



# $$5^{\text{TH}}$$ Conference of the Italian Association of Agricultural and Applied Economics

# The changing role of regulation in the bio-based economy



Regulation has been a main concern of policy makers in a range of fields from financial to industrial and agricultural activities. Examples of regulatory areas in the bio-based economy are risk, health, environment, competition, intellectual property rights. Regulations in all these areas have deep implications for trade issues, global value chains and for the provision of public goods. In the EU, regulations concerning food retailing, food processing, farming activities, tariff and non-tariff barriers to trade as well as financial markets have deeply affected the bio-based sectors.

Agricultural and applied economists have devoted significant effort to investigate the incentives, the mechanism design and evaluate the effects of regulation. In this regard, EU environmental regulation and food safety policies have provided fascinating case studies. However, there is scope for a multidisciplinary approach that more comprehensively accounts for legal and sociological issues, behavioral aspects of compliance, organization and coordination mechanisms, as in the now popular nudge approach to regulation. Efforts should also be devoted to explore the broader implications of regulation for trade and social welfare, taking into account the private interests underpinning many regulatory choices.

The 5th AIEAA Conference aims at providing a scientific contribution to these issues by expanding the knowledge base on the fundamentals of better regulation, and by promoting a critical debate on the underlying theoretical and methodological issues and policy implications.

#### **Pre-Conference**

The pre-conference "The role of research in agriculture and the implementation of the European Innovation Partnership Agricultural productivity and sustainability" will be held on Thursday, June 16, 2016 from 9.30 am to 12.30 pm (see separate program).

# PROGRAM AT A GLANCE: THURSDAY, JUNE 16th 2016

9:00 am	Welcome coffee and registration				
9:30 am	Pre-Conference The role of research in agriculture and the implementation of the European Innovation Partnership "Agricultural productivity and sustainability"  Aula Magna				
12:30 pm	Lunch				
1:30 pm	AIEAA Assembly Aula Magna				
3:00 pm	Welcome and conference opening				
3:15 pm	First plenary session Aula Magna				
5:00 pm	Coffee Break				
5:15 pm	Organized session First contributed paper session				
	Ecosystem services & public goods <i>Aula Magna</i>	1.1 Food economics 1 Aula 2	1.2 Agricultural policy & rural development Aula 5	1.3 Bioeconomics 1 Aula 7	1.4 Natural resources 1 Aula 8
6:45 pm	End of day 1				
7:45 pm	Departure from Agricultural Campus				
8:00 pm	Dinner Accademia dei Notturni via Armiggia 42, Bagnarola di Budrio - Bologna www.accademiadeinotturni.com				

8.30 am	Organized session	Second contrib	uted paper session	1	
	Impacts of R&D investments <i>Aula Magna</i>	2.1 Food economics 2 Aula 2	2.2 Food & agricultural markets Aula 5	2.3 Land market Aula 7	2.4 Natural resources 2 Aula 8
10:30 am	Coffee Break				
10:45 am	Second plenary session Aula Magna				
12:30 pm	Lunch				
1:45 pm	Parallel poster session				
	Agriculture	Food	Environment	: 1	
2:45 pm	Organized session	Third contribute	ed paper session		
	Spatial econometrics <i>Aula Magna</i>	3.1 Food economics 3 Aula 2	3.2 Agricultural prices Aula 5	3.3 Bioeconomics 2 Aula 7	3.4 Policy tools Aula 8
4:45 pm	Conclusions Aula Magna				
5:00 pm	End of the conference				

#### FIRST PLENARY SESSION: JUNE 16th 2016 (3.15-5.00 pm)

#### Chair Giovanni Cannata

**Fabrizio Cafaggi** (European University Institute, Florence) Contractual governance of agri-food supply chains

Discussant: Gianluca Brunori

Stephan Marette (AgroParisTech, Grignon)

Quality, Market Mechanisms and Regulation in the food chain

Discussant: Stefano Boccaletti

#### SECOND PLENARY SESSION: JUNE 17th 2016 (10.45 am-12.30 pm)

Chair Franco Sotte

Karine Nyborg (University of Oslo)

Consumer Evaluation and Democratic Decision making: What Cost Benefit Analysis of

Environmental Regulation is about

Discussant: Riccardo Scarpa

Alessandro Olper (University of Milan)

The political economy of trade and regulation policies: environment and global food chain

Discussant: Susan Senior Nello

#### FIRST ORGANIZED SESSION: JUNE 16th 2016 (5.15-6.45 pm)

# Ecosystem services and public goods in agriculture. Policy evaluation in the context of Social-Ecological Systems

Povellato A. (1), Viaggi D. (2), Mantino F. (1), Schwarz G. (3), Paracchini M.L. (4)

