

PERSONAL INFORMATION

Annapaola Rizzoli, DVM, PhD



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🌐 <http://www.fmach.it/CRI/info-general/organizzazione/Biodiversita-ed-Ecologia-Molecolare/Gruppo-Ricerca-Ecologia-Animale/Rizzoli-Annapaola>

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BIO SKETCH

Annapaola Rizzoli is a One Health Doctor in Veterinary Medicine. Her major scientific interest and expertise is in the field of global changes, sustainable development, ecology and management of wildlife, parasitic and infectious diseases ecology and control, food safety and quality, epidemiology and risk assessment of emerging zoonotic diseases associated with climate change, land use changes and biodiversity loss. She started her career working as researcher and project manager first for the natural park Adamello Brenta in the province of Trento (I), than for the Centre for Alpine Ecology that she co-founded and directed till the merging of this centre within the Edmund Mach Foundation, both research institutions of the Autonomous Province of Trento (<http://cri.fmach.eu/>). She worked in this field integrating her education in veterinary medicine with interdisciplinary courses and training in other disciplines, especially biology, ecology, epidemiology, spatial and mathematical modelling. She coordinated and carried out several research projects on the impact of global changes on zoonotic diseases emergence, invasive alien species and pest management at national and international level. Her research work was supported also by competitive research funds provided by the Autonomous Province of Trento (i.e. Laboratory of Excellence in epidemiology and Modelling; www.lexem.eu) as well as international agencies, as ECDC, and the European Commission (i.e. EDEN <http://www.eden-fp6project.net/>; EDENext <http://www.edenext.eu/>; Eurowestnile <http://www.eurowestnile.org/>). She is Assistant Editor of the Journal of Wildlife Diseases and the International Journal of Parasitology, Parasites and Wildlife other than member of international scientific society such as the Wildlife Diseases Association (WDA USA) and EcoHealth (International Association for Ecology and Health,USA).

WORK EXPERIENCE

- From February 2016 Position held: Director of the Research and Innovation Centre
- Name and address of the employer : Azienda Provinciale Servizi Sanitari di Trento seconded at Edmund Mach Foundation, Research and Innovation Centre, via Mach 1, 38010, S. Michele all' Adige (TN), Italy
- Type of business or sector: Direction of a research body, administration and management
- From 2011 to 2015 Position held: DVM, PhD, Head of the Animal Ecology Research Group, Department of Biodiversity and Molecular Ecology
- Name and address of the employer : Azienda Provinciale Servizi Sanitari di Trento seconded at Edmund Mach Foundation, Research and Innovation Centre, via Mach 1, 38010, S. Michele all' Adige (TN), Italy
- Type of business or sector: Basic and applied research; interdisciplinary group scientific coordination, research management, national and international FP7 scientific coordination and management (www.lexem.eu; www.eurowestnile.org, www.edenext.eu)
- From 2009 to 2010 Position held: DVM, PhD, Head of the Environment Area FEM/CRI
- Name and address of the employer : Azienda Provinciale Servizi Sanitari di Trento seconded at Edmund Mach Foundation, Research and Innovation Centre, via Mach 1, 38010, S. Michele all' Adige (TN), Italy
- Type of business or sector: Basic and applied research; interdisciplinary group scientific coordination, research management
- From 2007 to 2009 Position held: Director
- Name and address of the employer : Centre for Alpine Ecology, Viote del Monte Bondone (TN) (**ranked among the best 10 research institute in Italy. Scientometrics (2011) 88:599–615 DOI 10.1007/s11192-011-0406-x**)
- Type of business or sector: Direction of a research body, administration and management

From 1993 to 2007 Position held: DVM, PhD, Head of the wildlife ecology and epidemiology group, direction, coordination and research in the field of wildlife diseases ecology and epidemiology
Name and address of the employer : Centre for Alpine Ecology, Viote del Monte Bondone (TN)
Type of business or sector: Basic and applied research, research management and research groups scientific coordination

From 1990 to 1992 Position held: DVM, research fellow
Name and address of the employer : Parco Adamello Brenta, Strembo (Italy)
Type of business or sector: Basic and applied research on wildlife disease ecology and management

EDUCATION AND TRAINING

- 1995 Ph. D in animal ecology, parasitology and epidemiology
Education or training organisation's name: Institute for General Pathology and Parasitology, University of Milan (Italy)
Title of the dissertation: Domestic and wild animal comparative pathology. Physiopathological investigation on wild ungulates: macroparasites-host interaction in chamois (*Rupicapra rupicapra* L.). Supervisor: Prof. C. Genchi /prof. G Mandelli
- 1989 B.Sc in Veterinary Medicine
Education or training organisation's name: Institute for Animal Pathology, University of Milan (Italy)
Title of the dissertation: Lung parasites in wild ungulates: histopathological findings. Supervisor: Prof. G. Mandelli
Score : 110/110
- 1982 High school diploma. Education or training organisation's name: Liceo Scientifico Galileo Galilei, Trento/ Quinquennio unico sperimentale (QUS), Cavalese (TN, Italy)

