



Filippo Biscarini

Date of birth: 13/04/1976 | **Nationality:** Italian, Swiss | **Gender:** Male |

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<https://bioinformateachers.github.io/> |

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Address: Via Bassini 15, 20133, Milan, Italy (Work)

● ABOUT ME

I am **senior scientist** in **biostatistics** and **bioinformatics**. I worked for the **industry**, for **international organizations**, for **universities** and **research centres** in many places: Italy, Ireland, Canada, The Netherlands, Germany, Spain, The United Kingdom, Belgium. I am now Senior Scientist (**Primo Ricercatore**) at **CNR** (National Research Council).

To carry out my research, I obtained several competitive **international grants** (e.g. three Marie-Curie scholarships) and I coordinated a large number of **research projects**, both national and international (as scientific coordinator, work package leader, task leader).

I am now scientific coordinator of two international projects, one on the genomics and phenomics of polyploid plant species (wheat), one on graph algorithms for genomic analysis of sheep populations, and task leader in a new project on the microbiome and immune signatures of Graves' disease and orbitopathy in human patients.

I have experience in **managing and supervising people** (research groups, post-doctoral and visiting scientists, Ph.D. students, trainees: 5-10 persons on average), also in different locations and countries, and in **administrative tasks** (e.g. administration of EU projects; coordinator of the TaskForce END at CNR for the management of secondment from CNR to the EU institutions). I am also maintaining a blog on statistics and scientific topics (<https://bioinformateachers.github.io/>).

● WORK EXPERIENCE

30/11/2018 – CURRENT Milan, Italy

SENIOR SCIENTIST (PRIMO RICERCATORE) CNR (NATIONAL RESEARCH COUNCIL)

16/12/2018 – 15/12/2020 Bruxelles, Belgium

SECONDED NATIONAL EXPERT ERCEA (EUROPEAN RESEARCH COUNCIL EXECUTIVE AGENCY)

01/04/2017 – 31/03/2018 Cardiff, United Kingdom

SENIOR BIOSTATISTICIAN CARDIFF UNIVERSITY - SCHOOL OF MEDICINE

30/12/2016 – 29/11/2018 Milan, Italy

TENURED RESEARCHER (RICERCATORE III LIVELLO) CNR (CONSIGLIO NAZIONALE DELLE RICERCHE)

18/02/2017 – 25/02/2017 Tananarive, Madagascar

IAEA EXPERT TRAINER IAEA (INTERNATIONAL ATOMIC ENERGY AGENCY)

30/11/2016 – 30/12/2016 Teramo, Italy

RESEARCHER (RTD - TIPO B) UNIVERSITÀ DEGLI STUDI DI TERAMO

01/06/2014 – 29/11/2016 Lodi, Italy

PRINCIPAL INVESTIGATOR PARCO TECNOLOGICO PADANO

15/09/2016 – 01/10/2016 Caldes de Montbui, Spain

SHORT TERM SCIENTIFIC MISSION IRTA (INSTITUT DE RECERCA I TEC- NOLOGIA AGROALIMENTÀRIES)

01/06/2011 – 31/05/2014 Lodi, Italy

MARIE-CURIE ERG FELLOW PARCO TECNOLOGICO PADANO

10/03/2013 – 25/03/2013 Cardiff, United Kingdom

VISITING SCIENTIST CARDIFF UNIVERSITY

01/03/2010 – 31/05/2011 Göttingen, Germany

POST-DOCTORAL RESEARCHER (WISSENSCHAFTLICHER MITARBEITER) GEORG-AUGUST UNIVERSITÄT

01/09/2006 – 28/02/2010 Wageningen, Netherlands

MARIE-CURIE PHD FELLOW (AIO: ASSISTANT IN OPLEIDING) WAGENINGEN UNIVERSITY

01/11/2009 – 31/01/2010 Amersfoort, Netherlands

SECONDARY EDUCATION TEACHING PROFESSIONAL VWO - HAVO SCHOOL 'T HOOGHE LANDT

01/03/2003 – 31/08/2006 Cremona, Italy

QUANTITATIVE GENETICIST ITALIAN HOLSTEIN ASSOCIATION (ANAFI)