(1) CREA, Italy; (2) Università di Bologna, Italy; (3) Thünen-Institute of Farm Economics, Germany; (4) JRC Institute for Environment and Sustainability, Italy

Mantino F. , Vanni F. CREA, Italy	How do institutions and collective action affect the provision of environmental and social benefit? A comparative analysis of case studies in Europe
Paracchini M. L. JRC-ISPRA, Italy	EU wide assessment of public goods provided by agriculture: data and knowledge gaps
Schwarz G. Thuenen Institute of Farm Economics, Germany	How to evaluate the environmental impacts of Rural Development Programmes? Methodological challenges and solutions in multiscale and multilevel contexts
<b>Viaggi D.</b> Università di Bologna, Italy	Multi-methods approaches to support evidence based policies for the provision of public goods and ecosystem services

# SECOND ORGANIZED SESSION: JUNE 17th 2016 (8.30-10.30 am)

# The Impacts of R&D Investments on Agriculture in Europe Midmore P.(1), Viaggi D.(2)

(1) Aberystwyth University, UK; (2) Università di Bologna, Italy

<b>Vollaro M., Raggi M., Viaggi D.</b> Università di Bologna, Italy	Impacts of public R&D investments on European Agriculture
Magrini A., Bartolini F., Brunori G., Coli A., Pacini B. Università di Pisa, Italy	Multiple impact assessment of the European Agricultural research
Midmore P. University of Aberystwyth, UK	Analysis of agricultural technical change in Europe: an international structural decomposition
Hockmann H., Ciaian P., Gomez y Paloma S., Voigt P., Garzon Delvaux P.A. JRC - IPTS, Spain	The impact of private research and development on the productivity of agri-food firms
<b>Vollaro M., Raggi M., Viaggi D.</b> Università di Bologna, Italy	Does farmers' awareness of innovation availability improve farm-level profitability?

## THIRD ORGANIZED SESSION: JUNE 17th 2016 (2.45-4.45 pm)

# Spatial econometric methods in agricultural economics

Benedetti R., Salvioni C.

Università di Chieti-Pescara, Italy

Marconi V., Raggi M., Viaggi D. Università di Bologna, Italy	Spatial issues and determinants of uptake and impact of RDP measures: a review of empirical evidence
Gava O., Bartolini F., Brunori G. Università di Pisa, Italy	Spatial impacts and sustainability of farm biogas diffusion in Italy
Vidoli F. (1), Cardillo C. (2), Fusco E. (3) (1) Università di Roma Tre, Italy; (2) CREA, Italy; (3) Università di Roma, La Sapienza, Italy	Spatial heterogeneity in the stochastic frontier model: an application to agricultural firms in Italy
Billé A.G.(1), Salvioni C. (2), Benedetti R. (2) (1) Università di Tor Vergata, Italy; (2) Università di Chieti-Pescara, Italy	Spatial Heterogeneity in Production Functions Models

# FIRST CONTRIBUTED SESSION: JUNE 16th 2016 (5.15-6.45 pm)

Chair: Moro D.

1.1 Food economics 1

1.11000 cconomics 1	Chair. Moro D.
D'Errico M.(1), Pietrelli R.(1), Romano D.(2) (1) FAO; (2) Università di Firenze, Italy	Household resilience to food insecurity: Evidence from Tanzania and Uganda
Galli F. (1), Arcuri S. (1), Vervoort J. (2), Bartolini F. (1), Brunori G. (1) (1) Università di Pisa, Italy; (2) University of Oxford, UK	Food assistance system in Tuscany: exploring vulnerability and resilience through scenario analysis
Qineti A., Braha K, Cupak A., Pokrivcak J., Rajcaniova M. Slovak University of Agriculture in Nitra, Slovak Republic	Demand for food diversity in the case of Kosovo
Castellari E., Moro D., Sckokai P. Università Cattolica del Sacro Cuore, Italy	How healthy is the food basket of Italians? Evidence from the Italian household budget survey
	nom are randi modernoid budget survey
1.2 Agricultural policy and rural development	Chair: Santeramo F.G.
	,
1.2 Agricultural policy and rural development  Pagliacci F., Bertolini P.	Chair: Santeramo F.G.  Measuring Quality of Life and its Territorial Drivers
1.2 Agricultural policy and rural development  Pagliacci F., Bertolini P. Università di Modena e Reggio Emilia, Italy  Sasaki H.	Chair: Santeramo F.G.  Measuring Quality of Life and its Territorial Drivers across Italy. Which Role for Inner and Rural Areas?  Do Japanese turn to rural areas seeking a slower life? Measuring the rural-urban disparity with subjective

