



**Europass
Curriculum Vitae**

PERSONAL INFORMATION

Name / Surname **Paolo AJMONE MARSAN**

Address

Telephone

Fax

E-mail

Nationality Italian

Birth place; Date

SCIENTIFIC PRODUCTIVITY

H-index 43 (Scopus)

N. Citations > 6700 (Scopus).
included in top 2% world researchers in Animal Science. Database Stanford University (Ioannidis et al., PLoS Biology 2020 10.1371/journal.pbio.3000918)

N. of ISI publications >180 papers, among these two in **Science** (IF₂₀₀₉ = 41,05); two in **Nature Communications** (IF₂₀₁₈ = 11,88 IF₂₀₁₇ = 12,35); **Molecular Biology and Evolution** (IF₂₀₁₄ = 10,21); **PNAS** (IF₂₀₀₈ = 9,58); **Current Biology** (IF₂₀₀₇ = 9,25)

RESEARCH INTERESTS Plant and animal genomics; identification of genes involved in adaptation, production, animal welfare and environmental impact. Molecular breeding; molecular traceability; characterization and conservation of biodiversity; parallel investigation of human and livestock evolutionary history; nutrigenomics in model species.

**EXPERIENCE IN SCIENTIFIC
MANAGEMENT**

Director of the Ph. D. School in the Agro-food sector - AGRISYSTEM of Università Cattolica del Sacro Cuore (2020 - today).

Director of the Nutrigenomics and Proteomics Research Center "PRONUTRIGEN" of Università Cattolica del Sacro Cuore (2012 - today).

Director of the Institute of Zootechnics of Università Cattolica del Sacro Cuore (2012 - 2017)

Founder and director of the Biodiversity and Ancient DNA Research -BioDNA of Università Cattolica (2009 - 2012).

EXPERIENCE IN ADMINISTRATION MANAGEMENT

Member of the board of directors (Consiglio di Amministrazione) of Istituto Sperimentale Italiano Lazzaro Spallanzani from Rivolta d'Adda (2012 – today).

Member of the board of directors (Consiglio di Amministrazione) of Consorzio di Ricerca Sperimentazione degli Allevatori – CRSA (2012 – 2015).

EDUCATION

Period 1995 - 1997

Degree **Scuola di Specializzazione in Genetica Applicata** (final score cum laude) – Ph. D. equivalent

Main topics Applied plant and human genetics

Institution Università degli Studi di Milano

Period 1980 – 1986

Degree **Master in Agricultural Science** (final score 110/110)

Main topics Agronomy, Agricultural Economy Agraria, Plant and Animal Allevamento breeding and farming

Institution Università degli Studi di Milano

JOBS

Period 31/10/2011 - today

Position **Full professor** of animal breeding and genetics

Activity Lecturing courses in animal genomics, physiology and sustainable breeding. Coordination of research in animal genomics.

Employer Università Cattolica del S. Cuore, via Emilia Parmense, 84, 29122 Piacenza

Sector Education

Period 01/03/2001 – 31/10/2011

Position **Associate professor** of animal breeding and genetics

Activity Lecturing courses in animal genomics, physiology and sustainable breeding. Coordination of research in animal genomics.

Employer Università Cattolica del S. Cuore, via Emilia Parmense, 84, 29122 Piacenza

Sector Education

Period 01/10/1995 - 28/02/2001

Position **Researcher**

Activity Research in animal genomics

Employer	Università Cattolica del S. Cuore, via Emilia Parmense, 84, 29122 Piacenza
Sector	Education
Period	01/10/1985 - 30/09/1995
Position	Researcher
Activity	Research in plant genomics
Employer	Istituto Sperimentale per la Cerealicoltura via Stezzano, 24, 24126 Bergamo
Sector	Resesarch