ADDITIONAL COURSES AND TRAINING

- 1990 Wildlife conservation and disease management. Istituto per la qualificazione e l'aggiornamento tecnico-professionale in agricoltura di Brescia.
- 1991 Wildlife diseases management. Facoltà di Medicina Veterinaria dell'Università di Torino.
- 1991 Wildlife conservation in Protected areas. Parco Nazionale d'Abruzzo/Coordinamento Nazionale Parchi e Riserve Naturali; Pescasseroli (Aq)
- 1996 Winter School on population dynamics Research Institute of the Sticing Matematich Centrum, Woudschoten, Amsterdam.
- 1996 Third autumn workshop on mathematical ecology, International Centre for Theoretical Physics, Trieste.
- 1998 Vector ecology and epidemiology. Istituto Superiore di Sanità (Roma).
- 2003 Epidemiology of Infectious Diseases, Imperial College, Londra.
- 2006 Molecular biology and public health. Università Cattolica Sacro Cuore, Facoltà di Medicina e Chirurgia "Agostino Gemelli", Roma.
- 2007 Wildlife anesthesia, capture and handling, Austin, Texas
- 2001-date** Several courses ECM (Continuous Education in Medicine: Programma nazionale di formazione continua degli operatori sanitari (ECM))

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user CAE certificate	Proficient user	Proficient user
Spanish	Basic user	Basic user	Basic user	Basic user	Basic user

Communication skills

- Very good written, verbal communication and presentation skills gained through my experience as scientist and research project coordinator at local, national and international level

Organisational / managerial skills

- Long term experience in personnel coordination and management; research projects management processes: plan, execution and project delivery respecting deadlines; building high performing national and international teams; monitoring and measuring personnel performance; able to concisely summarise complex issues; ability to prioritise between projects; strong negotiating, listening and interpersonal skills; ability in finding and negotiating win, win solutions; good understanding of current and future technology trends; can adapt to a fast paced changing environment; willing to make new experiences and attend training sessions to further develop knowledge and skills; ability to think and act proactively; assertive in interpersonal relationships; willingness to travel internationally; detailed oriented and well organized; self-motivated and energetic in approach to work

Job-related skills

- Emerging wildlife disease ecology, epidemiology and management; parasitology; ecology of zoonoses; vector borne diseases; molecular epidemiology, animal ecology; pest management
- Risk assessment, risk management
- Food security and quality
- Climate change: impact and adaptation strategies
- Biodiversity and ecosystem services
- Aliens species ecology and control
- Natural resources management
- Sustainable development

Computer skills ▪ Good command of Microsoft Office™ tools, SAP, R;

Driving licence ▪ B

ADDITIONAL INFORMATION

WOS-ISI and peer reviews publications

- 83 Marini G, Guzzetta G, Baldacchino F, Arnoldi D, Montarsi F, Capelli G, **Rizzoli A**, Merler S, Rosà R. The effect of interspecific competition on the temporal dynamics of *Aedes albopictus* and *Culex pipiens* Parasit Vectors. 2017 Feb 23;10(1):102. doi: 10.1186/s13071-017-2041-8.
- 82 Guzzetta G, Tagliapietra V, Perkins SE, Hauffe HC, Poletti P, Merler S, Rizzoli A. Population dynamics of wild rodents induce stochastic fadeouts of a zoonotic pathogen. J Anim Ecol. 2017 Feb 19. doi: 10.1111/1365-2656.12653
- 81 Rocchini D, Garzon-Lopez CX, Marcantonio M, Amici V, Bacaro G, Bastin L, Brummitt N, Chiarucci A, Foody GM, Hauffe HC, He KS, Ricotta C, Rizzoli A, Rosà R. Anticipating species distributions: Handling sampling effort bias under a Bayesian framework. Sci Total Environ. 2017 Feb 7. pii: S0048-9697(16)32723-1. doi: 10.1016/j.scitotenv.2016.12.038.
- 80 Collini M, Albonico F, Rosà R, Tagliapietra V, Arnoldi D, Conterno L, Rossi C, Mortarino M, Rizzoli A, Hauffe HC. Identification of *Ixodes ricinus* blood meals using an automated protocol with high resolution melting analysis (HRMA) reveals the importance of domestic dogs as larval tick hosts in Italian alpine forests. Parasit Vectors. 2016 Dec 12;9(1):638.
- 79 Margos G, Marosevic D, Cutler S, Derdakova M, Diuk-Wasser M, Emler S, Fish D, Gray J, Hunfeld KP, Jaulhac B, Kahl O, Kovalev S, Kraiczy P, Lane RS, Lienhard R, Lindgren PE, Ogden N, Ornstein K, Rupprecht T, Schwartz I, Sing A, Straubinger RK, Strle F, Voordouw M, Rizzoli A, Stevenson B, Fingerle V. There is inadequate evidence to support the division of the genus *Borrelia*. Int J Syst Evol Microbiol. 2016 Dec 8. doi: 10.1099/ijsem.0.001717. [
- 78 Martina BE, Barzon L, Pijlman GP, de la Fuente J, Rizzoli A, Wammes LJ, Takken W, van Rij RP, Papa A. Human to human transmission of arthropod-borne pathogens. Curr Opin Virol. 2017 Feb;22:13-21. doi: 10.1016/j.coviro.2016.11.005. Review.