01/01/2005 – 30/04/2005 Guelph, Canada

VISITING SCIENTIST UNIVERSITY OF GUELPH

01/05/2002 – 30/11/2002 Bandon (Cork), Ireland

WEB-PROGRAMMER ICBF (IRISH CATTLE BREEDERS' FEDERATION)

24/10/2018 – CURRENT Berlin, Germany

ADVANCED POST-GRADUATE COURSES TEACHER PHYSALIA COURSES (FREIE UNIVERSITÄT BERLIN)

30/03/2023 – CURRENT Pisa, Italy

BACHELOR OF SCIENCE (B.SC.) COURSE TEACHER UNIVERSITY OF PISA

09/09/2019 – 13/09/2019 Quebec City, Canada

ADVANCED POST-GRADUATE COURSE TEACHER UNIVERSITY OF LAVAL (PHYSALIA COURSES)

18/09/2017 – 19/09/2017 Brandlücken, Austria

ADVANCED POST-GRADUATE COURSE TEACHER UNIVERSITÄT FÜR BODENKULTUR WIEN

25/11/2013 – 26/11/2013 Catania, Italy

ADVANCED POST-GRADUATE COURSE TEACHER UNIVERSITY OF CATANIA

● **EDUCATION AND TRAINING**

06/08/2018 – 25/10/2018

**HABILITATION AS ASSOCIATE AND FULL PROFESSOR IN ANIMAL BREEDING AND GENETICS;
HABILITATION AS ASSOCIATE PROFESSOR IN PLANT BREEDING AND GENETICS** Italian Ministry of Education and Research

Website <https://asn16.cineca.it/pubblico/miur/esito-abilitato/07%2FG1/1/5>

01/09/2006 – 28/02/2010 Wageningen

PH.D. IN ANIMAL BREEDING AND GENETICS Wageningen University

Level in EQF EQF level 8

01/11/1995 – 06/03/2002 Perugia, Italy

B.SC. + M.SC. IN VETERINARY MEDICINE Università degli Studi di Perugia

Level in EQF EQF level 7

01/02/1999 – 01/06/1999 Utrecht, Netherlands

ERASMUS PROGRAMME Utrecht University

10/08/2020 – 28/08/2020 Bruxelles, Belgium

FRENCH LEVEL 11 (C2.1) EU Learn

27/04/2020 – 30/04/2020 Bruxelles, Belgium

LINKED DATA AND SEMANTIC WEB EU Learn

17/10/2019 – 18/10/2019 Leuven, Belgium

STATISTICAL MACHINE LEARNING WITH R KU Leuven

19/02/2019 – 20/06/2019 Bruxelles, Belgium

FRENCH LEVEL 10 (C1.2) EU Learn

18/05/2015 – 10/07/2015 United States

APPLIED LOGISTIC REGRESSION Ohio State University @ Coursera

29/06/2015 – 31/07/2015 United States

SCALABLE MACHINE LEARNING BerkleyX @edX

28/04/2014 – 27/06/2014 United States

DATA ANALYSIS FOR GENOMICS HarvardX @edX

20/01/2014 – 28/03/2014 United States

STATISTICAL LEARNING Stanford Online

14/10/2013 – 31/01/2014 United States

FUNDAMENTALS OF CLINICAL TRIALS HarvardX @edX

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
SPANISH	C2	C2	C2	C2	C2
FRENCH	C2	C2	C2	C2	C2
GERMAN	B2	C1	B1	B2	B2
DUTCH	B2	C1	B1	B1	B1

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
PORTUGUESE	B1	B2	A2	A2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

YAML | Neo4j | GIT (GitHub) | Microsoft Office | LINUX / UNIX / MAC OSX / WINDOWS | FORTRAN 77/90/95 | Bash, Bpipe, Snakemake. | Containers (Docker, Singularity/Apptainer) | Octave/MATLAB | Waikato Environment for Knowledge Analysis (Weka) | Apache spark | Object-Oriented Programming | Nextflow | Linux, High performance computing using SLURM/SGE, Snakemake, Conda, Git | Web Development: HTML 5, CSS, JavaScript | Ruby Jekyll Bundler | Basic knowledge of programming (Ruby) | Programmin language PYTHON | SQL/MYSQL | SQLITE | R | JSON | PHP HTML MYSQL CSS Javascript Developer | RESTful Webservices | Machine Learning and Deep Learning frameworks: Tensorflow, Keras, PyTorch