ADDITIONAL TRAINING

Period	08/1996 - 09/1996
Position	Visiting scientist
Activity	Technology transfer of AFLP markers on Applied Biosystems sequencers
Employer	Applied Biosystems, 850 Lincoln Centre Drive Foster City, CA 94404, USA
Sector	High-tech equiopment for research and diagnostics

Period	10/1996 - 11/1996
Position	Visiting scientist
Activity	Development of AFLP markers on animal genomes
Employer	Keygene n.v., Agro Business Park 90, 6708 PW Wageningen Wageningen, The Netherlands
Sector	Private research center provider of high-tech services to agriculture

Period	02/1995 - 03/1995
Position	Visiting scientist
Activity	Use of AFLP markers to identify QTLs for economic traits in maize
Employer	Keygene n.v., Agro Business Park 90, 6708 PW Wageningen Wageningen, Olanda
Sector	Private research center provider of high-tech services to agriculture

Period	15-26 Marzo 1999
Course Title	"Molecular Techniques in Animal Breeding
Main topics	Molecular genetics applied to livestock biodiversity and breeding.
Institution	Mediterranean Agronomic Institute, Zaragoza
Type of qualification	post-master course

Period	Winter 1987
Course Title	"FORTRAN" (final score A+)
Main topics	Programing in FORTRAN language
Institution	Facolty of Ingeneering, San Jose University (California)
Type of qualification	post-master course

Period Summer 1987
 Course Title **"Agricultural Applications of Plant Tissue Culture"**
 Main topics Techniques of *in-vitro* plant cell culture and embryo regeneration
 Institution Riverside University (California, USA)
 Type of qualification post-master course

PERSONAL SKILLS

Mother language Italian

Other languages English

Understanding	Speaking	Reading
C1	C1	C1

INTERNATIONAL COLLABORATIONS

United States Department of Agriculture (USA) – Curt Van Tassel and Tim Smith, Adelaide University (AU) – John Williams, Rick Tearle; San Paulo State University, Aracatuba campus (BR) - Jose Fernando Garcia, Yuri Tani Utsunomyia; Wagening Univrsity (NL) – Richard Crojimans, Slpke Hiemstra; INRA (FR) Michele Tixier Boichard; University of Nottingham (UK) – Olivier Hanotte; Cardiff University (UK) Mike Bruford and Pablo Orozco-der-Wengel; Grenoble University (FR) – Francois Pompanon; BOKU Vienna – Hans Soelkner;

Other collaborations are on-going in Asia, Africa e and South America as scientific advisor of FAO and IAEA projects.

NATIONAL ASSIGNMENTS

In or as representative of breeder associations

Member of the Technical Commission of di ANAFIJ (National Association of Italian Friesian and Jersey breeders). Ministry of Agriculture Protocol N. 23248 (2004 - today).

Industries

Member of the consulting committee “Collegio dei Probiviri” of the Central Italian beef production consortium (“Consorzio Produttori Carne Bovina Pregiata delle Razze Italiane – CCBI”) (2017- today).

Rapresentative of Università Cattolica in the European Platform of Animal Breeding EFFAB (2016-today).

Ministries

Member of the Italian delegation in the FP7 Programme Committee in area 2 “Food, Agriculture Fishery and Biotechnology” (2007 - 2014), assignement from the Ministry of Research.

Member of the Horizon Europe experts of Ministry of University and Research for the Partneriate on Animal Health and Welfare.

Several other assignments as project reviewer.

INTERNATIONAL ASSIGNMENTS

Reviewer of EU projects in FPV, FPVI, FPVII and Horizon 2020.

Coordinator of the Genetic Analysis Working Group of ICAR (International Committee for Animal Recording) (2004-2011).

