

PERSONAL INFORMATION

**Stefano Bona**



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Sex Male | Date of birth 07/01/1960 | Nationality Italian

CF: BNOSFN60A07H823G

WORK EXPERIENCE

- 2018 **Appointed as expert in two technical tables at the Ministry of Agricultural, Food and Forestry Policies:**
  - 1) Technical table of officinal plants following the publication on the G.U.R.I. of the " Law on the cultivation, harvesting and first processing of medicinal plants" - Legislative Decree 21 May 2018 n.75.
  - 2) Technical table on the promotion of the Italian hops chain
  
- 2004 - today **Associate professor**  
 University of Padova – Dept DAFNAE
  - Medical herbs; statistics; sensory analysis; LCA
 Business or sector Agronomy, crop physiology
  
- 1992-2004 **Researcher**  
 University of Padova – Dept DAFNAE
  - Medical herbs; statistics; sensory analysis; LCA
 Business or sector Agronomy
  
- 1987-today **Collaboration with different Firms/Organisations working mainly on Medical Herbs:**
  - Bios Line (PD)
  - AGRIPHARMA (RO)
  - BIRRIFICIO ANTONIANO (PD)
  - SITAR (PD)
  - UNIONE AGRICOLTORI (PD –VE –RO-BL)
  - PADAGRI (PD)
  - COLDIRETTI (PD – VE)
  - Africa '70 (MI)
  - UNIFARCO (BL)
  - AIEL (PD)
  - ZIGNAGO (VE)
  - ZEROFARMS (TV-PN)
  - APHRIA ITALIA
  - CALANTHA
  - SEPARECO
  - EXENIA
  - DEKALB
  - TERRA CONSULTING
  
- 1985 - 1990 **Computer programming (BASIC –FORTRAN- C++)**

WORK AND ACADEMIC  
EXPERIENCE ON CANNABIS

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- 2020 Authorization from the Ministry of Health for cultivating medical cannabis
  - 2020 Starting of a project on cannabis breeding in collaboration with University of Verona
  - 2019 Scientific responsible of a research on Chromium accumulation in cannabis cultivated in polluted soils
  - 2019 Scientific responsible of a research on effect of different microorganisms on cannabinoids concentration in cannabis inflorescences
  - 2019 Collaboration with SEPARECO for defining the parameters of supercritical CO2 systems on cannabis
  - 2019 Collaboration with Aphria Italia for organizing farmers for cannabis production  
Collaboration with Aphria Europe for organizing indoor cannabis production
  - 2018 Appointed as expert in a technical tables at the Ministry of Agricultural, Food and Forestry Policies:  
Technical table of officinal plants following the publication on the G.U.R.I. of the " Law on the cultivation, harvesting and first processing of medicinal plants" - Legislative Decree 21 May 2018 n.75. Definition of limits on cannabis cultivation
  - 2018 – today Collaboration with ZEROFARMS for defining protocols of cannabis cultivation in aeroponic systems
  - 2018 – today Collaboration with PADAGRI for defining cultivation protocols in open field
  - 2018 – today Scientific responsible of the project HEMPIRIC FEMALE for the production of feminized seeds of commercial varieties of cannabis
  - 2018 – today Appointed as a judicial police auxiliary for the repression of illegal cannabis and for the analysis of illegal hemp products
  - 2018 – today Collaboration with law enforcement agencies (carabinieri) for defining sampling protocols in illegal cannabis cultivations
  - 2018 President of the commission of PhD in "Crop Science" in Piacenza evaluating 2 candidates with thesis on cannabis
  - 2006-2009 Research on productivity of biomass of annual crops for energy production (a significant part of this research dealt with cannabis cultivation)
  - 2005-2011 Research on phytoextraction of heavy metals from soil using energy crops (a significant part of this research dealt with cannabis ability of accumulate heavy metals in the biomass)
  - 2005 Scientific advisor of EXENIA GROUP for calibrate systems of extraction of supercritical CO2
  - 2001 – today University course on "Production of medical and aromatic plants" (a significant part of this course deals with cannabis cultivations)
  - 1995-1998 University course on "Industrial crops" (a significant part of this course deals with cannabis cultivations)
  - 1994-today Several seminars to farmers for showing the techniques of cannabis cultivation
  - 1994-today Several seminars to students for showing the techniques of cannabis cultivation and extraction of active substances

**WORK AND ACADEMIC  
EXPERIENCE ON STATISTICS**

1994-today

During this period, he held courses in the following disciplines at the University of Padua:

- Statistical analysis and elements of computer science
- Mathematical and statistical methods
- Applied statistics
- Experimental methodology
- Experimental methodology in agriculture
- Experimental statistical methodology
- Sensory analysis

1994-today

Occasional lessons for farmers on applied statistics

1994-2000

ASSUME member (Association of Statistics Specialists Using Microsoft Excel)

**WORK ON INTERNATIONAL  
COOPERATION**

1994-today

2 missions of 15 days in Lebanon

1 15-day mission to Eritrea

Collaboration with ASF (Agronomi e Forestali Senza Frontiere)

Collaboration with AFRICA 2000

Collaboration with Francesco Orsini e Giorgo Gianquinto in urban horticulture

**EDUCATION AND TRAINING**

1989-1992

**PhD in crop productivity**

University of Padova

- Physiology of soybean nitrogen nutrition

1979-1985

**Master degree in Agricultural Sciences**

University of Padova

- Physiology of mais nutrition

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B1	B1
Replace with name of language certificate. Enter level if known.					
French	C1	C1	B1	B1	A1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills Replace with your communication skills. Specify in what context they were acquired. Example:  

- good communication skills gained through my experience as professor

Organisational / managerial skills  

- leadership: currently responsible for a team of 4 people

Computer skills  

- good command of Microsoft Office™ tools
- good command of LibreOffice tools
- good command of Statgraphics
- good command of R

Other skills  

- Handyman carpentry

Driving licence Driving licence category:  

- B

ADDITIONAL INFORMATION

- Publications
  - Presentations
  - Projects
  - Conferences
  - Seminars
  - Honours and awards
  - Memberships
  - References
- See annexe 1

ANNEXES

- publications.

