



***Società Italiana di Agronomia  
XLVII Convegno Nazionale***

**L'Agronomia nelle nuove *Agriculturae*  
(Biologica, Conservativa, Digitale, di Precisione)**

***Università degli Studi di Palermo  
Dipartimento di Scienze Agrarie, Alimentari e Forestali  
Complesso Monumentale di San Pietro  
Marsala (TP)  
12-14 settembre 2018***

**PROGRAMMA**

**Mercoledì 12 settembre 2018**

14:30      *Iscrizione e Registrazione dei partecipanti*

15.15      *Introduzione dei lavori*

Prof. Claudio Leto

Università di Palermo e Presidente Comitato Organizzatore

*Saluti Autorità*

15:30      *Apertura del XLVII Congresso della Società Italiana di Agronomia*

Carlo Grignani - Presidente della Società Italiana di Agronomia

**I Sessione: "Precision farming e Agricoltura digitale"**

*Moderatore*      Paolo Ceccon – Università di Udine

15.40 – 16.10      Keynote "Leveraging blockchain to ensure trust: how Carrefour is acting for food traceability"

Emmanuel Delerm – Program Director at Carrefour

16:10 – 16:40      Keynote "The artificial intelligence platform of Microsoft to support services and applications on digital agriculture"

Giancarlo Sudano - Platform Solution Specialist at Microsoft



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16.40 – 17.10 Keynote “Agriculture and Precision Farming: perspectives for agronomic research”  
Raffaele Casa (Università della Tuscia), Marcello Donatelli (CREA), Michele Pisante (Università di Teramo)

17.10 – 17.25 *Poster rapporteur* Fabio Stagnari – Università di Teramo

17.25 – 17.55 Coffee break

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                                                               | <b>Titolo</b>                                                                                                                                              |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17.55-18.10   | Davide Cammarano, Domenico Ronga                                                                                                                                            | Management Zones and Spatial Variability: A Framework for Developing Site-Specific Management Based on Understanding the Causes of the Field's Variability |
| 18.10-18.25   | Eleonora Cordero, Louis Longchamps, Rajiv Khosla, Dario Sacco                                                                                                               | Integrating Soil and Crop-Based Methods for Maize Variable Nitrogen Fertilisation                                                                          |
| 18.25-18.40   | Francesco Nutini, Roberto Confalonieri, Alberto Crema, Ermes Movedi, Livia Paleari, Dimitris Stavrakoudis, Maurizio Tabacchi, Sergio Cerioli, Franco Tesio, Mirco Boschetti | Application Of A Satellite Based Approach To Monitor Rice Nitrogen Status And To Support Precision Agriculture Techniques                                  |
| 18.40-18.55   | Luisa M. Manici, Francesco Caputo, Enrico Ceotto                                                                                                                            | Can digestate from biogas production improve soil suppressiveness and support crop yield                                                                   |

#### **Poster**

| <b>Autori</b>                                                                                                                                                                                                                                                                                      | <b>Titolo</b>                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Davide Cammarano, Domenico Ronga, Nicola Pecchioni, Enrico Francia, Alessandro Tondelli, Fulvia Rizza, Franz W. Badeck, Orazio Li Destri Nicosia, Taner Akar, Stefania Grando, Adnan Al-Yassin, Abdelkader Benbelkacem, William T.B. Thomas, Fred van Eeuwijk, Ignacio Romagosa, A. Michele Stanca | Heat And Drought Effects On Barley In The Mediterranean Basin: A Simulation Study                                                                         |
| Filiberto Altobelli, Marius Heinen, Claire Jacobs, Jochen Froebrich, André Chanzy, Dominique Courault, Willem De Clercq, Sara Muñoz Vallés, Antonio Díaz Espejo, Karolina Smarzynska, Wiesława Kasperska, Leszek Labeledzki, Anna Dalla Marta                                                      | Investigating the roles, institutions and potential markets for operationalizing services to the irrigation sector: OPERA project                         |
| Raparelli, Scaglione, Perini e Bajocco                                                                                                                                                                                                                                                             | The use of unmanned aerial vehicles in agricultural and forestry studies: a bibliometric analysis                                                         |
| Giovanni Avola, Francesco Muratore, Calogero Tornambè, Claudio Cantini, Ezio Riggi                                                                                                                                                                                                                 | Yield mapping in chickpea adopting a 3D machine vision approach                                                                                           |
| Marco Napoli; Giada Brandani; Carolina Fabbri; Salvatore Filippo Di Gennaro, Alessandro Matese, Paolo Cinat, Andrea Berton; Daniele Grifoni; Maurizio Pieri; Leonardo Verdi; Anna Dalla Marta; Roberto Vivoli; Simone Orlandini; Marco Mancini                                                     | Use of radiometric techniques to monitor phenological response of fourteen ancient wheat varieties to different agronomic management: preliminary results |
| Claudio Leolini, Luisa Leolini, Sergi Costafreda-Aumedes, Lorenzo Brilli, Marco Bindi, Giovanni Argenti, Marco Moriondo                                                                                                                                                                            | A Simplified approach of Phenotyping Platform for crop monitoring                                                                                         |
| Roberto Ferrise, Gloria Padovan, Sergi Costafreda-Aumedes, Johnny Moretto, Matthew Bruce, Massimiliano Pasqui, Giovanna Visioli, Michele Pisante, Marco Bindi, Francesco Morari                                                                                                                    | Use of crop model and seasonal weather forecasts for optimizing wheat N fertilization: preliminary results of the AGER project                            |