- 77 Baldacchino F, Bussola F, Arnoldi D, Marcantonio M, Montarsi F, Capelli G, Rosà R, Rizzoli A. An integrated pest control strategy against the Asian tiger mosquito in northern Italy: a case study. *Pest Manag Sci*. 2017 Jan;73(1):87-93. doi: 10.1002/ps.4417.
- 76 Guzzetta, G.; Poletti, P.; Montarsi, F.; et al. Assessing the potential risk of Zika virus epidemics in temperate areas with established *Aedes albopictus* populations *Eurosurveillance* Volume: 21 Issue: 15 Pages: 5-10 Published: APR 14 2016
- 75 Moustafa, Mohamed Abdallah Mohamed; Taylor, Kyle; Nakao, Ryo; et al. Dynamics, co-infections and characteristics of zoonotic tick-borne pathogens in Hokkaido small mammals, Japan. *Ticks and tick-borne diseases* Volume: 7 Issue: 5 Pages: 922-8 Published: 2016-Jul
- 74 Carpi, Giovanna; Kitchen, Andrew; Kim, Hie Lim; et al. Mitogenomes reveal diversity of the European Lyme borreliosis vector *Ixodes ricinus* in Italy. *Molecular Phylogenetics and Evolution* Volume: 101 Pages: 194-202 Published: AUG 2016
- 73 Guzzetta, Giorgio; Montarsi, Fabrizio; Baldacchino, Frederic Alexandre; et al. Potential Risk of Dengue and Chikungunya Outbreaks in Northern Italy Based on a Population Model of *Aedes albopictus* (Diptera: Culicidae). *PLoS neglected tropical diseases* Volume: 10 Issue: 6 Pages: e0004762 Published: 2016-Jun
- 72 Marcantonio M, Metz M, Baldacchino F, Arnoldi D, Montarsi F, Capelli G, Carlin S, Neteler M, Rizzoli A. First assessment of potential distribution and dispersal capacity of the emerging invasive mosquito *Aedes koreicus* in Northeast Italy. *Parasit Vectors*. 2016 Feb 3;9(1):63. doi: 10.1186/s13071-016-1340-9.
- 71 Vayssier-Taussat M, Kazimirova M, Hubalek Z, Hornok S, Farkas R, Cosson JF, Bonnet S, Vourch G, Gasqui P, Mihalca AD, Plantard O, Silaghi C, Cutler S, Rizzoli A. Emerging horizons for tick-borne pathogens: from the "one pathogen-one disease" vision to the pathobiome paradigm. *Future microbiology* *Future Microbiol*. 2015 Dec;10:2033-43. doi: 10.2217/fmb.15.114. Epub 2015 Nov 19.
- 70 Di Luca M., Toma L., Boccolini D., Severini L., La Rosa G., Minelli G., Bongiorno G., Montarsi F., Arnoldi D., Capelli G., Rizzoli A., Romi R. Ecological distribution and Cq11 genetic structure of *Culex pipiens* complex (Diptera: Culicidae) in Italy. *Plos One* *PLoS One*. 2016 Jan 7;11(1):e0146476. doi: 10.1371/journal.pone.0146476. eCollection 2016.
- 69 Montarsi F, Drago A., Martini S., Calzolari M., De Filippo F., Mazzucato M., Ciocchetta S., Arnoldi D, Baldacchino F., Rizzoli A., Capelli G. Current distribution of the invasive mosquito species, *Aedes koreicus* [*Hulecoeteomyia koreica*] in northern Italy *Parasites & Vectors*, 2015 Dec 1;8(1):614. doi: 10.1186/s13071-015-1208-4.
- 68 Danesi P, Da Rold G, Rizzoli A., Hauffe H.C., Marangon S., Samerpitak F.G., Demanche C., Guillot J., Capelli G., De Hoog G. Barcoding markers for *Pneumocystis* species in wildlife, *Fungal Biology* (2015), <http://dx.doi.org/10.1016/j.funbio.2015.08.019>
- 67 Ezenwa V., Prieur-Richard A-H, Roche B, Becquart P, Bailly X, García-Peña G, Hosseini P, Keesing F, Rizzoli A, Suzán G, Vignuzzi M, Vittecoq M, Mills J and Guégan JF. Interdisciplinarity and infectious diseases: an Ebola case study. *PLoS Pathog*. 2015 Aug 6;11(8):e1004992. doi: 10.1371/journal.ppat.1004992. eCollection 2015 Aug.

