
Contents

Author Presentation	ix
Foreword	xv
Eve BUREAU-POINT and Carole BARTHÉLÉMY	
Introduction	xix
Nataly BOTERO, Hélène LEDOUBLE and François ALLARD-HUVER	
Chapter 1. Ergotoxicology in Action: Understanding Work-Activity Pesticide Exposures	1
Fabienne GOUTILLE, Louis GALEY, Clémence RAMBAUD, Laurence THERY and Alain GARRIGOU	
1.1. Introduction	1
1.2. Ergotoxicology.	2
1.2.1. Characterizing exposure in real work	2
1.2.2. The participation of working people	4
1.3. Examples of ergotoxicology applications in agriculture	5
1.3.1. The contribution of ergotoxicology to field epidemiology in the analysis of pesticide contamination among pesticide farmers.	6
1.3.2. Ergotoxicology's contribution to understanding situations involving pesticide risk	12
1.4. Contributions and limits of ergotoxicology to the characterization of pesticide exposure	23
1.5. References	25

Chapter 2. Thinking about Pesticides in Terms of a “Socio-technical Lock-in” of Information	31
Jan SMOLINSKI	
2.1. Introduction	31
2.2. Communicating using the term <i>pesticide</i> : why and how?	32
2.2.1. Why communicate about pesticides?	33
2.2.2. How can we communicate about pesticides?	34
2.3. Commitments to monitoring the use of plant protection products in the definition of food “quality”	35
2.3.1. Method for identifying digital devices for guiding food choice	35
2.3.2. Statistical treatment.	36
2.4. The role of plant protection product use in quality assessment using digital devices.	39
2.4.1. Information “lock-in”: interviews with representatives of the devices.	39
2.5. Initiatives to “unlock information”: the case of Zéro résidu de pesticides and Planet-score	43
2.5.1. Zéro résidu de pesticides (Zero pesticide residues)	43
2.5.2. Planet-score	47
2.6. Conclusion	52
2.7. References	52
 Chapter 3. Activist Measures and Legal Levers: An Interview with Dominique Masset	 55
Nataly BOTERO, H�el�ene LEDOUBLE and Fran�ois ALLARD-HUVER	
 Chapter 4. The Globalization of Regulatory Science on Pesticides: History and Effects on European Law	 73
Annie MARTIN	
4.1. Introduction	73
4.2. Chemical safety ideas and tools promoted worldwide by the OECD	78
4.2.1. Ideas promoted by the OECD in the chemical sector	78
4.2.2. Tools developed by the OECD in the chemical sector.	80
4.3. The effects of the OECD’s promotion of chemical safety ideas and tools in European law	83
4.3.1. The flow of regulatory science from the OECD to the European Union	84
4.3.2. A regulatory science that produces ignorance	85
4.4. Conclusion	88
4.5. References	89

Chapter 5. Fighting the Colorado Potato Beetle in Francoist Spain (1939–1953)	97
José Ramón BERTOMEU SÁNCHEZ	
5.1. Introduction	97
5.2. The technopolitics of pesticides	99
5.3. Autarky and arsenic pesticides	101
5.4. Controlling the Colorado beetle	102
5.4.1. The role of agronomists	104
5.4.2. Campaigns and resistance: the case of the Burgos province	106
5.5. The arrival of DDT	108
5.6. Controlling quality, neglecting risk	110
5.7. Conclusion	112
5.8. References	112
Chapter 6. From Pesticides to Thyroid Diseases: Media Coverage of a Nameless Problem	119
Esterá BADAU	
6.1. Introduction	119
6.2. Thyroid diseases: publicization and media coverage	121
6.2.1. Perspectives from humanities and social sciences research on thyroid diseases.	123
6.3. Methodology	124
6.3.1. Analytical corpus and methodological aspects	124
6.3.2. Analysis method	126
6.4. Results: thyroid-disrupting pesticides, a nameless public health problem	127
6.4.1. From the difficulty of naming reality.	127
6.4.2. . . .to denouncing conflicts of interest within European public authorities.	131
6.5. Conclusion	135
6.6. References	137
Chapter 7. Discursive Strategies of a Sociotechnical Network: The Case of Natural Plant Defense Stimulators	141
Antoine BLANCHARD	
7.1. Introduction	141
7.2. The role of SDNs in the field of plant protection	142
7.2.1. Discursive strategies at the service of a sociotechnical network	143
7.2.2. Discourse analysis method and corpus	145
7.2.3. A hegemonic term	145
7.3. Specificity of SDNs in areas of communication	146
7.3.1. Study of scientific literature (1994–2008)	146

7.3.2. Study of technical and marketing documentation (1997–2007).	148
7.3.3. Study of the trade press (1997–2007)	149
7.3.4. Study of the daily and weekly press (1997–2007)	151
7.3.5. Study of the popular press (1993–2007)	159
7.4. A discursive approach separate to that of biopesticides	160
7.5. Conclusion	162
7.5.1. Discourses to support the SDN sociotechnical network	162
7.5.2. A recent trend marked by the rise of biocontrol	163
7.6. References	164
Chapter 8. Circulation of Discourses and Counter-discourses about Pesticides on Social Networks	169
Albin WAGENER	
8.1. Introduction	169
8.2. A discursive analysis of corpora	170
8.3. Corpus and methodology	173
8.4. Analysis results	176
8.5. Pesticides, between food and agricultural production	184
8.6. A variety of positions	184
8.7. Main themes	187
8.8. Conclusion	188
8.9. References	189
List of Authors	193
Index	195