FAO and IAEA:

- Member of the evaluation commission of FAO: (CGIAR-IEA (2016), Evaluation of CGIAR Research Program on Livestock and Fish (L&F). Rome, Italy: Independent Evaluation Arrangement (IEA) of the CGIAR Vol 1 e Vol 2);
 - Co-author of the State of the World of Farm Animal Genetic Resources (2007). Chapter "*Molecular Markers – a tool for exploring genetic diversity*" and case studies "*Spatial analysis of genetic diversity*" e "*An index of economic development potential for targeting in situ conservation investments*".
 - Contribution into planning, writing and revision of FAO "*Molecular genetics characterization of animal genetic resources*" (2011).
 - Contribution into planning, and section editor of "*Genomic Tools and Methods*" delle nuove guidelines FAO su "*Molecular genetics characterization of animal genetic resources*" in corso di preparazione (2021).
 - "*Scientific Advisor*" of FAO/IAEA CRP projects:
 - "*Advances in nuclear and genomic tools to improve livestock productivity-Technology gaps and new approaches for application in developing countries*" (2016-2021)
 - "*Gene Based Technologies in Livestock Breeding: Phase 2 - -Genetic Variation on the Control of Resistance to Infectious Diseases in Small Ruminants for Improving Animal Productivity*" (2011-2015).
 - "*Gene Based Technologies in Livestock Breeding: Phase 1 - Characterisation of Small Ruminant Genetic Resources in Asia*" (2004-2008).
 - Member of the "ISAG/FAO advisory group on animal genetic diversity"
- "Scientific Advisor" of the project GENOMIC RESOURCES "Advances in Farm Animal Genomic Resources" (2010-2014), assignment of the "European Science Foundation".

MEMBERSHIP OF ACADEMIES AND SCIENTIFIC ORGANIZATIONS

"Accademico corrispondente" of "Accademia dei Georgofili" 2017-today. The Accademia dei Georgofili, founded in 1753, aims at contributing to the progress of science and of their application to agriculture.

Member of the International Society of Animal Genetics – ISAG

Member of the European Association of Animal Production - EAAP

Member of the Associazione Scientifica di Produzioni Animali - ASPA

RESEARCH PROJECTS European Community

General coordinator

SCALA-MEDI (Prima – 2021-2024) "Improving sustainability and quality of Sheep and Chicken production by leveraging the Adaptation potential of Local breeds in the MEDiterranean area".

	<p>GLOBALDIV (GenRes, 2007-2010) "A global view of livestock biodiversity and conservation".</p> <p>ECONOGENE (FP5-2002-2004) "Sustainable conservation of animal genetic resources in marginal rural areas: integrating molecular genetics, socio-economic and geostatistical approaches".</p>
<i>Partner</i>	<p>IMAGE (H2020 2016-2020) "Innovative Management of Animal Genetic Resources".</p> <p>CLIMGEN (FACCE-ERA-NET + Call on Climate Smart Agriculture 2015-2018) "Climate Genomics for Farm Animal Adaptation".</p> <p>TRACE (FP6-2005-2009) "Tracing food commodities in Europe".</p> <p>INTRABIODIV (FP6-2004-2006) "Tracking surrogates for intraspecific biodiversity: towards efficient selection strategies for the conservation of natural genetic resources using comparative mapping and modelling approaches".</p> <p>BOVGEN (FP5-2003-2005) "Structural and functional genomics tools for cattle research".</p> <p>RESGEN (FP5-2000-2002) "Towards a strategy for the conservation of the genetic diversity of European cattle".</p>
<i>Subcontractor</i>	<p>GEMQUAL "Genetics of Meat Quality" (FP5-2002-2005).</p>
<p>National Ministry of Research <i>General coordinator</i></p>	<p>PRIN 2010-2011 (2012-2014) "Ricerca delle basi genetiche di nuovi fenotipi legati al benessere, all'efficienza ed alla sostenibilità ambientale delle produzioni dei bovini da latte - GEN2PHEN".</p> <p>PRIN 2007 (2009-2010) "Ricostruzione della storia evolutiva di bovini, ovini e caprini italiani attraverso il sequenziamento completo del genoma mitocondriale".</p>
<i>Partner</i>	<p>PON (2019-2022) " InNOVAzioni nella SELezione genetica e nella autenticazione delle PROduzioni lattiero-casearie delle razze OVine autoctone in Sicilia e Sardegna NOVALSELPROV".</p> <p>PRIN 2017 (2019-2021) "A multi-species genomic approach to assess pre- and post-Columbian population dynamics in South America"..</p> <p>GENHOME (2013-2015) "Resort tecnologico per la ricerca genomica applicata alle scienze animali – GENHOME".</p> <p>FIRB laboratorio (2005-2010) "Piattaforma per la genomica nel settore vegetale e zootecnico (HTTP://DNA)".</p>