● ADDITIONAL INFORMATION

PUBLICATIONS

Publications

About 90 **peer-reviewed publications** (H-index: 31; 20 first author, 11 last author, 4 second author, 10 joint-first or joint-senior author, 26 corresponding author: <https://www.scopus.com/authid/detail.uri?authorId=25640857200&origin=AuthorEval>). Full list at the end of this document and online at <https://www.researchgate.net/profile/Filippo-Biscarini-2/research>

PROJECTS

Projects

1. 2024-2025: **International Exchanges UK-Italy 2023: "Sheep-TreeSeq"** (sheep genomics). **Principal Investigator**
2. 2023-2025: **PRIN-2022: Polyploidbreeding** (wheat genomics and phenomics). **Scientific coordinator**
3. 2023-2025: **PRIN-2022: MISS.GO** (Microbiota and Immune SignatureS of Graves' disease and Orbitopathy): **Task leader "Microbiome"**
4. 2021-2024: **GENOBU**: "Sequencing the buffalo genome for the genetic improvement of production". **Task leader "Genomics"**
5. 2020-2023: **Gen-Covid**: "Impact of Host Genome on COVID-19 clinical variability", **Task leader "GWAS"**
6. 2019-2022 **EU-PRIMA: FREECLIMB** "Fruit crops REsiliEnce to CLimate change in the Mediterranean Basin": **Coordinator at CNR**
7. 2018-2022 EU H2020: **SMARTER** "SMAll RuminanTs breeding for Efficiency and Resilience": **Task leader "Genomics"**
8. 2018-2021 AGER-projects (<http://www.progettoager.it>): **FARM-INN: Task leader "Microbiome"**
9. 2018-2021: **RABOLA** (Region Lombardy): strategies to reduce the use of antibiotics in dairy farming. **Task leader "Microbiome"**
10. 2018-2019 **TT AgriLab** (Region Lombardy) "Technology Transfer for SMEs in the AgriFood industry": Scientific Expert and Supervisor
11. 2016-2017 **LegPipe** "Legumes GBS Pipeline Exploration" (www.cineca.it)
12. 2015-2018 FACCE JPI/ERA-NET: **Climgen** "Climate genomics for animal adaptation": **WP leader**
13. 2014-2018 EU FP7: **Indigo** "Investigation of Novel biomarkers and Definition of the role of the microbiome In Graves' Orbitopathy": **WP leader**
14. 2013-2017 EU FP7: **Fecund** (Grant agreement n. 312097) "Optimisation of early reproductive success in dairy cattle through the definition of new trait and improved reproductive biotechnology". **Project coordinator**
15. 2013-2017 COST Action: **Methagene** "Large-scale methane measurements on individual ruminants for genetic evaluations": WG co-leader. Organizer of project meetings in 2015, 2016, 2017
16. 2013 **ESF Exchange Grant** "Detection of selection signatures of domestication in ancestral and domestic goats"; University of Cardiff
17. 2012-2015 EU FP7: **Gene2Farm**. **Task leader "Genomics"**
18. 2012-2015 EU FP7: **RuminOmics**. **Task leader "Animal Breeding"**
19. 2011-2014

- a. EU FP7: **Nextgen**: "Next generation methods to preserve farm animal biodiversity by optimizing present and future breeding options": **Task leader "Population genetics"**
 - b. EU MC-ERG: **Neutradapt**: Marie-Curie ERG on the estimation of neutral and adaptive genetic variation in animals
20. 2010–2011: EU FP7: **Low-input breeds. Task leader "Cattle breeding"**
21. 2006–2009 **Robustness in laying hens**: national Dutch project for the genetic improvement of hens. **Task leader "Statistical methods"**

HONOURS AND AWARDS

07/09/2023

"Premio per l'originalità e la validità scientifica della ricerca - 7° Congresso AITEL 2023" (award for best presentation) – AITel (Italian Dairy Association)