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| <b>Autori</b>                                                                                       | <b>Titolo</b>                                                                    |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Giuseppe Cillo, Fabio Stagnari, Giancarlo Pagnani, Sara D'Egidio, Angelica Galieni, Michele Pisante | Variable Rate Nitrogen in Durum Wheat According to Medium-Term Climate Forecasts |
| Marta Iannotta, Carlo Nicoletto, Carmelo Maucieri, Claudio Bonghi, Paolo Sambo, Maurizio Borin      | Precision Farming Technologies In Veneto Region Farms                            |

**18:55 - 19:40 "Premi tesi di dottorato SIA"**

*Moderatore* Carlo Grignani – Presidente SIA

| <b>Vincitore</b>                                                       | <b>Altri autori</b>                                                          | <b>Titolo</b>                                                                                                                  |
|------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Michele Andrea De Santis<br>Univ Foggia                                | Michele Andrea De Santis, Marcella Giuliani, Alison Lovegrove, Zina Flagella | Characterization of Old and Modern Durum Wheat Genotypes in Relation to Gluten Protein and Dietary Fibre Composition           |
| Andrea Ferrarini<br>Univ. Cattolica del Sacro Cuore - sede di Piacenza | Andrea Ferrarini, Stefano Amaducci                                           | Multiple ecosystem services provision from perennial bioenergy crops                                                           |
| Giuseppe Badagliacca<br>Univ Palermo                                   | Giuseppe Badagliacca, Dario Giambalvo                                        | Long-Term Effect of Tillage and Crop Sequence on Soil Microbial Community and Nitrogen Emissions in Mediterranean Environments |

19.40 Welcome cocktail

**Giovedì 13 settembre 2018**

**II Sessione "Agricoltura conservativa"**

*Moderatore* Francesco Morari – Università di Padova

8.45-9.00 *Poster rapporteur* Salvatore La Bella – Università di Palermo

**Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                          | <b>Titolo</b>                                                                                                                                                         |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00-9.15     | Ilaria Piccoli, Per Schjønning, Mathieu Lemandé, Lorenzo Furlan, Barbara Lazzaro, Francesco Morari                                     | Outcomes After 6-yr Of Conservation Agriculture Adoption In Veneto Region Silty Soils. Effects On Soil Physical Properties Combining Classical Methods And Geophysics |
| 9.15-9.30     | Davide Rizzo, Benoît Detot, Andrii Yatskul, Carolina Ugarte                                                                            | Sustainable Intensification of Crop Production Requires Agricultural Equipment Innovation: the Case of Strip-Till for Fine Seedbed Preparation in Silty Soil          |
| 9.30-9.45     | Domenico Ventrella, Alessandro Vittorio Vonella, Mirko Castellini, Pasquale Garofalo, Michele Rinaldi, Francesco Fornaro, Luisa Giglio | Stability analysis of winter wheat productivity in conservation agriculture compared to other management systems in Southern Italy                                    |
| 9.45-10.00    | Dario Giambalvo, Gaetano Amato, Rosolino Ingrassia, Giuseppe Di Miceli, Alfonso S. Frenda, Paolo Ruisi                                 | Early Sowing Allows To Reduce Weed Pressure In No-Till Organic Durum Wheat Production                                                                                 |