FIRB laboratorio LATEMAR (2005-2009) "Laboratorio di Tecnologie Elettrobiologiche Miniaturizzate per l'Analisi e la Ricerca". Parte dell'unità biologica coordinata da Telethon.

PRIN (2005-2006) "Messa a punto di sistemi innovativi di diagnostica molecolare per la tracciabilità di specie animali di uso alimentare".

Progetto strategico (2003-2005) "Studio e sviluppo di tecnologie innovative e pulite per il miglioramento e la razionalizzazione del ciclo produttivo conciaro e di un sistema di recupero dei sottoprodotti e dei rifiuti derivanti dalla pelle: caratterizzazione genetica di animali di specie e razze diverse e individuazione del modello biologico ideale di pelle".

FIRB 2001 negoziale (2002-2004) "Identificazione ed analisi dei geni nel suino per lo studio e il miglioramento della produzione e della qualità della carne".

Ministry of Agriculture

Partner

LEO (2017-2023) "Livestock Environment Opendata - Piattaforma Opendata per la Zootecnia".

INNOVAGEN (2011-2013). "Ricerca e INNOVAzione nelle attività di miglioramento GENetico animale mediante tecniche di genetica molecolare per la competitività del sistema zootecnico nazionale".

SELMOL (2008-2010). "Ricerca e innovazione nelle attività di miglioramento genetico animale mediante tecniche di genetica molecolare per la competitività del sistema zootecnico nazionale".

Other projects

Partners in many other projects funded by Regions and private foundations.

EDITOR ACTIVITY

Associate editor of "Genetics, Selection, Evolution" (IF₂₀₁₉ = 3,95)

Associate editor of "Genes" (IF₂₀₁₉ = 3,76)

Review editor of "Frontier in Genetics" (IF₂₀₁₉ = 3,36)

Member of the Editorial Board of "Animal Genetics" (2012-2017)

Attività di referee di progetti internazionali

Esperto per la valutazione di progetti nei Programmi Quadro Europei FP5, FP6 e FP7 nelle aree "Food Biotechnology and Agriculture" e "Health".

Membro del team internazionale di valutazione per conto della FAO del programma 2012-2015 "Livestock and Fish" dei centri di Ricerca CGIAR delle Nazioni Unite.

Revisore del "Science Foundation Ireland Investigators Programme 2014".

Evaluator of international Ph. D.

2020 Doctorat des sciences et ingénierie de l'environnement" Ecole Polytechnique Lausanne (Switzerland).

2019 "Ph. D. Genetics" School of Life Science, Nottingham University (UK)

2017 Ph D. in Veterinary Science San Paulo State University - UNESP, (Brazil).

2011 "Ph D. in Molecular Population Genetics", Trinity College (Ireland).

2007 “Doctorat CSV/Biodiversité – Ecologie – Environment” Joseph Fourier University, Grenoble (France).

2005 “Doctorat des sciences et ingénierie de l'environnement” Ecole Polytechnique Lausanne (Switzerland).

Reviewer of international journals

Ad hoc referee of many international journals: Nature Review Genetics, Nature Methods, Frontiers in Genetics, PloS ONE, Journal of Dairy Science, Journal of Animal Science, Genetics Selection Evolution, Animal Genetics, Small Ruminant Research, Journal of Animal Breeding and Genetics; Molecular Ecology, Plant Molecular Biology; Theoretical and Applied Genetics; Molecular Breeding, Maydica.