16/12/2021

Premi per le migliori pubblicazioni DiSBA 2021: I frutti dell'eccellenza (award for best publication) – CNR (National Research Council)

07/12/2018

Premi per le migliori pubblicazioni DiSBA 2021: I frutti dell'eccellenza (award for best publication) – CNR (National Research Council)

25/11/2015

"Premio Lombardy Dialogues: progetto spazi espositivi per la ricerca - EXPO 2015" (award for best publication) – CNR (National Research Council)

ORGANISATIONAL SKILLS

Organisational skills Good team-leading skills acquired as principal investigator and coordinator of a growing research team.

Good supervision skills developed over the years by supervising B.Sc., M.Sc. and Ph.D. students in different countries (Italy, The Netherlands, Germany, UK), and trainees at the ERCEA.

Experience in the administration of research projects from both side: universities/research centres and funding/evaluation agencies (e.g. ERC). Coordinator of an administrative Task Force at CNR (Task Force END: management of the secondment of national experts / Esperti Nazionali Distaccati)

JOB-RELATED SKILLS

Job-related skills

- development of statistical methods for data analysis
 - development of tools for data analysis (R packages, Python classes and modules, data processing pipelines, web-based applications)
 - problem solving (complex scientific, computational, mathematical problems)
 - excellent scripting and programming skills
 - project coordination and management
 - administrative tasks related to scientific projects, national and international
 - training and supervision of junior staff
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There are:

- 87 peer-reviewed scientific articles: 20 first author, 11 last author, 4 second author, 10 joint-first or joint-senior author (*), 26 corresponding author. H-index: 31