1.3 Bioeconomics 1	Chair: Prosperi M.
<b>Vollaro M., Galioto F., Viaggi D.</b> Università di Bologna, Italy	Circular economy and agriculture: new opportunities for re-using Phosphorus as fertilizer
<b>Prosperi M., Lopolito A.</b> Università di Foggia, Italy	Assessing key stakeholder perceptions to building a strategy for the deployment of biorefineries in rural areas
Pannicke N. (1), Gawel E. (1,2), Hagemann N. (1), Purkus A. (1), Strunz S. (1) (1) Helmholtz-Centre for Environmental Research, Germany; (2) Leipzig University, Germany	The political economy of fostering a wood-based bioeconomy in Germany
Strazzera E., Statzu V., Bonu L., Vinci M. University of Cagliari, Italy	A Choice Experiment Study on the Farmers' Attitudes toward Biogas and Waste Reuse in a Nitrates Vulnerable Zone
	Valliciable 20116
1.4 Natural resources 1	Chair: Esposti R.
1.4 Natural resources 1  Guerra E., Cavazza F., Galioto F., Raggi M., Viaggi D. Università di Bologna, Italy	
Guerra E., Cavazza F., Galioto F., Raggi M., Viaggi D.	Chair: Esposti R.  Environmental water services: a combined economic evaluation, through the hedonic price and the contingent valuation method, applied in the Renana

## SECOND CONTRIBUTED SESSION: JUNE 17th 2016 (8.30-10.30 am)

2.1 Food economics 2	Chair: Nocella G.
Raimondi V., Falco C., Curzi D., Olper A. Università di Milano, Italy	Estimating the trade effects of the EU food quality policy
Magnani G., Zighetti C., Zinetti A., Rosi A., Scazzina F., Menozzi D., Donati M. Università di Parma, Italy	Using a multi-objective optimization tool to identify a sustainable diet
<b>Drogué S., Vignes R., Amiot M. J.</b> INRA, France	The impact of optimized diet patterns at a macro-level: the case of Tunisia
Srinivasan C., Nocella G. University of Reading, UK	Industry-led reformulation of food products in Europe – can they nudge consumers towards healthier dietary choices?
2.2 Food and agricultural markets	Chair Dragué C
2.2 Food and agricultural markets	Chair: Drogué S.
DeMaria F. (1), Drogué S. (2) (1) Università del Molise, Italy; (2) INRA, France	Effects of sanitary and phytosatinatary barriers on international trade apple
DeMaria F. (1), Drogué S. (2)	Effects of sanitary and phytosatinatary barriers on
DeMaria F. (1), Drogué S. (2) (1) Università del Molise, Italy; (2) INRA, France  Carbone A. (1), Henke R. (2)	Effects of sanitary and phytosatinatary barriers on international trade apple  The "sophistication" of agro-food international trade:
DeMaria F. (1), Drogué S. (2) (1) Università del Molise, Italy; (2) INRA, France  Carbone A. (1), Henke R. (2) (1) Università della Tuscia, Italy; (2) CREA, Italy  Inama S.	Effects of sanitary and phytosatinatary barriers on international trade apple  The "sophistication" of agro-food international trade: Extending the concept to the demand of imports  Gls in TTIP: Death or Victory for the "Living cultural and

2.3 Land market	Chair: Rocchi B.
Guastella G., Pareglio S., Sckokai P. Università Cattolica del Sacro Cuore, Italy	Urban sprawl and agricultural land take in Italy
Sorana S, Scoppola M. Università di Macerata, Italy	How solid is available evidence on Foreign Land Acquisitions? A preliminary investigation on the role of political and institutional variables
Falkowski J. University of Warsaw, Poland	Political inequality and structural change: some evidence from Poland
Mela G. (1), Longhitano D. (2), Povellato A. (2) (1) Università Cattolica del Sacro Cuore, Italy; (2) CREA, Italy	Agricultural and non-agricultural determinants of Italian farmland values
Iannucci G. (1), Antoci A. (2), Rocchi B. (1) (1) Università di Firenze, Italy; (2) Università di Sassari, Italy	Land dynamics via agricultural externalities
2.4 Natural resources 2	Chair: Pettenella D.
Ragona M., Vitali G.	An impact assessment of pesticide taxation on Italian
Università di Bologna, Italy	farms
Vergamini D. (1), Raggi M. (2), Viaggi D. (2) (1) Università di Pisa, Italy; (2) Università di Bologna, Italy	l · · · · · · · · · · · · · · · · · · ·
Vergamini D.(1), Raggi M.(2), Viaggi D.(2) (1) Università di Pisa, Italy; (2) Università di Bologna,	farms  Agri-environmental measures and farmers' rent: evaluating the potential contribution of auctions to increase the efficiency of Agri-environmental schemes

