Table of contents

EurSafe 2010 Committees	. 7
Preface	19
Keynote papers	
Human development and food: a global vision R. Clotet Ballús, Y. Colomer Xena and F. Mayor Zaragoza	25
Designing ethical strategies for global food security M. Kaiser	31
Why patenting life is a controversial economical activity: European legal implementation and penal related issues C.M. Romeo Casabona	37
Ethical dimensions in the social perception of agrofood biotechnology: a case for an interethical approach E. Muñoz	46
Part 1. Climate change policies and food security	
Taming the unruly side of ethics: overcoming challenges of a bottom-up approach to ethics in the areas of climate change and food security <i>R. Anthony</i>	55
Precautionary principle and global food safety A. Urruela Mora and A. Libano Beristain	65
Food system and climate change: the false premises of antitrust policy V. Sodano	73
Climate change and food insecurity: an ethical problem that cannot be postponed <i>M. Nari Lloveras</i>	79
Part 2. Sustainable agriculture and aquaculture for global food security	
Ethical reflection on a practical proposal of sustainable poultry farming F.L.B. Meijboom	87
Behavioural change as a key to sustainable agriculture C. de Lauwere, E. ten Pierick, V. Beekman and M. van Asseldonk	91

Balanced sustainable welfare friendly animal breeding AM. Neeteson-van Nieuwenhoven and J.W. Hardiman	97
The use of certain transgenic seeds in a <i>more sustainable</i> organic agriculture <i>M. de Renobales and L. Escajedo</i>	104
Nanotechnology and trust in aquaculture B.K. Myskja	
BENEFISH: benefits and costs of welfare interventions in aquaculture C.M. Mejdell, S. Kadri and B. Damsgård	116
Food sovereignty, a right to life: the case of the Peruvian Andes L.A. Hallazi Méndez	121
Part 3. The role of local breeds and traditions in sustainable agriculture and aquaculture	
Traditional part-time grazing: a more sustainable sheep milk and cheese production in the Basque country J.R. Mauleón, L.J.R. Barrón, M. Virto, N. Mandaluniz, G. Amores, F.J. Pérez Elortondo, J. Arranz, E. Abilleira, I. Beltrán de Heredia, J.C. Ruiz de Gordoa, A.I. Nájera, R. Ruiz, M. Albisu and M. de Renobales	129
Sambucana sheep: ethical and socio-economical successful outcomes of a 20-years in situ preservation program <i>P. Cornale, M. Renna, R. Fortina and L.M. Battaglini</i>	132
The Latxa dairy sheep in the Basque Country: importance, challenges and opportunities for a traditional livestock activity R. Ruiz, B. Díez-Unquera, I. Beltrán de Heredia, N. Mandaluniz, J. Arranz and E. Ugarte	138
A bio-integrated model of food production and knowledge: a study case in Ciudad del Carmen, México L. Domínguez-Trejo, M.R. Morales-Garza and W. Cano	141
Autochthonous breeds, sustainable local exploitation, and quality of animal products: the case study of Piemontese cattle M. Renna, P. Cornale, C. Lussiana, A. Mimosi and L.M. Battaglini	144
Part 4. The role of biotechnology in food security and ethical and legal aspects of bioscience patenting	
Synthetic biology, ethical challenges and its impact on food security M. Engelhard	149

