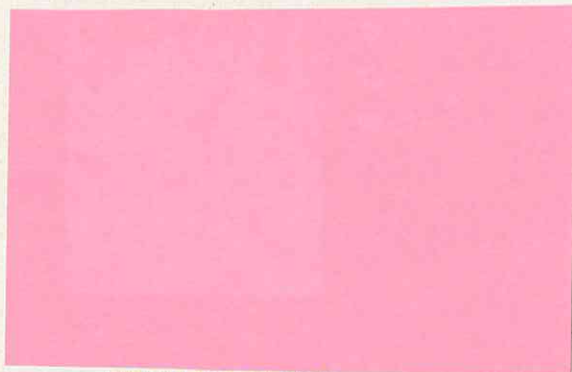


PERSONAL INFORMATION Gaia Sofia.G.M. Scavia



WORK EXPERIENCE

13/11/2003 to date **Staff Scientist**

Istituto Superiore di Sanità – Dep. of Food Safety, Nutrition and Veterinary Public Health
 Unit of Microbiological Food Safety and Foodborne Disease (OneHealth FBD).

Viale Regina Elena, 299 - 00161 Rome (Italy). www.iss.it

Responsibilities and achievement are described as follows:

- Activities connected to the implementation of integrated surveillance and monitoring of foodborne pathogens in humans, food and animals, including outbreak investigation
- Research activities in the area of epidemiology of zoonoses and foodborne diseases at national and european level
- Surveillance of pediatric Hemolytic Uremic syndrome (since 2003); Coordinator of the 'Italian Registry of HUS' in collaboration with the Italian Society for Pediatric Nephrology (www.iss.it/seu)
- Activities as staff member of the European reference Laboratory (EURL) for E.coli (since 2006). Activities in particular focus on:
 - Support in the organization and evaluation of interlaboratory studies and annual workshops of the EURL E.coli
 - As part of the EURL scientific advice to EU commission and EFSA during multinational outbreaks of STEC and for the implementation of the molecular-based surveillance of STEC in food and animal
 - Coordination team of the 'Enternet Italia' network for the surveillance of infection by enteric pathogens and Listeria (www.iss.it/ente)
 - provision of data on Shigatoxin-producing E.coli to the European Surveillance System (TESSy) and to the Epidemic Intelligence System (EPIS)
 - Support in the activities of genetic surveillance of scrapie in sheep and goat population and organization of proficiency test for the determination of PrP genotype in sheep population ;
 - Research activities in the field of epidemiology of foodborne pathogens and Transmissible Spongiform Encephalopathies (TSE) in animals at the Italian and EU level
 - Scientific advice to the Ministry of Health and other bodies of the National Health System as for risk assessment on topics related with foodborne pathogens and epidemic risk management; risk assessment activity planning; evaluation of the multiannual National Control Plan.
 - Scientific advice as external expert or national delegate to international bodies (EFSA, ECDC) in EFSA network, working groups, workshops and meetings.
 - Activities related to the organization at national and regional level of Workshops, training courses, and meeting in the field of veterinary epidemiology, epidemiology of foodborne pathogens and diseases, TSE, epidemiological surveillance, laboratory-based surveillance.
- PhD supervisor

Business or sector Public Health, zoonoses, Veterinary, Food Safety

15/09/2001 – 12/11/2003 **Veterinary Director**

Istituto Zooprofilattico del Lazio e Toscana, Regional Veterinary Epidemiology Unit, Via Appia Nuova 1461 Rome (Italy). www.izslt.it

- Animal Health, Surveillance, Epidemiology
- Business or sector** Veterinary Public Health and Animal Health

1994-2001
 Veterinary Practitioner
 Dairy Cattle Total Health Management
 Self-employment
 Animal Health

31/5/1994 – 14/09/2001 **Veterinary Practitioner and Consultant**

Self Employment

- Dairy Cattle Total Health Management
- Consultant in animal health research at the Istituto Zooprofilattico del Lazio e Toscana.

Business or sector Production m,edicine, Veterinary clinic, herd management and production, Animal Health and Welfare.