- 66 Rizzoli A, Tagliapietra V, Rosà R, Hauffe HC, Marini G, Voutilainen L, Sironen T, Rossi C, Arnoldi D, Henttonen H. Recent increase in prevalence of antibodies to Dobrava-Belgrade virus (DOBV) in yellow-necked mice in northern Italy. *Epidemiol Infect.* 2015 Jul;143(10):2241-4. doi: 10.1017/S0950268814003525.
- 65 Baldacchino F, Caputo B, Chandre F, Drago A, Della Torre A, Montarsi F, Rizzoli A. Control methods against invasive *Aedes* mosquitoes in Europe: a review. *Pest Manag Sci.* 2015 May 21. doi: 10.1002/ps.4044.
- 64 Rizzoli A, Bolzoni L, Chadwick E, Capelli G, Montarsi F, Grisenti M, Martínez de la Puente J, Muñoz J, Figuerola J, Soriguer R, Anfora G, Di Luca M, Rosa R. (2015). Understanding West Nile virus ecology in Europe: *Culex pipiens* host feeding preference in a hotspot of virus emergence. *Parasit Vectors.* 2015 Apr 9;8(1):213.
- 63 Rizzoli A, Jimenez-Clavero MA, Barzon L, Cordioli P, Figuerola J, Koraka P, Martina B, Moreno A, Nowotny N, Pardigon N, Sanders N, Ulbert S, Tenorio A (2015). The challenge of West Nile virus in Europe: knowledge gaps and research priorities. *Euro Surveillance, Euro Surveill.* 2015 May 21;20(20). pii: 21135.
- 62 Marcantonio M., Rizzoli A., Metz M., Rosà R., Marini G., Chadwick E.A., Neteler N. Identifying the environmental conditions favouring West Nile virus outbreaks in Europe. *PloS One.* 2015 Mar 24;10(3):e0121158. doi: 10.1371/journal.pone.0121158.
- 61 Martínez-de la Puente J., Muñoz J., Capelli G., Montarsi F., Soriguer R., Arnoldi D., Rizzoli A., Figuerola J., Avian malaria parasites in the last supper: identifying encounters between parasites and the invasive Asian mosquito tiger and native mosquito species in Italy. *Malaria Journal* 2015, 14:32 doi:10.1186/s12936-015-0571-0
- 60 Suzan G., García-Peña G., Castro-Arellano I, Rico O., Rubio A., Tolsá M., Roche B., Hosseini P., Rizzoli. A., Murray K., Zambrana-Torrel C., Aguirre A., Daszak P., Prieur-Richard A., Mills J., Guégan J.F., Vittecoq M., Bailly X. Metacommunity and phylogenetic structure determine wildlife and zoonotic infectious disease patterns in time and space (2015). *Ecology and Evolution*, 5(4), 865-873 DOI: 10.1002/ece3.1404
- 59 Rocchini, D., Andreo, V., Förster, M., Garzon-Lopez, C.X., Gutierrez, A.P., Gillespie, T.W., Hauffe, H.C., He, K.S., Kleinschmit, B., Mairota, P., Marcantonio, M., Metz, M., Nagendra, H., Pareeth, S., Ponti, L., Ricotta, C., Rizzoli, A., Schaab, G., Zebisch, M., Zorer, R., Neteler, M. (2015). Potential of remote sensing to predict species invasions - a modeling perspective. *Progress in Physical Geography*, accepted, in press
- 58 Rizzoli A, Silaghi C, Obiegala A, Rudolf I, Hubálek Z, Földvári G, Plantard O, Vayssier-Taussat M, Bonnet S, Spitalská E, Kazimírová M. *Ixodes ricinus* and Its Transmitted Pathogens in Urban and Peri-Urban Areas in Europe: New Hazards and Relevance for Public Health. *Front Public Health.* 2014 Dec 1;2:251. doi: 10.3389/fpubh.2014.00251. eCollection 2014. Review.

