

Curriculum Vitae

Personal information **Antonio Battisti**

Work experience

- Employer: Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT)
 - Start date: 032007
 - End date:
 - Position: Head of the Department of General Diagnostics, Head of the National Reference Laboratory for antimicrobial resistance (Reg. 2004/882/EC Reg.(EU)2017/625, within the IZSLT, Rome, Italy (Regional Institute for Animal Health and Zoonoses in Central Italy)
 - Activities:
 - Country: Italy
- Employer: Istituto Zooprofilattico Sperimentale del Lazio e della Toscana
 - Start date: 082004
 - End date: 022007
 - Position: Head of the Veterinary Epidemiology Unit and Veterinary Information Systems
 - Activities:
 - Country: Italy

Education and training

- Subject: University of Perugia
 - Start date: 111981
 - End date: 061988
 - Qualification: Doctor of Veterinary Medicine (DVM)
 - Organisation:
 - Country: Italy
- Subject: University Tor Vergata
 - Start date: 2001
 - End date: 2003
 - Qualification: Master of Applied Epidemiology (II Level Master) Diploma
 - Organisation:
 - Country: Italy
- Subject: Istituto Superiore di sanità (National Institute of Health)
 - Start date: 2001
 - End date: 2003
 - Qualification: Applied Epidemiology training program (PROFEA)
 - Organisation:
 - Country: Italy
- Subject: European College of Veterinary Public Health, member of EVBS
 - Start date: 2003
 - End date: 2005
 - Qualification: European College of Veterinary Public Health, subspecialty Population Medicine Diploma (ECVPH_PM)
 - Organisation:
 - Country:

Additional information

Publications

Publications Selected Publications 2002_2022 Peer reviewed articles (see also:
<https://www.scopus.com/authid/detail.uri?authorId=55986484500> https://www.researchgate.net/profile/Antonio_Battisti)

- Carfora V, Diaconu EL, Ianzano A, Di Matteo P, Amoroso R, Dell'Aira E, Sorbara L, Bottoni F, Guarneri F, Campana L, Franco A, Alba P, and Battisti A, 2022. The hazard of carbapenemase (OXA_181)-producing *E. coli* spreading in pig and veal calf holdings in Italy in the genomics era: risk of spill over and spill back between humans and animals. *Front. Microbiol. Sec. Infectious Agents and Disease*; doi: 10.3389/fmicb.2022.1016895
- EFSA (European Food Safety Authority), Aerts M, Battisti A, Hendriksen R, Larsen J, Nilsson O, Cortiñas Abrahantes J, Guerra B, Papanikolaou A and Beloeil P_A, 2022. Technical specifications for a baseline survey on the prevalence of Methicillin Resistant *Staphylococcus aureus* (MRSA) in pigs. *EFSA Journal* 2022;20(10):7620, 33 pp. <https://doi.org/10.2903/j.efsa.2022.7620>
- Lombardo A, Brocherel G, Donnini C, Fichi G, Mariacher A, Diaconu EL, Carfora V, Battisti A, Cappai N, Mattioli L, De Liberato C. First report of the zoonotic nematode *Baylisascaris procyonis* in non-native raccoons (*Procyon lotor*) from Italy. *Parasit Vectors*. 2022 Jan 12;15(1):24. doi: 10.1186/s13071-021-05116-3.
- Alba P, Carfora V, Feltrin F, Iurescia M, Diaconu EL, Cordaro G, Dell'Aira E, Marani I, Giacomini A, Franco A, Battisti A. Evidence of structural rearrangements and variability in pESI(like) megaplasmids of *S. Infantis* by resolving the pESI-like blaCTX_M_1 positive variant. *bioRxiv* 2021.09.06.459061; doi: <https://doi.org/10.1101/2021.09.06.459061>
- Yang D, Heederik DJJ, Mevius DJ, Scherpenisse P, Luiken REC, Van Gompel L, Skarżyńska M, Wadepohl K, Chauvin C, Van Heijnsbergen E, Wouters IM, Greve GD, Jongerius Gortemaker BGM, Tersteeg Zijderfeld M, Zając M, Wasyl D, Juraschek K, Fischer J, Wagenaar JA, Smit LAM, Schmitt H,..... EFFORT consortium. Risk factors for the abundance of antimicrobial resistance genes aph(3')_III, erm(B), sul2 and tet(W) in pig and broiler faeces in nine European countries. *J Antimicrob Chemother*. 2022 Jan 21;dkac002. doi: 10.1093/jac/dkac002.
- Joosten P, Sarrazin S, Chauvin C, Moyano G, Wadepohl K, Van Gompel L, Wagenaar JA, Dewulf J, On Behalf Of The Effort Group. Assigning Defined Daily/Course Doses for Antimicrobials in Turkeys to Enable a Cross-Country Quantification and Comparison of Antimicrobial Use. *Antibiotics (Basel)*. 2021 Aug 12;10(8):971.
- Leekitcharoenphon P, Johansson MHK, Munk P, Malorny B,

