

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **Ru, Giuseppe, DVM PhD MSE**
Address **34, VIA Duchessa Jolanda, 10138, Torino, Italy**
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E-mail giuseppe.ru@izsto.it
Nationality Italian
Date of birth 18 April 1966

WORK EXPERIENCE

- Dates (from – to) **JANUARY 1997 – TO DATE**
- Name and address of employer **ISTITUTO ZOOPROFILATTICO SPERIMENTALE DI PIEMONTE, LIGURIA E VALLE D'AOSTA,
HEAD OF THE LABORATORY OF BIOSTATISTICS, EPIDEMIOLOGY AND ANALYSIS OF RISK
EPIDEMIOLOGY APPLIED TO ANIMAL HEALTH, FOOD SAFETY, ENVIRONMENTAL HEALTH
VETERINARY EPIDEMIOLOGIST
IN CHARGE OF THE UNIT OF TSEs SURVEILLANCE DEALING WITH MONITORING AND SURVEILLANCE
OF ANIMAL TSE, DESCRIPTIVE AND ANALYTICAL**
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

- Dates (from – to) **JANUARY 1996 – DECEMBER 1996**
- Name and address of employer **CANCER EPIDEMIOLOGY UNIT, DEPARTMENT OF HUMAN ONCOLOGY UNIVERSITY OF TURIN
EPIDEMIOLOGY ONCOLOGY
RESEARCH ASSISTANT
CASE-CONTROL STUDY ON CANINE OSTEOSARCOMA, REPRODUCIBILITY STUDY ON THE GRADING OF
BREAST CARCINOMA IN SITU**
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (from – to) January 2003 – November 2004
- Name and type of organisation providing education and training School of Medicine, University of Turin
- Principal subjects/occupational skills covered Epidemiology & biostatistics
- Title of qualification awarded Master in Epidemiology, dissertation on Epidemiology of BSE in Italy
- Level in national classification (if appropriate)

- Dates (from – to) December 1997 – July 2000
- Name and type of organisation providing education and training School of Veterinary Medicine, University of Teramo
- Principal subjects/occupational Animal Health

- skills covered
- Title of qualification awarded Degree of Specialist in Animal Health, dissertation on Epidemiology of BSE in Italy
- Level in national classification (if appropriate)

- Dates (from – to) October 1992 – June 1995
- Name and type of organisation providing education and training School of Veterinary Medicine, University of Milano
- Principal subjects/occupational skills covered Veterinary epidemiology
- Title of qualification awarded PhD, dissertation on Cancer epidemiology in companion animals
- Level in national classification (if appropriate)

- Dates (from – to) October 1985 – April 1992
- Name and type of organisation providing education and training School of Veterinary Medicine, University of Turin
- Principal subjects/occupational skills covered Veterinary science
- Title of qualification awarded DVM
- Level in national classification (if appropriate)

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

Besides epidemiology, he has attended courses in Risk analysis applied to animal health and food safety. Membership:

Member, Society of Veterinary Epidemiology and Preventive Medicine

Member, Italian Association of Epidemiology

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills Excellent
- Writing skills Excellent
- Verbal skills Excellent

FRENCH

- Reading skills Good

SPANISH

- Reading skills Good

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

At the moment G.R. is responsible of a team of ten people (veterinarians, statisticians, IT experts) dealing with biostatistics, epidemiology and risk assessment. He was assigned several research funds based on projects he submitted to regional and national health authorities. He has been member of the Italian Task Force on TSE of the Health Ministry (since February 2002). As an epidemiologist has been involved in FAIR projects (FAIRJ-CT98-7021 "Surveillance and diagnosis of ruminant TSE" e FAIRJ-CT98-6056 "European Scrapie Network", "SRTSE Surveillance of small ruminant TSE" network, NEUROPRION), and in a ANIHWA-ERANET project ("SPARE, Spatial Assessment of Risk into EU: Exotic animal disease). Since 2014 his team has been appointed by EFSA for two procurements (one on the application of Machine Learning Techniques in food safety risk assessment and another for the European Reporting og TSE surveillance data).

He has been National expert of TSEs' epidemiology in a number of meetings of the Veterinary Standing Committee and ad hoc TSE expert groups (March 1999 – 2012). In 2010 he has been appointed as expert to provide scientific and technical advice to a World Trade Organization (WTO) dispute settlement panel.