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#### **Poster**

| <b>Autori</b>                                                                                                                                         | <b>Titolo</b>                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Susanna De Maria, Angela Libutti, Antonio Pisani, Anna Rita Rivelli                                                                                   | Swiss Chard Response to Different Organic Amendments                                                                                                |
| Marco Napoli, Stefano Cecchi, Chiara Grassi, Camillo Zanchi, Simone Orlandini                                                                         | Minimum Tillage And Conventional Tillage Effects On Durum Wheat Yield In Central Italy                                                              |
| Silvia Tavarini, Lucia Ceccarini, Giulia Lauria, Luciana G. Angelini                                                                                  | Evaluation of Different Pre-germination Treatments, Temperature and Light Conditions, to Improve Seed Germination of <i>Passiflora incarnata</i> L. |
| R.Leogrande, A.M. Stellacci, C. Vitti, G. Lacolla, S. Moscelli, M. Mastrangelo, G. A. Vivaldi                                                         | Soil properties as affected by irrigation with treated municipal wastewater                                                                         |
| Eugenio Cozzolino, Ida Di Mola, Lucia Ottaiano, Luigi Giuseppe Duri, Vincenzo Leone, Sabrina Nocerino, Roberto Maiello, Vincenzo Cenvinzo, Mauro Mori | Use of Biodegradable Films for Solarization: Effects on Temperature, Moisture and N-NO <sub>3</sub> and N-NH <sub>4</sub> Content of Soil           |
| Nebojša Nikolić, Giuseppe Zanin, Andrea Squartini, Lorenzo Marini, Roberta Masin                                                                      | Weed seed decay in no-till soil                                                                                                                     |
| Giovanni Stallone, Agata Novara, Antonino Santoro, Luciano Gristina                                                                                   | Tillage erosion: the hidden threat in semiarid vineyards                                                                                            |
| Michele Rinaldi, Antonio Troccoli, Angelo Pio De Santis, Salvatore Antonio Colecchia, Emanuele Barca                                                  | Durum Wheat Yield And Quality In A No-Tillage Experiment                                                                                            |
| Agata Novara, Luciano Gristina, Mario Minacapilli                                                                                                     | Monthly Rain erosivity and C factor interaction for a correct uncertain estimation of soil erosion in covered vineyard                              |
| Giancarlo Pagnani, Sara D'Egidio, Fabio Stagnari, Angelica Galieni, Giuseppe Cillo, Michele Pisante                                                   | Durum Wheat: Qualitative Traits and Yields During Transition to Conservation Agriculture                                                            |
| Giovanni Bruno Verga, Agata Novara, Luciano Gristina, Fernando Paternò, Antonino Pisciotta, Giovanni Rallo                                            | Effect of cover crop on Soil Water Plant relationships: experimental set-up in a semiarid vineyard                                                  |
| Michele Rinaldi, Angelo Pio De Santis, Salvatore Antonio Colecchia, Sergio Saia                                                                       | Conversion to No Tillage Consisted in Reduced Soil Penetration Resistance Below Tillage Depth After 3 Years in a Vertisol                           |
| Salem Alhajj Ali, Luigi Tedone, Leonardo Verdini, Giuseppe De Mastro                                                                                  | Agronomical benefit of No Tillage application in rainfed Faba Bean cultivation                                                                      |
| Mariano Fracchiolla, Luigi Tedone, Anna Maria Stellacci, Salem Alhajj Ali, Eugenio Cazzato, Giuseppe De Mastro                                        | Conservative Tillage And Nitrogen Inputs On <i>Conyza Canadensis</i> Seed Bank                                                                      |

#### **III Sessione “Agricoltura biologica e Agroecologia”**

**Moderatore** Gaetano Amato – Università di Palermo

10.00 – 10:30 Keynote “Prospettive del biologico in Sicilia”  
Pietro Di Marco - Presidente di Pro.Bio.Si.

10.30– 11.00 Keynote “Agroecology and Organic Agriculture: Opportunities for Innovative Agronomic Research”  
Paolo Barberi (Scuola Superiore Sant’Anna di Pisa) e Stefano Bocchi (Università di Milano)