## ANNEXE 1 – LIST OF PUBLICATIONS

- Bona S., Maculan A., Mosca G., 1990. Funzionalità dei noduli radicali in soia in presenza di azoto di sintesi. Approccio statistico di simulazione. In "Stress ambientali nei vegetali", CNR-IREV, Roma, 27-28 Novembre, 44.
- Mosca G., Bona S., 1997. Above-ground development and nitrogen nutrition in soybean. In Proceedings of "World Soybean Research Conference V", Chang Mai, Thailand, 21-27 February 1994, 348-352.
- Bona S., Sambo P., Mosca G., 1996. A possible source of error in the response of nodule to oxygen in soybean, in "The Eleventh Australian Nitrogen Fixation Conference", University of Western Australia, Nedlands, Western Australia, 22-27 September 1996, 43-44.
- Bona S., Mosca G., Vameralli T., 1997. Oil crops for biodiesel production in Italy. In "International workshop Environmental aspects of energy crop production", ENEA Reserch Centre Brasimone, Bologna, Italy, October 9-10.
- Bona S., 1998. La produzione di acido erucico: possibilità di utilizzo di specie brassicaceae. In "Oleaginose ad uso non alimentare", AISO e Prisca-MIPA editori, Roma, 12 marzo 1998.
- Bona S., 1998. Biomassa per energia: quale biomassa e quale energia? In "OPEN-DAY su "Biomasse ed Energia", Legnaro-Padova, Italy, 24 OTTOBRE
- Bona S., 1999. Biodiesel e bioetanolo: bilanci energetici e della CO<sub>2</sub>. In "XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova.
- Mosca G., Bona S., Toniolo L., 1993. Effetti del tipo di terreno sull'evoluzione del tasso di azotofissazione simbiotica in soia: verifica di un metodo per la misurazione "in situ". Rivista di Agronomia, 27, 4, 462-466.
- Bona S., Vameralli T., Mosca G., 1995. Risposta del sistema radicale del mais alla riduzione degli input. Riv. di Agron., 29, 3 suppl., 339-347.
- Bona S., 1998. Bilanci della CO<sub>2</sub> e dell'energia della filiera biodiesel. In " Il contributo del sistema agro-forestale all'attuazione degli impegni di Kyoto", Seminario organizzato dall'ENEA in preparazione della Conferenza Nazionale Energia e Ambiente, Firenze, 15 giugno 1998.
- Bona S., Mosca G., Vameralli T., 1998. Oil crops for biodiesel production in Italy. In "World Renewable Energy Congress - V", Florence, Italy, September 20-25.
- Bona S., Sambo P., Borin M., Mosca G., 1999. How much nitrogen does soybean fix when nitrogen in soil is available? EUROPEAN COOPERATIVE FAO NETWORK ON SOYBEAN RESEARCH Coordinated Meeting with the World Soybean Research Conference VI (August 4-7, 1999), Chicago.
- Bona S., Biodiesel e Bioetanolo: bilanci energetici e della CO<sub>2</sub>. In "XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 80-81.
- Mosca G., Bona S., Ganis A. e Vameralli T., 2001. Piante per la depurazione di terreni inquinati da metalli pesanti. In Atti del XXXIV Convegno Nazionale della Società Italiana di Agronomia "Strategie agronomiche al servizio della moderna agricoltura". Pisa 17-21 settembre 2001: 178-179.
- Bona S., Mosca G. and Vameralli T., 2001. Energy and CO<sub>2</sub> balance in biodiesel fuel production. In Proceedings (on CD-ROM) of "5th International Biomass Conference of the Americas", September 17-21 2001, The Rosen Centre Hotel, Orlando, Florida USA. 2 pp.
- Bona S., 2002 Villanova di Camposampiero (PD) Agricoltura Biologica
- Bona S., Vameralli T., Riello L., Zanetti F. & Mosca G., 2003. Nuova procedura per la normalizzazione dei dati sperimentali: applicazione alla traspirazione e all'espansione fogliare del girasole. Atti XXXV Convegno della Società Italiana di Agronomia, Napoli 16-18 settembre 2003.
- Bona S., 2004. PIANTE MEDITERRANEE: Usi gastronomici ed additivi alimentari. In atti del convegno "PIANTE MEDITERRANEE: VALORIZZAZIONE DELLE RISORSE E SVILUPPO SOSTENIBILE" Agrigento, 6-9 Ottobre 2004
- Bona S., Mosca G., Riello L., Vameralli T., 2003. Contribution of soil to CO<sub>2</sub> balance in industrial oilcrop plantations. In atti del "International South Europe Symposium - Non-Food Crops: From Agriculture to Industry" Bologna, Italy, 15-16 May 2003
- Bona S., 1992. Analisi di alcuni aspetti della nutrizione azotata della soia (*Glycine max* (L.) Merr.). Tesi di dottorato di ricerca in: "Produttività delle piante coltivate".
- Blanchet R., Bouniols A., Gelfi N., Cabelguenne M., Desclaux D., Bona S., 1988. Simulation des principales contraintes agronomiques limitant le rendement du soja dans différentes situations françaises. I - Le Modèle et sa validation. C. R. Acad. Agric. Fr., 74, 3-10.
- Brisson N., Bona S., Bouniols A., 1989. SOYGR0, un modèle de simulation de la culture du soja; adaptation à des variétés cultivées dans le sud de l'Europe et validation. Agronomie, 9, 27-36.
- Bona S., Mosca G., Toniolo L., 1990. Apporto tardivo di azoto in soia a diverso tipo di accrescimento. Nota 1: Variazioni morfo-fisiologiche e produttive. Riv. di Agron., 24, 1, 52-58.
- Voltan R., Dalla Costa L., Bona S., Mosca G., 1990. Profiles of non-structural carbohydrates in two soybean varieties with different growth habit. Agr. Med., 120, 391-397.
- Bona S., 1991. Apporto tardivo di azoto in soia a diverso tipo di accrescimento. Nota 2: Variazioni delle componenti della resa. Riv. di Agron., 25, 1, 63-68.
- Bona S., Maculan A., Mosca G., 1991. Behaviour of the root nodules in soybean in the presence of nitrogen: the use a statistical simulation model. J. Agronomy and Crop Sci., 167, 254-258.
- Bona S., Voltan R., Mosca G., 1991. Soybean nodules development and nitrogenase activity during the reproductive phase: statistical modeling approach. J. Agronomy and Crop Sci., 167, 249-253.
- Bona S., Borin M., Mosca G., Giardini L., 1993. Complementarità o antagonismo fra azotofissazione e concimazione azotata in soia? Integrazione fra due metodi di stima. Rivista di Agronomia, 27, 4, 463-468.
- Mosca G., Bona S., Toniolo L., 1993. Effetti del tipo di terreno sull'evoluzione del tasso di azotofissazione simbiotica in soia: verifica di un metodo per la misurazione "in situ". Rivista di Agronomia, 27, 4, 462-466.
- Bona S., Mosca G., Toniolo L., 1993. La misurazione dell'attività nitrogenasica "in situ" su pianta intera di soia (*Glycine max* (L.) Merr.). Rivista di Agronomia, 27, 4, 457-461.
- Sinclair T.R., Mosca G., Bona S., 1993. Simulation analysis of variation among season in winter wheat yield in northern Italy. J. Agron. and Crop Sci., 170, 202-207.
- Mosca G., Bona S., 1994. Oil seed crops for methyl ester production: energy analysis and productivity of some species. Riv. di Ing. Agr., 3, 151-161.
- Bona S., Vameralli T., Mosca G., 1995. Risposta del sistema radicale del mais alla riduzione degli input. Riv. di Agron., 29, 3 suppl., 339-347.
- Serraj R., Bona S., Purcell L., Sinclair T.R., 1997. Nitrogen accumulation and nodule activity of field grown 'Jackson' soybean in response to water deficits. Field Crop Res., 52, 109-116
- Purcell L.C., Serraj R., Manjula de Silva, Sinclair T.R., Bona S., 1998. Ureide concentration of field-grown soybean in response to drought and the relationship to nitrogen fixation. J. Plant Nutrition, 21(5), 949-966.
- Bona S., Sambo P., Mosca G., 1997. Messa a punto di un metodo per la stima in continuo della quantità di azoto fissato in ambiente confinato. Rivista di Agronomia, 31, 3 suppl., 774-780.
- Mosca G., Bona S., Sambo P., 1997. Soybean nitrogen fixation in agricultural systems: report of activity. Eurosoya, 11, 36-46.
- Bona S., Mosca G., Sambo P., 1996. Late nitrogen fertilization in soybean (*Glycine max* (L.) Merr.). Effects on some physiological productive parameters. Eurosoya, 10, 1-8.
- Bona S., Mosca G., Vameralli T., 1999. Oil crops for biodiesel production in Italy. Renewable Energy, 16, 1053-1056.
- Vameralli T., Ganis A., Bona S., Mosca G., 1999. An approach to minirhizotron root image analysis. Plant and Soil, 217, 183-193.
- Vameralli T., Bona S., Mosca G. e Sambo P., 1999. Is the root system the key to higher nitrogen uptake in rapeseed? The case of a composite hybrid line. In "The structural roots of trees and woody plants: form, function and physiology" (Ed. A. Stokes), Developments in Plant and Soil Sciences, Kluwer Academic Publishers, Dordrecht, Netherlands: 397-404.
- Serraj R., Bona S., Purcell L.C., Sinclair T.R., 2000. Role of soil-oxygen enrichment in the responses of nitrogen fixation to drought stress in field-grown soybean. Soil and Crop Sci. Soc. of Florida, 70, 20-22.
- Vameralli T., Saccomani M., Bona S., Mosca G. and Guarise M., 2002. Adaptation of maize root system to adverse soil conditions. Plant and Soil.....(accepted for publication)
- Vameralli T., Ganis A., Bona S. and Mosca G., 2002. Fibrous root turnover and growth in sugar beet (*Beta vulgaris* var. *saccharifera*) as affected by nitrogen shortage. Plant and Soil.....(accepted for publication)
- Vameralli T., Guarise M., Ganis A., Bona S. and Mosca G., 2002. A fast procedure of root image analysis applied to auger sampling. Plant and Soil.....(accepted for publication)
- Bona S., 2001. Biodiesel e bioetanolo: bilanci energetici e della CO<sub>2</sub>. Rivista di Agronomia, 4, 219-229.
- Francesco Orsini, Sanoubar R., Ozteking G.B., Kappel N., Tepecik M., Quacquarelli C., Tuzel Y., Bona S., Gianquinto G., 2013. Improved stomatal regulation and ion partitioning boosts salt tolerance in grafted melon. Functional Plant Biology, 40:628-636.
- Francesco Orsini, Mohammad AlNayef, Stefano Bona, Albino Maggio, Giorgio Gianquinto. 2012 Low stomatal density and reduced transpiration facilitate strawberry adaptation to salinity. Environmental and Experimental Botany, 81:1-10.
- Riello Lara, Bona Stefano 2007. Life Cycle Assessment for Evaluating On-farm Energy Production: The Case of Sunflower Oil. Italian Journal of Agronomy 01/2011;
- Bona S., 1988. Modelli di simulazione per ottimizzare le tecniche agronomiche delle colture erbacee di pieno campo. Agricoltura delle Venezie, 7/8, 445-450.
- Mosca G., Bona S., 1990. I rapporti degli apparati radicali col terreno. Macchine e Motori Agricoli, 6, 103-105.
- Bona S., Mosca G., Vameralli T., Amaducci M.T., Venturi G., 1995. Risposta agronomica del girasole alla riduzione degli input. Sementi Elette, 3-4, 7-13.
- Bona S., Mosca G., 1995. Girasole, ridurre i costi senza penalizzare le rese. Terra e vita, 12, 89-93.
- Mosca G., Vameralli T. e Bona S., 2001. L'apparato radicale: finalità di studio, metodologie disponibili e prospettive. Agronomia, 5 (ottobre 2001): 9-16.
- Gianquinto-G; Sambo-P; Bona-S, 2001. Azoto e patata (il metodo). Colture-Protette. 2001, 30: 4, 55..
- Giulia Bellaio, Carnevale Elisa, Szthvary Serena, Bona Stefano (2013) "Sensorial evaluation of crafted beers flavoured with herbs and spices" Natural1, in press;