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- 56 Grisenti M, Vázquez A, Herrero L, Cuevas L, Perez-Pastrana E, Arnoldi D, Rosà R, Capelli G, Tenorio A, Sánchez-Seco MP, Rizzoli A. Wide detection of *Aedes flavivirus* in north-eastern Italy, a European hot-spot of emerging mosquito-borne diseases. *J Gen Virol.* 2015, 96: 420-430. doi: 10.1099/vir.0.069625-0
- 55 Rosà R., Marini G., Bolzoni L., Neteler M., Metz M., Delucchi L., Chadiwck E., Balbo L. Mosca A., Giacobini M., Bertolotti L., Rizzoli A. Early warning of West Nile virus mosquito vector: climate and land use models successfully explain phenology and abundance of *Culex pipiens* mosquitoes in north-western Italy. *Parasites & Vectors* 2014 Jun 12;7(1):269. doi: 10.1186/1756-3305-7-269.
- 54 Baráková I, Derdáková M, Carpi G, Rosso F, Collini M, Tagliapietra V, Ramponi C, Hauffe HC, Rizzoli A. 2014 Genetic and Ecologic Variability among *Anaplasma phagocytophilum* Strains, Northern Italy. *Emerg. Infect Dis.* 2014 Jun;20(6):1082-4. doi: 10.3201/eid2006.131023.
- 53 Andreo V, Neteler M, Rocchini D, Provensal C, Levis S, Porcasi X, Rizzoli A, Lanfri M, Scavuzzo M, Pini N, Enria D, Polop J. Estimating Hantavirus Risk in Southern Argentina: A GIS-Based Approach Combining Human Cases and Host Distribution. *Viruses.* 2014 Jan 14;6(1):201-22. doi: 10.3390/v6010201
- 52 Neteler M, Metz M, Rocchini D, Rizzoli A, Flacio E, Engeler L, Guidi V, Lüthy P, Tonolla M. 2013. Is Switzerland Suitable for the Invasion of *Aedes albopictus*? *PLoS One.* 2013 Dec 13;8(12):e82090. doi
- 51 Grisenti M, Arnoldi D, Rizzoli F, Giacobini M, Bertolotti L, Rizzoli A. 2013. Lack of identification of Flaviviruses in oral and cloacal swabs from long- and short-distance migratory birds in Trentino-Alto Adige (North-eastern Italy). *Virol J.* 2013 Oct 11;10:306. doi: 10.1186/1743-422X-10-306.
- 50 Medlock JM, Hansford KM, Bormane A, Derdakova M, Estrada-Peña A, George JC, Golovljova I, Jaenson TG, Jensen JK, Jensen PM, Kazimirova M, Oteo JA, Papa A, Pfister K, Plantard O, Randolph SE, Rizzoli A, Santos-Silva MM, Sprong H, Vial L, Hendrickx G, Zeller H, Van Bortel W. Driving forces for changes in geographical distribution of *Ixodes ricinus* ticks in Europe. *Parasit Vectors.* 2013 Jan 2;6:1. doi: 10.1186/1756-3305-6-1.
- 49 Roiz, D, Vazquez, A; Rosso, F; Arnoldi, D; Girardi, M; Cuevas, L; Perez-Pastrana, E; Sanchez-Seco, MP; Tenorio, A; Rizzoli, A 2012 Detection of a new insect flavivirus and isolation of *Aedes flavivirus* in Northern Italy *Parasites & Vectors* Volume: 5 Published: OCT 8 2012