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11.00 – 11.30 coffee break

11.30-11.45 *Poster rapporteur* Stefano Monaco - CREA-CI Vercelli

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                 | <b>Titolo</b>                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 11.45-12.00   | Paola Migliorini                                                                                                              | Agroecology and organic agriculture for the transition to sustainable food systems                                                |
| 12.00-12.15   | M. Rinaldi, P. Codianni, M. Russo, C. Maddaluno, S.A. Colecchia                                                               | Chickpea ( <i>Cicer arietinum</i> L.) Genotypes In Organic And Conventional Regimes                                               |
| 12.15-12.30   | Sara Bosi, Rocco Sferrazza, Lorenzo Negri, Valeria Bregola, Francesca Truzzi, Grazia Trebbi, Ilaria Marotti, Giovanni Dinelli | Characterization of a soft wheat germplasm collection suitable for organic farming                                                |
| 12.30-12.45   | Emilio Lo Presti, Beatrix Petrovicova, Maurizio Romeo, Michele Monti                                                          | Grain Legumes Root Exudates Facilitate Wheat in Intercropping Systems Exploiting Phosphorus from the Soil                         |
| 12.45-13.00   | Mario Licata, Salvatore La Bella, Claudio Leto, Teresa Tuttolomondo                                                           | The Role of Agronomic Research In The Management Of Constructed Wetlands For Wastewaters Treatment In A Mediterranean Environment |

#### **Poster**

| <b>Autori</b>                                                                                                                                  | <b>Titolo</b>                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Carmelo Maucieri, Alberto Barco, Maurizio Borin                                                                                                | Compost as N source for field crop fertilization                                                                  |
| Marcello Guiducci, Paolo Benincasa, Umberto Bonciarelli, Michela Farneselli, Francesco Tei, Giacomo Tosti                                      | Carbon and Nitrogen footprint in a LTE comparing an organic and a conventional low input cropping system          |
| Massimo Tolomio, Nicola Dal Ferro, Carmelo Maucieri, Antonio Berti, Maurizio Borin, Francesco Morari                                           | Topsoil Fertility Of Organic And Conventional Farming: A Case Study In North-Eastern Italy Over An 8-Year Period  |
| Claudio Beni, Silvia Socciarelli, Rodrigo Pelegrim Prado                                                                                       | Synergistic Agriculture Vs Organic Farming. First Results                                                         |
| Nino Virzi, Giovanni Dara Guccione, Ileana Iocola, Stefano Canali, Pasquale De Vita, Luca Colombo, Pasquale Nino, Elio Romano, Massimo Palumbo | BioDurum" Project: Defining Innovative Processes For Organic Farming Through Open Dialogue                        |
| Stefano Monaco, Andrea Volante, Elisa Zampieri, Giampiero Valé                                                                                 | Analysis of a rice germoplasm collection for the identification of varieties suitable for organic farming         |
| Sara Lombardo, Gaetano Pandino, Angelo Litrico, Bruno Parisi, Aurelio Scavo, Giovanni Mauromicale                                              | Agronomic Management Of 'Early' Potato Under Organic Farming System                                               |
| Teresa Tuttolomondo, Mario Licata, Maria Cristina Gennaro, Claudio Leto, Ignazio Cammalleri, Salvatore La Bella                                | Accumulation of Heavy Metals and Response of Wild Plant Species Grown in the Urban Area of Palermo City (Italy)   |
| Giuseppe Diego Puglia, Giulio Greco, Pietro Calderaro, Helena Pappalardo, Salvatore Antonino Raccuia                                           | Intraspecific Variability Of <i>Cynara Cardunculus</i> L. Seed Germination Across Domesticated And Wild Varieties |



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| <b>Autori</b>                                                                                                                                              | <b>Titolo</b>                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antonio Pulina, Antonio Frongia, Maria Carmela Caria, Tore Pala, Daniele Nieddu, Simonetta Bagella, Antonello Franca, Pier Paolo Roggero, Giovanna Seddaiu | The LIFE Regenerate Project: Revitalizing multifunctional Mediterranean agrosilvopastoral systems using dynamic and profitable operational practices |
| Federica Carucci, Ivano Pecorella, Pasquale De Vita, Giuseppe Gatta, Marcella Michela Giuliani                                                             | Agronomic Assessment of Durum Wheat Genotypes Cultivated Under Organic System in Mediterranean area                                                  |
| Alfonso S. Frenda, Giuseppe Di Miceli, Gaetano Amato, Paolo Ruisi, Rosolino Ingraffia, Dario Giambalvo                                                     | Yield And Competitive Ability Against Weeds Of Mixtures Between Old And Modern Wheat Varieties                                                       |
| Rosolino Ingraffia, Dario Giambalvo, Paolo Ruisi, Giuseppe Di Miceli, Alfonso S. Frenda, Gaetano Amato                                                     | Nitrogen Transfer Is Enhanced By AMF Fungi In A Faba Bean/Wheat Intercropping                                                                        |
| Sara Paliaga, Claudia Miceli, Alessandro Miceli, Agata Novara                                                                                              | Biodynamic Priming: Seed Bath in Preparation 500                                                                                                     |

