia Amoroso	
9	Application of Integrated Microbial Processes for Heavy Metal Recovery from Industrial Wastes of Buenos Aires, Argentina	149
	Josefina Plaza Cazón, Nadia Yagnentovsky, Marisa Viera, and Edgardo Donati	
10	Microbial Generation of Acid Mine Drainage: Its Bioremediation in Buenos Aires, Argentina.....	165
	Leonardo Benítez, Josefina Plaza Cazón, Graciana Willis Poratti, and Edgardo Donati	
11	Co-contaminated Soils Bioremediation by Actinobacteria	179
	Juan D. Aparicio, María Z. Simón Solá, Mariana C. Atjián, Claudia S. Benimeli, and María Julia Amoroso	
12	Molecular Markers in Hydrocarbon Degradation: State of the Art and Prospective in South America	193
	Mariana P. Lanfranconi and Héctor M. Alvarez	
13	Perspective in Bioremediation: Enhancing the Hexavalent Chromium Removal Using Native Yeasts from Tucumán, Argentina.....	209
	Pablo M. Fernández, Elías L. Cruz, and Lucía I.C. de Figueroa	
14	Ecology of Dye Decolorizing Yeasts.....	223
	Hipólito F. Pajot, María M. Martorell, and Lucía I.C. de Figueroa	
15	Copper Resistance and Oxidative Stress Response in <i>Rhodotorula mucilaginosa</i> RCL-11. Yeast Isolated from Contaminated Environments in Tucumán, Argentina	241
	Verónica Irazusta and Lucía I.C. de Figueroa	
16	Surface-Active Compounds of Microbial Origin and Their Potential Application in Technologies of Environmental Remediation.....	255
	Verónica Leticia Colín, Álvaro Juárez Cortes, Analía Rodríguez, and María Julia Amoroso	
17	Use of Actinobacteria Consortia to Improve Methoxychlor Bioremediation in Different Contaminated Matrices.....	267
	María S. Fuentes, Analía Alvarez, Juliana M. Saez, Claudia S. Benimeli, and María Julia Amoroso	

18 Biodegradation of α- and β-Hexachlorocyclohexane by Indigenous Actinobacteria	279
Pedro Sineli, Claudia S. Benimeli, María Julia Amoroso, and Sergio A. Cuzzo	
19 Cell Immobilization Technique for the Enhanced Removal of Lindane Using <i>Streptomyces</i> Strains Isolated from Northwestern Argentina	289
Juliana Maria Saez, Claudia Susana Benimeli, and María Julia Amoroso	
Index.....	301

Bioremediation in Latin America

Current Research and Perspectives

Alvarez, A.; Polti, M.A. (Eds.)

2014, XII, 308 p. 66 illus., 7 illus. in color., Hardcover

ISBN: 978-3-319-05737-8