Skarżyńska M, Wadepohl K, Moyano G, Hesp A, Veldman KT, Bossers A; EFFORT Consortium, Zając M, Wasyl D, Sanders P, Gonzalez_Zorn B, Brouwer MSM, Wagenaar JA, Heederik DJJ, Mevius D, Aarestrup FM. Genomic evolution of antimicrobial resistance in *Escherichia coli*. *Sci Rep*. 2021 Jul 23;11(1):15108. 8. Zoppi S, Dondo A, Di Blasio A, Vitale N, Carfora V, Gorla M, Chiavacci L, Giorgi I, D'Errico V, Irico L, Franco A, Battisti A. Livestock Associated Methicillin-Resistant *Staphylococcus aureus* and Related Risk Factors in Holdings of Veal Calves in Northwest Italy. *Microb Drug Resist*. 2021 Aug;27(8):1136_1143. 9. Iurescia M, Romiti F, Cocumelli C, Diaconu EL, Stravino F, Onorati R, Alba P, Friedrich KG, Maggi F, Magliano A, Ermenegildi A, Carfora V, Caprioli A, De Liberato C, Battisti A. *Plasmodium matutinum* Transmitted by *Culex pipiens* as a Cause of Avian Malaria in Captive African Penguins (*Spheniscus demersus*) in Italy. *Front Vet Sci*. 2021 Mar 16;8:621974. 10. Cocumelli C, Iurescia M, Diaconu EL, Galletta V, Raso C, Buccella C, Stravino F, Grande F, Fiorucci L, De Liberato C, Caprioli A, Battisti A. *Plasmodium matutinum* Causing Avian Malaria in Lovebirds (*Agapornis roseicollis*) Hosted in an Italian Zoo. *Microorganisms*. 2021 Jun 23;9(7):1356. 11. Tomao P, Pirolo M, Agnoletti F, Pantosti A, Battisti A, Di Martino G, Visaggio D, Monaco M, Franco A, Pimentel de Araujo F, Palei M, Benini N, Motta C, Bovo C, Di Renzi S, Vonesch N, Visca P. Molecular epidemiology of methicillin-resistant *Staphylococcus aureus* from dairy farms in North-eastern Italy. *Int J Food Microbiol*. 2020 Nov 2;332:108817. 12. Alba P, Leekitcharoenphon P, Carfora V, Amoroso R, Cordaro G, Di Matteo P, Ianzano A, Iurescia M, Diaconu EL, Study Group EN, Pedersen SK, Guerra B, Hendriksen RS, Franco A, Battisti A. Molecular epidemiology of *Salmonella* *Infantis* in Europe: insights into the success of the bacterial host and its parasitic pESI-like megaplasmid. *Microb Genom*. 2020 Apr 9. doi: 10.1099/mgen.0.000365. Epub ahead of print. PMID: 32271142. 13. Diaconu EL, Carfora V, Alba P, Di Matteo P, Stravino F, Buccella C, Dell'Aira E, Onorati R, Sorbara L, Battisti A, Franco A. Novel IncFII plasmid harbouring bla_{NDM-4} in a carbapenem-resistant *Escherichia coli* of pig origin, Italy. *J Antimicrob Chemother*. 2020 Dec 1;75(12):3475_3479. 14. Nieuwenhuijse DF, Oude Munnink BB, Phan MTV; Global Sewage Surveillance project consortium, Battisti A, Alba P., Munk P, Venkatakrishnan S, Aarestrup FM, Cotten M, Koopmans MPG. Setting a baseline for global urban virome surveillance in sewage. *Sci Rep*. 2020 Aug 13;10(1):13748. 15. Joosten P, Ceccarelli D, Odent E, Sarrazin S, Graveland H, Van Gompel L, Battisti A, Caprioli A, Franco A, Wagenaar JA, Mevius D, Dewulf J. Antimicrobial Usage and Resistance in Companion Animals: A Cross-Sectional Study in Three European Countries. *Antibiotics* (Basel). 2020 Feb 16;9(2). 16. Merialdi G, Feltrin F, Gaetaneli B, Lombardi G, Iurescia M, Alba P, Luppi A, Martinelli N, Ramini M, Carfora V, Franco A, Battisti A. Livestock-associated methicillin-resistant *Staphylococcus aureus* (LA-MRSA) spa type t127, Sequence Type (ST)1, quickly spreads and persists among young pigs. *Pathog Dis*. 2019 Apr 1;77(3). 17. Nicastri E, Vairo F, Mencarini P, Battisti A, Agrati C, Cimini E, Carrara S, D'Arezzo S, Adone R, Vulcano A, Iannetta M, Capone A, Petrosillo N, Fasanella A, Ippolito G; Italian Anthrax Team Members. Unexpected human cases of cutaneous anthrax in Latium region, Italy, August 2017: integrated human-animal investigation of epidemiological, clinical, microbiological and ecological factors. *Euro Surveill*. 2019 Jun;24(24). 