EDUCATION AND TRAINING

From 2004 – to 2007 **II level Master degree in Field Epidemiology (with honors)** EQF 8
 Università degli Studi di Tor Vergata, Rome (Italy)
 ▪ Field Epidemiology in Public Health

From 2000 – to 2003 **Postgraduate University School (Scuola di Specializzazione) in Animal Health (with honors)** EQF 8
 Università degli Studi di Parma, Parma (Italy)
 ▪ Animal Health, herd health hygiene and management

From 1986 – to 1993 **Degree in Veterinary Medicine (with honors)** EQF 7
 Università Statale degli Studi, Milan (Italy)
 ▪ Faculty of Veterinary Medicine

Mother tongue Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B2	B2	B2	B2	B2
Spanish	B2	B2	B1	B1	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills ▪ Very good communication skills gained through my experience as speaker in many meetings, conference, workshops etc.at both national and international level.

- Organisational / managerial skills** ▪ Excellent organisation and management skills and excellent capacity of working in team and reporting gained through the long experience acquired at both the national and international level, in organizing, participating and managing research projects, surveillance network, grants, working groups, workshops and meetings, training courses and tutoring of PhD students. I'm currently the coordinator of Hemolytic Uremic Syndrome surveillance networks at national level and I'm part of European reference Laboratory for E.coli.
- Very good capacity of working under quality assurance system (ISO17025). Qualification as deputy Quality assurance Responsible for Unit ZA from 2007 to 2011.

Job-related skills Excellent job-related skills acquired through specific training programs and through a long experience gained by working in the field at both national and international level. Excellent collaborative skills.

Computer skills ▪ Very good command of Microsoft Office™ tools. Good command in SPSS, Stata, Epi-Info, ArcGIS.

Publications in
the last 5 years:

- Ianiro G, Micolano R, Di Bartolo I, Scavia G, Monini M, RotaNet-Italy Study Group. Group A rotavirus surveillance before vaccine introduction in Italy, September 2014 to August 2017. *Euro Surveill.* 2019 Apr;24(15).
- Chiappini B, Scavia G, Conte M, Morelli L, Perrotta MG, Agrimi U, Vaccari G. Identification of prion protein genotype in sheep: 11 years of proficiency tests in Italy. *Accreditation and Quality Assurance* (2019) 24:49–55
- Giordano P, Netti GS, Santangelo L, Castellano G, Carbone V, Torres DD, Martino M, Sesta M, Di Cuonzo F, Resta MC, Gaeta A, Milella L, Chironna M, Germinario C, Scavia G, Gesualdo L, Giordano M. A pediatric neurologic assessment score may drive the eculizumab-based treatment of Escherichia coli-related hemolytic uremic syndrome with neurological involvement. *Pediatr Nephrol.* 2018 Oct 25. doi: 10.1007/s00467-018-4112-2
- Brigotti M, Arfilli V, Carnicelli D, Ricci F, Tazzari PL, Ardissino G, Scavia G, Morabito S, He X. Soluble Toll-Like Receptor 4 Impairs the Interaction of Shiga Toxin 2a with Human Serum Amyloid P Component. *Toxins (Basel).* 2018 Sep 18;10(9).
- Michelacci V, Maugliani A, Tozzoli R, Corteselli G, Chiani P, Minelli F, Gigliucci F, Arancia S, Conedera G, Targhetta C, Pierasco A, Collini L, Parisi A, Scavia G, Morabito S. Characterization of a novel plasmid encoding F4-like fimbriae present in a Shiga-toxin producing enterotoxigenic Escherichia coli isolated during the investigation on a case of hemolytic-uremic syndrome. *Int J Med Microbiol.* 2018 Oct;308(7):947-955.
- Duranti A, Sabbatucci M, Blasi G, Acciari VA, Ancora M, Bella A, Busani L, Centorame P, Cammà C, Conti F, De Medici D, Di Domenico M, Di Marzio V, Filippini G, Fiore A, Fisichella S, Gattuso A, Gianfranceschi M, Graziani C, Guidi F, Marcacci M, Marfoglio C, Neri D, Orsini M, Ottaviani D, Petruzzelli A, Pezzotti P, Rizzo C, Ruolo A, Scavia G, Scuota S, Tagliavento G, Tibaldi A, Tonucci F, Torresi M, Migliorati G, Pomilio F. A severe outbreak of listeriosis in central Italy with a rare pulsotype associated with processed pork products. *J Med Microbiol.* 2018 Sep;67(9):1351-1360
- Scavia G, Gianviti A, Labriola V, Chiani P, Maugliani A, Michelacci V, Minelli F, Tozzoli R, Caprioli A, Morabito S. A case of haemolytic uraemic syndrome (HUS) revealed an outbreak of Shiga toxin-2-producing Escherichia coli O26:H11 infection in a nursery, with long-lasting shedders and person-to-person transmission, Italy 2015. *J Med Microbiol.* 2018 Apr 23 doi: 10.1099/jmm.0.000738.
- Gigliucci F, von Meijenfheldt FAB, Knijn A, Michelacci V, Scavia G, Minelli F, Dutilh BE, Ahmad HM, Raangs GC, Friedrich AW, Rossen JWA, Morabito S. Metagenomic Characterization of the Human Intestinal Microbiota in Fecal Samples from STEC-Infected Patients. *Front Cell Infect Microbiol.* 2018 Feb 6;8:25. doi: 10.3389/fcimb.2018.00025. eCollection 2018.
- Usein CR, Ciontea AS, Militaru CM, Condei M, Dinu S, Oprea M, Cristea D, Michelacci V, Scavia G, Zota LC, Zaharia A, Morabito S. Molecular characterisation of human Shiga toxin-producing Escherichia coli O26 strains: results of an outbreak investigation, Romania, February to August 2016. *Euro Surveill.* 2017 Nov;22(47). doi: 10.2807/1560-7917.ES.2017.22.47.17-00148.
- Scavia G, Alfonsi V, Taffon S, Escher M, Bruni R, De Medici D, Di Pasquale S, Guizzardi S, Cappelletti B, Iannazzo S, Losio NM, Pavoni E, Decastelli L, Ciccaglione AR, Equestre M, Tosti ME, Rizzo C. A large prolonged outbreak of hepatitis A associated with consumption of frozen berries, Italy, 2013-14. *J Med Microbiol.* 2017 Jan 13. doi: 10.1099/jmm.0.000433. [Epub ahead of print]
- Graziani C, Losasso C, Luzzi I, Ricci A, Scavia G and P. Pasquali. Salmonella p.133 -155 in Foodborne Disease third ed. 2017. Academic Press, London 2017 Elsevier.