13:00 - 14:30 Pranzo

#### **IV Sessione “Agricoltura per altri servizi ecosistemici” (AULA 1)**

*Moderatore* Andrea Monti – Università di Bologna

14.30-14.40 *Poster rapporteur* Danilo Scordia – Università di Catania

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                     | <b>Titolo</b>                                                                                                          |
|---------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 14.40-14.55   | Gaetano Pandino, Aurelio Scavo, Alessia Restuccia, Sara Lombardo, Antonio Russo, Giovanni Mauromicale             | Allelopathic Effect Of <i>Cynara Cardunculus</i> Leaf Extracts On The Seedling Growth Of Two Cosmopolitan Weed Species |
| 14.55-15.10   | Domenico Ronga, Leonardo Setti, Federica Caradonia, Djangsou Hagassou, Guido Bezzi, Nadia Faccini, Enrico Francia | Effect Of Innovative Organic And Organo-mineral Fertilizers On Yield Of Triticale Cultivated In Northern Italy         |
| 15.10-15.25   | Walter Zegada-Lizarazu, Andrea Parenti, Andrea Monti                                                              | Sunn hemp, a New Energy Catch Crop for Temperate Climates                                                              |
| 15.25-15.40   | Federica Zanetti, Giovanni Cappelli, Daria Righini, Fabrizio Ginaldi, Andrea Monti, Simone Bregaglio              | Modeling Camelina ( <i>Camelina sativa</i> L. Crantz): A Promising New Multipurpose Oilseed Crop                       |
| 15.40-15.55   | Roberta Calone, Rabab Sanoubar, Maria Speranza, Lorenzo Barbanti                                                  | Effects of soil and water salinity in a sorghum pot experiment                                                         |
| 15.55-16.10   | Visconti Donato, Fiorentino Nunzio, Gioia Laura, Di Mola Ida, Stinca Adriano, Fagnano Massimo                     | Analyses Of Spontaneous Vegetation For A Detailed Characterization Of Soil Contamination                               |

#### **Poster**

| <b>Autori</b>                                                                                                                  | <b>Titolo</b>                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Caterina Caruso, Carmelo Maucieri, Antonio C. Barbera, Maurizio Borin                                                          | Agro-environmental aspects of mycorrhizal inoculation on six energy crops fertilized with digestate |
| Federica Zanetti, Daria Righini, Incoronata Galasso, Remo Reggiani, Roberto Russo, Angela Vecchi, Debbie Puttick, Andrea Monti | Agronomic Evaluation of Camelina Genotypes with Improved Seed Qualitative Traits                    |