- Camevale Elisa, Giulia Bellaio, Szathvary Serena, Bona Stefano (2013) "Goji: the plant of youth" Vita in campagna, in press;
- Szathvary Serena, Giulia Bellaio, Camevale Elisa, Bona Stefano (2013) "Goji: the plant of youth" Erboristeria Domani, in press;
- Giulia Bellaio, Camevale Elisa, Szathvary Serena, Bona Stefano (2013) "Essential oils: limit of sensorial perception" Erboristeria Domani 380, 32-35;
- Brisson N., Bona S., Bouniols A., 1989. Adaptation of a soybean crop simulation model (SOYPRO) to southern European conditions. In "Proceedings of the IV Conferencia Mundial de Investigation en Soja" 5-9 March 1989 Buenos Aires - Argentina, 279-284.
- Bouniols A., Blanchet R., Bona S., Cabelguenne M., Jones C.A., 1989. Modelling soybean nitrogen nutrition in various soil depths, irrigations and fertilizations. In "Proceedings of the IV Conferencia Mundial de Investigation en Soja" 5-9 March 1989 Buenos Aires - Argentina, 285-291.
- Bona S., Voltan R., Mosca G., 1990. Relationship between nodules development and nitrogenase activity during soybean pod setting. In "Nitrogen Fixation: Achievements and Objectives" Atti del "8th International Congress on Nitrogen Fixation", P.M. Gresshoff, L. E. Roth, G. Stacey, W.E. Newton (Eds.), Knoxville, Tennessee, USA, 20-26 maggio, 649.
- FAO - Working group on physiology of soybean nitrogen nutrition: Amaducci M.T., Bona S. Bouniols A., Chamber M., Domenach A.M., Miceli F., Obaton M., Pachiaudi C., Popescu A., Redzepovic S., Sétatou H., Sikora S., Toniolo L., Venturi G., 1990. Effect of late nitrogen fertilization on yield and N<sub>2</sub>-fixation in determinate and indeterminate soybean varieties. In "Proceedings of the first congress of the European Society of Agronomy", A. Scaife (ed.), Paris (F), 5-7 December 1990, S1P30.
- Tancogne M., Bouniols A., Bona S., Mosca G., 1990. Assimilate partitioning during pod set and seed growth of soybean: effects of growth habit and nitrogen fertilization. In "Proceedings of the first congress of the European Society of Agronomy", A. Scaife (ed.), Paris (F), 5-7 December, S1P53.
- Borin M., Bona S., Mosca G., Giardini L., 1992. Effect of nitrogen fixation and soil type on nitrogen nutrition in soybean. In "Proceedings of the first congress of the European Society of Agronomy", A. Scaife (ed.), Warwick University, 23-28 August, 38-39.
- Mosca G., Bona S., 1992. Variability in winter wheat across years in northern Italy. I. Effects of reducing tillage inputs. In "Proceedings of the first congress of the European Society of Agronomy", A. Scaife (ed.), Warwick University, 23-28 August, 110-111.
- Sinclair T.R., Mosca G., Bona S., 1992. Variability in winter wheat across years in northern Italy. II. Model analysis of weather effects. In "Proceedings of the first congress of the European Society of Agronomy", A. Scaife (ed.), Warwick University, 23-28 August, 140-141.
- Bona S., Mosca G., Sambo P., 1994. Effects of late nitrogen fertilization in soybean on some physiological and productive parameters. In "World Soybean Research Conference V", Chang Mai, Thailand, 21-27 February, 388-393.
- Bona S., Mosca G., Sambo P., 1994. Leaf Fluorescence and nitrogen nutrition in soybean. In "World Soybean Research Conference V", Chang Mai, Thailand, 21-27 February, 394-399.
- Bouniols A., Bona S., Mosca G., Vallerani C., Merrien A., Pachiaudi C., Variability in nitrogen fixation and nitrogen balance of soybean in several European locations - Effects of crop management. In "World Soybean Research Conference V", Chang Mai, Thailand, 21-27 February, P147.
- Gianquinto G., Pimpini F., Bona S., 1994. Relazioni fra caratteristiche vegetative delle piantine al trapianto e produzione del pomodoro da industria (*Lycopersicon esculentum* MILL.). In "II Giornate scientifiche SOL", S. Benedetto del Tronto, 22/24 Giugno 1994, 307-308.
- Vamerali T., Bona S., Mosca G., 1994. Root length density, yield and nitrogen allocation in maize selected for low input. In "3rd ESA Congress", Abano-Padova, 18-22 September, 548-549.
- Vamerali T., Mosca G., Bona S., Peruch U., Poggolini S., Basaglia M., Casella S. and Nuti M. P., 1995. Environmental impact of genetically modified (GM) *Azospirillum brasilense* used as inoculant for *Sorghum bicolor* (L.): root geometry and nitrogen utilisation. In "Plant roots - from cells to systems", IACR-Long Ashton Research Station, Bristol, England, 13-15 September, 118.
- Vamerali T., Bona S. and Mosca G., 1995. Root growth in corn (*Zea mays* L.) hybrids selected for low input as affected by nitrogen availability. In "Minirhizotron workshop", Swedish University of Agricultural Sciences, Båstad , Sweden, 17-20 September.
- Mosca G., Bona S., Rosato P., Vamerali T., Amaducci M.T., Venturi G., 1996. The advantages of cultivating non-food sunflower. In "Third European Symposium on «Industrial Crops and Products»", Elsevier Science Ltd, Reims, France, 22-24 April.
- Sambo P., Mosca G., Bona S., Vamerali T., 1999. Caratterizzazione morfo-fisiologica del colza come pianta "trappola" per i nitrati. In "Atti del XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 319-320.
- Bona S., Bertrand D., Mosca G., 1999. Studio quanti-qualitativo del contenuto di amido, amilosio e amilopectina in ibridi di mais in relazione all'interazione "genotipo X ambiente". In "Atti del XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 19-20.
- Mosca G., Bona S., Rosato P., 1999. Impatto ambientale ed economico della filiera etanolo con particolare riferimento all'areale veneto - obiettivo 5b. In "Atti del XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 78-79.
- Mosca G., Bona S., Bilancio energetico e della CO<sub>2</sub> nella filiera di produzione di biodiesel da girasole e colza. In "Atti del XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 80-81.
- Bona S., Mosca G., Sambo P., 1999. Evaluation of response of nodule to oxygen in soybean. In "World Soybean Research Conference VI", August 4-7, Chicago Illinois, USA, 542.
- Bona S., Mosca G., Ganis A. e Vamerali T., 2000. Brassicaceae per il recupero di terreni inquinati da metalli pesanti. In Atti del Convegno organizzato dalla Società Italiana della Scienza del Suolo "La bioremediation in Italia: dalla teoria alla pratica". Roma, 14-15 dicembre 2000: 57-58.
- Vamerali T., Bona S., Cagnin M., Mosca G. e Saccomani M., 2001. Effetto della selezione per il basso input sulla morfo-fisiologia dell'apparato radicale del mais. In Atti del XIX Convegno Nazionale della Società di Chimica Agraria, 25-28 settembre 2001, Reggio Calabria: 99.
- Vamerali T., Saccomani M., Bona S., Mosca G. and Guarise M., 2001. Adaptation of maize root system to adverse soil conditions. In The 6th ISRR Symposium "Roots: the dynamic interface between plants and the earth", November 11-15, 2001 - Nagoya (Japan): 324-325.
- Vamerali T., Ganis A., Bona S. and Mosca G., 2001. Fibrous root turnover and growth in sugar beet (*Beta vulgaris* var. *saccharifera*) as affected by nitrogen shortage. In The 6th ISRR Symposium "Roots: the dynamic interface between plants and the earth", November 11-15, 2001 - Nagoya (Japan): 340-341.
- Vamerali T., Guarise M., Ganis A., Bona S. and Mosca G., 2001. A fast procedure of root image analysis applied to auger sampling. In The 6th ISRR Symposium "Roots: the dynamic interface between plants and the earth", November 11-15, 2001 - Nagoya (Japan): 580-581.
- Vamerali T., Mosca G., Guarise M. and Bona S., 2002. Progress in methods for investigating the fibrous root system in sugar beet. In Proceedings of 65th IIRB Congress, 13-14 February 2002 Brussels, Belgium: 94.
- Guarise M., Vamerali T., Bona S. and Mosca G., 2002. Understanding the architecture of root systems by geostatistics. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Vamerali T., Ganis A., Bona S. & Mosca G., 2002. Advances in minirhizotron root image analysis. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Vamerali T., Saccomani M., Bona S. and Mosca G. Root morpho-physiological traits involved in selection for low input in maize. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Bona S., Mosca G., Vamerali T. and Ganis A., 2002. A new method for quantifying the effects of water stress in sunflower. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Bona S., Ganis A., Vamerali T. & Mosca G., 2002. Effects of cadmium and chromium on seed germination and early growth in brassicaceae species. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Bona S., Ganis A., Vamerali T., and Mosca G., 2002. Phytoextraction of heavy metals with brassicaceae species in contaminated soil. Proceedings of the VII ESA Congress, 15-18 July 2002, Cordoba (Spain). Accepted. (+pubblicazione in proprio)
- Vamerali T., Smit A.L., Bona S. e Mosca G., 1996. Applicazione dell'analisi d'immagine al metodo dei minirizotroni per lo studio del turnover radicale. In Abstracts del XXX Convegno Nazionale della S.I.A. (Società Italiana di Agronomia), Perugia, 3-6 giugno 1996.
- Vamerali T., Ganis A., Bona S. and Mosca G., 1998. Approaching minirhizotron root image analysis. In "The supporting roots: structure and function", Book of Abstracts, 20-24 July 1998, Bordeaux, France.
- Bona S., Mosca G., Cantele A. and Vamerali T., 2000. Response of sunflower to progressive water stress. 15° International Congress of Sunflower, 20-22 June 2000 Toulouse (France): D58-D63.
- Bona S., Mosca G. and Vamerali T., 2000. Energy and CO<sub>2</sub> balance in biodiesel fuel production: the role of variability in agricultural practices. Proceedings of "1st World international conference and exhibition on biomass for energy and industry", 5-9 June 2000 Sevilla, Spain: 159-162.
- Vamerali T., Bona S., Guarise M. and Mosca G., 2000. Effects of nitrogen stress on growth and turnover of sugarbeet (*Beta vulgaris* var. *saccharifera*). 3rd International Crop Science Congress (ICSC) - Meeting Future Human Needs, 17-22 August Hamburg (Germany): 74.
- Vamerali T., Bona S., Saccomani M. e Mosca G., 2000. Risposta morfo-fisiologica di alcune selezioni di mais allo stress idrico e nutrizionale. In Atti del XXXIX Congresso annuale della Società Italiana di Fisiologia vegetale (SIFV), Bologna 18-20 settembre 2000: 108.
- Giulia Bellaio, Camevale Elisa, Szathvary Serena, Bona Stefano (2013) "Sensorial and chemical evaluation of different *Lycium barbarum* varieties cultivated in northern Italy" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Giulia Bellaio, Camevale Elisa, Szathvary Serena, Bona Stefano (2013) "Sensorial and chemical evaluation of dried Goji (*Lycium barbarum* L.) berries" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;