- Giacometti F, Bonilauri P, Piva S, Scavia G, Amatiste S, Bianchi DM, Losio MN, Bilei S, Cascone G, Comin D, Daminelli P, Decastelli L, Meriardi G, Mioni R, Peli A, Petruzzelli A, Tonucci F, Liuzzo G, Serraino A. Paediatric HUS Cases Related to the Consumption of Raw Milk Sold by Vending Machines in Italy: Quantitative Risk Assessment Based on Escherichia coli O157 Official Controls over 7 years. *Zoonoses Public Health.* 2016 Dec 19. doi: 10.1111/zph.12331. [Epub ahead of print]
- Germinario C, Caprioli A, Chironna M, Gallone M, Tafur S, Desiante F, Calabrese G, Martino C, Gallone MF, Morea A, Minelli F, Maugliani A, Michelacci V, Tozzoli R, Morabito S, Mongelli O, Pinto PF, Montagna C, Ricci M, Giordano M, Gianviti A, Ardissino GL, Scavia G. Community-wide Outbreak of Haemolytic Uremic Syndrome Associated with Shiga Toxin 2-Producing Escherichia coli O26:H11 in Southern Italy, Summer 2013. *Euro Surveill.* 2016 Sep 22;21(38). doi: 10.2807/1560-7917.ES.2016.21.38.30343.
- Bruni R, Taffon S, Equestre M, Chionne P, Madonna E, Rizzo C, Tosti ME, Alfonsi V, Ricotta L, De Medici D, Di Pasquale S, Scavia G, et al.; Italian National Task Force on Hepatitis A. Key Role of Sequencing to Trace Hepatitis A Viruses Circulating in Italy During a Large Multi-Country European Foodborne Outbreak in 2013. *PLoS One.* 2016 Feb 22;11(2):e0149642.
- Cito F., Baldinelli F., Calistri P., Di Giannatale E., Scavia G, et al. on behalf of the outbreak 8 investigation group. 2015. Human outbreak caused by unusual S. enterica ser. Typhimurium 1 monophasic variant 1,4,[5],12:i:-, Italy, June 2013 to September 2014. *Euro Surveill.* 2016 Apr 14;21(15).
- Peron E, Zaharia A, Zota LC, Severi E, Mårdh O, Usein C, Bălgrădean M, Espinosa L, Jansa J, Scavia G, et al. Early findings in outbreak of Haemolytic Uraemic Syndrome among young children caused by Shiga toxin-producing Escherichia coli, Romania, January to February 2016. *Eurosurveillance.* 2016 Mar 17; 21 (11)
- Acciari V, Iannetti L, Gattuso A, Scavia G, et al. Tracing sources of Listeria contamination in traditional Italian cheeses associated to a US outbreak: investigations in Italy. *Epidemiol Infect.* 2015 Nov 2;1-9.
- Arfilli V, Carnicelli D, Ardissino G, Torresani E, Scavia G, Brigotti M. A Rapid and Sensitive Method to Measure the Functional Activity of Shiga Toxins in Human Serum. *Toxins* 2015, 7(11), 4564-4576.
- He X, Quiñones B, Te Loo M, Loos S, Scavia G, et al. L. Serum Shiga toxin 2 values in patients during acute diarrhoea are associated with haemolytic uremic syndrome. *Acta Paediatr.* 2015 Sep 11.
- Gossner CM, de Jong B, Hoebe CJ, Coulombier D; European Food and Waterborne Diseases Study Group. Event-based surveillance of food- and waterborne diseases in Europe: urgent inquiries (outbreak alerts) during 2008 to 2013. *Euro Surveill.* 2015 Jun 25;20(25):19-28. pii: 21179.
- Caprioli A, Scavia G, Morabito S. Public Health Microbiology of Shiga Toxin-Producing Escherichia coli. In *Enterohemorrhagic Escherichia coli and other Shiga Toxin-Producing E. coli.* Washington: ASM Press, 2015: 245-62.
- Scavia G, Edefonti A, Vidal E, Emma F, Pecoraro C, et al. A on behalf of the Italian HUS Registry. Activities of the National Registry of Hemolytic Uremic Syndrome (HUS) in Italy, 1988-2014. *RARE DISEASES AND ORPHAN DRUGS An International Journal of Public Health.* 2014, 1 (4), Supplement 4, 28.
- De Medici D, Alfonsi V, Bruni R, Busani L, Ciccaglione AR, Di Pasquale S, Equestre M, Escher M, Ricotta L, Rizzo C, Scavia G, et al.. Hepatitis A outbreak in Italy associated with frozen berries [abstract]. *European Journal of Public Health* 2014;24(2 Suppl):260.
- Escher M, Scavia G, Morabito S, Tozzoli R, et al.. A severe foodborne outbreak of diarrhoea linked to a canteen in Italy caused by enteroinvasive Escherichia coli, an uncommon agent. *Epidemiol Infect.* 2014; 142(12):2559-66.
- Caprioli A., Morabito S., and Scavia G. (2014) Bacteria: Shiga Toxin-Producing Escherichia coli and Other Pathogenic Escherichia coli. In: Motarjemi Y. (ed.) *Encyclopedia of Food Safety*, Volume 1, pp. 417-423. Waltham, MA: Academic Press.