Invited lectures

Invited speaker in 2008-2020 in different countries and congresses: Lubiana (HR), Pechino (CN), Londra and Edimburgo (UK), Barcellona, Zaragoza, and Canary Islands (ES), Wageningen and Lelystad (NL), Vienna and Salzburg (AU), Paris and Strasbourg (FR), Bruxelles (BE), Zurich (CH), Turku (EE), Zara (HR), Katowice (PL) Ankara e Tekirdag (TK), Kampala (UG), Riyadh (SA), Natal, Guaruja and Aracatuba (BR), Rome, Cremona, Teramo, Salsomaggiore, Firenze, Bologna, Fiorenzuola, Antey, Piacenza, Sassari Reggio Emilia, Manerbio, Lodi, Como and Milan (IT).

Invited in 2021:

Accademia dei Lincei (National Academy of Science; on-line, April 21, 2021): “biodiversità nel settore zootecnico, una ricchezza per il futuro del settore”. (Biodiversity, a value for the future of the livestock sector).

International Symposium on Sustainable Animal Production and Health – Current Status and Way Forward (FAO/IAEA symposium; on-line, June 28, July 2, 2021): “ Genomic approaches to unravel the genetic basis of productive and adaptive traits in livestock”.

Accademia dei Georgofili (Agriculture Academy of Science; Florence, 9 Settembre 2021): “Adattamento ambientale e genetica: la rilettura della biodiversità, le basi genetiche della resilienza, il ruolo dell'epigenetica” (Genetics and adaptation: revisiting biodiversity, the genetic basis of resilience and the role of epigenetics).

24th Congress of Animal Science and Production Association (Padova, September 21-24, 2021): “Livestock biodiversity in the genomic era”.

Accademia dei Lincei (National Academy of Science; Rome, Novembre 2021): “genomica e biodiversità zootecnica: in cerca di geni per la mitigazione e l'adattamento ai cambiamenti climatici”. (Genomics and livestock biodiversity: seeking genes controlling climate adaptation).

IAEA Vienna (Luglio 2021): “Genomic approaches to unravel the genetic basis of productive and adaptive traits in livestock” ‘International Symposium on Sustainable Animal Production and Health, Current State and Way Forward’ organizzato dalla joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture (28 June-2 July 2021).

Scientific Dissemination

Twice speaker at TedX Lake Como (in 2009 https://www.youtube.com/watch?v=dNbhVFdC_Qc) (in 2016 https://www.youtube.com/watch?v=0_R_4z12jV0) and in more than other 30 meetings open to the general public.

