



**Europass
Curriculum Vitae**



Personal information

First name and Surname	Riccardo Gannuscio
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Date of birth	[REDACTED]
Gender	[REDACTED]

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Work experience

Dates	From 30/09/2025 to present
Occupation or position held	Adjunct Professor
Main activities and responsibilities	Teaching the course "Animal Physiology and Nutrition" (6 ECTS, 60 hours) within the Bachelor's Degree in Mediterranean Agricultural Systems, Department of Agricultural, Food and Forestry Sciences (SAAF), Trapani campus.
Name and address of employer	University of Palermo – SAAF Department
Type of business or sector	Animal Nutrition and Feeding – SSD AGRI-09/B (formerly AGR/18)
Dates	From 03/03/2025 to present
Occupation or position held	Adjunct Professor
Main activities and responsibilities	Teaching Animal Nutrition Physiology and Feed Technology in the degree program in Animal Pharmaceuticals and Nutraceuticals, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STeBiCeF)
Name and address of employer	University of Palermo – STeBiCeF department
Type of business or sector	Animal Nutrition and Feeding – SSD AGRI-09/B
Dates	From 18/02/2026 to present
Occupation or position held	Research Fellow
Main activities and responsibilities	Study of the effects of feeding sheep with agro-industrial by-products on in vivo and in vitro ruminal fermentation using Gas Endeavour instrumentation.
Name and address of employer	University of Palermo - Department of Agricultural, Food and Forest Sciences (SAAF)
Type of business or sector	Animal Nutrition and Feeding – SSD AGRI-09/B (formerly AGR/18)
Dates	From 01/07/2025 to 31/12/2025
Occupation or position held	Postgraduate Research Fellowship Holder, Project: "BIOMETRIC", PNRR Agritech, Spoke 5 – Project Code: PRJ-1776 Scientific Supervisor: Prof. Massimo Todaro
Main activities and responsibilities	Effects of feeding agro-industrial byproducts on ruminal fermentation: in vivo evaluation using ruminal boluses and in vitro assessment with Gas Endeavour system
Name and address of employer	University of Palermo – SAAF department
Type of business or sector	Animal Nutrition and Feeding – SSD AGRI-09/B



<i>Dates</i>	October 2024 – October 2025
<i>Occupation or position held</i>	Collaboration with an international research group composed of members from Turkish and Pakistani universities, resulting in the publication of the following scientific articles: - Riaz, R., Bilal, R. M., Hassan, M. U., Todaro, M., Gannuscio, R., Inal, F., Ul Haque, M. N., Tahir, M. N. (2025). Crude Protein Degradation Kinetics of Selected Tropical Forages in Buffalo Using NorFor In Situ Standards. <i>Animals</i>, 15(4), 585. - Riaz, R., Waqas, M., Ahmed, I., Nouman, H. M., Imtiaz, B., Ul Hassan, M., Todaro, M., Gannuscio, R., Tahir, M. N., Sizmaz, O. (2025). Meta-Analysis of Incorporating Camelina and Its By-Products into Ruminant Diets and Their Effects on Ruminal Fermentation, Methane Emissions, Milk Yield and Composition, and Metabolic Profile. <i>Fermentation</i>, 11(10), 593.
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	24/07/2024 – 30/06/2025
<i>Occupation or position held</i>	Postdoctoral Research Fellow (Type B), Research Project – PSR Sicilia 2014/2022, Measure 16.1 Title: "Enhancement and Promotion of Sicilian Sheep Cheeses through Innovation Transfer for the Improvement of Quality and Commercial Characteristics" (PROTEIN) – Project Code: U-GOV PRJ-1684
<i>Main activities and responsibilities</i>	Enrichment of sheep milk and Pecorino Siciliano PDO cheese with nutraceutical compounds through the feeding of ewes with agro-industrial byproducts in a circular economy approach. Scientific supervisor: Prof. Massimo Todaro
<i>Name and address of employer</i>	University of Palermo – SAAF department
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	Academic year 2024/2025
<i>Occupation or position held</i>	Member of the examination board for the course Animal Nutrition and Feeding in the Master's degree program Entrepreneurship and Quality in the Agri-Food System.
<i>Main activities and responsibilities</i>	Participation in the examination sessions of the 2024/2025 academic year.
<i>Name and address of employer</i>	University of Palermo – SAAF department
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	Academic year 2024/2025
<i>Occupation or position held</i>	Member of the examination board for the course Animal Nutrition Physiology and Feed Technology in the Bachelor's degree program in Animal Pharmaceuticals and Nutraceuticals.
<i>Main activities and responsibilities</i>	Participation in the examination sessions of the 2024/2025 academic year.
<i>Name and address of employer</i>	University of Palermo – SAAF department
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B