**Training activities
(as teacher) in the
last 5 years**

- Perugia, 17/01/2019, University of Perugia- Master School in Production and Health Management of Ovine and Caprine". Subject: Zoonoses and impact on Public Health in Italy and Europe.
- Rome 10/12/2018, Italian Ministry of Health: Risk assessment and communication in the food chain: EFSA and the European National Authorities. Models of collaboration.
- Rome 26/6/2018, ISS/INMI L. Spallanzani /Regione Lazio/Arpa Lazio/IZSLT: Approccio alla gestione degli incidenti, delle emergenze e delle crisi nel campo delle malattie trasmesse da alimenti
- Milano, 10/04/2018. Università degli Studi - Master di II livello in Nefrologia e Urologia Pediatrica
- Torino, 15/12/2017. IZS Piemonte Liguria e Valle d'Aosta – MTA: Procedure per la gestione e il controllo.
- Bologna 25/9/2017, AOU Sant'Orsola Malpighi: La SEU in età pediatrica.

**Technical
Reports,
Scientific
opinions,
guidelines
(last 5 years):**

- EFSA and ECDC (European Food Safety Authority and European Centre for Disease Prevention and Control), 2018. The European Union summary report on trends and sources of zoonoses, zoonotic agents and food-borne outbreaks in 2017. EFSA Journal 2018;16(12):5500, 262 pp
- EFSA (European Food Safety Authority) and ECDC (European Centre for Disease Prevention and Control), 2017. The European Union summary report on trends and sources of zoonoses, zoonotic agents and food-borne outbreaks in 2016. EFSA Journal 2017;15(12):5077, 228 pp.
- Cefas, 2016. Report of the Joint FSA/EFSA Workshop on Foodborne Viruses. EFSA supporting publication 2016:EN-1103. 47 pp.
- EFSA (European Food Safety Authority) and ECDC (European Centre for Disease Prevention and Control), 2016. Technical report on multi-country outbreak of Shiga toxin-producing Escherichia coli infection associated with haemolytic uraemic syndrome. EFSA supporting publication 2016:EN-1017. 13 pp
- EFSA (European Food Safety Authority) and ECDC (European Centre for Disease Prevention and Control), 2015. The European Union summary report on trends and sources of zoonoses, zoonotic agents and food-borne outbreaks in 2014. EFSA Journal 2015;13(12):4329, 191 pp. doi:10.2903/j.efsa.2015.4329
- EFSA (European Food Safety Authority), 2014. Tracing of food items in connection to the multinational hepatitis A virus outbreak in Europe. EFSA Journal 2014;12(9):3821, 186 pp. doi:10.2903/j.efsa.2014.3821
- ECDC (European Centre for Disease Prevention and Control) and EFSA (European Food Safety Authority), 2014; Outbreak of hepatitis A in EU/EEA countries - Second update. EFSA supporting publication 2014:EN-581. 14 pp.
- EFSA (European Food Safety Authority), 2014. Technical specifications for the pilot on the collection of data on molecular testing of food-borne pathogens from food, feed and animal samples. EFSA supporting publication 2014:EN-712, 58 pp.
- EFSA BIOHAZ Panel (EFSA Panel on Biological Hazards), 2014. Scientific Opinion on the evaluation of molecular typing methods for major food-borne microbiological hazards and their use for attribution modelling, outbreak investigation and scanning surveillance: Part 2 (surveillance and data management activities). EFSA Journal 2014;12(7):3784, 46 pp. doi:10.2903/j.efsa.2014.3784

Research Projects:

- 2018-2022: European Commission (Horizon 2020) - European Joint Programme – OneHealth – Partner in COHESIVE: One Health Structure In Europe.
- 2018-2022: European Commission (Horizon 2020) - European Joint Programme – OneHealth – Partner in NOVA: Novel approaches for design and evaluation of cost-effective surveillance across the food chain (NOVA).
- 2013-2015: partner Research Project: Indagini Epidemiologiche sulla infezione da Vtec nei bovini come fonte di Infezione Umana. (progetto di ricerca corrente 2013, coordinated by Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna. Italian Ministry of Health
- 2012-2015: partner Research Project (Project Code: RF-2010-2312676): A combination of surveys, spatial analyses and molecular epidemiology to get an insight of pre-harvest risks from Shiga toxin-producing Escherichia coli.
- 2011-2013: partner Research Project IZSPLV 19/10RC Studio Epidemiologico dell'impatto dell'attività di selezione genetica sulla frequenza della scrapie ovina in Italia
- 2009-2012: partner in Research Project - Applicazione e stima dell'efficacia del piano di selezione degli ovini per la resistenza genetica alle encefalopatie spongiformi trasmissibili- Provincia di Siena, coordinated by Istituto Zooprofilattico Sperimentale del Lazio e Toscana
- 2006– 2008: partner in Research Project IZSUM 13/06 RC – Stima della prevalenza delle diarree in una

