CV of the Research Group Member: Fulvia Bovera

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GENERAL INFO

Address: Department of Veterinary Medicine and Animal Production, University of Napoli Federico II, via F. Delpino 1, 80137, Napoli, Italy**.**
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GENERAL INFO

- B. Sc. 1997
- Ph.D., 2001 University of Napoli Federico II.

PRESENT POSITIONS

Associate Professor, Department of Veterinary Medicine and Animal Production, University of Napoli Federico II, via F. Delpino 1, 80137, Napoli, Italy**.**

COLLABORATION

1- Department of Animal and Poultry Production, Damanhour University, Egypt.
2- Department of Agronomy, University of Florence, Italy.
3- Department of Enthomology, University of Basilicata, Italy

AWARD

Is listed among the "top 2% of scientists" for 2019, according to the the classification PLoS Biology (Ioannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLOS Biology 18(10): e3000918. https://doi.org/10.1371/journal.pbio.3000918).

TEACHING ACTIVITIES

- From 2004/2005 to 2009/2010 Course of "Aquaculture", 3 CFU, 3rd year degree in Animal production.
- From 2005/2006 to 2011/2012 Course of "Alternative rabbit and Poultry farming", 3 CFU, 2nd year of master's degree in Science and Technologies of Animal Production.
- From 2008/2009 to 2011/2012 Course of Mussels production, 2 CFU, 2nd year of master's degree in Science and Technologies of Animal Production.
- Since 2008/2009 course of "Alternative rabbit and Poultry farming", 3 CFU, 5th year of master's degree in Veterinary Medicine;
- From 2012/2013 to 2013/2014 course of "Alternative rabbit and Poultry farming", 5 CFU 2nd year of master's degree in Science and Technologies of Animal Production.

Since 2014/2015 course of "Beekeeping and alternative poultry farming, 6 CFU, 2nd year of master's degree in Science and Technologies of Animal Production.

- 2020/2021 course of "Zoocolture", 4 CFU, 2nd year of master's degree in Veterinary Medicine
- 2020/2021 course of "Poultry and Fish", 6 CFU, 2nd year of master's degree in Precision Livestock Farming.

EDITORIAL ACTIVITIES

- Section Editor for Italian Journal of Animal Science (ISSN 1828-051X)
- Guest Editor coordinator of the Book of Abstracts 23rd Congress of the ASPA (Scientific Association of Animal Production), June 2019, Sorrento (Napoli) (ISSN 1828-051X)

- Guest Editor for the Special Issue "Feeding Strategies to Improve Sustainability and Welfare in Animal Production", Animals 2019-2020 (ISSN 2076-2615)
- Guest Editor for the Topical Collection "Feeding Strategies to Improve Sustainability and Welfare in Animal Production", Animals (ISSN 2076-2615)

RESEARCH PROJECTS FUNDED AS SCIENTIFIC RESPONSIBLE

- 2007. Project name: "Study on the effects of mannano-oligosaccharides and mediu chain fatty acids on intestinal microflora of rabbits". Funded by: Campania Region, LR 28/03/2002 – Year 2005 (1 year).
- 2018. PSR Regione Campania 2014-2020, Misura 16, Sottomisura 16.1, Project name: OTTIMA, "Optimization of farm management to improve animal welfare" (1 year)

PUBLICATIONS AND JOURNALS

(Total Number of publication= 126 all published in ISI previewed journals.

RECENT RELEVANT 2015-2021

1. Hafez H.M., Attia Y.A., Bovera F., Abd El-Hack M.E., Khafaga A.F., de Oliveira M.C. 2021. Influence of COVID-19 on the poultry production and environment. Environmental Science and Pollution Research, 28, 33, 44833-44844
2. Addeo N.F., Randazzo B., Olivotto I., Messina M., Tulli F., Musco N., Piccolo G., Nizza A., Di Meo C., Bovera F. 2021. Replacing maize grain with ancient wheat lines by-products in organic laying hens' diet affects intestinal morphology and enzymatic activity. Sustainability (Switzerland), 13, 12, 6554
3. Ariano A., Musco N., Severino L., De Maio A., Tramice A., Tommonaro G., Damiano S., Genovese A., Olanrewaju O.S., Bovera F., Guerriero G. 2021. Chemistry of tropical eucheumatoids: Potential for food and feed applications. Biomolecules, 11, 804
4. Attia Y.A., Bovera F., Al-Harthi M.A., Tag El-Din A.E., Said Selim W. 2021. Supplementation of microbial and fungal phytases to low protein and energy diets: Effects on productive performance, nutrient digestibility, and blood profiles of broilers. Agriculture (Switzerland), 11, 414
5. Addeo N.F., Roncarati, A., Secci, G., Parisi G., Piccolo G., Ariano A., Scivicco, M., Rippa A., Bovera, F. 2021. Potential use of a queen bee larvae meal (Apis mellifera ligustica Spin.) in animal nutrition: a nutritional and chemical-toxicological evaluation. Journal of Insects for Feed and Food, 7(2), pp. 173–186.
6. Messina C.M., Panettieri V., Arena R., Renda G., Espinosa Ruiz C., Morghese M., Piccolo G., Santulli A., Bovera F. 2020The Inclusion of a Supercritical Fluid Extract, Obtained From Honey Bee Pollen, in the Diet of Gilthead Sea Bream (Sparus aurata), Improves Fish Immune Response

by Enhancing Anti-oxidant, and Anti-bacterial Activities. Frontiers in Veterinary Science, 7, 95, doi: 10.3389/fvets.2020.00095.