LIST OF PAOLO AJMONE MARSAN PUBLICATION

A. Animal Genetics and Genomics

Papers on ISI journals

1. Diana Giannuzzi, Rossella Tessari, Sara Pegolo, Enrico Fiore, Matteo Giancesella, Erminio Trevisi, **Paolo Ajmone Marsan**, Michele Premi, Fiorenzo Piccioli-Cappelli, Franco Tagliapietra, Luigi Gallo, Stefano Schiavon, Giovanni Bittante, Alessio Cecchinato. The combination of ultrasound measurements and hematochemical 1 parameters as a minimally-invasive assessment tool for early prediction of liver metabolic alterations in clinically healthy Holstein Friesian dairy cows (2021) **Submitted**.
2. Pegolo, S., Mota, L.F.M., Bisutti, V., Martinez-Castillero, M., Giannuzzi, D., Gallo, L., Schiavon, S., Tagliapietra, F., Revello Chion, A., Trevisi, E., Negrini, R., **Ajmone Marsan, P.**, Cecchinato, A. Genetic parameters of differential somatic cell count, milk composition, and cheese-making traits measured and predicted using spectral data in Holstein cows (2021) **Journal of Dairy Science**. DOI: 10.3168/jds.2021-20395
3. Marcello Del Corvo, Barbara Lazzari, Emanuele Capra, Ludmilla Zavarez, Marco Milanese, Yuri Tani Utsunomiya, Adam Taiti, Alessandra Stella, Guilherme De Paula Nogueira, José Fernando Garcia, **Paolo Ajmone Marsan**. Methylome patterns of cattle adaptation to heat stress (2021). **Frontiers in Genetics**, 12, art. no. 633132.
4. Nicolò Pietro Paolo Macciotta; Licia Colli; Alberto Cesarani; Paolo Ajmone-Marsan; Wai Y. Low; Rick Tearle; John Williams. The distribution of runs of Homozygosity in the genome of River and Swamp buffaloes reveals a history of adaptation, migration and crossbred events. (2021). **Genetics Selection Evolution**, 53 (1), art. no. 20.
5. S. Pegolo, D. Giannuzzi, V. Bisutti, R. Tessari, M. E. Gelain, L. Gallo, S. Schiavon, F. Tagliapietra, E. Trevisi, **P. Ajmone Marsan**, G. Bittante, and A. Cecchinato. Associations between differential somatic cell count and milk yield, quality and technological characteristics in Holstein cows (2021). **Journal of Dairy Science**, 104 (4), pp. 4822-4836.
6. Senczuk, G., Mastrangelo, S., **Ajmone-Marsan, P.**, Becskei, Z., Colangelo, P., Colli, L., Ferretti, L., Karsli, T., Lancioni, H., Lasagna, E., Marletta, D., Persichilli, C., Portolano, B., Sarti, F.M., Ciani, E., Pilla, F. On the origin and diversification of Podolian cattle breeds: testing scenarios of European colonization using genome-wide SNP data (2021) **Genetics Selection Evolution**, 53 (1), art. no. 48.
7. Cortellari, M., Barbato, M., Talenti, A., Bionda, A., Carta, A., Ciampolini, R., Ciani, E., Crisà, A., Frattini, S., Lasagna, E., Marletta, D., Mastrangelo, S., Negro, A., Randi, E., Sarti, F.M., Sartore, S., Soglia, D., Liotta, L., Stella, A., **Ajmone-Marsan, P.**, Pilla, F., Colli, L., Crepaldi, P. The climatic and genetic heritage of Italian goat breeds with genomic SNP data (2021) **Scientific Reports**, 11 (1), art. no. 10986.
8. Mészáros, G., Milanese, M., **Ajmone-Marsan, P.**, Utsunomiya, Y.T. Editorial: Haplotype Analysis Applied to Livestock Genomics (2021) **Frontiers in Genetics**, 12, art. no. 660478.
9. Palombo, V., Pegolo, S., Conte, G., Cesarani, A., Macciotta, N.P.P., Stefanon, B., **Ajmone Marsan, P.**, Mele, M., Cecchinato, A., D'Andrea, M. Genomic prediction for latent variables related to milk fatty acid composition in Holstein, Simmental and Brown Swiss dairy cattle breeds (2021) **Journal of Animal Breeding and Genetics**, 138 (3), pp. 389-402.
10. Milanese, M., Passamonti, M.M., Cappelli, K., Minuti, A., Palombo, V., Sgorlon, S., Capomaccio, S., D'andrea, M., Trevisi, E., Stefanon, B., Williams, J.L., **Ajmone-Marsan, P.** Genetic regulation of biomarkers as stress proxies in dairy cows (2021) **Genes**, 12 (4), art. no. 534.
11. Zendrini, A., Carta, V., Filipello, V., Ragni, L., Cosciani-Cunico, E., Arnaboldi, S., Bertasi, B., Franceschi, N., **Ajmone-Marsan, P.**, De Medici, D., Losio, M.N. One-day molecular detection of salmonella and campylobacter in chicken meat: A pilot study (2021) **Foods**, 10 (5), art. no. 1132.
12. Elena Ciani, Salvatore Mastrangelo, Anne Da Silva, Fabio Marroni, Maja Ferenčaković, **Paolo Ajmone-Marsan**, Hayley Baird, Mario Barbato, Licia Colli, Chiara Delvento, Toni Dovenski, Gregor Gorjanc, Stephen JG Hall, Anila Hoda, Meng-Hua Li, Božidarka Marković, John McEwan, Mohammad H Moradi, Otsanda Ruiz-Larrañaga, Dragana Ružić-Muslić, Dragica Šalamon, Mojca Simčič, Ondrej Stepanek, Econogene Consortium, Sheephapmap Consortium, Ino Curik, Vlatka Cubric-Curik, Johannes A Lenstra. On the origin of European sheep as revealed by the diversity of the Balkan breeds and by optimizing population-genetic analysis tools. (2020) **Genetics Selection Evolution** 52, 1-14.