- Bona Stefano, Giulia Bellaio, Carnevale Elisa, Szathvary Serena (2013) "Sensorial and chemical evaluation of different hop (*Humulus lupulus* L.) varieties cultivated in northern Italy" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Bona Stefano, Giulia Bellaio, Carnevale Elisa, Szathvary Serena (2013) "Sensorial evaluation of crafted beers flavoured with herbs and spices" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Carnevale Elisa, Giulia Bellaio, Szathvary Serena, Bona Stefano (2013) "Sensorial evaluation of herbal teas: Lemon balm, Dandelion and Fennel" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Carnevale Elisa, Giulia Bellaio, Szathvary Serena, Bona Stefano (2013) "The quality of Oxheart tomato: agronomical, chemical and sensorial evaluation" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Szathvary Serena, Giulia Bellaio, Carnevale Elisa, Bona Stefano (2013) "Basil, Mentha and Thyme essential oils: determination of absolute threshold and recognition threshold" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- Szathvary Serena, Giulia Bellaio, Carnevale Elisa, Bona Stefano (2013) "Essential oils used in food packaging: test on their real antimicrobial effect" [submitted abstract]. In: The 29th International Horticultural Congress 17-22 August 2014, Brisbane;
- 28-29 September 2013 - Scientific poster presentation at "Parma Exhibition Centre" on sensorial evaluation of crafted beers flavoured with herbs and spices;
- Bona S., Maculan A., Mosca G., 1990. Funzionalità dei noduli radicali in soia in presenza di azoto di sintesi. Approccio statistico di simulazione. In "Stress ambientali nei vegetali", CNR-IREV, Roma, 27-28 Novembre, 44.
- Mosca G., Cecon P., Bona S., Danuso F., 1990. Bilan azoté du soja et environnement: l'expérience italienne. In "Eurosoja, Colloque CETIOM", Strasbourg 5-6 Septembre, 35-39.
- Mosca G., Bona S., Huang R., 1993. Soil effects on nitrogen fixation in soybean. In "Lecture-based workshop on: Soil microbial inoculants: biotechnological trends in the European Community", Gaiba (RO), Italy, April 27th, 8-10.
- Mosca G., Bona S., 1997. Above-ground development and nitrogen nutrition in soybean. In Proceedings of "World Soybean Research Conference V", Chang Mai, Thailand, 21-27 February 1994, 348-352.
- Mosca G., Bona S., Sambo P., 1995. Nitrogen fixation in agricultural systems with different input levels, in "Marconi Seminar: Leguminous plants in Mediterranean agriculture", CLIMA, Western Australia, 2-5 October 1995, Occasional paper No. 10.
- Bona S., Sambo P., Mosca G., 1996. A possible source of error in the response of nodule to oxygen in soybean, in "The Eleventh Australian Nitrogen Fixation Conference", University of Western Australia, Nedlands, Western Australia, 22-27 September 1996, 43-44.
- Bona S., Mosca G., Vameralli T., 1997. Oil crops for biodiesel production in Italy. In "International workshop Environmental aspects of energy crop production", ENEA Research Centre Brasimone, Bologna, Italy, October 9-10.
- Bona S., 1998. La produzione di acido erucico: possibilità di utilizzo di specie brassicacee. In "Oleaginose ad uso non alimentare", AISO e Prisca-MiPA editori, Roma, 12 marzo 1998.
- Bona S., Sambo P., Borin M., Mosca G., 1999. How much nitrogen does soybean fix when nitrogen in soil is available? EUROPEAN COOPERATIVE FAO NETWORK ON SOYBEAN RESEARCH Coordinated Meeting with the World Soybean Research Conference VI (August 4-7, 1999), Chicago, U.S.A.
- Bona S., Biodiesel e Bioetanolo: bilanci energetici e della CO<sub>2</sub>. In "XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova: 80-81.
- Mosca G., Bona S., 1999. Bilanci energetici e della CO<sub>2</sub> di colture erbacee per bioenergia. In Giornata di studio su "Valorizzazione energetica delle biomasse agroforestali", Accademia dei Georgofili, 25 Novembre 1999, Firenze.
- Mosca G., Bona S., Ganis A. e Vameralli T., 2001. Piante per la depurazione di terreni inquinati da metalli pesanti. In Atti del XXXIV Convegno Nazionale della Società Italiana di Agronomia "Strategie agronomiche al servizio della moderna agricoltura". Pisa 17-21 settembre 2001: 178-179.
- Bona S., Mosca G. and Vameralli T., 2001. Energy and CO<sub>2</sub> balance in biodiesel fuel production. In Proceedings (on CD-ROM) of "5th International Biomass Conference of the Americas", September 17-21 2001, The Rosen Centre Hotel, Orlando, Florida USA. 2 pp.
- Barcaccia G., Bona S., Lucchin M., Parrini P., Varotto S., 2000. Dalla pianta al farmaco: produzione, qualità, sicurezza. In "Triangulum 2000 – Ottavo simposio – Utilizzabilità del farmaco in fase di sperimentazione", 9-10 Novembre 2000, Padova, 1-12.
- 25 July 2013 - Invited speaker at the seminar of Veneto Agricoltura on "medicinal herbs: cultivation, transformation and market opportunities", to talk about the spermental field of the research project LocErb (introduction of the cultivation of novel medicinal herbs in Veneto region);
- 26 June 2013 - Invited speaker at X Giornate scientifiche SOI (Società Italiana Ortofrutticola) to talk about the quality of "Oxheart" tomato: agronomical, chemical and sensorial evaluation.
- Catizone P., Mosca G., Bona S., 1993. Semi oleosi: utilizzazione per biocombustibili, in Edizioni AGER (Istituto Agricolo per la ricerca nel Sistema Agro-Alimentare), 1993.
- De Mastro G., Bona S., 1998. Colza. In "Oleaginose non alimentari", G. Mosca (ed.), Edizioni Edagricole, 29-35.
- Oliveira M.R.G.; Van Noordwijk M.; Gaze S.R.; Brower G.; Bona S.; Mosca G.; Hairiah K., 2000. Chapter 6 - Auger sampling, in-growth cores and pinboard methods. In: "Root Growth and Function: a Handbook of Methods" ed. Smit, A.L.; Engels C.; Bengough, G.; van Noordwijk M.; Pellerin S.; van de Geijn, S., Springer-Verlag, Heidelberg. 175-210.
- Coordinatore: Bona S., 2000. 2.2 Metodi conservativi. In "Quaderno CNR-ASiR – OBIETTIVO RADICE – Metodi di studio e risultati ottenuti in ambiente mediterraneo – Ruolo dell'architettura della radice nella produttività delle colture" ed. Mosca G e Vameralli T.
- Bona S., 2000. 2.2.1 Metodo della finestra. In "Quaderno CNR-ASiR – OBIETTIVO RADICE – Metodi di studio e risultati ottenuti in ambiente mediterraneo – Ruolo dell'architettura della radice nella produttività delle colture" ed. Mosca G e Vameralli T.
- Govi G., Minotta G., De Giorgio D., Bona S., 2000. 2.2.3 Minirizotroni. In "Quaderno CNR-ASiR – OBIETTIVO RADICE – Metodi di studio e risultati ottenuti in ambiente mediterraneo – Ruolo dell'architettura della radice nella produttività delle colture" ed. Mosca G e Vameralli T.
- Bona S., 1999. Azotofissazione: quale legame? In "Quaderno CNR-ASiR – OBIETTIVO RADICE – Metodi di studio e risultati ottenuti in ambiente mediterraneo – Ruolo dell'architettura della radice nella produttività delle colture" ed. Mosca G e Vameralli T.
- Gianquinto G., Bona S., 1999. The significance of trends in concentrations of total nitrogen and nitrogenous compounds. In "EUROPP - Efficiency in Use of Resources: Optimization in Potato Production – Manual of methods", Haverkort A.J., MacKerron D.K.L. (eds.), 35-54.
- Bona S., a cura di, Atti del XXXIII Convegno annuale Società Italiana di Agronomia "Le colture non alimentari", 20-23 settembre 1999, Legnaro-Padova.
- Bona S. e Mosca G., 2001. Revisione testo "Agricoltura sostenibile – Manuale di divulgazione sulle tecniche produttive delle principali colture erbacee". Veneto Agricoltura (ed.), Legnaro (PD), 124 pp.
- Bona S., 1998. Rilevamento, elaborazione e interpretazione statistica dei dati in agricoltura. Dispense del corso per "Gruppo esperti in colture estensive", Motta di Livenza, 6 ottobre 1998.
- Bona S., Mosca G., 1999. Energia rinnovabile e ambiente - BILANCIO DELLA CO<sub>2</sub> E DELL'ENERGIA DELLA FILIERA BIODIESEL, Pubblicazione realizzata nell'ambito del Progetto PRISCA del MiPA.
- Vameralli T., Mosca G., Bona S., 1997. Studio della morfologia radicale di piante erbacee coltivate: finalità, metodologie disponibili e prospettive future. (pubblicazione in proprio)
- (invited speaker) Bona S., 2006. Piante mediterranee per produrre energia: quali piante e quali energie?. In 3° Convegno Nazionale- Piante mediterranee, Le piante Mediterranee nelle scelte strategiche nelle Strategie per l'Agricoltura e l'Ambiente, Bari, Fiera del Levante, 27 settembre-1 ottobre 2006
- (invited speaker) Bona S., 2007. L'olio grezzo come combustibile. In "giornata di studio su PRODUZIONE DI ENERGIA DA FONTI RINNOVABILI: LE RISORSE PRIMARIE", Accademia dei Georgofili, Firenze, Logge degli Uffizi Corti, 15 febbraio 2007.
- Bona S., 2007. Il paradosso della mietitrebbia (editoriale). *Energheia*, 4, 1-3.
- Bona S., Artoni G., Primavera A., 2006. Caratteristiche e coltivazione della *Calendula officinalis* L.. *Phytomagazine* (rivista on line), 47.
- Bona S., Coletto L., Florio G., Sandrini S.G., 2007. Quantificare l'Impatto Ambientale. *Energheia*, 4, 18-20.
- Bona S., Riello L., 2006. Sostenibilità ambientale dell'utilizzazione aziendale dell'olio di colza puro come fonte di energia. In 3° Convegno Nazionale- Piante mediterranee, Le piante Mediterranee nelle scelte strategiche nelle Strategie per l'Agricoltura e l'Ambiente, Bari, Fiera del Levante, 27 settembre-1 ottobre 2006
- Bona S., Riello L., Sandrini S.G., Florio G., 2008. "Gli Aromi", I Sapori del Mondo. Ed Regione Veneto, 15-18.
- Brigi A., Bona S., Sandrini S.G., 2007. L'Analisi Sensoriale, *Erboristeria Domani. Dic 2007*
- Giorgi A., Bona S., Sandrini S., 2006. Produzione di assenzio in Valle Camonica. In 3° Convegno Nazionale- Piante mediterranee, Le piante Mediterranee nelle scelte strategiche nelle Strategie per l'Agricoltura e l'Ambiente, Bari, Fiera del Levante, 27 settembre-1 ottobre 2006
- Mosca G., Vameralli T., Ganis A., Coletto L., Bona S., 2005. Miglioramento dell'efficienza agronomica della fitodecontaminazione di metalli pesanti. In "Fitostrazione di metalli pesanti" a cura di Zerbi G. e Marchiol L., Ed. Universitaria Udinese, Udine (UD), 105-135.
- Primavera A., Bona S., Riello L., Sandrini S., Giorgi A., 2006. Problematiche della coltivazione intensiva delle piante infusionali in ambiente mediterraneo. In 3° Convegno Nazionale- Piante mediterranee, Le piante Mediterranee nelle scelte strategiche nelle Strategie per l'Agricoltura e l'Ambiente, Bari, Fiera del Levante, 27 settembre-1 ottobre 2006
- Riello L., Bona S., 2006. Life Cycle Assessment for evaluating on-farm energy production: the case of sunflower oil. *Ital. J. Agron. / Riv. Agron.*, 4:705-714
- Riello L., Bona S., 2005. Utilizzazione dell'olio di girasole in azienda. Ed. Veneto Agricoltura, Padova, pp. 80
- Vameralli T., Mosca G., Guarise M., Bona S., 2005. Progress in methods for investigating the fibrous root system in sugar beet. In "Proceeding of the 65° IIRB Congress", Brussels (B)

Zanetti F., Vameralli T., Bona S., Mosca G., 2006. Can we "cultivate" erucic acid in southern Europe? Ital. J. Agron., 2006, 1, 3-10.