In the past he has been member of three working group of the EFSA's BIOHAZ Panel ("BSE in goats" "Sheep QRA" "Joint ECDC/EFSA mandate on any possible molecular and/or epidemiological links between animal and human TSE's"). Since 2007 he has been appointed ad mational focal point within the EFSA's TSE Network.

As epidemiologist within the Italian National Reference Laboratory for Animal Transmissible Spongiform Encephalopathies he has been in charge of carrying out a number of risk assessments committed by the Italian Health Ministry.

Since July 2012 (and till 2018) he has been member of the EFSA BIOHAZ Panel. During this membership he has been appointed as member of EFSA working groups that produced the following documents:

- Scientific Opinion on BSE risk in bovine intestines and mesentery. EFSA Journal 2014;12(2):3554, 98 pp.

- Request for scientific and technical assistance on the minimum sample size to test should an annual BSE statistical testing regime be authorised in healthy slaughtered cattle. EFSA Journal 2012;10(10):2913.

- Revision of the Norwegian annual monitoring programme for BSE. EFSA Journal 2013;11(2):3119. [46 pp.] doi:10.2903/j.efsa.2013.3119

- Updated revision of the Norwegian annual monitoring programme for BSE. EFSA Journal 2013;11(9):3380

- Opinion on the scrapie situation in the EU after 10 years of monitoring and control in sheep and goats. EFSA Journal 2014;12(7):3781 [155 pp.].

Teaching experience: Veterinary epidemiology for postgraduate students (School of veterinary medicine of Turin), Seminars in TSE epidemiology (School of veterinary epidemiology of Sassari, Bologna, Pisa and Teramo), Risk Analysis (Master in veterinary epidemiology, University of Parma); Tutor in 2008 and 2010 SANCO TrainSaferFood

European Training Platform for Safer Food courses: Workshop on Prevention, control and eradication of Transmissible Spongiform Encephalopathies in 2009-2010-2011-2012.

He has also acted as coordinator of the development of a 6-module on-line training package on TSE committed by the European Commission within the BTSF frame.

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

G.R. is in charge of the data collection, data analysis and reporting for several surveillance programmes running in Italy (active and passive surveillance of BSE, scrapie, chronic wasting disease, MBM in feed, CNS in meat); those activities need the co-operation of a team of ten people led by G.R. in Torino working with laboratories throughout Italy.

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

To carry out statistical analysis he is a current user of the STATA statistical software and of other similar packages (Epi Info, R, WinEpiScope). He has excellent knowledge of word processors, spreadsheets, presentation programs and database software (e.g. Microsoft Office suite).

ARTISTIC SKILLS AND COMPETENCES

Music, writing, design, etc.

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OTHER SKILLS AND COMPETENCES

Competences not mentioned above.

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DRIVING LICENCE(S)
ADDITIONAL INFORMATION

Yes

He is author or coauthors of 41 scientific English papers indexed on Medline (46 in Web of Science).

His H index is 12.

Papers in English indexed in Medline:

- 1: Bianchi DM, Ingravalle F, Adriano D, Gallina S, Gramaglia M, Zuccon F, Astegiano S, Bellio A, Macori G, Ru G, Decastelli L. Reproducibility study for the detection of Staphylococcal enterotoxins in dairy products between official Italian national laboratories. *J Food Prot.* 2014 Jun;77(6):999-1004. doi: 10.4315/0362-028X.JFP-13-291. PubMed PMID: 24853525.
- 2: Colussi S, Prearo M, Bertuzzi SA, Scanzio T, Peletto S, Favaro L, Modesto P, Maniaci MG, Ru G, Desiato R, Acutis PL. Association of a specific major histocompatibility complex class IIβ single nucleotide polymorphism with resistance to lactococcosis in rainbow trout, *Oncorhynchus mykiss* (Walbaum). *J Fish Dis.* 2014 Jan 8. doi: 10.1111/jfd.12193. [Epub ahead of print] PubMed PMID: 24397583.
- 3: Ru G, Moda G, Chiavacci L. Bovine TB control: valuable insights from countries on steps toward eradication. *Vet Rec.* 2013 Mar 23;172(12):310-1. doi: 10.1136/vr.f1347. PubMed PMID: 23525815.
- 4: Wassenhove, W. Van, Dressel, K., Perazzini, A., & Ru, G. Risk communication: the European Commission TSE roadmap model for policy relaxation. *International Journal of Risk Assessment and Management*, 2012, 16.4: 213-226.
- 5: Wassenhove, W. Van, et al. A comparative study of stakeholder risk perception and risk communication in Europe: a bovine spongiform encephalopathy case study. *Journal of Risk Research*, 2012, 15.6: 565-582.
- 6: Bertolini S, Maurella C, Bona C, Ingravalle F, Desiato R, Baioni E, Chiavacci L, Caramelli M, Ru G. A relevant long-term impact of the circulation of a potentially contaminated vaccine on the distribution of scrapie in Italy. Results from a retrospective cohort study. *Vet Res.* 2012 Aug 28;43:63. doi: 10.1186/1297-9716-43-63. PubMed PMID: 22928815; PubMed Central PMCID: PMC3485622.
- 7: Ru G. Still a risk of mad cows? The need for epidemiological studies. *Vet Rec.* 2012 Apr 14;170(15):387-8. doi: 10.1136/vr.e2582. PubMed PMID: 22505485.
- 8: Dressel K, Perazzini A, Ru G, Van Wassenhove W. Public risk perception of relaxation of transmissible spongiform encephalopathies (TSE) measures in Europe. *J Toxicol Environ Health A.* 2011;74(22-24):1636-49. doi: 10.1080/15287394.2011.618989. PubMed PMID: 22043919.
- 9: Bozzetta E, Nappi R, Crudeli S, Meloni D, Varello K, Loprevite D, Melis PG, Mazza M, Colussi S, Ingravalle F, Ru G, Nonno R, Ligios C. Comparative performance of three TSE rapid tests for surveillance in healthy sheep affected by scrapie. *J Virol Methods.* 2011 May;173(2):161-8. doi: 10.1016/j.jviromet.2011.01.008. Epub 2011 Jan 21. PubMed PMID: 21256871.
- 10: Crescio MI, Forastiere F, Maurella C, Ingravalle F, Ru G. Heat-related mortality in dairy cattle: A case crossover study. *Prev Vet Med.* 2010 Dec 1;97(3-4):191-7. doi: 10.1016/j.prevetmed.2010.09.004. Epub 2010 Oct 8. PubMed PMID: 20934230.
- 11: Ducrot C, Sala C, Ru G, de Koeijer A, Sheridan H, Saegerman C, Selhorst T, Arnold M, Polak MP, Calavas D. Modelling BSE trend over time in Europe, a risk assessment perspective. *Eur J Epidemiol.* 2010 Jun;25(6):411-9. doi: 10.1007/s10654-010-9455-3. Epub 2010 Apr 13. PubMed PMID: 20386960.
- 12: Fediaevsky A, Maurella C, Nöremark M, Ingravalle F, Thorgeirsdottir S, Orge L, Poizat R, Hautaniemi M, Liam B, Calavas D, Ru G, Hopp P. The prevalence of atypical scrapie in sheep from positive flocks is not higher than in the general sheep population in 11 European countries. *BMC Vet Res.* 2010 Feb 7;6:9. doi:

10.1186/1746-6148-6-9. PubMed PMID: 20137097; PubMed Central PMCID: PMC2832631.

13: Vascellari M, Baioni E, Ru G, Carminato A, Mutinelli F. Animal tumour registry of two provinces in northern Italy: incidence of spontaneous tumours in dogs and cats. *BMC Vet Res.* 2009 Oct 13;5:39. doi: 10.1186/1746-6148-5-39. PubMed PMID: 19825169; PubMed Central PMCID: PMC2763881.

14: Sala C, Ru G. Time trends in exposure of cattle to bovine spongiform encephalopathy and cohort effect in France and Italy: value of the classical Age-Period-Cohort approach. *BMC Vet Res.* 2009 Sep 18;5:34. doi: 10.1186/1746-6148-5-34. PubMed PMID: 19761625; PubMed Central PMCID: PMC2758858.

15: Nappi R, Ingravalle F, Di Vietro D, Ru G, Bozzetta E. Interlaboratory trial on TSE rapid tests for the control of the Italian scrapie surveillance network. *Vet Microbiol.* 2009 Oct 20;139(1-2):126-31. doi: 10.1016/j.vetmic.2009.04.019. Epub 2009 Apr 19. PubMed PMID: 19457624.