13. Andrea Minuti, Nusrat Jahan, Vincenzo Lopreiato, Fiorenzo Piccioli-Cappelli, Lorenzo Bomba, Stefano Capomaccio, Juan J Loor, Paolo Ajmone-Marsan, Erminio Trevisi. Evaluation of circulating leukocyte transcriptome and its relationship with immune function and blood markers in dairy cows during the transition period. (2020) **Functional & Integrative Genomics** 20 (2), 293-305.
14. Yuri Tani Utsunomiya¹, Marco Milanese, Mario Barbato, Adam Taiti Harth Utsunomiya, Johann Sölkner, **Paolo Ajmone-Marsan** and José Fernando Garcia. Unsupervised detection of ancestry tracks with the GHat R package. (2020) **Methods in Ecology and Evolution**, 11 (11), 1448-1454.
15. M. Del Corvo, S. Bongiorno, G. Chillemi, B. Stefanon, S. Sgorlon, **P. Ajmone Marsan**, A. Valentini. Genome-wide DNA methylation and gene expression profiles in cows subjected to different stress level as assessed by cortisol in milk. (2020) **Genes**, 11 (8), 850.
16. Isaïc J. Nijman, Benjamin D. Rosen, Zhuqing Zheng, Yu Jiang, Tristan Cumer, Kevin G. Daly, Valentin A. Bâlteanu, Beate Berger, Thor Blichfeldt, Geert Boink, Sean Carolan, Vlatka Cubric-Curik, Juha Kantanen, Amparo Martínez, Raffaele Mazza, Negar Khayatzadeh, Namshin Kim, Nadjat-Amina Ouchene-Khelifi, Filipe Pereira, Anne da Silva, Mojca Simčič, Johann Sölkner, Alison Sutherland, Johannes Tigchelaar, Econogene Consortium, Paolo Ajmone-Marsan, Daniel G. Bradley, Licia Colli, François Pompanon, View ORCID Profile Johannes A. Lenstra. Phylogeny and distribution of Y-chromosomal haplotypes in domestic, ancient and wild goats. (2020) **bioRxiv** preprint doi: <https://doi.org/10.1101/2020.02.17.952051>.
17. Joseph Saragusty, Paolo Ajmone-Marsan, Silvestre Sampino, Jacek A. Modlinski. Reproductive Biotechnology and Critically Endangered Species: Merging *in vitro* gametogenesis with inner cell mass transfer. (2020) **Theriogenology**, in the press.
18. Valentino Palombo, Giuseppe Conte, Marcello Mele, Nicolò Pietro Paolo Macciotta, Bruno Stefanon, Paolo Ajmone Marsan, Mariasilvia D'Andrea. Use of multivariate factor analysis of detailed milk fatty acid profile to perform 1 a genome-wide association study in Italian Simmental and Italian Holstein. (2020), **Journal of Applied Genetics**, 61: 451–463.
19. Elena Ciani; Salvatore Mastrangelo; Anne Da Silva; Fabio Marroni; Maja Ferenčaković; Paolo Ajmone-Marsan; Hailey Baird; Mario Barbato; Licia Colli; Chiara Delvento; Toni Dovenski; Gregor Gorjanc; Stephen J.G. Hall; Anila Hoda; Meng-Hua Li; Božidarka Marković; John McEwan; Mohamad H. Moradi; Otsanda Ruiz-Larrañaga; Dragana Ružić-Muslić; Dragica Šalamon; Mojca Simčič; Ino Čurik; Vlatka Čubrić-Čurik; Johannes A Lenstra. On the origin of European sheep as revealed by the diversity of the Balkan breeds and by optimizing population-genetic analysis tools. (2020) **Genetics Selection Evolution** 52, 1-14.