18. Arancia S, Iurescia M, Lorenzetti S, Stravino F, Buccella C, Caprioli A, Franco A, Battisti A, Morabito S, Tozzoli R. Detection and isolation of Shiga Toxin-producing *Escherichia coli* (STEC) strains in caecal samples from pigs at slaughter in Italy. *Vet Med Sci*. 2019 Aug;5(3):462_469. doi: 10.1002/vms3.175. Epub 2019 May 23. 19. Luiken REC, Van Gompel L, Munk P, Sarrazin S, Joosten P, Dorado_García A, Borup Hansen R, Knudsen BE, Bossers A, Wagenaar JA, Aarestrup FM, Dewulf J, Mevius DJ, Heederik DJJ, Smit LAM, Schmitt H; EFFORT consortium . Associations between antimicrobial use and the faecal resistome on broiler farms from nine European countries. *J Antimicrob Chemother*. 2019 Sep 1;74(9):2596_2604. 20. Fico R, Mariacher A, Franco A, Eleni C; Ciarrocca E, Pacciarini ML, Battisti A (2019). Systemic tuberculosis by *Mycobacterium bovis* in a free-ranging Marsican Brown Bear (*Ursus arctos marsicanus*): a case report (BVET_D_19_00153R1). *BMC Vet Res*. 2019 May 17;15(1):152. 21. Eleni C, Neri B, Giannetti L, Grifoni G, Meoli R, Stravino F, Friedrich KG, Scholl F, Di Cerbo P, Battisti A. Death of captive-bred vultures caused by flunixin poisoning in Italy. *Environ Toxicol Pharmacol*. 2019 May;68:91_93. doi:10.1016/j.etap.2019.03.011. Epub 2019 Mar 11. 22. Hendriksen RS, Munk P, Njage P, van Bunnik B, McNally L, Lukjancenko O, Röder T, Nieuwenhuijse D, Pedersen SK, Kjeldgaard J, Kaas RS, Clausen PTLC, Vogt JK, Leekitcharoenphon P, van de Schans MGM, Zuidema T, de Roda Husman AM, Rasmussen S, Petersen B; Global Sewage Surveillance project consortium, Amid C, Cochrane G, Sicheritz-Ponten T, Schmitt H, Alvarez JRM, Aidara-Kane A, Pamp SJ, Lund O, Hald T, Woolhouse M, Koopmans MP, Vigre H, Petersen TN, Aarestrup FM. Global monitoring of antimicrobial resistance based on metagenomics analyses of urban sewage. *Nat Commun*. 2019 Mar 8;10(1):1124. doi: 10.1038/s41467_019_08853_3. 23. Leekitcharoenphon P, Sørensen G, Löfström C, Battisti A, Szabo I, Wasyl D, Slowey R, Zhao S, Brisabois A, Kornschöber C, Kärssin A, Szilárd J, Černý T, Svendsen CA, Pedersen K, Aarestrup FM and Hendriksen RS (2019) Cross-Border Transmission of *Salmonella* *Choleraesuis* var. *Kunzendorf* in European Pigs and Wild Boar: Infection, Genetics, and Evolution. *Front. Microbiol*. 2019. doi: 10.3389/fmicb.2019.00179. 24. Sarrazin S, Joosten P, Van Gompel L, Luiken REC, Mevius DJ, Wagenaar JA, Heederik DJJ, Dewulf J; EFFORT consortium . Quantitative and qualitative analysis, of antimicrobial usage patterns in 180 selected farrow-to-finish pig farms from, nine European countries based on single batch and purchase data. *J Antimicrob Chemother*. 2018 Dec 13. doi: 10.1093/jac/dky503. 25. Van Gompel L, Luiken REC, Sarrazin S, Munk P, Knudsen BE, Hansen RB, Bossers A, Aarestrup FM, Dewulf J, Wagenaar JA, Mevius DJ, Schmitt H, Heederik DJJ, Dorado_García A, Smit LAM; EFFORT consortium . The antimicrobial resistome in relation to antimicrobial use and biosecurity in pig farming, a metagenome-wide association study in nine European countries. *J Antimicrob Chemother*. 2019 Jan14. doi: 10.1093/jac/dky518. 26. Joosten P, Sarrazin S, Van Gompel L, Luiken REC, Mevius DJ, Wagenaar JA, Heederik DJJ, Dewulf J; EFFORT consortium . Quantitative and qualitative analysis of antimicrobial usage at farm and flock level on 181 broiler farms in nine European countries. *J Antimicrob Chemother*. 2019 Jan 10. 27. Carfora V., Scarampella F., Iurescia M., Donati V., Stravino F., Lorenzetti S., Menichini E., Franco A., Caprioli A., Battisti A. Non-toxicogenic *Corynebacterium ulcerans* sequence types 325 and 339 isolated from two dogs with ulcerative lesions in Italy. *J Vet Diagn Invest*. 