16: Colussi S, Vaccari G, Maurella C, Bona C, Lorenzetti R, Troiano P, Casalnuovo F, Di Sarno A, Maniaci MG, Zuccon F, Nonno R, Casalone C, Mazza M, Ru G, Caramelli M, Agrimi U, Acutis PL. Histidine at codon 154 of the prion protein gene is a risk factor for Nor98 scrapie in goats. *J Gen Virol.* 2008 Dec;89(Pt 12):3173-6. doi: 10.1099/vir.0.2008/004150-0. PubMed PMID: 19008408.

17: Fediaevsky A, Tongue SC, Nöremark M, Calavas D, Ru G, Hopp P. A descriptive study of the prevalence of atypical and classical scrapie in sheep in 20 European countries. *BMC Vet Res.* 2008 Jun 10;4:19. doi: 10.1186/1746-6148-4-19. PubMed PMID: 18544152; PubMed Central PMCID: PMC2442063.

18: Lai J, Ru G, Ingravalle F, Choiseul J, Jørgensen JS, Millan MB, Vancutsem J, Wernitznig F, Marchis D, Decastelli L. European interlaboratory trial regarding the official microscopic method for the detection of the presence of animal constituents in feedstuffs. *J Food Prot.* 2008 Mar;71(3):578-83. PubMed PMID: 18389703.

19: Ru G, Maurella C, Ponti AM, Ingravalle F, Caramelli M. Epidemiological study of the decline of BSE in Italy. *Vet Rec.* 2007 Oct 13;161(15):511-4. PubMed PMID: 17938408.

20: Del Rio Vilas VJ, Hopp P, Nunes T, Ru G, Sivam K, Ortiz-Pelaez A. Explaining the heterogeneous scrapie surveillance figures across Europe: a meta-regression approach. *BMC Vet Res.* 2007 Jun 28;3:13. PubMed PMID: 17598881; PubMed Central PMCID: PMC1924846.

21: Bertazzolo W, Comazzi S, Sesso L, Scarpa P, Ru G, Paltrinieri S. Comparison of methods for determining platelet numbers and volume in Cavalier King Charles spaniels. *J Small Anim Pract.* 2007 Oct;48(10):556-61. Epub 2007 Jun 2. Erratum in: *J Small Anim Pract.* 2007 Dec;48(12):716. PubMed PMID: 17543023.

22: Salamano G, Mellia E, Candiani D, Ingravalle F, Bruno R, Ru G, Doglione L. Changes in haptoglobin, C-reactive protein and pig-MAP during a housing period following long distance transport in swine. *Vet J.* 2008 Jul;177(1):110-5. Epub 2007 May 16. PubMed PMID: 17509918.

23: Ingravalle F, Abete MC, Crescio MI, Ru G. Detection of animal-derived proteins in feedstuffs in Italy: a reproducibility study. *J Food Prot.* 2007 Apr;70(4):986-90. PubMed PMID: 17477271.

24: Acutis PL, Martucci F, Mazza M, Nodari S, Maurella C, Ru G, Casalone C, Caramelli M. Molecular typing of transmissible spongiform encephalopathy from Italian disease outbreaks in small ruminants. *Vet Rec.* 2006 Nov 25;159(22):746-7. PubMed PMID: 17127759.

25: Bozzetta E, Nappi R, Ru G, Negro M, Maurella C, Caramelli M. Evaluation of an enzyme immunoassay for the detection of central nervous system tissue contamination at the slaughterhouse. *J Food Prot.* 2006 Sep;69(9):2289-92. PubMed PMID: 16995540.

26: Ligios C, Cancedda MG, Madau L, Santucci C, Maestrone C, Agrimi U, Ru G, Di Guardo G. PrP(Sc) deposition in nervous tissues without lymphoid tissue involvement is frequently found in ARQ/ARQ Sarda breed sheep preclinically affected with natural scrapie. *Arch Virol.* 2006 Oct;151(10):2007-20. Epub 2006

Apr 20. PubMed PMID: 16625322.

27: Acutis PL, Bossers A, Priem J, Riina MV, Peletto S, Mazza M, Casalone C, Forloni G, Ru G, Caramelli M. Identification of prion protein gene polymorphisms in goats from Italian scrapie outbreaks. *J Gen Virol.* 2006 Apr;87(Pt 4):1029-33. PubMed PMID: 16528054.

28: Caramelli M, Ru G, Acutis P, Forloni G. Prion diseases: current understanding of epidemiology and pathogenesis, and therapeutic advances. *CNS Drugs.* 2006;20(1):15-28. Review. PubMed PMID: 16396521.