Climate-ready GM crops, intellectual property and global justice C.A. Timmermann, H. van den Belt and M.J.J.A. Korthals	153
Transgenic livestock: a contribution to global food security? R. Huber, C.B.A. Whitelaw and I.A.S. Olsson	159
Communication and biotechnology: a decade of misunderstandings E.F. Guiral	165
Part 5. Eating, nutrition and health: ethical and legal considerations	:
Conflicting concerns in fighting obesity K.K. Jensen	. 171
Morbid obesity in children and the law S. Romeo and P. Nicolás	176
Parental views on public-policy options regarding healthy eating D. Wickins-Drazilova, S. Nicholls, G. Williams, C. Börnhorst, L. Grafström, S. De Henauw, S. Marild, D. Molnar, L.A. Moreno Aznar, I. Pigeot, A. Siani, M. Tornaritis, T. Veidebaum and W. Ahrens, on behalf of the IDEFICS consortium	184
Human rights, development and hunger in the world: ethical and legal proposals F.J. Blázquez Ruiz	189
Dietary disorders and mental health: a contemporaneous debate M.F. Freire de Sá and A.C. Brochado Teixeira	194
Obesity in ethnic minorities and low-income populations: social and public policy considerations from a comparative study A. Poveda, A. Jelenkovic, M.E. Ibañez and E. Rebato	198
Eating and drinking: challenges for global bioethics T. Ausín	202
Food policy and institutional conflict between food and health: a sociological approach to obesity in Spain C. Díaz-Méndez	207
Part 6. Food labelling and consumer protection	
Certification and ethical standards in aquaculture A.S. Haugen, M. Kaiser and V. Almaas	215
Buyer be-aware: the ethics of food labelling reform and 'mobilising the consumer' X. Frohlich	221

Nutrient profiling: are dairy products really unhealthy? L. Escajedo, A.M. Rocandio and M. de Renobales	228
Framing omega-3: the politics of essential fatty acids in functional foods M. Döring and S. Stirn	234
Seafood safety, authenticity and analytical methodologies to detect fraud C.G. Sotelo, R.I. Pérez-Martín, M. Aursand, Y. Yamashita, M. Yamashita and I. Martinez	239
GMO, consumption and consumer vulnerability in Brazilian Consumer Law: the right to be duly informed A.P. Myszczuk and F. Glitz	245
Part 7. The role of ethical engagement and public participation in EU food gover	nance
Food citizenship: is there a duty for responsible consumption? J. De Tavernier	251
Willingness to pay for farm animal welfare: consumers' motives and expectations analysed at the example of dairy cows in Germany <i>M. Henseleit</i>	257
The role of NGOs in food security E. Essien	263
Governance addressing societal values V. Almaas and M. Kaiser	269
Reducing meat consumption: ethical arguments in the context of today's consumer society E. de Bakker and H. Dagevos	275
Making sense of demands for the integration of ethics into the regulation of GMOs F. Lord and L. Létourneau	281
Sociable swine: engaging society's values into a sustainable pig breeding research programme that aims for balanced improvement in productivity and welfare <i>M. Benard and T. de Cock Buning</i>	287
Part 8. Ethics of bioenergy production	
Bioenergy and agricultural land use: examining the framing of the ethical debate C. Gamborg, K. Millar and P. Sandøe	295
Searching words for sustainable biofuels L. Landeweerd, M. van der Veen and P. Osseweijer	301

Bioenergies: unveiling the ethos of the agrarian research M. de Lattre-Gasquet, D. Vermersch, M. Bursztyn and PH. Duée	307
Biomass production for energy usage in Bavaria: an ethical assessment using a case study comparison of rapeseed and sorghum C. Dürnberger, B. Formowitz, H. Grimm, A. Uhl and M. Zichy	313
Part 9. Animal welfare	
Designing a computer game for pigs, to explore and redefine the interface between animal welfare, science and ethics C.P.G. Driessen, M.B.M. Bracke and M. Copier	323
Specifying animal welfare standards: ethical issues P.B. Thompson	329
Animal welfare: between governmental and individual responsibility L. Heerwagen	337
The ethical basis of using animals in agricultural production: consumer understandings S. Kupsala, P. Jokinen and M. Vinnari	342
Assessment of farm animals and intersubjectivity F. Karlsson	348
Animal welfare regulations in the EU: a matter of ethics or a matter of human economic interest? M. Landera-Luri	354
Effects of feed supplements on meat quality: an ethical analysis that includes the welfare and health of production animals and human consumers F.L.B. Meijboom, M.B.M. Bracke and F.J. van der Staay	
Part 10. Animal biotechnology	
Animal ethics committees, democracy and decision-making H. Röcklinsberg	366
Is there more to life than welfare? How the concept of animal integrity can contribute to discussions of animal ethics M. Gjerris and C. Gamborg	372
Some legal and ethical aspects of xenotransplantation in light of the proposed revision of the Directive on the protection of animals used for scientific purposes <i>M. Jorqui Azofra</i>	378
Transgenic animals: Spanish legislation A. Emaldi Cirión	384