Peer-reviewed articles

1. F. Minnai, **F. Biscarini**, M. Esposito, T. A. Dragani, L. Bujanda, S. Rahmouni, M. E. Alarcón-Riquelme, D. Bernardo, E. Carnero-Montoro, M. Buti, *et al.*, “A genome-wide association study for survival from a multi-centre european study identified variants associated with covid-19 risk of death,” *Scientific Reports*, vol. 14, no. 1, p. 3000, 2024*
2. G. Chessari, A. Criscione, D. Marletta, P. Crepaldi, B. Portolano, A. Manunza, A. Cesarani, **F. Biscarini**, and S. Mastrangelo, “Characterization of heterozygosity-rich regions in italian and worldwide goat breeds,” *Scientific Reports*, vol. 14, no. 1, p. 3, 2024
3. G. Freu, G. Gioia, B. Gross, **F. Biscarini**, P. Virkler, R. Watters, M. Addis, R. Franklin-Guild, J. Runyan, A. Masroure, *et al.*, “Frequency of non-aureus staphylococci and mammaliicocci species isolated from quarter clinical mastitis: a six-year retrospective study,” *Journal of Dairy Science*, 2024
4. B. Benjelloun, K. Leempoel, F. Boyer, S. Stucki, I. Streeter, P. Orozco-terWengel, F. J. Alberto, B. Servin, **F. Biscarini**, A. Alberti, *et al.*, “Multiple genomic solutions for local adaptation in two closely related species (sheep and goats) facing the same climatic constraints,” *Molecular Ecology*, p. e17257, 2023
5. S. Frazzini, P. Cremonesi, E. Scaglia, B. Castiglioni, **F. Biscarini**, V. Besana, and L. Rossi, “Effect of hulled cannabis sativa l. seeds in a home-made diet for adult dogs,” *Italian Journal of Animal Science*, vol. 22, no. 1, pp. 784–797, 2023
6. L. Filippone Pavesi, C. Pollera, G. Sala, P. Cremonesi, V. Monistero, **F. Biscarini**, and V. Bronzo, “Effect of the selective dry cow therapy on udder health and milk microbiota,” *Antibiotics*, vol. 12, no. 8, p. 1259, 2023
7. S. Mastrangelo, S. Ben-Jemaa, F. Perini, F. Cendron, **F. Biscarini**, E. Lasagna, M. Penasa, and M. Cassandro, “Genome-wide mapping of signatures of selection using a high-density array identified candidate genes for growth traits and local adaptation in chickens,” *Genetics Selection Evolution*, vol. 55, no. 20, 2023
8. M. J. Ranilla, S. Andrés, C. Gini, **F. Biscarini**, C. Saro, A. Martín, I. Mateos, S. López, F. J. Giráldez, L. Abdennebi-Najar, *et al.*, “Effects of thymbra capitata essential oil on in vitro fermentation end-products and ruminal bacterial communities,” *Scientific Reports*, vol. 13, no. 1, p. 4153, 2023
9. M. Guadagnini, P. Amodeo, **F. Biscarini**, A. Bolli, and P. Moroni, “Observational study on dry period length and its associations with milk production, culling risk, and fertility in italian dairy farms,” *Journal of Dairy Science*, vol. 106, no. 4, pp. 2630–2641, 2023
10. **F. Biscarini**, G. Masetti, I. Muller, H. L. Verhasselt, D. Covelli, G. Colucci, L. Zhang, M. S. Draman, O. Okosieme, P. Taylor, *et al.*, “Gut microbiome associated with graves’ disease and graves’ orbitopathy: the indigo multi-centre european study,” *The Journal of Clinical Endocrinology & Metabolism*, vol. 108, no. 8, pp. 2065–2077, 2023
11. A. Dal Prà, **F. Biscarini**, G. L. Cavani, S. Bacchelli, A. Iotti, S. Borghi, M. Nocetti, and P. Moroni, “Relationship between total and differential quarter somatic cell counts at dry-off and early lactation,” *PloS one*, vol. 17, no. 10, p. e0275755, 2022*
12. P. Cremonesi, **F. Biscarini**, B. Castiglioni, C. A. Sgoifo, R. Compiani, and P. Moroni, “Gut microbiome modifications over time when removing in-feed antibiotics from the prophylaxis of post-weaning diarrhea in piglets,” *PloS one*, vol. 17, no. 3, p. e0262199, 2022*
13. N. Nazzicari and **F. Biscarini**, “Stacked kinship cnn vs. gblup for genomic predictions of additive and complex continuous phenotypes,” *Scientific Reports*, vol. 12, no. 1, p. 19889, 2022*
14. G. Senczuk, A. Criscione, S. Mastrangelo, **F. Biscarini**, D. Marletta, F. Pilla, D. Laloë, and R. Ciampolini, “How geography and climate shaped the genomic diversity of italian local cattle and sheep breeds,” *Animals*, vol. 12, no. 17, p. 2198, 2022
15. E. Negussie, O. González-Recio, M. Battagin, A.-R. Bayat, T. Boland, Y. de Haas, A. Garcia-Rodriguez, P. C. Garnsworthy, N. Gengler, M. Kreuzer, B. Kuhla, J. Lassen, N. Peiren, M. Pszczola, A. Schwarm, H. Soyeurt, A. Vanlierde, T. Yan, and **F. Biscarini**, “Integrating heterogeneous across-country data for proxy-based random forest prediction of enteric methane in dairy cattle,” *Journal of dairy science*, vol. 105, no. 6, pp. 1–17, 2022