BONA S; COLETTI L; SANDRINI S G; BRIGI A; CALGARO A; 2008. Dal gasolio agricolo all'olio vegetale. In *Energieheia energie rinnovabili e biodilizia*. Ed. Logika. 7: 22-27 [on line] [http://nuke.energieheiamagazine.it/Portals/0/Numero07/def\\_06.pdf](http://nuke.energieheiamagazine.it/Portals/0/Numero07/def_06.pdf).

COLETTI L; BONA S; SANDRINI S G; BRIGI A; FLORIO G; 2008. L'analisi del ciclo di vita. *Bioagricoltura*. 5: 38-40.

BONA S, COLETTI L; SANDRINI S G; CALGARO A; BRIGI A; 2008. Olio grezzo come combustibile In "Produzione di energia da fonti biologiche rinnovabili. 2-Le risorse primarie" a cura de I Georgofili, Quaderno 2007-II. Ed. polistampa, Firenze: 49-75.

BONA S; SANDRINI S G; COLETTI L; FLORIO G; BRIGI A; 2008. Regional analysis of pure vegetable oil production; the Veneto case. In *Atti del 16th European biomass conference & exhibition* - 2-6 giugno 2008, Valencia, Spagna: 2003-2006.

BONA S; RIELLO L; SANDRINI S G; FLORIO G; 2008. "Gli Aromi", I Sapori del Mondo (libro), Ed. Regione Veneto: 15-18;

Ha realizzato, collaborazione con Riello L., le seguenti schede colturali per il Manuale dell'Agronomo, REDA (in stampa): ACETOSA (*Rumex acetosa* L.), ACETOSELLA (*Oxalis acetosella* L.), ACHILLEA (*Achillea millefolium* L.), ACONITO (*Aconitum napellus* L.), ALCHECHENGI (*Physalis alkekengi* L.), ALLORO (*Laurus nobilis* L.), ANETO (*Anethum graveolens* L.), ANGELICA (*Angelica archangelica* L.), ASSENZIO GENTILE (*Artemisia pontica* L.), ASSENZIO PONTICO (*Artemisia vallesiaca* All.), ASSENZIO ROMANO (*Artemisia absinthium* L.), BORRAGINE (*Borago officinalis* L.), BORSA PASTORE (*Capsella bursa-pastoris* L.), CALAMO (*Acorus calamus* L.), CALENDULA (*Calendula officinalis* L.), CAMEDRIO (*Teucrium chamaedrys* L.), CAMOMILLA COMUNE (*Matricaria chamomilla* L.), CAMOMILLA ROMANA (*Anthemis nobilis* L.), CANAPA (*Cannabis sativa* L.), CAPELVENERE (*Adiantum capillus-veneris* L.), CARDO MARIANO (*Silybum marianum* Gaertner), CENTAUREA MINORE (*Erythraea centaurium* Pers.), CICUTA MAGGIORE (*Conium maculatum* L.), CODA CAVALLINA (*Equisetum arvense* L.), CRESCIONE D'ACQUA (*Nasturtium officinale* R. Br.), ECHINACEA (*Echinacea* spp. L.), ERBA CIPOLLINA (*Allium schoenoprasum* L.), ERBA DI SAN PIETRO (*Crithmum maritimum* L.), FARFARA (*Tussilago farfara* L.), FELCE MASCHIO (*Dryopteris filix mas* Schott), FUMARIA (*Fumaria officinalis* L.), GENZIANA MAGGIORE (*Gentiana lutea* L.), GENZIANA o GENZIANELLA (*Gentiana acaulis* Gr.), LAVANDA e LAVANDINO (*Lavandula angustifolia* Miller. e *Lavandula hybrida* Rev.), LINO (*Linum usitatissimum* L.), MALVA (*Malva sylvestris* L.), MELISSA (*Melissa officinalis* L.), MENTA (*Mentha x piperita* L.), ORTICA (*Urtica dioica* L.), PIRETRO (*Tanacetum cinerariifolium* Sch.-Bip.), PREZZEMOLO (*Petroselinum sativum* Hoffm.), RAFANO (*Armoracia rusticana* Gaertner), SALVIA SCLAREA o SALVIA MOSCATELLA (*Salvia sclarea* L.), SASSOFRASSO (*Sassafras albidum* Nees.), TORMENTILLA (*Potentilla erecta* Rauschel), VALERIANA (*Valeriana officinalis* L.).

BONA S; COLETTI L; SANDRINI S G; BRIGI A; CALGARO A; 2008. Dal gasolio agricolo all'olio vegetale. In *Energieheia energie rinnovabili e biodilizia*. Ed. Logika. 7: 22-27 [on line] [http://nuke.energieheiamagazine.it/Portals/0/Numero07/def\\_06.pdf](http://nuke.energieheiamagazine.it/Portals/0/Numero07/def_06.pdf).

COLETTI L; BONA S; SANDRINI S G; BRIGI A; FLORIO G; 2008. L'analisi del ciclo di vita. *Bioagricoltura*. 5: 38-40.

BONA S, COLETTI L; SANDRINI S G; CALGARO A; BRIGI A; 2008. Olio grezzo come combustibile In "Produzione di energia da fonti biologiche rinnovabili. 2-Le risorse primarie" a cura de I Georgofili, Quaderno 2007-II. Ed. polistampa, Firenze: 49-75.

BONA S; SANDRINI S G; COLETTI L; FLORIO G; BRIGI A; 2008. Regional analysis of pure vegetable oil production; the Veneto case. In *Atti del 16th European biomass conference & exhibition* - 2-6 giugno 2008, Valencia, Spagna: 2003-2006.

BONA S; RIELLO L; SANDRINI S G; FLORIO G; 2008. "Gli Aromi", I Sapori del Mondo (libro), Ed. Regione Veneto: 15-18 Bona, Stefano; Mosca, Giuliano; Toniolo, L. 1990 -Calderini Edagricole; -Il sole 24 ore Edagricole luogo: -Bologna RIVISTA DI AGRONOMIA 1 52 58

Voltan, R.; Dalla Costa, L.; Bona, Stefano; Mosca, Giuliano 1990 *AGRICOLTURA MEDITERRANEA* 120 391 397

Bona, Stefano; Voltan, R.; Mosca, Giuliano 1991 John Wiley & Sons *JOURNAL OF AGRONOMY AND CROP SCIENCE* 167 249 253

Bona, Stefano; Maculan, A.; Mosca, Giuliano 1991 John Wiley & Sons *JOURNAL OF AGRONOMY AND CROP SCIENCE* 167 Two varieties of soybean were grown in large pots out of doors. At the R2 stage, a state of temporary root anoxia appeared caused by a heavy rainfall and in R3, nitrogen was applied. The nitrogenase activity of the nodules was measured at weekly intervals (ARA test). During the vegetative stage, the number of nodules and their weight increased rapidly, although the anoxia caused a slowing down followed by a recovery in the successive stages (R3-5). The same effect was apparent in consequence of a late nitrogen fertilization; both varieties attaining values close to those of the control 15 days after the treatment. Nitrogenase activity also showed an inhibition caused by the anoxia but it appeared earlier. During the latest stages of the cycle (R6-7), the nitrogen treatment increased the rate of nitrogen fixation in Hodgson 78 only. The use of a multiple regression model allowed a verification that the parameters controlling nitrogen fixation acted in a similar way in both varieties. In the field, the weight of the nodules, both single and total, appeared to be particularly important in determining the total nitrogen fixation rate. 254 258

Mosca, Giuliano; Bona, Stefano; Toniolo, L. 1993 ATTUALE: -PATRON EDITORE S.R.L., VIA BADINI 12, QUARTO INFERIORE, BOLOGNA, ITALY -Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 RIVISTA DI AGRONOMIA 27, 4 469 473

Bona, Stefano; Mosca, Giuliano; Toniolo, L. 1993 ATTUALE: -PATRON EDITORE S.R.L., VIA BADINI 12, QUARTO INFERIORE, BOLOGNA, ITALY -Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 RIVISTA DI AGRONOMIA 27, 4 475 479

Bona, Stefano; Borin, Maurizio; Mosca, Giuliano; Giardini, L. 1993 ATTUALE: -PATRON EDITORE S.R.L., VIA BADINI 12, QUARTO INFERIORE, BOLOGNA, ITALY -Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 RIVISTA DI AGRONOMIA 27, 4 463 468

Sinclair, T. R.; Mosca, Giuliano; Bona, Stefano 1993 *JOURNAL OF AGRONOMY AND CROP SCIENCE* 170 Winter wheat growth and yield was observed in two sets of field experiments performed at the Experimental Farm of Padova University in Legnaro, over seven years beginning in 1981. A spring wheat model in which leaf area development was calculated as a function of temperature and biomass accumulation was utilized. The final number of leaves in each season was calculated based on a previous winter wheat model and the biomass accumulation was decreased when average daily temperature was below 10 °C. In addition to the two modifications described above, the soil/crop nitrogen submodels were modified so that denitrification was a function of temperature and plant nitrogen uptake rate was sensitive to variations in daily temperature. Nitrogen leached below 60 cm was assumed to be no longer available to the winter wheat crop. The winter wheat model with the soil/crop nitrogen budget resulted in good agreement between the simulated and observed yields (less than 14 % difference existed in 12 of 14 environments). A strong negative correlation ( $r = -0.74$ ) existed between the simulated yields and the simulated amount of nitrogen leached out of the root zone. Under the conditions of northern Italy, retention of root zone nitrogen appears to be particularly important in achieving high winter wheat yields. 202 207

Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 1994 *Proceedings of the Third ESA Congress - European Society of Agronomy* 548 549

Bona, Stefano; Vameralli, Teofilo; Mosca, Giuliano 1994 Risposta del sistema radicale del mais (*Zea mays* L.) alla riduzione degli input Abstract del XXVIII Convegno Nazionale della S.I.A. - Società Italiana di Agronomia