- 48 Roiz D., Vazquez A., Rosà R., Munoz J., Arnoldi D., Rosso F., Figuerola J., Tenorio A., Rizzoli A. 2012. Blood meal analysis, flavivirus screening, and influence of meteorological variables on the dynamics of potential mosquito vectors of West Nile virus in northern Italy. *Journal of Vector Ecology* Volume: 37 Issue: 1 Pages: 20-28 Published: 2012
- 47 Cagnacci F., Bolzoni L., Rosà R., Carpi G., Hauffe H.C., Valent M., Tagliapietre V., Kazimirova M., Koci J., Stanko M., Lukan M., Henttonen H. and Rizzoli A. 2012. Effect of deer density on tick infestation of rodents and the hazard of tick-borne encephalitis. Part I: empirical assessment. *International Journal for Parasitology* 42(2012) 365-372
- 46 Bolzoni L., Rosà R., Cagnacci F. and Rizzoli A. 2012 Effect of deer density on tick infestation of rodents and the hazard of tick-borne encephalitis. Part II: population and infection models. *International Journal for Parasitology* 42(2012) 373-381
- 45 Carpi G., Cagnacci F., Wittekindt NE, Zaho F, Qi J, Tomsho LP., Drautz D., Rizzoli A., Schuster S. 2011. Metagenomic Profile of the Bacterial Communities Associated with *Ixodes ricinus* Ticks. *PLoS ONE* 6(10): e25604. doi:10.1371/journal.pone.0025604
- 44 Markus Neteler, David Roiz, Duccio Rocchini, Cristina Castellani and Annapaola Rizzoli. 2011. Terra and Aqua satellites track tiger mosquito invasion: modelling the potential distribution of *Aedes albopictus* in north-eastern Italy. *International Journal of Health Geographics*, 10:49
- 43 Tagliapietra, V., R. Rosà, D. Arnoldi, F. Cagnacci, G. Capelli, F. Montarsi, H.C. Hauffe, A. Rizzoli. 2011. Saturation deficit and deer density affect questing activity and local abundance of *Ixodes ricinus* (Acari, Ixodidae) in Italy. *Vet. Parasitol.* doi:10.1016/j.vetpar.2011.07.022
- 42 Roiz, D., Neteler, M., Castellani, C., Arnoldi, D., & Rizzoli, A. Climatic factors driving invasion of the tiger mosquito (*Aedes albopictus*) into new areas of Trentino, Northern Italy. *PLoS ONE*, 2011, 6(4), 14800
- 41 Rizzoli, A., Hauffe H.C., Carpi, G., Vourc'h G.I., Neteler, M., & Rosà, R. (2011). Lyme borreliosis in Europe. *Eurosurveillance*, 16(27), 19906.
- 40 R. Rosà, L. Bolzoni, F. Rosso, A. Pugliese, P. J. Hudson and A. Rizzoli. Effect of *Ascaridia compar* infection on rock partridge population dynamics: empirical and theoretical investigations. *Oikos* 001–011, 2011 doi: 10.1111/j.1600-0706.2011.19213.x
- 39 Luong LT, Perkins SE, Grear DA, Rizzoli A, Hudson PJ. The relative importance of host characteristics and co-infection in generating variation in *Heligmosomoides polygyrus* fecundity. *Parasitology*. 2010 Jan 29:1-10.
- 38 Hauffe HC, Niklasson B, Olsson T, Bianchi A, Rizzoli A, Klitz W. Ljungan virus detected in bank voles (*Myodes glareolus*) and yellow-necked mice (*Apodemus flavicollis*) from Northern Italy. *J Wildl Dis*. 2010 Jan;46(1):262-6.

- 37 Roiz D, Rosà R, Arnoldi D, Rizzoli A. Effects of Temperature and Rainfall on the Activity and Dynamics of Host-Seeking *Aedes albopictus* Females in Northern Italy. *Vector Borne Zoonotic Dis.* 2010 Jan 8.
- 36 Sarah E. Randolph, Pedro Anda, Tatjana Avsic-Zupanc, Antra Bormane, László Egyed, Emőke Ferenczi, Ana L. García-Pérez, Lise Gern, Zdenek Hubalek, Maria Kazimirova, Maceij Kondrusik, Kurt Pfister, Annapaola Rizzoli, Veera Vasilenko, Alexandru Vladimirescu, Milda Žygiutienė. Human activities predominate in determining changing incidence of tick-borne encephalitis in Europe. *Euro surveillance: bulletin europeen sur les maladies transmissibles. European communicable disease bulletin* 07/2010; 15(27):pii=19606.
- 35 Roiz D, Vazquez A., Sánchez Seco M., Tenorio A., Rizzoli A., 2009. Detection of novel insect flavivirus sequences integrated in *Aedes albopictus* (Diptera: Culicidae) in Northern Italy. *Virology Journal*, 6:93
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- 31 Tioli S, Cagnacci F, Stradiotto A, Rizzoli A. 2009. Edge Effect on Density Estimates of a Radiotracked Population of Yellow-Necked Mice. *Journal of Wildlife Management*, 73:184-190
- 30 Stradiotto A., Cagnacci F., Delahay R., Tioli S., Nieder L. and Rizzoli A., 2009. Spatial Organization of the Yellow-Necked Mouse: Effects of Density and Resource Availability. *Journal of Mammalogy*, 90(3):704-714. 2009
- 29 Ferrari N, Cattadori IM, Rizzoli A, Hudson P.J. 2009. *Heligmosomoides polygyrus* reduces infestation of *Ixodes ricinus* in free-living yellow-necked mice, *Apodemus flavicollis*. *Parasitology* 136:305-316
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- 27 Rizzoli A. Climate change. Direct and indirect impact on the upsurge of tick borne encephalitis (TBE) in Italy. *IOP Conf. Ser.: Earth Environ. Sci.* 6 142028 [doi:10.1088/1755-1307/6/14/142028](https://doi.org/10.1088/1755-1307/6/14/142028) [doi:10.1088/1755-1307/6/14/142028](https://doi.org/10.1088/1755-1307/6/14/142028)

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Rizzoli A. AERES performance evaluation report for the Institute Pasteur Paris 2011

Hendricks G. Wint W., Rizzoli A et al.. ECDC public tender OJ/2007/04/13 – PROC/2007/003:“Assessment of magnitude and importance of vector-borne diseases in Europe”. Final report 2009.