<i>Dates</i>	29/01/2025
<i>Occupation or position held</i>	PhD in Mediterranean Agro-Food and Forest Systems
<i>Main activities and responsibilities</i>	Research activities in the field of animal production, with a specific focus on the use of agro-industrial byproducts in animal feeding.
<i>Name and address of employer</i>	University of Palermo – SAAF department
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	01/03/2024 – 30/07/2024
<i>Occupation or position held</i>	Research experience abroad at the Irish research center Teagasc, Athenry, Co. Galway, Ireland.
<i>Main activities and responsibilities</i>	Research focused on feeding and nutrition of meat sheep.
<i>Name and address of employer</i>	Teagasc - Agriculture and Food Development Authority, Tutor Dr. Philip Creighton
<i>Settore/Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	01/12/2023 – 21/02/2024
<i>Occupation or position held</i>	Research activity at the Department of Veterinary Medicine and Animal Production, University of Naples "Federico II"
<i>Main activities and responsibilities</i>	Research focused on animal feeding with the use of agro-industrial byproducts (in vitro digestibility trial)
<i>Name and address of employer</i>	University of Napoli "Federico II", Tutor Prof. Monica Isabella Cutrignelli
<i>Settore/Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	11/11/2022 – 11/02/2023
<i>Occupation or position held</i>	Research activity abroad at the University of Castilla-La Mancha, Albacete campus, Spain
<i>Main activities and responsibilities</i>	Research focused on the use of prickly pear byproducts in animal production
<i>Name and address of employer</i>	University of Castilla-La Mancha, Prof. Isabel Berruga
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B
<i>Dates</i>	01/01/2021 – 31/08/2021
<i>Occupation or position held</i>	Research fellow within the AGER 2 project, code 2017-1144, under the supervision of Prof. Massimo Todaro
<i>Main activities and responsibilities</i>	Research activities and laboratory analysis of livestock products and animal feed
<i>Name and address of employer</i>	University of Palermo – SAAF department
<i>Type of business or sector</i>	Animal Nutrition and Feeding – SSD AGRI-09/B

Education and training

Date	22-25/06/2025
Title of qualification awarded	Oral presenter at the Annual Meeting of the American Dairy Science Association (ADSA) held in Louisville, Kentucky, USA, with the presentation titled: "Effects of supplementing prickly pear by-products (Opuntia spp.) silage in dairy ewes' diet on nutritional characteristics of their milk and cheese"
Name and type of organisation providing education and training	ADSA (American Dairy Science Association)
Date	17-20/06/2025
Title of qualification awarded	Oral presenter at the 26th ASPA Congress (Association for Animal Science and Production) held in Turin, with the presentation titled: "Effects of feeding prickly pear by-product silage on dairy ewes"
Name and type of organisation providing education and training	ASPA - University of Turin
Date	17-20/09/2024
Title of qualification awarded	Oral presenter at the 25th SIPAOC Congress held in Sassari, with the presentation titled: "Silage as a conservation technique for Opuntia ficus indica (L.) by-products."
Name and type of organisation providing education and training	SIPAOC: Italian Society of Sheep and Goat Pathology and Breeding University of Sassari
Date	01-05/09/2024
Title of qualification awarded	Certificate of participation at the 75th EAAP Congress, Florence.
Name and type of organisation providing education and training	EAAP (European Association for Animal Production)
Date	18-22/09/2023
Title of qualification awarded	Certificate of participation in the course "Multivariate Statistical Analysis for Animal Science" held in Sassari.
Name and type of organisation providing education and training	ASPA – University of Sassari
Date	19-23/06/2023
Title of qualification awarded	Certificate of participation in the Summer School on "Animal Gastrointestinal Microbiome (Foregut, Midgut, and Hindgut): Exploring the Relationship Between Microbial Communities and Fatty Acids" held in Florence.
Name and type of organisation providing education and training	ASPA e SIMTREA –University of Florence