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| <b>Autori</b>                                                                                                                                                                                      | <b>Titolo</b>                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Andrea Parenti, Simone Bregaglio, Giovanni Cappelli, Fabrizio Ginaldi, Walter Zegada-Lizarazu, Andrea Monti                                                                                        | A Crop Model-Based Evaluation of <i>Crotalaria juncea</i> Productivity Under Alternative Management Practices                       |
| Marco Acciai, Federica Zanetti, Andrea Monti                                                                                                                                                       | The Effect Of Sowing Date And Genotype Choice On Crambe ( <i>Crambe abyssinica</i> ): A Promising Oilcrop For The Biobased Industry |
| Serra, F., Dinuccio, E., Gioelli, F., Rollè, L., Reyneri, A., Blandino, M                                                                                                                          | Introduction Of Barley Hybrid And Maize At High Plant Density To Enhance Methane Production                                         |
| Federica Zanetti, Danilo Scordia, Salvatore L. Cosentino, Angela Vecchi, Silvio Calcagno, Andrea Monti                                                                                             | Harvesting Management Influences Long Term Productive Performances of Perennial Energy Grasses                                      |
| Giuseppe Pulighe, Guido Bonati, Filiberto Altobelli, Flavio Lupia, Marco Colangeli, Lorenzo Traverso, Marco Napoli, Anna Dalla Marta                                                               | Simulation Of Bioenergy Cropping Scenarios On Sediments And Nutrient Flows In A Mediterranean Watershed Using The SWAT Model        |
| Danilo Scordia, Giorgio Testa, Venera Copani, Silvio Calcagno, Andrea Corinzia, Giovanni Scalici, Giancarlo Patanè, Sebastiano Scandurra, Cristina Patanè, Salvatore L                             | Nitrogen Use Efficiency Of Long-Term Plantations Of <i>Arundo donax</i> And <i>Miscanthus x giganteus</i>                           |
| Danilo Scordia, Giorgio Testa, Venera Copani, Alessandra Piccitto, Silvio Calcagno, Andrea Corinzia, Giancarlo Patanè, Santo Virgillito, Giovanni Scalici, Cristina Patanè, Salvatore L. Cosentino | A Follow Up Study Of Biomass Yield Of <i>Saccharum spontaneum</i> ssp. <i>aegypticum</i> Under Water Regimes                        |
| Maria Cristina Gennaro, Salvatore La Bella, Teresa Tuttolomondo, Giuseppe Bonsangue, Mario Licata                                                                                                  | Effect of different date of sowing on Cotton ( <i>Gossypium hirsutum</i> L.) varieties in Mediterranean climate conditions          |
| Giacomo Patteri, Antonio Pulina, Roberto Lai, Marcella Carta, Agostino Piredda, Chiara Bertora, Carlo Grignani, Pier Paolo Roggero                                                                 | Soil Greenhouse Gases Emissions in a Cardoon-Based Bio-Energetic Cropping System: The Role of Compost Application at the First Year |
| Giorgio Testa, Silvio Calcagno, Paolo Guarnaccia, Sebastiano Andrea Corinzia, Giancarlo Patanè, Danilo Scordia, Salvatore Luciano Cosentino                                                        | Evaluation Of An Hemp Genotype (Futura 75) For A Dual Purpose Production In Semi-Arid Mediterranean Environment                     |
| Giorgio Testa, Alessandra Piccitto, Danilo Scordia, Sebastiano Andrea Corinzia, Silvio Calcagno, Salvatore Cosentino                                                                               | Evaluation of the methanogenic potential of two lignocellulosic crops                                                               |
| Rita Aromolo, Claudia Fontana                                                                                                                                                                      | Urban Agriculture: a new perspective                                                                                                |
| Giovanni Argenti, Mauro Bassignana, Gianni Bellocchi, Camilla Dibari, Gianluca Filippa, Laura Poggio, Nicolina Staglianò, Marco Bindi                                                              | LIFE PASTORALP: a Project for Alpine Pasture Vulnerability Assessment                                                               |
| Carmelo Maucieri, Carlo Nicoletto, Giampaolo Zanin, Paolo Sambo, Maurizio Borin                                                                                                                    | Nitrogen Balance of a Low-tech Aquaponic System                                                                                     |
| Mohamed A. Hassaan, Luigi Tedone, Antonio Pantaleo, Giuseppe De Mastro                                                                                                                             | Biogas Production from silage flour wheat Influenced by Chemical and Green Synthesized ZnO Nanoparticles                            |



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#### **V Sessione “Sistemi culturali e filiere di qualità” (AULA 2)**

**Moderatore** Amedeo Reyneri – Università di Torino

14.30 - 14.40 *Poster rapporteur* Cristian Dal Cortivo – Università di Padova

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                         | <b>Titolo</b>                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 14.40-14.55   | Gloria Padovan, Pierre Martre, Mikhail A. Semenov, Simone Bregaglio, Domenico Ventrella, Ignacio Lorite, Marco Bindi, Roberto Ferrise | Effects of Environment x Genotype x Management in Durum Wheat Production in the Mediterranean Basin             |
| 14.55-15.10   | Anna Panozzo, Cristian Dal Cortivo, Manuel Ferrari, Serena Varotto, Teofilo Vamerali                                                  | Morphological Responses of Maize Hybrids Under Extreme Flooding Stress                                          |
| 15.10-15.25   | Debora Giordano, Trust Beta, Massimo Blandino, Amedeo Reyneri                                                                         | Influence Of Agricultural Practices On bioactive compounds Of Pigmented Wheat and Maize Grains                  |
| 15.25-15.40   | Teresa Tuttolomondo, Mario Licata, Maria Cristina Gennaro, Claudio Leto, Salvatore La Bella                                           | Oregano: a Long-Established Plant for Modern Farming. Twenty Years of Experimental Studies in the Mediterranean |