2018 Mar 1;1040638718764786. doi: 10.1177/1040638718764786. 28. Carfora V, Alba P, Leekitcharoenphon P, Ballaró D, Cordaro G, Di Matteo P, Donati V, Ianzano A, Iurescia M, Stravino F, Tagliaferri T, Battisti A and Franco A., 2018. Colistin resistance mediated by mcr_1 in ESBL-producing, multidrug resistant *Salmonella* *Infantis* in broiler chicken industry, Italy (2016-2017). *Front Microbiol*. 2018 Aug 17;9:1880. doi: 10.3389/fmicb.2018.01880. eCollection 2018. 29. Munk P, Knudsen BE, Lukjancenko O, Duarte ASR, Van Gompel L, Luiken REC, Smit LAM, Schmitt H, García AD, Hansen RB, Petersen TN, Bossers A, Ruppé E; EFFORTGroup, Lund O, Hald T, Pamp SJ, Vigre H, Heederik D, Wagenaar JA, Mevius D, Aarestrup FM. Abundance and diversity of the faecal resistome in slaughter pigs and broilers in nine European countries. *Nat Microbiol*. 2018 Aug;3(8):898_908. doi: 10.1038/s41564_018_0192_9. Epub 2018 Jul 23. 30. Alba P, Leekitcharoenphon P, Franco A, Feltrin F, Ianzano A, Caprioli A, Stravino F, Hendriksen RS, Bortolaia V, and Battisti A., 2018. 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Rebelo AR, Bortolaia V, Kjeldgaard JS, Pedersen SK, Leekitcharoenphon P, Hansen IM, Guerra B, Malorny B, Borowiak M, Hammerl JA, Battisti A, Franco A, Alba P, Perrin-Guyomard A, Granier SA, De Frutos Escobar C, Malhotra-Kumar S, Villa L, Carattoli A, Hendriksen RS. Multiplex PCR for detection of plasmid-mediated colistin resistance determinants, mcr_1, mcr_2, mcr_3, mcr_4 and mcr_5 for surveillance purposes. *Euro Surveill*. 2018 Feb;23(6). doi:10.2807/1560_7917.ES.2018.23.6.17_00672. 34. Jensen J, Kyvsgaard NC, Battisti A, Baptiste KE. Environmental and public health related risk of veterinary zinc in pig production _ Using Denmark as an example. *Environ Int*. 2018 May;114:181_190. doi: 10.1016/j.envint.2018.02.007. Epub 2018 Mar 5. Review. 35. Carfora V, Scarampella F, Iurescia M, Donati V, Stravino F, Lorenzetti S, Menichini E, Franco A, Caprioli A, Battisti A. Non-toxicogenic *Corynebacterium ulcerans* sequence types 325 and 339 isolated from two dogs with ulcerative lesions in Italy. *J Vet Diagn Invest*. 2018 May;30(3):447_450. doi:10.1177/1040638718764786. Epub 2018 Mar 12. 36. Pimentel de Araujo F, Tinelli M, Battisti A, Ercoli A, Anesi A, Pantosti A, Monaco M. An outbreak of skin infections in neonates due to a *Staphylococcus aureus* strain producing the exfoliative toxin A. *Infection*. 2017 Nov 6. doi:10.1007/s15010_017_1084_2. 37. Giacinti G, Carfora V, Caprioli A, Sagrafoli D, Marri N, Giangolini G, Amoroso R, Iurescia M, Stravino F, Dottarelli S, Feltrin F, Franco A, Amatiste S., Battisti A. Prevalence and characterization of methicillin-resistant *Staphylococcus aureus* carrying mecA or mecC and methicillin-susceptible *Staphylococcus aureus* in dairy sheep farms in central Italy. *J Dairy Sci*. 2017, Aug 2. 38. Alba P, Caprioli A, Cocumelli C, Ianzano A, Donati V, Scholl F, Sorbara L, Terracciano G, Fichi G, Di Nocera F, Franco A, Battisti A. A New Multilocus Sequence Typing Scheme and Its Application for the Characterization of *Photobacterium damsela* subsp. *damsela* Associated with Mortality in Cetaceans. *Front Microbiol*. 2016 Oct 21;7:1656. 39. Carfora V, Giacinti G, Sagrafoli D, Marri N, Giangolini G, Alba P, Feltrin F, Sorbara L, Amoroso R, Caprioli A, Amatiste S, Battisti A. Methicillin-resistant and methicillin-susceptible *Staphylococcus aureus* in dairy sheep and in contact humans: An intra-farm study. *J Dairy Sci*. 2016 Jun;99(6):4251_8. doi:10.3168/jds.2016_10912. 40. Argudín MA, Lauzat B, Kraushaar B, Alba P, Agerso Y, Cavaco L, Butaye P, Porrero MC, Battisti A, Tenhagen BA, Fetsch A, Guerra B. Heavy metal and disinfectant resistance genes among