Date	13-16/06/2023
Title of qualification awarded	Oral presenter at the 25th ASPA Congress (Association for Animal Science and Production) held in Monopoli (BA), with the presentation titled: "Novel feedstuffs obtained by mixing different by-products: nutritional evaluation."
Name and type of organisation providing education and training	ASPA – University of Bari
Date	11-12/06/2023
Title of qualification awarded	Certificate of participation in the course "Foundation and Application of Empirical and Mechanistic Nutritional Models" organized by ASPA (Association for Animal Science and Production).
Name and type of organisation providing education and training	ASPA – University of Bari
Date	22-23/02/2023
Title of qualification awarded	Certificate of participation at the 24th National SIPAOC Congress "Sustainability of Sheep and Goat Farming", Viterbo.
Name and type of organisation providing education and training	SIPAOC: Italian Society of Sheep and Goat Pathology and Breeding University of Tuscia, Viterbo
Date	27-29/09/2022
Title of qualification awarded	Certificate of participation at the FAO-CIHEAM Congress held in Catania.
Name and type of organisation providing education and training	University of Catania – FAO-CIHEAM
Date	20-24/06/2022
Title of qualification awarded	Certificate of participation in the course "Advanced Statistical Analysis for Animal Science" held in Pisa.
Name and type of organisation providing education and training	ASPA - University of Pisa
Date	21-24/09/2021
Title of qualification awarded	Certificate of participation at the 24th ASPA Congress (Association for Animal Science and Production) held in Padua.
Name and type of organisation providing education and training	ASPA – University of Padua
Data/Date	15/03/2018 – 30/07/2020
Title of qualification awarded	Master's Degree in Entrepreneurship and Quality for the Agri-Food System (LM-69) Graduated with honors, score 110/110 cum laude
Name and type of organisation providing education and training	University of Palermo
Date	15/09/2013 – 15/03/2018
Title of qualification awarded	Bachelor's Degree in Agricultural Science and Technology (L-25) Final grade: 107/110
Name and type of organisation providing education and training	University of Palermo



Additional information

Author of the following scientific publications already published, as well as others currently under review:

ISI Publications:

- 1) R. Gaglio, G. Busetta, **R. Gannuscio**, L. Settanni, G. Licitra, M. Todaro (2022). A Multivariate Approach to Study the Bacterial Diversity Associated to the Wooden Shelves Used for Aging Traditional Sicilian Cheeses. *FOODS*, vol. 11, 774, ISSN: 2304-8158, doi: 10.3390/foods11050774
- 2) **R. Gannuscio**, M. Ponte, A. Di Grigoli, G. Maniaci, A. Di Trana, M. Bacchi, M. Alabiso, A. Bonanno, M. Todaro (2022). Feeding Dairy Ewes with Fresh or Dehydrated Sulla (*Sulla coronarium* L.) Forage. 1. Effects on Feed Utilization, Milk Production, and Oxidative Status. *ANIMALS*, vol. 12, 2317, ISSN: 2076-2615, doi: 10.3390/ani12182317
- 3) M. Ponte, G. Maniaci, A. Di Grigoli, **R. Gannuscio**, M. R. Ashkezary, M. Addis, M. Pipi, M. Alabiso, M. Todaro, A. Bonanno (2022). Feeding Dairy Ewes with Fresh or Dehydrated Sulla (*Sulla coronarium* L.) Forage. 2. Effects on Cheese Enrichment in Bioactive Molecules. *ANIMALS*, vol. 12, 2462, ISSN: 2076-2615, doi:10.3390/ani12182462
- 4) M. Todaro, M. L. Scatassa, **R. Gannuscio**, I. Vazzana, I. Mancuso, G. Maniaci, A. Laudicina. (2023). Effect of lambing season on ewe's colostrum composition. *Italian Journal of Animal Science*, 22(1), 14-23.
- 5) M. Todaro, **R. Gannuscio**, I. Mancuso, B. Ducato, M. L. Scatassa (2023). Relationships between chemical and physical parameters of bulk milk from Valle del Belice sheep. *Italian Journal of Animal Science*, 22(1), 953-958.
- 6) M. Todaro, G. Maniaci, **R. Gannuscio**, D. Pampinella, M. L. Scatassa (2023). Chemometric Approaches to Analyse the Composition of a Ewe's Colostrum. *Animals*, 13(6), 983.
- 7) G. Busetta, R. Gaglio, G. Mangione, G. Garofalo, E. Franciosi, **R. Gannuscio**, M. Caccamo, M. Todaro, R. Di Gerlando, L. Settanni, G. Licitra (2023). Effect of commission implementing regulation (EU) 2020/1319 on the bacterial composition of PDO Provolone dei Nebrodi cheese. *International Journal of Food Microbiology*, 110188.
- 8) **R. Gannuscio**, A. Vastolo, G. Maniaci, C. Lucia, S. Calabrò, M. Todaro, M. I. Cutrignelli (2024). Improve nutritive value of silage based on prickly pear peel by-products. *Italian Journal of Animal Science*, 23(1), 492-503.
- 9) M. Todaro, G. Garofalo, G. Busetta, **R. Gannuscio**, A.R. Di Rosa, M.L. Scatassa, et al. (2024). Reduction of PDO Pecorino Siciliano cheese making duration: Microbial dynamics and quality attributes deriving from replacing whey permeate with hot water during cooking. *International Journal of food Microbiology*, 410, 110481.
- 10) G. Di Miceli, M. Ponte, L. Dinolfo, G. Maniaci, M. Pipi, **R. Gannuscio**, S. Prestigiacomo, A. Bonanno, A. Di Grigoli (2024). Mixtures of Forage Species as Pasture for Dairy Ewes in a Mediterranean Environment. *Agronomy*, 14(2), 393
- 11) G. Maniaci, M. Ponte, C. Giosuè, **R. Gannuscio**, M. Pipi, R. Gaglio, G. Busetta, A. Di Grigoli, A. Bonanno, M. Alabiso (2024). Cladodes of *Opuntia ficus-indica* (L.) as source of bioactive compounds in dairy products. *Journal of Dairy Science*, 107(4), 1887-1902.
- 12) M. Todaro, **R. Gannuscio**, I. Mancuso, B. Ducato, M. L. Scatassa (2024). The use of Brix refractometer as a simple and economic device to estimate the protein content of sheep milk. *International Dairy Journal*, 105940.