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Rosà R., Rizzoli A., Pugliese A., Genchi C. e Citterio C. 1997. Modelli per lo studio delle infestazioni endoparassitarie del camoscio (*Rupicapra rupicapra* L.) del Brenta (Trentino, Italia) (Models for macroparasitic infections of chamois (*Rupicapra rupicapra* L.) in the Brenta mountain group (Trentino, Italy)). Report del Centro di Ecologia Alpina 12:1-37

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International recognition and invitations

- 2016 Bill & Melinda Gates Foundation, Grand Challenges Meeting, 24-26 October in London, UK
- 2016 ANTIGONE Dahlem workshop on human-to-human transmission of zoonotic pathogens. January 25-29, 2016 in Bergen aan Zee, The Netherlands.
- 2016 ANR invited Evaluation Committee member " emergent and ré-emergent Diseases - One health " of the Agence Nationale de la Recherche Action plan 2016.
- 2015 ANR invited Evaluation Committee member " emergent and ré-emergent Diseases - One health " of the Agence Nationale de la Recherche Action plan 2016.
- 2015 NutrEvent: where all food actors converge. Lille (Fr) 17th-18th June 2015. Invited Chairman of the One-Health session
- 2015 ERA-Net Anihwa (Animal Health and Welfare) invited projects evaluator
- 2015 ANR, the French National Research Agency , invited projects evaluator
- 2015 FCT, The Portuguese Foundation for Science and Technology, invitation as projects evaluation panel member
- 2014 ANR, the French National Research Agency , invited projects evaluator

- 2014 University of Helsinki, invited PhD dissertation opponent , 19th September
- 2014 ICSU-CNR invited national representative, 10th October
- 2014 AgreenSkills (National Institute for Agricultural Research, France). Nominated reviewer of mobility projects of researchers applying to AgreenSkills fellowships.
- 2014 Invited evaluator of the postdoctoral Fellow renewal submitted to the Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO).
- 2014 Université catholique de Louvain (UCL) (B). Invited member of the PhD dissertation jury
- 2014 Invited projects reviewer by the Polish National Science Centre (P)
- 2013 Invited project reviewer by the Swedish Environmental Protection Agency (S)
- 2013 Invited projects reviewer Italian Ministry of Education, University and Research.
- 2013 Istituto Zooprofilattico delle Venezie. Nominated reviewer of the reseach proposals (RC)
- 2013 Invited projects reviewer by the Polish National Science Centre (P)
- 2012 Diversitas ([wwwdiveristas-international.org](http://www.diveristas-international.org)). Close workshop on biodiversity and diseases emergenge DEBED. New York, Eco-health Alliance
- 2012 Rizzoli A. Joint WDA-EWDA conference. Population health Assessment. Session co-chair and co-organiser, Lyone (France), 22-27 July 2012
- 2012 Istituto Zooprofilattico delle Venezie. Nominated reviewer of the reseach proposals (RC)
- 2011 AERES (Agence d'évaluation de la recherche et de l'enseignement superior, Fr). Nominated member of the evaluation committee of the Pasteur Institute (Paris), Department of Infections and Epidemiology
- 2011 EC-REA. Nominated evaluator of FP7-People_2012_IAPP
- 2011 ECDC European Centre for Diseases Prevention and Control close meeting. Tick borne encephalitis in EU. National Institute of Hygene, Warsaw (Poland), April 2011.
- 2011 ECDC European Centre for Diseases Prevention and Control Invited expert. Close meeting on tick borne diseases, 22-23 november 2011
- 2011 ESGBOR (European scientific group on Lyme borreliosis) invited expert. Close workshop 14-15 november 2011 Wien
- 2010 Diversitas (wwwdiveristas-international.org). Close workshop on biodiversity and diseases emergenge DEBED. Invited expert London, August 2010

- 2010 European Space Agency. Closed workshop: Vecmap IAPP project. December 2010
- 2010 ESF European Science Foundation. Closed workshop. Emergence of vector borne diseases in Europe. London, July 2010
- 2008 Ambasciata Italiana di Varsavia. Invited expert and oral presentation. October 2008.
- 2008 EFSA European Food Safety Agency. Bruxelles October 2008. Assessing the magnitude of tick borne diseases in Europe. Invited expert and oral presentation
- 2008 ECDC European Centre for Disease Prevention and Control. Stockholm June 2008. Assessing the magnitude of tick borne diseases in Europe. Invited expert

Invited oral presentation to conferences and meetings

Rizzoli A. West Nile virus. Invited key note presentation. Grand Challenge meeting, 23-26 October 2016, the Bill & Melinda Gates Foundation, Grand Challenges Canada (GCC), the United States Agency for International Development (USAID), the European Commission, the Wellcome Trust

Rizzoli A. Plenary presentation. What's next in tick and tick borne pathogens research. XII European Multicolloquium of Parasitology EMOP, Turku (FIN), 20-24 July 2016