popolazione umana definita, coordinated by Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche

- 2004 – 2009: EU VI FP Network of Excellence "MED-VET-NET - Network for Prevention and Control of Zoonoses"(2004-2009). Partner in Workpackage 06 "Development and application of geographical Information system (GIS) and spatio-temporal methods in the epidemiology of foodborne zoonoses"
- 2004-2009: EU VI FP Network of Excellence "MED-VET-NET - Network for Prevention and Control of Zoonoses"(2004-2009). Partner in Workpackage 23 "Prioritising foodborne and zoonotic hazards at the EU level"

Procurements:

- European Food Safety Authority (EFSA) NP/EFSA/BIOCONTAM/2018/02 "Expert assistance on drafting the main EUSR Zoonoses 2019 – Food-borne outbreaks(FBO)" (EFSA Procurement. – Team leader
- European Food Safety Authority (EFSA) NP/EFSA/BIOCONTAM/2018/02 "Expert assistance on drafting the main EUSR Zoonoses 2018 – Food-borne outbreaks(FBO)" (EFSA Procurement. – Team leader
- European Food Safety Authority (EFSA) NP/EFSA/BIOCONTAM/2017/02 "Expert assistance on drafting the main EUSR Zoonoses 2017 – Food-borne outbreaks(FBO)" (EFSA Procurement. – Team leader
- European Food Safety Authority (EFSA) NP/EFSA/BIOCONTAM/2016/02 "Expert assistance on drafting the main EUSR Zoonoses 2016 – Food-borne outbreaks(FBO)" (EFSA Procurement. – Team leader
- European Food Safety Authority (EFSA). NP/EFSA/BIOCONTAM/2016/03."Expert assistance on drafting the main EUSR Zoonoses 2016 – Verocytotoxigenic E.coli (VTEC)"
- European Food Safety Authority (EFSA) NP/EFSA/BIOCONTAM/2016/02 "Expert assistance on drafting the main EUSR Zoonoses 2015 – Food-borne outbreaks(FBO)" (EFSA Procurement) – Team leader
- European Food Safety Authority (EFSA). NP/EFSA/BIOCONTAM/2016/03."Expert assistance on drafting the main EUSR Zoonoses 2015 – Verocytotoxigenic E.coli (VTEC)"
- European Food Safety Authority (EFSA). 'Expert assistance in analyzing and interpreting the 2014 Verocytotoxigenic Escherichia coli monitoring data reported by the EU Member States in accordance with Directive 2003/99/EC and in supporting the preparation of the 2014 European Union Summary report on zoonoses and food-borne outbreaks'.

Surveillance and Registry:

- 2018- Italian Focal Point (Deputy) for ECDC foodborne and Waterborne programme;
- 2011 to date: Coordinator of the Italian Registry of Hemolytic Uremic Syndrome in cooperation with the Italian Society for Pediatric Nephrology. (www.iss.it/seu)
- 2006 to date: Member of the staff of the EU Reference Laboratory for E.coli (Reg. 882/2005/EU) (www.iss.it/vtec)
- 2004 to date: Member of the EnterNet Italia surveillance team (National Laboratory Surveillance for Enteric Pathogens). Within the EnterNet Italia team since 2007 she has been providing national data to the European Surveillance System (TESSy) and EPIS coordinated by the European Centre for Disease Prevention and Control (www.iss.it/ente)

I hereby authorize the use of my personal data according to Reg. UE 2016/679.

Rome, 05/06/2019