16. S. Morandi, P. Cremonesi, S. Arioli, G. Stocco, T. Silveti, **F. Biscarini**, B. Castiglioni, Ç. Greco, V. D’Ascanio, D. Mora, *et al.*, “Effect of using mycotoxin-detoxifying agents in dairy cattle feed on natural whey starter biodiversity,” *Journal of Dairy Science*, vol. 105, no. 8, pp. 6513–6526, 2022
17. E. C. Lorenzini, B. Lazzari, G. M. Tartaglia, G. Farronato, V. Lanteri, S. Botti, **F. Biscarini**, P. Cozzi, and A. Stella, “Oral ecological environment modifications by hard-cheese: from ph to microbiome: a prospective cohort study based on 16s rna metabarcoding approach,” *Journal of translational medicine*, vol. 20, no. 1, pp. 1–14, 2022
18. A. Martín, F. Giráldez, P. Cremonesi, B. Castiglioni, **F. Biscarini**, F. Ceciliani, N. Santos, and S. Andrés, “Dietary administration of l-carnitine during the fattening period of early feed restricted lambs modifies ruminal fermentation but does not improve feed efficiency,” *Frontiers in Physiology*, vol. 13, 2022
19. G. Curone, **F. Biscarini**, E. Cotozzolo, L. Menchetti, A. Dal Bosco, F. Riva, P. Cremonesi, S. Agradi, S. Mattioli, B. Castiglioni, *et al.*, “Could dietary supplementation with different sources of n-3 polyunsaturated fatty acids modify the rabbit gut microbiota?,” *Antibiotics*, vol. 11, no. 2, p. 227, 2022
20. A. Onoja, N. Picchiotti, C. Fallerini, M. Baldassarri, F. Fava, F. Colombo, F. Chiaromonte, A. Renieri, S. Furini, *et al.*, “An explainable model of host genetic interactions linked to covid-19 severity,” *Communications Biology*, vol. 5, no. 1, p. 1133, 2022
21. P. Cremonesi, G. Curone, **F. Biscarini**, E. Cotozzolo, L. Menchetti, F. Riva, M. L. Marongiu, B. Castiglioni, O. Barbato, A. Munga, *et al.*, “Dietary supplementation with goji berries (*lycium barbarum*) modulates the microbiota of digestive tract and caecal metabolites in rabbits,” *Animals*, vol. 12, no. 1, p. 121, 2022*
22. C. Fallerini, N. Picchiotti, M. Baldassarri, K. Zguro, S. Daga, F. Fava, E. Benetti, S. Amitrano, M. Bruttini, M. Palmieri, *et al.*, “Common, low-frequency, rare, and ultra-rare coding variants contribute to covid-19 severity,” *Human genetics*, vol. 141, no. 1, pp. 147–173, 2022
23. COVID-19 Host Genetics Initiative, M. Niemi, J. Karjalainen, B. Neale, M. Daly, A. Ganna, *et al.*, “Mapping the human genetic architecture of covid-19,” *Nature*, vol. 600, no. 7889, pp. 472–477, 2021
24. S. Mantovani, S. Daga, C. Fallerini, M. Baldassarri, E. Benetti, N. Picchiotti, F. Fava, A. Gallì, S. Zibellini, M. Bruttini, *et al.*, “Rare variants in toll-like receptor 7 results in functional impairment and downregulation of cytokine-mediated signaling in covid-19 patients,” *Genes & Immunity*, pp. 1–6, 2021
25. D. Mallardi, C. Tabasso, P. Piemontese, S. Morandi, T. Silveti, **F. Biscarini**, P. Cremonesi, B. Castiglioni, V. Pica, M. Stuknyte, *et al.*, “Inoculation of mother’s own milk could personalize pasteurized donor human milk used for feeding preterm infants,” *Journal of translational medicine*, vol. 19, no. 1, pp. 1–16, 2021
26. S. Moshkelgosha, H. L. Verhasselt, G. Masetti, D. Covelli, **F. Biscarini**, M. Horstmann, A. Daser, A. M. Westendorf, C. Jesenek, S. Philipp, *et al.*, “Modulating gut microbiota in a mouse model of graves’ orbitopathy and its impact on induced disease,” *Microbiome*, vol. 9, no. 1, pp. 1–20, 2021
27. A. Sipka, M. Wieland, **F. Biscarini**, R. Rossi, N. Roman, C. Santisteban, P. Moroni, and D. Nydam, “Comparative performance of 3 on-farm culture systems for detection of mastitis pathogens interpreted by trained and untrained observers,” *Journal of dairy science*, vol. 104, no. 4, pp. 4936–4941, 2021
28. E. Pairo-Castineira, S. Clishy, L. Klaric, A. D. Bretherick, K. Rawlik, D. Pasko, S. Walker, N. Parkinson, M. H. Fourman, C. D. Russell, *et al.*, “Genetic mechanisms of critical illness in covid-19,” *Nature*, vol. 591, no. 7848, pp. 92–98, 2021
29. M. Penati, G. Sala, **F. Biscarini**, A. Boccardo, V. Bronzo, B. Castiglioni, P. Cremonesi, P. Moroni, D. Pravettoni, and M. F. Addis, “Feeding pre-weaned calves with waste milk containing antibiotic residues is related to a higher incidence of diarrhea and alterations in the fecal microbiota,” *Frontiers in Veterinary Science*, vol. 8, p. 675, 2021
30. S. Daga, C. Fallerini, M. Baldassarri, F. Fava, F. Valentino, G. Doddato, E. Benetti, S. Furini, A. Giliberti, R. Tita, S. Amitrano, M. Bruttini, I. Meloni, A. Pinto, F. Raimondi, A. Stella, **F. Biscarini**, *et al.*, “Employing a systematic approach to biobanking and analyzing clinical and genetic data for advancing covid-19 research,” *European Journal of Human Genetics*, pp. 1–15, 2021
31. E. Cotozzolo, P. Cremonesi, G. Curone, L. Menchetti, F. Riva, **F. Biscarini**, M. L. Marongiu, M. Castrica, B. Castiglioni, D. Miraglia, *et al.*, “Characterization of bacterial microbiota composition along the gastrointestinal tract in rabbits,” *Animals*, vol. 11, no. 1, p. 31, 2021
32. G. Minozzi, **F. Biscarini**, E. Dalla Costa, M. Chincarini, N. Ferri, C. Palestini, M. Minero, S. Mazzola, R. Piccinini, G. Vignola, *et al.*, “Analysis of hindgut microbiome of sheep and effect of different husbandry conditions,” *Animals*, vol. 11, no. 1, p. 4, 2021