livestock-associated methicillin-resistant *Staphylococcus aureus* isolates. *Vet Microbiol*. 2016 Aug 15;191:88_95. doi:10.1016/j.vetmic.2016.06.004. 41. Cortimiglia C, Luini M, Bianchini V, Marzagalli L, Vezzoli F, Avisani D, Bertolotti M, Ianzano A, Franco A, Battisti A. Prevalence of *Staphylococcus aureus* and of methicillin-resistant *S. aureus* clonal complexes in bulk tank milk from dairy cattle herds in Lombardy Region (Northern Italy). *Epidemiol Infect*. 2016 Oct;144(14):3046_3051. 42. Larsen J, Stegger M, Andersen PS, Petersen A, Larsen AR, Westh H, Agersø Y, Fetsch A, Kraschauer B, Käsbohrer A, Feßler AT, Schwarz S, Cuny C, Witte W, Butaye P, Denis O, Haenni M, Madec JY, Jouy E, Laurent F, Battisti A, Franco A, Alba P, Mammina C, Pantosti A, Monaco M, Wagenaar JA, de Boer E, van Duikeren E, Heck M, Domínguez L, Torres C, Zarazaga M, Price LB, Skov RL. 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A Livestock-Associated, Multidrug-Resistant, Methicillin-Resistant *Staphylococcus aureus* Clonal Complex 97 Lineage Spreading in Dairy Cattle and Pigs in Italy. *Appl Environ Microbiol*. 2015 Nov 20;82(3):816_21. doi: 10.1128/AEM.02854_15. 46. Franco A, Leekitcharoenphon P, Feltrin F, Alba P, Cordaro G, Iurescia M, Tolli R, D'Incau M, Staffolani M, Di Giannatale E, Hendriksen RS, Battisti A. Emergence of a Clonal Lineage of Multidrug-Resistant ESBL-Producing *Salmonella* Infantis Transmitted from Broilers and Broiler Meat to Humans in Italy between 2011 and 2014. *pLoS One* 2015 Dec 30;10(12):e0144802. doi: 10.1371/journal.pone.0144802. eCollection 2015. 47. Alba P, Feltrin F, Cordaro G, Porrero MC, Kraushaar B, Argudin MA, Nykäsenoja S, Monaco M, Stegger M, Aarestrup FM, Butaye P, Franco A, Battisti A. 2015. Livestock-associated methicillin-resistant and methicillin-susceptible *Staphylococcus aureus* Sequence Type (CC)1 in European farmed animals: high genetic relatedness of isolates from Italian cattle herds and humans. *PLoS One* 10(8):e0137143. doi: 10.1371/journal.pone.0137143. 48. Barlozzari G, Franco A, Macri G, Lorenzetti S, Maggiori F, Dottarelli S, Maurelli M, Di Giannatale E, Tittarelli M, Battisti A, Gambarella F. First report of *Brucella suis* biovar 2 in a semi-free-range pig farm, Italy. *Vet Ital*. 2015 Apr-Jun;51(2):151_4. 49. Cortimiglia C, Bianchini V, Franco A, Caprioli A, Battisti A, Colombo L, Stradiotto K, Vezzoli F, Luini M., 2015. Prevalence of *Staphylococcus aureus* and methicillin-resistant *S. aureus* in bulk tank milk from dairy goat farms in Northern Italy. *J Dairy Sci*. 2015 Apr;98(4):2307_11. doi:10.3168/jds.2014.8923. Epub 2015 Jan 31. PubMed PMID: 25648812. 50. Savini V, Gherardi G, Marrollo R, Franco A, Pimentel De Araujo F, Dottarelli S, Fazii P, Battisti A, Carretto E. Could β -hemolytic, group B *Enterococcus faecalis* be mistaken for *Streptococcus agalactiae*? *Diagn Microbiol Infect Dis*. 2014 Dec 30. pii: S0732_8893(14)00515_X. doi: 10.1016/j.diagmicrobio.2014.12.005. [Epub ahead of print] PubMed PMID: 25766004. 51. Carfora V, Caprioli A, Marri N, Sagrafoli D, Borselli C, Giacinti G, Giangolini G, Sorbara L., Dottarelli S., Battisti A, Amatiste S. 2015. Enterotoxin genes, enterotoxin production, and methicillin resistance in *Staphylococcus aureus* isolated from milk and dairy products in Central Italy. *International Dairy Journal* 11/2014; DOI: 10.1016/j.idairyj.2014.10.009. 52. Savini V, Franco A, Gherardi G, Marrollo R, Argentieri AV, de Aurajo FP, Amoroso R, Battisti A, Fazii P, Carretto E., 2014. 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Projects