Part 11. Animal research and animal disease control	:
Moral status of the African catfish B. Bovenkerk and F. Meijboom	390
Why don't they just pull themselves together and eat less? Public perceptions of animal use in obesity research T.B. Lund, J. Lassen and P. Sandøe	395
Rite of passage to brute science with bias at the bench? Widening the ethical discussion of animal-based research I.A.S. Olsson, O.E. Varga and P. Sandøe	400
Assessing the benefit of animal experimentation O.E. Varga, P. Sandøe and I.A.S. Olsson	406
Attempt to typologize relations between different worlds (human, animal, living) based on legal and ethical questions surrounding the status of GM fish L. Coutellec and I. Doussan	412
Genomics and animal health: use of animals in biomedical research B.M. Jugo, A. Larruskain, K. Garcia-Etxebarria, L.I. Mazón and Miren Gorrotxategi Azurmendi	418
Part 12. General questions on animal ethics	
Do animals count for less? T. Visak	423
Doing better: John Dewey's meliorism as a method for bringing animal ethics into practice <i>H. Grimm</i>	429
The argument from marginal cases: a response I. de Miguel Beriain	435
Part 13. Teaching ethics, animal welfare and law for the biosciences and agri-fooc sector	t
How <i>ethics</i> is taught by European veterinary faculties: a review of published literature and web resources M. Magalhāes-Sant'Ana, I.A.S. Olsson, P. Sandøe and K. Millar	441
Food ethics dilemma: an open learning resource for teaching ethics A. Algers, M. Kaiser, C. Kallum, H. Loor, K. Wahlgreen and S. Welin	447

E. Atienza-Macias In vitro meat: promises and responses: cooperation between science, social research and ethics C. van der Weele	507
The farm-to-fork approach of food security concerning chemicals (with special reference to REACH, a 'new' European Community Regulation)	501
Part 15. Ethical, legal and social issues concerning new systems, components and foodstuffs	I
Ignored bioethics? On the role ethical concerns in GM food policies J. Lassen	494
Shifting schemes of naturalness P.F. van Haperen, B. Gremmen and J. Jacobs	488
The dignity of living beings with regard to plants: a brief commentary I. de Miguel Beriain	483
Redefining the EU agricultural policy under market constitutionalism: from protectionism to competitiveness A. Lasa López	478
Widening the perimeter: economics, philosophy, ethics and the quest for vital questions A. Tsioumanis	472
Part 14. Ethics, food policies and the case of GMO's	
European higher education area and teaching law and ethics in the biosciences M. Gorrotxategi Azurmendi	467
Transgenic foods: science, safety, law, and ethics M. de Renobales, L. Escajedo and M. Martínez de Pancorbo	464
Policy, ethics and animals use; the need for training: a Dutch example of training civil servants in ethics F.R. Stafleu, H.M.J. van Rij and F.L.B. Meijboom	459
Shifting minds? The effect of training in laboratory animal science on researchers' attitudes to animal use in biomedical research N.H. Franco, J.A. Nunes and I.A.S. Olsson	456
New version of animal ethics dilemma allows students to make use of science, drama and images in ethics learning A.J. Hanlon, A. Algers, T. Dich, T. Hansen, S.B. Christiansen, H. Loor and P. Sandøe	453

Part 1

Legal and ethical challenges regarding edible <i>in vitro</i> meat production E.J. Armaza-Armaza and J. Armaza-Galdos	513
Safe and socially robust development of nanofood through ISO standards? <i>E.M. Forsberg</i>	521
Authors index	527
Keyword index	529