Mosca, Giuliano; Bona, Stefano 1994 Oil seed crops for production of methylester. Energy analysis and productivity of some species Edagricole spa RIVISTA DI INGEGNERIA AGRARIA 3 151 161

Bona, Stefano; Vameralli, Teofilo; Mosca, Giuliano 1995 Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 RIVISTA DI AGRONOMIA 29 339 347

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo; Amaducci, M. T.; Venturi, G.; Pritoni, G. 1995 Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 SEMENTI ELETTE 3-4 7 13

Vameralli, Teofilo; Mosca, Giuliano; Bona, Stefano; Peruch, U.; Poggiolini, S.; Basaglia, Marina; Casella, Sergio; Nuti, MARCO PAOLO 1995 *Proceedings of the 14<sup>th</sup> Long Ashton Symposium* 118 118

Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 1995 *MINIRHIZOTRON WORKSHOP* Bostad, Sweden, September 17-20, 1995

T., Vameralli; Mosca, Giuliano; Bona, Stefano; U., Peruch; S., Poggiolini; Basaglia, Marina; Casella, Sergio; M. P., Nuti 1995 14th Long Ashton International Symposium, Plant roots - from cells to systems 118 118

Bona, Stefano; Mosca, Giuliano; Sambo, Paolo 1996 *FAO - SD - Rome EUROSIOYA* 10 18

Mosca, Giuliano; Bona, Stefano; Sambo, Paolo 1996 [S.I.]: *FAO European Cooperative Research Network on Soybean. EUROSIOYA* 10 1 8

Mosca, Giuliano; Bona, Stefano; Rosato, P.; Vameralli, Teofilo; Amaducci, M. T.; Venturi, G. 1996 In *Third European Symposium on Industrial Crops and Products* Elsevier Science Ltd., Reims, France, 22-24 April 1996 78 78

Vameralli, Teofilo; Smit, A. L.; Bona, Stefano; Mosca, Giuliano 1996 *XXX Convegno Nazionale della S.I.A. (Società Italiana di Agronomia)*

Mosca, Giuliano; Bona, Stefano; Sambo, Paolo 1997 [S.I.]: *FAO European Cooperative Research Network on Soybean. EUROSIOYA* 11 36 46

Bona, Stefano; Sambo, Paolo; Mosca, Giuliano 1997 Il Sole 24 Ore Edagricole:via Goito 13, I 40139 Bologna Italy:011 39 051 6575891, EMAIL: abbona@gce.it, Fax: 011 39 051 6575900 RIVISTA DI AGRONOMIA 31 774 780

Serraj, R.; Bona, Stefano; Purcell, L.; Sinclair, Tr 1997 *FIELD CROPS RESEARCH* 52 109 116

Mosca, Giuliano; Bona, Stefano; Sambo, Paolo 1997 *FAO - SD - Rome EUROSIOYA* 11 36 46

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo 1997 *Proc. Inter. Workshop "Environmental aspects of energy crop production"* ENEA Research Centre Brasimone, Bologna, Italy, October 9-10 1997 1053 1056

Purcell, L. C.; Serraj, R.; MANJULA DE, Silva; Sinclair, T. R.; Bona, Stefano 1997 *Marcel Dekker Incorporated:270 Madison Avenue:New York, NY 10016:(800)228-1160, (212)696-9000, EMAIL: bookorders@dekker.com, INTERNET: http://www.dekker.com, Fax: (212)685-4540 JOURNAL OF PLANT NUTRITION* 21(5) 949 966

Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano; Sambo, Paolo 1998 *Book of Abstracts "The supporting roots: structure and function"*

Vameralli, Teofilo; Ganis, Andrea; Bona, Stefano; Mosca, Giuliano 1998 *Book of Abstracts "The supporting roots: structure and function"*

Purcell, L.; Serraj, R.; DE SILVA, M.; Sinclair, T.R.; Bona, Stefano 1998 Marcel Dekker Incorporated:270 Madison Avenue:New York, NY 10016:(800)228-1160, (212)696-9000, EMAIL: bookorders@dekker.com, INTERNET: http://www.dekker.com, Fax: (212)685-4540 JOURNAL OF PLANT NUTRITION 21 949 966

Vameralli, T.; Bona, Stefano; Mosca, Giuliano; Sambo, Paolo 1999 Kluwer Academic Publishers:Journals Department, PO Box 322, 3300 AH Dordrecht Netherlands:011 31 78 6576050, EMAIL: frontoffice@wkap.nl, kluweronline@wkap.nl, INTERNET: http://www.kluwerlaw.com, Fax: 011 31 78 6576254 PLANT AND SOIL 87 (Dev. in Plant and Soil) 397 404

Bona, Stefano; Bertrand, D. 1999 XXXIII Convegno annuale Societ  Italiana di Agronomia   Le colture non alimentari 20-23 settembre 1999, Legnaro-Padova 19 20

Bona, Stefano 1999 XXIII Convegno annuale Societ  Italiana di Agronomia   Le colture non alimentari   20-23 settembre 1999, Legnaro-Padova 80 81

Bona, Stefano 1999 Giornata di studio su   Valorizzazione energetica delle biomasse agroforestali   Accademia dei Georgofili, 25 Novembre 1999, Firenze.

Sambo, Paolo; Mosca, Giuliano; Bona, Stefano; Vameralli, Teofilo 1999 33  Convegno Annuale Societ  Italiana di Agronomia "Le colture non alimentari" 20-23 settembre 1999, Legnaro (Padova) 319 320

Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano; Sambo, Paolo 1999 Kluwer Academic Publishers DORDRECHT 87 Developments in Plant and Soil Sciences (DPSS) The supporting roots of trees and woody plants: form, function and physiology The recently commercialised rapeseed CHL (composite hybrid lines) are reported to give an average increase of about 15% in grain yield compared with 'old' varieties in normal growing conditions in France. In Italy, this observation has not been confirmed, since CHL Synergy and a good-yielding variety Ceres generally have similar yields (average of 12 field trials). However, several differences in morphological and physiological characters have been identified in the two genotypes, especially at root level. Both shoot biomass and the amount of shoot nitrogen in Synergy were slightly higher compared with Ceres for most of the growing season, until the end of winter. As regards the root system, Synergy shows evident hybrid vigour, having faster and, especially in early stages, greater weight and total length than Ceres, together with higher specific root length. These traits are a prerequisite for the uptake of greater amounts of nitrogen, which may eventually be leached. Although an increase in plant density led to higher root length density in the first soil layer (0-30 cm) for both varieties, nitrate leaching of Synergy exceeded that of Ceres at the high plant density, thus indicating that this hybrid is more sensitive to competition for nitrogen uptake. The increase in nitrate uptake rate per unit root length (Vmax) found for the hybrid compared with the 'old' variety was accompanied by an unfavourable increment of affinity (1/Km), which may be responsible of a loss of efficiency at high plant density. The morphological and physiological modifications of the hybrid seem to be more useful for reducing nitrogen leaching rather than for increasing grain yield. 397 404"

Vameralli, Teofilo; Ganis, A.; Bona, Stefano; Mosca, Giuliano 1999 PLANT AND SOIL 217 183 193

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo 1999 Elsevier Science Limited:Oxford Fulfillment Center, PO Box 800, Kidlington Oxford OX5 1DX United Kingdom:011 44 1865 843000, 011 44 1865 843699, EMAIL: asianfo@elsevier.com, tcb@elsevier.co.uk, INTERNET: http://www.elsevier.com/locate/shpsa/, Fax: 011 44 1865 843010. RENEWABLE ENERGY 16 There is an energy advantage in methylester production using sunflower, rapeseed and soybean as crop suppliers of energy, the process being practicable in terms of technique and energy gain. The three oilseed crops considered in this work are suitable for considerable reduction of inputs with consequent energy savings and low environmental impact Nevertheless, because of its low arable surface area, the number of available hectares being static, Italy is oriented towards intensive management As a consequence, optimisation of cropping techniques is the main strategy to be pursued for higher crop yields for methylester production. 1053 1056

Bona, Stefano; A., CURA DI 1999 20-23 settembre 1999, Legnaro-Padova

Bona, Stefano 1999 XXXIII Convegno annuale SIA Le colture non alimentari" 80 81

Bona, Stefano; Sambo, Paolo; Borin, Maurizio; Mosca, Giuliano 1999 EUROPEAN COOPERATIVE FAO NETWORK ON SOYBEAN RESEARCH Coordinated Meeting EUROPEAN COOPERATIVE FAO NETWORK ON SOYBEAN RESEARCH Coordinated Meeting with the World Soybean Research Conference VI (August 4-7, 1999), Chicago, U.S.A. 23 24

Bona, Stefano; Mosca, Giuliano; Sambo, Paolo 1999 World Soybean Research Conference VI August 4-7, Chicago Illinois, USA 542 542

Mosca, Giuliano; Bona, Stefano; Rosato, P. 1999 XXXIII Convegno annuale Societ  Italiana di Agronomia   Le colture non alimentari 20-23 settembre 1999, Legnaro-Padova 78 79

Gianquinto, G.; Bona, Stefano 1999 EUROPPE - Efficiency in Use of Resources: Optimization in Potato Production    Manual of methods 35 54

Vameralli, Teofilo; Bona, Stefano; Saccomani, Massimo; Mosca, Giuliano 2000 XXXIX CONGRESSO ANNUALE DELLA SOCIET  ITALIANA DI FISILOGIA VEGETALE (SIFV) BOLOGNA 18-20 SETTEMBRE 2000 108 108

Serraj, R.; Bona, Stefano; Purcell, L. C.; Sinclair, T. R. 2000 SOIL AND CROP SCIENCE SOCIETY OF FLORIDA PROCEEDINGS 70 20 22

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo 2000 1st World int. conf. and exhibition on biomass for energy and industry 5-9 June 2000 Sevilla, Spain 159 162

Barcaccia, Gianni; Bona, Stefano; Lucchin, Margherita; Parrini, Paolo; Varotto, Serena 2000 1 12

Bona, Stefano 2000 Dip Agronomia A. e P.V. PADOVA   Quaderno CNR-ASIR    OBIETTIVO RADICE    Metodi di studio e risultati ottenuti in ambiente mediterraneo    Ruolo dell'architettura della radice nella produttivit  delle colture   54 59