_Head of Partner Unit for Italy in the EU project (7th Framework Programme) "EFFORT" (Ecology from Farm to Fork Of microbial drug Resistance and Transmission), on eco-epidemiology of antimicrobial resistance of animal origin in EU. <http://www.healthcompetence.eu/converis/publicweb/project/6883;jsessionid=0b1c89cc396898ae3f71a3d0ec87?show=Person> and http://www.effort_against_amr.eu/ _Head of partner Unit for Italy in GP/EFSA/AFSCO/2015/01/CT1 "ENGAGE – establishing next generation sequencing ability for genomic analysis in Europe", on virulence and antimicrobial resistance in zoonotic pathogens. Specific aims of the call: A) Making use of molecular approaches to identify and characterise microbial foodborne pathogens, specifically using whole genome sequence (WGS) analysis, to enhance the understanding, the traceability and spread of the disease in humans that these bacteria populations may cause _Head of Partner Unit for Italy in the "One Health European Joint Programme (OHEJP) Project "Improving phenotypic Antimicrobial Resistance Testing by development of sensitive screening assays for emerging resistances, and setting missing ECOFFs (IMPART)" https://onehealthejp.eu/projects/jrp1_impart/ European Project OneHealth EJP, 2nd call for Research and Integrative Projects, entitled "Full_length sequencing for an enhanced EFFORT to map and understand drivers and reservoirs of antimicrobial resistance (Acronym: FULL_FORCE) https://onehealthejp.eu/jrp_full_force/