7. Panettieri V., Chatzifotis S., Messina C.M., Olivotto I., Manuguerra S., Randazzo B., Ariano A., Bovera F., Santulli A., Severino L., Piccolo G. 2020. Honey bee pollen in meagre (Argyrosomus regius) juvenile diets: Effects on growth, diet digestibility, intestinal traits, and biochemical markers related to health and stress. Animals,10, 2, 231, doi:10.3390/ani10020231.
8. Secci G., Bovera F., Parisi G., Moniello G. 2020. Quality of eggs and albumen technological properties as affected by Hermetia illucens larvae meal in hens' diet and hen age. Animals, 10, 1, 81, doi:10.3390/ani10010081.
9. Attia Y.A., Bovera F., Abd Elhamid A.E.-H., Nagadi S.A., Mandour M.A., Hassan S.S. 2019. Bee pollen and propolis as dietary supplements for rabbit: Effect on reproductive performance of does and on immunological response of does and their offspring. Journal of Animal Physiology and Animal Nutrition, 103, 3, 959-968, doi:10.1111/jpn.13069
10. Attia Y.A., Bovera F., Abd-Elhamid A.E.-H.E., Calabrò S., Mandour M.A., Al-Harthi M.A., Hassan S.S. 2019. Evaluation of the carryover effect of antibiotic, bee pollen and propolis on growth performance, carcass traits and splenic and hepatic histology of growing rabbits. Journal of Animal Physiology and Animal Nutrition, 103, 3, 947-958, doi:10.1111/jpn.13068
11. Moniello G., Ariano A., Panettieri V., Tulli F., Olivotto I., Messina M., Randazzo B., Severino L., Piccolo G., Musco N., Addeo N.F., Hassoun G., Bovera F. 2019. Intestinal morphometry, enzymatic and microbial activity in laying hens fed different levels of a Hermetia illucens larvae meal and toxic elements content of the insect meal and diets. Animals, 9,3:86 doi:10.3390/ani9030086
12. Loponte R., Bovera F., Piccolo G., Gasco L., Secci G., Iaconisi V., Parisi G. 2019. Fatty acid profile of lipids and caeca volatile fatty acid production of broilers fed a full fat meal from Tenebrio molitor larvae. Italian Journal of Animal Science, 18, 1, 168-173, doi:10.1080/1828051X.2018.1502053
13. Secci G., Moniello G., Gasco L., Bovera F., Parisi G. 2018. Barbary partridge meat quality as affected by Hermetia illucens and Tenebrio molitor larva meals in feeds. Food Research International, 112, 291-298, doi:10.1016/j.foodres.2018.06.045
14. Secci G., Bovera F., Nizza S., Baronti N., Gasco L., Conte G., Serra A., Bonelli A., Parisi G. Quality of eggs from Lohmann Brown Classic laying hens fed black soldier fly meal as substitute for soya bean. Animal, 12, 10, 2191-2197, doi:10.1017/S1751731117003603
15. Bovera F., Loponte R., Pero M.E., Cutrignelli M.I., Calabrò S., Musco N., Vassalotti G., Panettieri V., Lombardi P., Piccolo G., Di Meo C., Siddi G., Fliegerova K., Moniello G. 2018. Laying performance, blood profiles, nutrient digestibility and inner organs traits of hens fed an insect meal from Hermetia illucens larvae. Research in Veterinary Science, 120, 86, 93, doi:10.1016/j.rvsc.2018.09.006
16. Cutrignelli M.I., Messina M., Tulli F., Randazzi B., Olivotto I., Gasco L., Loponte R., Bovera F. 2018. Evaluation of an insect meal of the Black Soldier Fly (Hermetia illucens) as soybean

substitute: Intestinal morphometry, enzymatic and microbial activity in laying hens. Research in Veterinary Science, 117, 209-215. doi:10.1016/j.rvsc.2017.12.020

17. Borrelli L., Coretti L., Dipineto L., Bovera F., Menna F., Chiariotti L., Nizza A., Lembo F., Fioretti A. 2017. Insect-based diet, a promising nutritional source, modulates gut microbiota composition and SCFAs production in laying hens. Scientific Reports, 7, 1, 16560, doi:10.1038/s41598-017-16560-6

18. Loponte R., Nizza S., Bovera F., De Riu N., Fliegerova K., Lombardi P., Vassalotti G., Mastellone V., Nizza A., Moniello G. 2017. Growth performance, blood profiles and carcass traits of Barbary partridge (Alectoris barbara) fed two different insect larvae meals (Tenebrio molitor and Hermetia illucens). Research in Veterinary Science, 115, 183-188, doi:10.1016/j.rvsc.2017.04.017

19. Marono S., Loponte R., Lombardi P., Vassalotti G., Pero M.E., Russo F., Gasco L., Parisi G., Piccolo G., Nizza S., Di Meo C., Attia Y.A., Bovera F. 2017. Productive performance and blood profiles of laying hens fed Hermetia illucens larvae meal as total replacement of soybean meal from 24 to 45 weeks of age. Poultry Science,96,6, 1783-1790, doi:10.3382/ps/pew461

20. Bovera F., Loponte R., Marono S., Piccolo G., Parisi G., Iaconisi V., Gasco L., Nizza A. 2016. Use of Tenebrio molitor larvae meal as protein source in broiler diet: Effect on growth performance, nutrient digestibility, and carcass and meat traits. Journal of Animal Science, 94, 2, 639-647, doi:10.2527/jas.2015-9201

21. Attia Y., Bovera F., El-Tahawy W., El-Hanoun A., Al-Harthi M., Habiba H.I. 2015. Productive and reproductive performance of rabbits does as affected by bee pollen and/or propolis, inulin and/or mannan-oligosaccharides. World Rabbit Science, 23, 4, 273-282, doi:10.4995/wrs.2015.3644