20. Mario Barbato, Frank Hailer, Maulik Upadhyay, Marcello Del Corvo, Licia Colli, Riccardo Negrini, Eui-Soo Kim, Richard P M A Crooijmans, Tad Sonstegard, **Paolo Ajmone-Marsan**. Adaptive introgression from indicine cattle into Southern European white cattle breeds. (2020) **Scientific Report**, 10 (1), 1-11 Article number: 1279.
21. Mario Barbato; Michael P. Reichel; Matilde Passamonti; Wai Yee Low; Licia Colli; Rick Tearle; John L. Williams; **Paolo Ajmone Marsan**. A genetically unique Chinese cattle population shows evidence of common ancestry with wild species when analysed with a reduced ascertainment bias SNP panel. (2020) **PLoS ONE** 15 (4), e023116262.
22. Toschi Paola, Capra Emanuele, Anzalone Debora A., Lazzari Barbara, Turri Federica, Pizzi Flavia, Scapolo Pier A., Stella Alessandra, Williams John L., **Ajmone Marsan Paolo**, Loi Pasqualino. Maternal peri-conceptual undernourishment perturbs offspring sperm methylome. (2020) **Reproduction**. 159(5):513-523. doi:10.1530/REP-19-0549.
23. Solange Sousa, Luigi Lucini, **Paolo Ajmone-Marsan**, Maurício van Tilburg, Arlindo Moura. Untargeted metabolomic profile of accessory gland fluid of Morada Nova rams. (2020) **Mol Reprod Dev.**, 87(4):409-418. doi:10.1002/mrd.23337.
24. Elisa Somenzi, **Paolo Ajmone Marsan**, Mario Barbato. Identification of a low-density SNP panel to assess hybridisation between feral and domestic sheep. (2020) **Animals (Basel)**: 10(4):582. Published 2020 Mar 30. doi:10.3390/ani10040582.
25. Andrea Summer, Federica Di Frangia, **Paolo Ajmone Marsan**, Ivano DeNoni, and Massimo Malacarne. Occurrence, Biological Properties and Potential Effects on Human Health of β -Casomorphin 7: Current Knowledge and Concerns. (2020) **Crit Rev Food Sci Nutr.**, 1-19. doi:10.1080/10408398.2019.1707157.
26. Andrea Minuti, Nusrat Jahan, Vincenzo Lopreiato, Fiorenzo Piccioli-Cappelli, Lorenzo Bomba, Stefano Capomaccio, Juan J. Loor, Paolo Ajmone-Marsan, Erminio Trevisi. Evaluation of circulating leukocyte transcriptome and its relationship

- with immune function and blood markers in dairy cows during the transition period. (2020) **Functional & Integrative Genomics**. 20, pages293–305. **IF 2018=2.75**
27. Emanuele Capra; Barbara Lazzari; Federica Turri; Paola Cremonesi; Antônia Moemia Rodrigues Portela; **Paolo Ajmone-Marsan**; Alessandra Stella; Flavia Pizzi. Epigenetic analysis of high and low motile sperm populations reveals methylation variation in satellite regions within the pericentromeric position and in genes functionally related to sperm DNA organization and maintenance in *Bos taurus*. (2019) **BMC Genomics** 20, 940 doi:10.1186/s12864-019-6317-6. **IF 2018=3.50**
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