#### **Poster**

| <b>Autori</b>                                                                                                                                                       | <b>Titolo</b>                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Francesco Rossini, Pier Paolo Danieli, Bruno Ronchi, Paolo Loreti, Roberto Ruggeri                                                                                  | Beyond beer with hops: fresh spring shoots and their proximate composition from ten commercial cultivars                                        |
| Manuel Ferrari, Cristian Dal Cortivo, Giuseppe Barion, Giovanna Visioli, Teofilo Vamerali                                                                           | Effects Of Foliar Fertilisation As The Only Way Of Nitrogen Supply In Common Wheat                                                              |
| Giuseppe Barion, Cristian Dal Cortivo, Anna Lante, Teofilo Vamerali                                                                                                 | Nutraceutical Parameters Of Soybean Varieties Under Organic and Conventional Management                                                         |
| Cristina Patanè, Silvio Calcagno, Giancarlo Patanè, Andrea Corinzia, Laura Siracusa, Luana Pulvirenti, Salvatore L. Cosentino                                       | Natural Colorants from Safflower Florets in Response to Sowing Time and Plant Density                                                           |
| Marcella Michela Giuliani, Michele Andrea De Santis, Elisa Pellegrino, Laura Ercoli, Damiana Tozzi, Luigia Giuzio, Zina Flagella                                    | Influence of Field Inoculation with Arbuscular Mycorrhizal Fungi on Wheat Gluten Quality                                                        |
| Valeria Toscano, Carmen Arlotta, Mario Venticinquè, Claudia Genovese, Salvatore Antonino Raccuia                                                                    | The Effects of Different Postharvest Treatments on Shelf life of Pomegranate Fruits                                                             |
| Luigi Morra, Eugenio Cozzolino, Luisa del Piano, Maurizio Bilotto, Isabella Sifola, Linda Carrino, Luigi Fabbrini, Marco Quattrucci, Ernesto Lahoz                  | Evaluation of a Crop System of Kentucky Tobacco Based on Agroecological Practices in Toscana                                                    |
| Nunzio Fiorentino, Gian Maria Baldi, Luigi Giuseppe Duri, Eugenio Cozzolino, Roberto Maiello, Sabrina Nocerino, Massimo Fagnano, Domenico Loreto, Francesco Mugione | Increasing Oilseed Hemp ( <i>Cannabis sativa</i> L.) Productivity In Mediterranean Environment: Effect Of Crop Density And Foliar Fertilization |
| Paolo Guarnaccia, Alfio Spina, Sebastiano Blangiforti, Santo Virgillito, Virgilio Giannone, Paolo Caruso, Umberto Anastasi                                          | Agronomic Performance And Qualitative Features Of Sicilian Durum Wheats                                                                         |





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| <b>Autori</b>                                                                                                                             | <b>Titolo</b>                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Alfio Spina, Paolo Guarnaccia, Sebastiano Blangiforti, Gianfranco Venora, Paolo Caruso, Umberto Anastasi                                  | Bioagronomic And Qualitative Characteristics OF Sicilian Bread Wheat Landraces                         |
| Alessandra Ruggiero, Giorgia Batelli, Michael James Van Oosten, Antonello Costa, Stefania Grillo, Albino Maggio                           | TOMRES: Screening Of Traditional Tomato Varieties For Water Use Efficiency And Nutrient Use Efficiency |
| Michael James Van Oosten, Emilia Dell'Aversana, Francesca Mingione, Valerio Cirillo, Alessandra Ruggiero, Albino Maggio, Petronia Carillo | A New Role for Benzimidazoles As Regulators of Nitrogen Use Efficiency                                 |

16:10 - 16:40 Coffee break

16:40 - 19:15 Assemblea Soci della Società Italiana di Agronomia

20:30 Cena sociale

**Venerdì 14 settembre 2018**

#### **VI Sessione “Analisi e confronti tra tipi di *agriculturae*”**

*Moderatore* Pier Paolo Roggero – Università di Sassari

9:00 – 9:30 Keynote “La ricerca sulla valutazione dei sistemi colturali e aziendali in Italia: analisi della letteratura scientifica più recente”  
Luca Bechini (Università di Milano), Francesco Danuso (Università di Udine), Nicola Silvestri (Università di Pisa)

9.30 – 10.00 Keynote “*Agriculturae*: una visione a scala territoriale”  
Carlo Giupponi – Università Ca’ Foscari Venezia

10.00-10.10 *Poster rapporteur* Lorenzo Brilli – CNR-IBIMET Firenze

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                        | <b>Titolo</b>                                                                                                                                   |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.10-10.25   | Luigi Giuseppe Duri, Nunzio Fiorentino, Eugenio Cozzolino, Lucia Ottaiano, Massimo Fagnano                                           | Bioassays for evaluation of sanitary risks due to food crops cultivated in potentially contaminated sites                                       |
| 10.25-10.40   | Ileana Iocola, Massimo Palumbo, Nino Virzì, Giovanni Dara Guccione, Pasquale De Vita, Luca Colombo, Stefano Canali                   | Design of a Multi-Criteria Model for the Sustainability Assessment of Organic Durum Wheat-based Farming Systems Through a Participative Process |
| 10.40-10.55   | Simone Bregaglio, Giovanni Cappelli, Giuseppe Gatta, Eugenio Nardella, Anna Gagliardi, Marcello Donatelli, Marcella Michela Giuliani | Promoting Sustainable Tomato Irrigation Strategies In Mediterranean Conditions Via Simulation Modelling                                         |