- 13) C. Giosuè, G. Maniaci, **R. Gannuscio**, M. Ponte, M. Pipi, A. Di Grigoli, A. Bonanno, M. Alabiso (2024). Traits of Mortadella from Meat of Different Commercial Categories of Indigenous Dairy Cattle. *Animals*, 14(13).
- 14) **R. Gannuscio**, C. Cardamone, A. Vastolo, C. Lucia, A. D'Amico, G. Maniaci, M. Todaro, (2024). Ensiling as a Conservation Technique for *Opuntia ficus indica* (L.) By-Products: Peel and Pastazzo. *Animals: an Open Access Journal from MDPI*, 14(22), 3196.
- 15) R. Riaz, R. M. Bilal, M. U. Hassan, M. Todaro, **R. Gannuscio**, F. Inal, M.N.U. Haque, M. N. Tahir (2025). Crude Protein Degradation Kinetics of Selected Tropical Forages in Buffalo Using NorFor In Situ Standards. *Animals*, 15(4), 585.
- 16) M. Ul Hassan, A. Vastolo, **R. Gannuscio**, G. Maniaci, I. Mancuso, S. Calabrò, A. Gallo, M. Todaro, M. I. Cutrignelli (2025). Effects of feeding prickly pear by-product silage as a partial replacement of concentrate on dairy ewes: Milk characteristics, nutrient utilisation and in vitro ruminal fermentation, *Animal Feed Science and Technology*, 116330.
- 17) **R. Gannuscio**, G. Maniaci, M. Todaro, (2025). Gas Endeavour Device for the Real-Time In Vitro Measurement of Carbon Dioxide and Methane Emissions Associated with Sheep Diets with Prickly Pear By-Products. *Fermentation*, 11(9), 543.
- 18) **R. Gannuscio**, G. Gifuni, G. Maniaci, D. Bongiorno, S. Indelicato, C. Lino, M. Bilucaglia, A. Fici, M. Zito, V. Russo, M. Todaro, G. Avellone, (2025). Fresh Pecorino Cheese Produced by Ewes Fed Silage with Prickly Pear By-Products: VOC, Chemical, and Sensory Characteristics Detected with a Neuro-Sensory Approach Combining EEG and TDS. *Foods*, 14(19), 3334.
- 19) R. Riaz, M. Waqas, I. Ahmed, H. M. Nouman, B. Imtiaz, M. Ul Hassan, M. Todaro, **R. Gannuscio**, M. N. Tahir, O. Sizmaz, (2025). Meta-Analysis of Incorporating Camelina and Its By-Products into Ruminant Diets and Their Effects on Ruminal Fermentation, Methane Emissions, Milk Yield and Composition, and Metabolic Profile. *Fermentation*, 11(10), 593.
- 20) G. Maniaci, **R. Gannuscio**, C. Giosuè, M. Ul Hassan, G. Busetta, R. Gaglio, M. Todaro, E. Franciosi, M. Alabiso (2026). Effects of Including Partially Destoned Olive Cake in Sheep Diet on Meat Quality and Salami Production. *Animals*, 16(2), 347.
- 21) **R. Gannuscio**, A. D'Amico, G. Busetta, G. Maniaci, E. Franciosi, C. Buzzanca, R. Gaglio, L. Settanni, V. Di Stefano, M. Todaro (2026). Prickly pear by-products (*Opuntia* spp.) silage inclusion in dairy sheep diet: Effects on chemical-nutritional and microbiological characteristics of milk and cheese. *Journal of Dairy Science* (accepted).