29: Casalone C, Corona C, Crescio MI, Martucci F, Mazza M, Ru G, Bozzetta E, Acutis PL, Caramelli M. Pathological prion protein in the tongues of sheep infected with naturally occurring scrapie. *J Virol.* 2005 May;79(9):5847-9. PubMed PMID: 15827199; PubMed Central PMCID: PMC1082725.

30: Decastelli L, Ru G, Brizio G, Gentile D, Gallina S, Caprioli A. Failure to isolate *Escherichia coli* O157 from pigs fed with bovine whey. *Vet Rec.* 2004 Sep 11;155(11):337-8. PubMed PMID: 15470972.

31: Acutis PL, Sbaiz L, Verburg F, Riina MV, Ru G, Moda G, Caramelli M, Bossers A. Low frequency of the scrapie resistance-associated allele and presence of lysine-171 allele of the prion protein gene in Italian Biellese ovine breed. *J Gen Virol.* 2004 Oct;85(Pt 10):3165-72. PubMed PMID: 15448380.

32: Beghi E, Gandolfo C, Ferrarese C, Rizzuto N, Poli G, Tonini MC, Vita G, Leone M, Logroscino G, Granieri E, Salemi G, Savettieri G, Frattola L, Ru G, Mancardi GL, Messina C. Bovine spongiform encephalopathy and Creutzfeldt-Jakob disease: facts and uncertainties underlying the causal link between animal and human diseases. *Neurol Sci.* 2004 Jul;25(3):122-9. Review. PubMed PMID: 15300459.

33: Caramelli M, Acutis P, Bozzetta E, Casalone C, Gagna C, Ru G. Bovine spongiform encephalopathy in Italian herds. *Vet Rec.* 2003 Dec 6;153(23):711-2. PubMed PMID: 14690075.

34: Caramelli M, Acutis P, Bozzetta E, Casalone C, Gagna C, Ingravalle F, Ru G. The role of CEA (Center of Animal Encephalopathies) in the BSE surveillance: BSE in Italy. *Vet Res Commun.* 2003 Sep;27 Suppl 1:29-30. PubMed PMID: 14535365.

35: Bozzetta E, Caramelli M, Casalone C, Acutis PL, Ru G. BSE surveillance in Italy: neuropathological findings in cattle in the frame of the passive surveillance programme. *J Vet Med A Physiol Pathol Clin Med.* 2003 Feb;50(1):48-9. PubMed PMID: 12650509.

36: Caramelli M, Ru G, Casalone C, Bozzetta E, Acutis PL, Calella A, Forloni G. Evidence for the transmission of scrapie to sheep and goats from a vaccine against *Mycoplasma agalactiae*. *Vet Rec.* 2001 Apr 28;148(17):531-6. PubMed PMID: 11354646.

37: Agrimi U, Ru G, Cardone F, Pocchiari M, Caramelli M. Epidemic of transmissible spongiform encephalopathy in sheep and goats in Italy. *Lancet.* 1999 Feb 13;353(9152):560-1. PubMed PMID: 10028993.

38: Castagnaro M, De Maria R, Bozzetta E, Ru G, Casalone C, Biolatti B, Caramelli M. Ki-67 index as indicator of the post-surgical prognosis in feline mammary carcinomas. *Res Vet Sci.* 1998 Nov-Dec;65(3):223-6. PubMed PMID: 9915147.

39: Gagna C, Meier D, Ru G, Pospischil A, Guarda F. Pathology of mitral valve in regularly slaughtered pigs: an abattoir survey on the occurrence of myxoid degeneration (endocardiosis), fibrosis and valvulitis. *Zentralbl Veterinarmed A.* 1998 Sep;45(6-7):383-95. PubMed PMID: 9793469.

40: Ru G, Terracini B, Glickman LT. Host related risk factors for canine osteosarcoma. *Vet J.* 1998 Jul;156(1):31-9. PubMed PMID: 9691849.

41: Castagnaro M, Casalone C, Ru G, Nervi GC, Bozzetta E, Caramelli M. Argyrophilic nucleolar organiser regions (AgNORs) count as indicator of post-surgical prognosis in feline mammary carcinomas. *Res Vet Sci.* 1998 Mar-Apr;64(2):97-100. PubMed PMID: 9625463.