## ***Società Italiana di Agronomia***

### ***XLVII Convegno Nazionale***

10.55-11.30 Coffe break

#### **Comunicazioni orali**

| <b>Orario</b> | <b>Autori</b>                                                                                                                                                                                                                                                           | <b>Titolo</b>                                                                                                                                                          |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.30-11.45   | Nicola Dal Ferro, Ilaria Piccoli, Francesco Morari, Antonio Berti                                                                                                                                                                                                       | Outcomes from five decades of different cropping systems on deep soil organic carbon stock and its distribution                                                        |
| 11.45-12.00   | Caologero Schillaci, Sergio Saia, Alessia Perego, Marco Acutis                                                                                                                                                                                                          | Estimating Soil Organic Carbon Of Arable Lands with Regional Legacy Soil Data And The 'Land Use And Coverage Area Frame Survey (LUCAS)', In Contrasting Areas Of Italy |
| 12.00-12.15   | Anna Maria Stellacci, Daniela De Benedetto, Rita Leogrande, Carolina Vitti, Mirko Castellini, Emanuele Barca                                                                                                                                                            | Use of Mixed Effects Models accounting for residual spatial correlation to analyze soil properties variation in a field irrigated with treated municipal wastewater    |
| 12.15-12.30   | Laura Mula, Antonio Pulina, Lorenzo Brilli, Roberto Ferrise, Luisa Giglio, Pietro Giola, Ileana Iocola, Domenico Ventrella, Laura Zavattaro, Giovanna Seddaiu, Massimiliano Pasqui, Rodica Tomozeiu, Antonio Berti, Carlo Grignani, Giuliano Vitali, Pier Paolo Roggero | Soil Organic Carbon Dynamics and Maize Yield under Climate Change: The Long-Term Impacts of Organic Fertilizations                                                     |
| 12.30-12.45   | Pasquale Campi, Liliana Gaeta, Marcello Mastroianni, Pasquale Losciale                                                                                                                                                                                                  | Crop management of the peach orchard for saving water                                                                                                                  |

#### **Poster**

| <b>Autori</b>                                                                                                                                           | <b>Titolo</b>                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Michela Battisti, Laura Zavattaro, Stefano Dolzan, Carlo Grignani                                                                                       | Soil P Status in Piedmont: a Regional Assessment                                                                   |
| Giuseppe Badagliacca, Maurizio Romeo, Domenico Formica, Giuseppe Mastroianni, Antonio Gelsomino, Michele Monti                                          | Factors Controlling Total Organic Carbon and Permanganate Oxidable Carbon in Southern Italy Agricultural Soils     |
| Lorenzo Brilli, Luisa Leolini, Sergi Costafreda-Aumedes, Giacomo Trombi, Marco Moriondo, Paolo Merante, Camilla Dibari, Marco Bindi                     | The Adapt2Clima project: assessment of future climate impacts on agricultural areas of three Mediterranean islands |
| Eugenio Cozzolino, Lucia Ottaiano, Ida Di Mola, Luigi Giuseppe Duri, Vincenzo Leone, Sabrina Nocerino, Adriana Impagliazzo, Roberto Maiello, Mauro Mori | Yield Performance of a Maize Early Hybrid Grown in Tunnel and Open Air under Different Water Regimes               |
| Fabrizio Ginaldi, Gianni Fila, Marcello Donatelli                                                                                                       | Analysing crop model response to extreme events; implications for climate change impact assessment studies         |
| Angela Libutti, Anna Rita Bernadette Cammerino, Massimo Monteleone                                                                                      | An easy-to-apply tool to check the sustainability of prunings removal from the field and their energy use          |

12.45– 13:00 Discussione conclusiva e prospettive di lavoro

*Chiusura del XLVII Congresso della Società Italiana di Agronomia*

Carlo Grignani - Presidente della Società Italiana di Agronomia

13.00- 14:30 Pranzo



# ***Società Italiana di Agronomia***

## ***XLVII Convegno Nazionale***

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### ***Segreteria organizzativa***

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