Memberships

Memberships _Member of the Technical Committee of the Italian Centre for Diseases Control and Prevention (CCM), 2004_2008. _Past Member of the Directive Council of Scientific Society SIEF (Italian Wildlife Diseases Association), 1997_2007. _Past Member of the Directive Council of the Scientific Society "SIDILV" (Italian branch of EAVLD) _European food Safety Authority (EFSA) Expert and Member of the Scientific Network for Zoonoses Monitoring Data_Antimicrobial Resistance (DATA); National Expert and Reporter, Data Collection Framework (DCF) and Data Warehouse (DWH) user for Zoonoses Monitoring Data (Antimicrobial Resistance Monitoring _"Reserve List" nominee Expert in "Panel on Biological Hazards" EFSA (from 2012) _Past Member (_2017) of the Steering Committee (Treasurer) of ESGVM (European Study Group on Veterinary Microbiology https://www.escmid.org/research_projects/study_groups/veterinary_microbiology/) within ESCMID (European Society of Clinical Microbiology and Infectious Diseases) <https://www.escmid.org/> _Active Member of the European College of Veterinary Public Health, subspecialty Population Medicine (<http://www.ecvph.org>) included in the 'European Board of Veterinary Specialisation (EBVS, <http://www.ebvs.org/> and <http://www.ebvs.org/index.php/colleges2>

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