Papers presented at conferences:

- **R. Gannuscio**, M. Ul Hassan, G. Maniaci, A. D'Amico, C. Buzzanca, M. Todaro (2025) Effects of supplementing prickly pear by-products (*Opuntia* spp.) silage in dairy ewes' diet on nutritional characteristics of their milk and cheese. Presentazione all' annual meeting ADSA (American Dairy Science Association), 22-25 giugno 2025, Louisville, Kentucky (USA)
- **R. Gannuscio**, M. Ul Hassan, A. Vastolo, M. Tolone, G. Maniaci, S. Calabrò, M. I. Cutrignelli, M. Todaro (2025) Effects of feeding prickly pear by-product silage on dairy ewes. Presentazione al 26° Congresso Aspa, 17-20 giugno 2025, Torino.
- **R. Gannuscio**, C. Cardamone, A. Vastolo, C. Lucia, A. D'Amico, M. Ul Hassan, M. Todaro (2024) L'insilamento come tecnica di conservazione dei sottoprodotti di *Opuntia ficus indica* (L.). Presentazione al 25° Congresso Nazionale SIPAOC, 17-20 settembre 2024, Sassari.
- **R. Gannuscio**, M. U. Hassan, G. Maniaci, M. Todaro, S. Calabrò, A. Vastolo, M. I. Cutrignelli (2024) Effect of feeding prickly pear by-products silage on dairy ewe's performance. 75° Congresso EAAP, 1-5 Settembre 2024, Firenze.



- **R. Gannuscio**, A. Vastolo, G. Maniaci, C. Lucia, M. Todaro, M. I. Cutrignelli (2023) Novel feedstuffs obtained mixing different by-products: nutritional evaluation. Presentazione a 25° Congresso Aspa, 13-16 Giugno 2023, Monopoli (Bari).
- A. Di Grigoli, G. Maniaci, M. Pipi, M. Ponte, **R. Gannuscio**, R. Marceddu, L. Dinolfo, V. M. Grimaldi, A. Bonanno, G. Di Miceli (2023) Effects of grazing two mixtures of forage species on ewes milk production under climate change condition. Poster Congresso Aspa 13-16 Giugno 2023.
- M. Ponte, G. Maniaci, A. Di Grigoli, **R. Gannuscio**, A. Di Trana, M. Addis, M. Pipi, M. Alabiso, M. Todaro, A. Bonanno (2023) L'acido α -linolenico come biomarcatore della dieta a base di foraggio verde nei formaggi ovin. XXIV Congresso SIPAOC, Viterbo.
- **R. Gannuscio**, A. Vastolo, G. Maniaci, A. Di Grigoli, M. L. Scatassa, M. Todaro (2022) Technical solutions for better storage of Prickly pear fruit by-products. Poster FAO-Ciheim 2022, Catania
- A. Di Grigoli, M. Ponte, **R. Gannuscio**, M. Addis, G. Maniaci, M. Alabiso, A. Bonanno, M. Todaro (2022) The potential of feeding ewes with fresh or dehydrated sulla forage to enrich sheep cheese in molecular biomarkers of health quality. Poster FAO-Ciheim 2022, Catania
- M. Ponte, A. Di Grigoli, A. Di Trana, G. Maniaci, **R. Gannuscio**, M. Alabiso, M. Todaro, A. Bonanno (2022) Effects of hay, dehydrated and fresh sulla forage on feed intake, milk production and oxidative status of ewes. Poster FAO-Ciheim 2022, Catania.
- A. Di Grigoli, M. Ponte, **R. Gannuscio**, M. Addis, M. Alabiso, G. Maniaci, M. Bacchi, M. Todaro, A. Bonanno (2021), Dehydrated sulla forage in dairy ewes feeding: effects on cheese properties, 24° Congresso ASPA.

The undersigned, aware that, pursuant to Article 26 of Law 15/68, as well as Articles 46 and 47 of Presidential Decree 445/2000, false statements, falsification of documents, and the use of false documents are punishable under the Penal Code and special laws, and furthermore authorizes the processing of personal data in accordance with Law 675/96 of 31 December 1996,

DECLARES

the truthfulness of the information provided in this curriculum vitae and the possession of the qualifications listed.

I hereby give my consent to the processing of my personal data in accordance with Legislative Decree No. 196/2003 on the protection of personal data.

Date 24/03/2026

FIRMA /SIGNATURE

Riccardo Gannuscio