# THIRD CONTRIBUTED SESSION: JUNE 17th 2016 (2.45-4.45 pm)

3.1 Food economics 3	Chair: Corsi A.
Menozzi D., Sogari G., Simoni E., Veneziani M., Mora C. Università di Parma, Italy	Application of the Theory of Planned Behaviour in the prediction of edible insects consumption
Moro D., Castellari E., Sckokai P. Università Cattolica del Sacro Cuore, Italy	Empirical issues in the computation of Stone-Lewbel price indices in micro-level demand systems
Corsi A., Novelli S. Università di Torino, Italy	The value of the participation in Solidarity Purchasing Groups (SPGs): an empirical analysis in Piedmont
Rocchi B. (1), Randelli F. (1), Corsini L. (2), Giampaolo S. (3) (1) Università di Firenze; (2) Università di Pisa; (3) ISTAT, Italy	On-farm and regional factors affecting the participation of farmers to the short food supply chains: an empirical analysis on the Census data
3.2 Agricultural prices	Chair: Sassi M.
Santeramo F.G. Università di Foggia, Italy	Trade, Storage and Transaction Costs in Price Transmission Analysis
Esposti R. Università Politecnica delle Marche, Italy	Are the days of abundance over? Evidence from long-term agricultural commodity prices
Sassi M. (1), Abera Y. (2) (1) Università di Pavia, Italy; (2) Dire Dawa University, Ethiopia	Vertical Price Transmission between Farmers and Traders in Grains Market of Ethiopia: The Case of White Teff

3.3 Bioeconomics 2	Chair: Garcia-Alvarez-Coque J.M.
Targetti S. (1), Bondeau A. (2), Geijzendorffer I. (2), Napoleone C. (3) (1) Aix-Marseille University, France; (2) CNRS, France; (3) INRA, France	Assessing farm adaptation to changes: a review of farm-level socio-economic indicators with a focus on South Mediterranean agriculture
Barra C. (1), Maietta O.W. (2), Zotti R. (1) (1) Università di Salerno; (2) CSEF, Università di Napoli Federico II, Italy	Science, university-firm R&D collaboration and innovation across Europe
Gonzalez N.C. Università di Bologna, Italia/Universidad Santo Tomas, Colombia	Regulation of bio-based economy: the challenges of the local innovation in governance
Garcia-Alvarez-Coque J.M.(1), Chieco C.(2), Di Virgilio N.(2), Coninx I.(3), Ortiz-Miranda D. (1), Zegg M. (4), Fülöp B. (5) (1) Universitat Politecnica de Valencia, Spain; (2) C.N.R, Italy; (3) Alterra Wageningen UR, The Netherlands; (4) South Pole Group, Switzerland; (5) Trinity Enviro, Hungary	Assessing Rural Development Programs in 4 EU regions and their potential to address climate concerns
3.4 Policy tools	Chair: Pupo D'Andrea M.R.
Britz W. (1), Arata L. (2)	How important are crop shares in managing risk for
(1) University of Bonn, Germany; (2) Università Cattolica del Sacro Cuore, Italy	specialized arable farms? A panel estimation of a programming model for three European regions
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Cattolica del Sacro Cuore, Italy  Pupo D'Andrea M.R., Romeo Lironcurti S.	programming model for three European regions

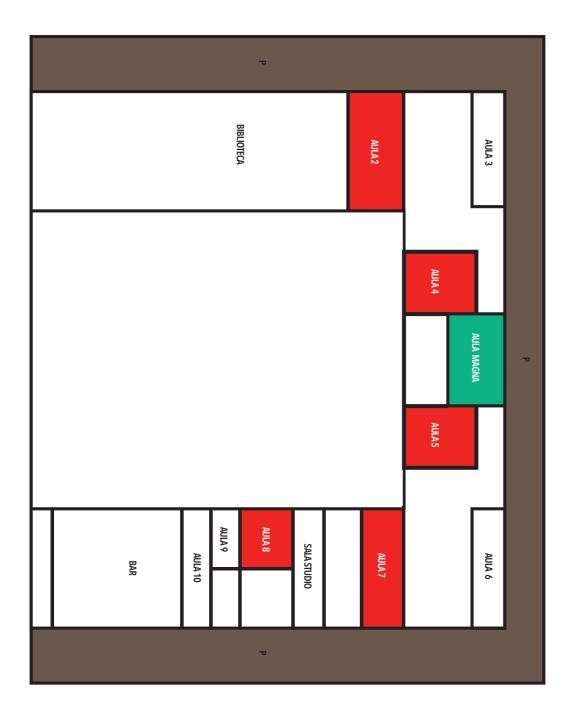
# **POSTER SESSIONS: JUNE 17th 2016 (1.45-2.45 pm)**