33. **F. Biscarini**, S. Mastrangelo, G. Catillo, G. Senczuk, and R. Ciampolini, "Insights into genetic diversity, runs of homozygosity and heterozygosity-rich regions in maremmana semi-feral cattle using pedigree and genomic data," *Animals*, vol. 10, no. 12, p. 2285, 2020
34. S. Daga, C. Fallerini, M. Baldassarri, F. Fava, F. Valentino, G. Doddato, E. Benetti, S. Furini, A. Giliberti, R. Tita, S. Amitrano, M. Bruttini, I. Meloni, A. Pinto, F. Raimondi, A. Stella, **F. Biscarini**, *et al.*, "Employing a systematic approach to biobanking and analyzing genetic and clinical data for advancing covid-19 research," *medRxiv*, 2020
35. **F. Biscarini**, P. Cremonesi, B. Castiglioni, A. Stella, V. Bronzo, C. Locatelli, and P. Moroni, "A randomized controlled trial of teat-sealant and antibiotic dry-cow treatments for mastitis prevention shows similar effect on the healthy milk microbiome," *Frontiers in Veterinary Medicine*, vol. 7, no. 581, 2020
36. P. Cremonesi, **F. Biscarini**, G. Stocco, M. Malacarne, V. Lopreiato, E. Trevisi, M. Brasca, and B. Castiglioni, "Le varianti a1 e a2 della β -caseina non hanno un effetto significativo sul microbiota del latte," *Scienza e Tecnica Lattiero-Casearia*, vol. 70, no. 3, pp. 26–31, 2020
37. S. Mastrangelo, F. Cendron, G. Sottile, G. Niero, B. Portolano, **F. Biscarini**, and M. Cassandro, "Genome-wide analyses identifies known and new markers responsible of chicken plumage color," *Animals*, vol. 10, no. 3, p. 493, 2020
38. V. Monistero, A. Barberio, **F. Biscarini**, P. Cremonesi, B. Castiglioni, H. Graber, E. Bottini, A. Ceballos-Marquez, V. Kroemker, I. Petzer, *et al.*, "Different distribution of antimicrobial resistance genes and virulence profiles of staphylococcus aureus strains isolated from clinical mastitis in six countries," *Journal of Dairy Science*, 2020
39. D. Calonzi, A. Romano, V. Monistero, P. Moroni, M. V. Luini, **F. Biscarini**, B. Castiglioni, and P. Cremonesi, "Development of multiplex pcr assays for the molecular characterization of streptococcus uberis strains isolated from bovine mastitis," *Journal of dairy science*, vol. 103, no. 1, pp. 915–921, 2020
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