Govi, G.; Minotta, G.; DE GIORGIO, D.; Bona, Stefano 2000 Dip. Agronomia A. e P.V. PADOVA   Quaderno CNR-ASIR    OBIETTIVO RADICE    Metodi di studio e risultati ottenuti in ambiente mediterraneo    Ruolo dell'architettura della radice nella produttivit  delle colture   119 123

Bona, Stefano 2000 Dip. Agronomia A. e P.V. PADOVA   Quaderno CNR-ASIR    OBIETTIVO RADICE    Metodi di studio e risultati ottenuti in ambiente mediterraneo    Ruolo dell'architettura della radice nella produttivit  delle colture   113 115

Bona, Stefano 2000 Dip. Agronomia Ambientale e Produzioni Vegetali PADOVA   Quaderno CNR-ASIR    OBIETTIVO RADICE    Metodi di studio e risultati ottenuti in ambiente mediterraneo    Ruolo dell'architettura della radice nella produttivit  delle colture   113 126

Bona, Stefano; Mosca, Giuliano; Ganis, A.; Vameralli, Teofilo 2000 Convegno SISS La bioremediation in Italia: dalla teoria alla pratica Roma, 14-15 dicembre 2000 57 58

Vameralli, Teofilo; Bona, Stefano; Guarise, M.; Mosca, Giuliano 2000 3rd International Crop Science Congress (ICSC) - Meeting Future Human Needs) 17-22 August Hamburg (Germany) 74 74

M. DO ROSARIO G., Oliveira, M., VAN NOORDWIJK; S. R., Gaze, G., Brouwer; Bona, Stefano; Mosca, Giuliano 2000 SPRINGER -VERLAG HEIDELBERG ROOTH METHODS A Handbook 175 209

Bona, Stefano; Mosca, Giuliano; Cantele, A.; Vameralli, Teofilo 2000 15  International Congress of Sunflower 20-22 June 2000 Toulouse (France) D58 D63

Serraj, R.; Bona, Stefano; Purcell, L. C.; Sinclair, T. R. 2001 60 SOIL AND CROP SCIENCE OF FLORIDA 88 93

Vameralli, Teofilo; Saccomani, Massimo; Bona, Stefano; Mosca, Giuliano; Guarise, M. 2001 6th ISRR Symposium November 11-15, 2001 - Nagoya (Japan) 324 325

Vameralli, Teofilo; Bona, Stefano; Cagnin, Massimo; Mosca, Giuliano; Saccomani, Massimo 2001 XIX CONVEGNO NAZIONALE DELLA SOCIET  DI CHIMICA AGRARIA 99 99

Vameralli, Teofilo; Bona, Stefano; Cagnin, Massimo; Mosca, Giuliano; Saccomani, Massimo 2001 Atti del XIX Convegno Nazionale della Societ  di Chimica Agraria 377 383

Mosca, Giuliano; Vameralli, Teofilo; Bona, Stefano 2001 AGRONOMICA 5 9 16

Bona, Stefano 2001 RIVISTA DI AGRONOMIA 4 219 229

Gianquinto, G.; Sambo, Paolo; Bona, Stefano 2001 COLTURE PROTETTE 30 4 55

Bona, Stefano 2001 Veneto Agricoltura (Ed.) - Legnaro (PD) 1 124

Mosca, Giuliano; Bona, Stefano; Ganis, A.; Vameralli, Teofilo 2001 XXXIV Convegno SIA Strategie agronomiche al servizio della moderna agricoltura Pisa 17-21 settembre 2001 178 179

Vameralli, Teofilo; Guarise, M.; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2001 580 581

Vameralli, Teofilo; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2001 6th ISRR Symposium Roots: the dynamic interface between plants and the earth November 11-15, 2001 - Nagoya (Japan) 340 341

PROSDOCIMI GIANQUINTO, Giorgio; Sambo, Paolo; Bona, Stefano 2001 COLTURE PROTETTE 4 55 57

T., Vameralli, A.; Ganis, Bona, Stefano; Mosca, Giuliano 2001 6th ISRR Symposium "Root the dynamic interface between plants and the earth.

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo 2002 Amsterdam RAI International Exhibition and Congress Centre 1 pp 1 pp

Vameralli, T.; Guarise, M.; Ganis, A.; Bona, Stefano 2002 PLANT AND SOIL ----- 1 1000000000000

Vameralli, Teofilo; Saccomani, Massimo; Bona, Stefano; Mosca, Giuliano 2002 VII ESA CONGRESS. 15-18 JULY 2002, CORDOBA (SPAIN). 421 422

Vameralli, Teofilo; Mosca, Giuliano; Guarise, M.; Bona, Stefano 2002 65th IIRB Congress 13-14 February 2002 Brussels, Belgium 485 497

Bona, Stefano; Mosca, Giuliano; Vameralli, Teofilo; Ganis, A. 2002 VII ESA Congress Cordoba - Spain 65 66

Vameralli, Teofilo; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2002 VII ESA Congress 15-18 July 2002, Cordoba (Spain) 419 420

Guarise, M.; Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 2002 Proceedings of the VII ESA Congress 15-18 July 2002, Cordoba (Spain) 365 366

Bona, Stefano; Ganis, A.; Vameralli, Teofilo; Mosca, Giuliano 2002 VII ESA Congress 15-18 July 2002, Cordoba (Spain): 797 798

Bona, Stefano; Ganis, A.; Vameralli, Teofilo; Mosca, Giuliano 2002 VII ESA Congress 15-18 July 2002, Cordoba (Spain) 799 800

PROSDOCIMI GIANQUINTO, Giorgio; Sambo, Paolo; Bona, Stefano 2003 ultimo editore: International Society for Horticultural Science, Wageningen International Society for Horticultural Science / ISHS:PO Box 500, 3001 Leuven 1 Belgium:011 32 16 229427, EMAIL: info@ishs.org, Fax: 011 32 16 229450 ACTA HORTICULTURAE 627 217 224

Vameralli, Teofilo; Saccomani, Massimo; Bona, Stefano; Mosca, Giuliano; Guarise, M.; Ganis, A. 2003 PLANT AND SOIL 255 157 167

Bona, Stefano; Mosca, Giuliano; Riello, L.; Vameralli, Teofilo 2003 ITALIAN JOURNAL OF AGRONOMY 2 Cultivation of oilseed crops for energy production (methylester) leads to a positive energy balance, as found for sunflower and rapeseed in crop rotations typical of Northern Italy. In these crops, a positive CO2 balance has also been calculated, thus allowing possible mitigation of the greenhouse effect. Despite this, very little is known on the evolution of CO2 from cultivated soils, and the wide variability of data found in the