Agriculture	Chair: Arfini F.
Vergamini D., Bartolini F., Brunori G., Prosperi P., Grando S. Università di Pisa, Italy	Understanding wine producers' marketing strategies: An empirical analysis in Tuscany
Minella M. (1), Pisani E. (2) (1) AIAB, Italy; (2) Università di Padova, Italy	Who cares in social farming? An exploratory investigation of care farming in the territory of the 'Prealpi Dolomiti' Local Action Group in North East Italy
Prosperi P. (1), Bartolini F. (1), Brunori G. (1), Grando S. (1), Kirwan J. (2), Maye D.(2), Vergamini D. (1), Vigani M. (2) (1) Università di Pisa, Italy; (2) University of Gloucester, UK	Analysing contexts and decisions for sustainable fisheries and aquaculture
Donati M. (1); Solazzo R. (2), Veneziani M. (1), Arfini F. (1) (1) Università degli Studi di Parma; (2) CREA, Italy	The future of alfalfa (Medicago Sativa) after the CAP reform: an institutional interpretation matter
Food	Chair: Bartolini F.
Wirba E.L. (1), Baye F.M. (2) (1) University of Bamenda; (2) University of Yaounde II, Cameroon	Accounting for the Urban-Rural Real Food Expenditure Differentials in Cameroon: A Quantile Regression-Based Decomposition
Antonioli F. (1), Ben-Kaabia M. (2), Gil J.M. (3), Arfini F. (1)	Price Transmission Analysis in the Italian Fluid Milk Supply Chain: a Comparison between the
(1) Università di Parma, Italy; (2) Universidad de Zaragoza, Spain; (3) CREDA-UPC-IRTA, Spain	Conventional and Organic Sectors
	Conventional and Organic Sectors  GMO maize and public health

Bartolini F. (1), Brunori G. (1), Colombo L. (2), Vanni F. (3) (1)Università di Pisa, Italy; (2)Firab, Italy; (3)CREA, Italy	Understanding the vulnerability of EU Food Nutrition Security under competition between food and energy land uses
Veneziani M., Menozzi D., Sogari G., Arfini F., Mancini M.C. Università degli Studi di Parma, Italy	Consumer Willingness to Pay for Improved Animal Welfare: the Case of Fresh Pork Meat in Italy
Environment	Chair: Wieliczko B.M.
Da Re R., Corradini G., Vidale E., Pettenella D. Università di Padova, Italy	From global to local: how wild products economy is affected by harvesting regulations? The case of mushrooms in Italy
Chang T.F.M., Iseppi L., Gori E., Taverna M. Università di Udine, Italy	EU consultation for AFOLU policy options in GHGs mitigation framework: an evaluation
Wieliczko B.M. Institute of Agricultural and Food Economics - National Research Institute, Poland	Sustainable circular economy vs. EU agriculture
Chistyakova M. Montpellier University, France	Eco-certification and price signal as complements of quality disclosure
Cayambe J. (1), Iglesias A. (1), Barrera V. (2) (1) Polytechnic University of Madrid, Spain; (2) INIAP, Ecuador	Calculating the cost-effectiveness of mitigating greenhouse gas emissions in farm mixed Systems (potato - pasture) in Andean region

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# **Agricultural Campus: MAP**



#### PROGRAMME COMMITTEE

#### **LOCAL COMMITTEE**

Gianluca Stefani

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Eikon s.r.l.



# Bio-based and Applied Economics

#### Editoria

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235-254 Parthena Chatzinikolaou, Davide Viaggi, Meri Raggi, The evaluation of Ecosystem Services production: an application in the Province of Ferrara

255271 Stefano Ciliberti, Angelo Frascarelli, A critical assessment of the implementation of CAP 2014-2020 direct payments in Italy

#### Review Article

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#### **Short Communication**

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#### **INFORMATION AND CONTACTS**

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