- literature greatly depends on the farming system. It is therefore necessary to find the most suitable type of agricultural management (input level) to optimize the CO<sub>2</sub> balance. In this paper, some results of CO<sub>2</sub> balances are presented, for sunflower and rapeseed used for biodiesel production, based on data derived from a survey of 400 cultivations in the Veneto Region (Po valley - North-East Italy). The dynamics of CO<sub>2</sub> fluxes were simulated over a two-year period, and the contribution of soil in the balance was estimated with a new model (DiSOS, Dynamics of Soil Organic Matter) which takes into account the evolution of this gas from soils as a function of tillage. Analyses revealed the relative weight of tillage intensity and the amount of crop residues in maintaining the soil carbon balance. The amount of crop residues, produced by the oilseed crops considered here, turned out to be the main factor. The DiSOS model was very useful in estimating the dynamics of the soil carbon balance as a function of cropping system, and contributed towards estimating the CO<sub>2</sub> balance of oilseed crops. Sunflower showed more stable behaviour in the various cropping systems, providing both reasonably good yields and CO<sub>2</sub> storage even with low inputs, with associated higher energy efficiency than rapeseed. Instead, rapeseed gained more from high input levels in terms of amount of carbon storage, but was more sensitive to extensive management as regards energy efficiency. 145 150
- Vameralli, Teofilo; Guarise, M.; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2003 PLANT AND SOIL 255 (1) 387 397
- Vameralli, Teofilo; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2003 PLANT AND SOIL 255 169 177
- Zanetti, Federica; Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 2003 35° Conv. SIA L'Obiettivo qualità integrale: il ruolo della ricerca agronomica" Portici (Napoli) 16-18 Settembre 2003. 227 228
- Zanetti, Federica; Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 2003 35° Conv. SIA Obiettivo qualità integrale: il ruolo della ricerca agronomica Portici (Napoli) 16-18 Settembre 2003 369 370
- Bona, Stefano; Mosca, Giuliano; Zanetti, Federica; Vameralli, Teofilo 2003 IENICA Int. South Europe Symp. Non-food crops: from agriculture to industry Bologna May 15-16, 2003 48 48
- Zanetti, Federica; Bona, Stefano; Berto, R.; Massignan, Adriano 2003 L'INFORMATORE AGRARIO 35 39 41
- Bona, Stefano; Vameralli, Teofilo; Riello, L.; Zanetti, Federica; Mosca, Giuliano 2003 35° Conv. SIA Obiettivo qualità integrale: il ruolo della ricerca agronomica Portici (Napoli) 16-18 Settembre 2003. 37 38
- Bona, Stefano; Mosca, Giuliano; Riello, L.; Vameralli, Teofilo 2003 IENICA Int. South Europe Symp. Bologna May 15-16, 2003. 46 46
- Riello, L.; Bona, Stefano; Mosca, Giuliano; Zanetti, Federica 2003 35° Conv. SIA Obiettivo qualità integrale: il ruolo della ricerca agronomica Portici (Napoli) 16-18 Settembre 2003 285 286
- Vameralli, Teofilo; Ganis, A.; Bona, Stefano; Mosca, Giuliano 2003 (2003). Impiego di tecniche di fitodepurazione in terreni fortemente contaminati Portici (Napoli) 16-18 Settembre 2003. 15 16
- Vameralli, Teofilo; Ganis, Andrea; Bona, Stefano; Mosca, Giuliano 2004 S.E. Jacobsen, C.R. Jensen & J.R. Porter Copenhagen VIII ESA Congress European Agriculture in a Global Context 475 476
- "Bona, Stefano; Mosca, Giuliano; L., Riello; Vameralli, Teofilo 2004 Editrice Universitaria Udinese, FORUM ITALIAN JOURNAL OF AGRONOMY 7 (2) Abstract The introduction of a oilseed crop, for energy production, in crop rotations typical of Northern Italy is very helpful for mitigating greenhouse effect; CO<sub>2</sub> balance for oilseed crops being always positive as stated by Bona et al. (1999). Very little is known on CO<sub>2</sub> evolution from cultivated soils. This incertitude is related to the fact that for producing more energy is necessary to increase input levels (tillage, chemicals ...) which very often induce an increase in soil organic matter degradation. On the other side, an extensive management can slowdown soil organic carbon degradation but the quantity of crop residues produced in this case are lower. In this framework it is necessary to find out the most suitable level of crop management for maximizing the CO<sub>2</sub> balance. In the present work the results of some simulations carried out with a model of CO<sub>2</sub> evolution from soils (DiSOS model – Bona et al., 2003) applied to sunflower and rapeseed for oil production as a function of soil tillage level are reported. The model was used to simulate the soil organic carbon evolution from 400 cultivations of rapeseed and sunflower which came from a survey made in the Veneto Region (Po valley – northern Italy). The CO<sub>2</sub> balance showed the relative weight of soil tillage and the amount of crop residues in determining soil carbon budget. The main factor influencing this budget was the amount of crop residues thus underlining the relevance of reaching high yields. The tillage inputs resulted less relevant in this context. 145 150"
- Mosca, Giuliano; Vameralli, Teofilo; Ganis, Andrea; Coletto, Lucia; Bona, Stefano 2004 FORUM UDINE Fitoestrazione di Metalli Pesanti â€œ Continenimento del Rischio Ambientale e Relazioni Suolo-Microorganismi-Pianta 105 135
- Bona, Stefano; G. MOSCA E. L., Riello 2004 Dip. Agronomia A. e P.V. PADOVA 1 145
- "Zanetti, Federica; Vameralli, Teofilo; Bona, Stefano; Mosca, Giuliano 2006 Editrice Universitaria Udinese, FORUM ITALIAN JOURNAL OF AGRONOMY 1 Over the last fifteen years, considerable progress has been made in the field of "green chemistry", as regards both research aspects and market development. In particular, extraction of erucic acid (C22:1) from plants and its industrial applications have received increasing attention. At present, known species producing oils yielding large quantities of erucic acid belong, with few exceptions, to the Brassicaceae family. Among these, the two major sources of erucic acid in the world are HEAR (High Erucic Acid Rapeseed, Brassica napus var. oleifera) and crambe (Crambe abyssinica), both mainly cultivated in the USA. Their cultivation has also recently been considered and extended to southern Europe, supported by specific research projects. The quantity of erucic acid in Brassicaceae oils ranges greatly, from 55% in Crambe abyssinica to nearly zero in some varieties of Brassica napus var. oleifera. Even more differentiated and peculiar to each species and variety is adaptability to specific climatic and soil conditions. In this regard, the major limitation to the cultivation of some interesting Brassicaceae species, crambe in particular, is their poor tolerance to cold. Among Brassicaceae producing erucic acid, the less frequently cultivated species, such as Brassica juncea and B. carinata, if grown in areas with relatively mild winters, may give yields of seed and oil similar to those of the most productive rapeseed genotypes. Within this framework, in order to achieve high production of erucic acid, it is essential to identify the most productive genotypes, among available species, for each environment. In this report, seed and oil productions of some important Brassicaceae species for extraction of erucic acid, derived from 15 years of field trials in northern Italy, are discussed in relation to the possibility of autumn or spring sowing. 3 10" Artoni, G; Bona, Stefano; Primavera, A. 2006 PLANT AND SOIL 53 1 4
- "Riello, L.; Bona, Stefano 2007 Udine : Fourm editrice universitaria udinese ITALIAN JOURNAL OF AGRONOMY 4 The main objective of this work was to evaluate the production of sunflower oil as a source of bioenergy and its use on the farm. Representative farms of the Veneto Region were analyzed in order to evaluate the possibility of using different biofuels. The results showed that there are only a few feasible alternatives at farm level. The conversion of oil to biodiesel appeared unachievable because of the large number of hectares necessary for optimizing use of the transesterification equipment. A life cycle environmental analysis (LCA) was applied to eight different farm types simulating the total replacement of diesel oil by pure vegetable oil (sunflower). The results were not uniform because, considering all the LCA impact categories, some of them turned to be worse than the original scenario (use of diesel oil) but there was a substantial advantage for all the farm types in terms of reduction of substances with effects on climate change. Some farms, termed horticultural farm large, arable farm large and arable farm small, had a reduction of more than 99% in the substances with effects on climate change by changing from diesel oil to sunflower oil. The biofuel is not yet competitive as no free market exists for it, but it represents a practical way to avoid the shift of economic benefits from agriculture to industry, as happens with biodiesel production. 705 714"
- Bona, Stefano; Coletto, Lucia; SANDRINI S., G; Calgario, A; Brigi, Alessandra 2008 I Georgofili FIRENZE QUADERNI -II. I GEORGOFILII. QUADERNI -II. Produzione di energia da fonti biologiche rinnovabili2 - Le risorse primarie 48 75
- Bona, Stefano; Coletto, Lucia; Florio, Giulia; Sandrini, S. G. 2008 Thiene (Vicenza): Edizioni Logika ENERGHEIA 4 18 20
- Bona, Stefano; Riello, L.; Sandrini, Sg; Florio, Giulia 2008 REGIONE VENETO PADOVA I Sapori del Mondo 15 18
- Bona, Stefano; SANDRINI S., G; Coletto, Lucia; Florio, Giulia; Brigi, Alessandra 2008 VALENCIA Atti del 16th European biomass conference & exhibition 2003 2006
- Coletto, Lucia; Bona, Stefano; SANDRINI S., G; Brigi, Alessandra; Florio, G. 2008 BIOAGRICOLTURA 5 38 40
- Bona, Stefano; Coletto, Lucia; SANDRINI S., G; Brigi, Alessandra; Calgario, A. 2008 ENERGHEIA 7 22 27
- Sambo, Paolo; Giannini, M; Marangon, A; Zanini, T; Brigi, Alessandra; Bona, Stefano 2009 ACTA HORTICULTURAE 807 181 186
- Tosini, F; Sambo, Paolo; Bona, Stefano 2009 Informatore Agrario SRL: Largo Caldera 11, PO Box 520, 37122 Verona Italy: 011 39 45 597855, Fax: 011 39 45 597510 L'INFORMATORE AGRARIO 4 32 36
- Bona, Stefano; Coletto, Lucia; Florio, Giulia; Sambo, Paolo; SANDRINI S., G; Calgario, A; Brigi, Alessandra; Pino, S. 2009 ASHS Annual Conference - Hort Science 44(4)
- Coletto, Lucia; Brigi, Alessandra; Calgario, A; SANDRINI S., G; Bona, Stefano 2009 Wageningen University and Research Center WAGENINGEN Proceedings of Integrated Assessment of Agriculture and Sustainable Development 366 367
- Sambo, Paolo; Giannini, M; Marangon, A; Zanini, T; Brigi, Alessandra; Bona, Stefano 2009 ultimo editore: International Society for Horticultural Science, Wageningen International Society for Horticultural Science /ISHS: PO Box 500, 3001 Leuven 1 Belgium: 011 32 16 229427, EMAIL: info@ishs.org, Fax: 011 32 16 229450 ACTA HORTICULTURAE 807 181 186
- Coletto, Lucia; Bona, Stefano; SANDRINI S., G; Brigi, Alessandra; Florio, Giulia; Sambo, Paolo 2009 Wageningen University and Research Center WAGENINGEN Proceedings of Integrated Assessment of Agriculture and Sustainable Development, Egmond aan Zee, Olanda: 446-447. 446 447
- Coletto, Lucia; Florio, G; SANDRINI S., G; Calgario, A; Brigi, Alessandra; Bona, Stefano 2009 CCA NEW DELHI Abstract 4th World Congress on Conservation Agriculture 228 228
- Tosini, F; Sambo, Paolo; Bona, Stefano 2009 L'INFORMATORE AGRARIO 7 62 65
- Sambo, Paolo; Tosini, F; Marangon, A; Zanini, T; Brigi, Alessandra; Bona, Stefano 2009 COLTURE PROTETTE 8 50 54
- Tosini, F; Sambo, Paolo; Bona, Stefano 2010 L'INFORMATORE AGRARIO 4 32 36
- Nicoletto, Carlo; Bona, Stefano; Santagata, Silvia; Tosini, F. 2010 17, Suppl. al n°2 Italus Hortus 106 107
- Sambo, Paolo; Tosini, F; Brigi, Alessandra; Bona, Stefano 2010 ITALUS HORTUS 17(2) 136 137



- Orsini F., Al Nayef M., Bona S., Maggio A., Gianquinto G., 2012. Low stomatal density and reduced transpiration facilitate strawberry adaptation to salinity. *Environmental and Experimental Botany*, 81: 1-10
- Gianquinto, G., Orsini, F., Pennisi, G., Bona, S. 2019. Sources of variation in assessing canopy reflectance of processing tomato by means of multispectral radiometry. *Sensors*, Volume 19, Issue 21, 1
- Barcaccia Gianni, Palumbo Fabio, Scariolo Francesco, Vannozzi Alessandro, Borin Marcello, Bona Stefano. 2020. Potentials and Challenges of Genomics for Breeding Cannabis Cultivars. *Frontiers in Plant Science*, 11, 1472. <https://www.frontiersin.org/article/10.3389/fpls.2020.573299> DOI=10.3389/fpls.2020.573299
- Barco Alberto, Bona Stefano, Borin Maurizio. 2021. Plant species for floating treatment wetlands: A decade of experiments in North Italy. *Science of The Total Environment*. Volume 751, 10 January 2021, 141666 <https://doi.org/10.1016/j.scitotenv.2020.141666>
- Antonio Bassan, Stefano Bona, Carlo Nicoletto, Paolo Sambo and Giampaolo Zanin. 2020. Rice Hulls and Anaerobic Digestion Residues as Substrate Components for Potted Production of Geranium and Rose. *Agronomy* 2020, 10(7), 950; <https://doi.org/10.3390/agronomy10070950>



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Il sottoscritto autorizza il trattamento dei miei dati personali contenuti nel presente c.v. redatto in formato Europass ai sensi all'art. 13 del D.Lgs. n. 196/2003 e del Reg. UE n. 679/2016 e della vigente normativa in materia di privacy.

#### Dichiarazione 445/2000

Il sottoscritto, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel presente c.v., redatto in formato europeo, corrispondono a verità.

13/10/2020