Rizzoli A. Cambiamenti climatici e perdita di biodiversità. Conseguenze per la nostra salute e per quella dei nostri animali. Museo di Scienze Naturali di Bolzano, 20 ottobre 2015

Rizzoli A. Rischi sanitari connessi alla presenza dell'orso in Trentino. IX Campo scuola degli psicologi delle emergenze della protezione civile. Marco di Rovereto 26 settembre 2015

Rizzoli A. SIDiLV congress. Invited plenary speaker. Ecology of emerging zoonoses. Montesilvano (Te), 30/09-02/10 2015

Rizzoli A. Ecological aspect of tick borne diseases. Invited plenary presentation. Emerging research in ticks and tick borne pathogens, 5-6 March 2015, Lammi Research Station (Finland)

Rizzoli A. V. Tagliapietra, D. Arnoldi, L. Bolzoni, F. Cagnacci, H.C. Hauffe, M. Neteler, C. Rossi, R. Rosà Global changes and rodent-borne diseases in Italy, Istituto Zooprofilattico della Lombardia e dell'Emilia IZLER, Brescia, 28th October 2014

Rizzoli A., Arnoldi D., Barakova I., Cagnacci F., Collini M., Derdakova M., Hauffe H.C., Neteler M., Rosso F., Tagliapietra V., Rosà R. Driving forces for changes in geographical distribution of *Ixodes ricinus* ticks in Europe. Arthropod vectors of diseases in humans and domestic animals in honor of Academician Mario Coluzzi. Università degli Studi di Roma "La Sapienza", Viale dell'Università, Rome, Friday October 3, 2014

Rizzoli A., Arnoldi D., Barakova I., Cagnacci F., Collini M., Derdakova M., Grisenti M., Hauffe H.C., Neteler M., Rosso F., Tagliapietra V., Rosà R. Ecology of some emerging vector borne diseases in Europe: TBE and WNV. University of Helsinki, 18th September 2014

Rizzoli A., Arnoldi D., Barakova I., Cagnacci F., Collini M., Derdakova M., Grisenti M., Hauffe H.C., Neteler M., Rosso F., Tagliapietra V., Rosà R. Ticks as vectors of emerging diseases in Europe. Mary Hopkins Station, Stanford University, 15th July 2014

Rizzoli A., Arnoldi D., Barakova I., Cagnacci F., Collini M., Derdakova M., Grisenti M., Hauffe H.C., Neteler M., Rosso F., Tagliapietra V., Rosà R. Ecology of some emerging vector borne diseases in Europe: West Nile virus and TBE as example UC Davis (USA), 19th July 2014

Rizzoli A., Arnoldi D., Barakova I., Cagnacci F., Collini M., Derdakova M., Hauffe H.C., Neteler M., Rosso F., Tagliapietra V., Rosà R. Risk of transmission of new tick borne pathogens. XXVIII Congresso SOIPA. Roma, 24-27 Giugno 2014

Rizzoli A., Henttonen H. Building an early warning system for tick and rodent borne diseases in Europe: an anthropomes-based approach. FP7 EDENEXT Annual meeting, Rovaniemi (Finland), 26-28 March 2014

Rizzoli A. and Groschup M. Biology and control of tick borne diseases in Europe. Plenary talk. FP7 EDENEXT Annual meeting, Rovaniemi (Finland), 26-28 March 2014.

Rizzoli A. West Nile virus research in Europe. Progress and gaps. Introductory talk, FP7 projects joint meeting, Madrid, 19 February 2014

Rizzoli A. Eurowestnile project: progress and major results. Eurowestnile project final meeting, Madrid, 17-18 February 2014

Rizzoli A. Advance in tick-borne diseases research in Europe. Plenary talk. FP7 EDENEXT Annual meeting, Barcelona (Spain), March 2013

Rizzoli A. Introductory talk. Third EuroWestNile Project Annual Meeting, Madrid (Spain), March 2013

Rizzoli A. What next? Searching for new vector borne pathogens with high epidemic potential. Symbiome meeting, Fondazione Edmund Mach, San Michele all'Adige (Italy), March 2013

Rizzoli A. Eco-epidemiology of sylvatic tick borne zoonoses. Invited keynote lecture. European College of Veterinary Public Health. Faculty of Veterinary Medicine, Turin (Italy), 19 September 2013

Rizzoli A.; Arnoldi D.; Hauffe, H.C.; Kazimirova, M.; Neteler, M.; Rosà, R.; Rosso, F.; Stanko, M.; Tagliapietra, V.; Voutilainen, L.; Henttonen, H. (2013). Identifying the hazards correlated with rodent and tick-borne diseases in Europe. In: Huitu, O. & Henttonen, H. (eds). 2013. The 9th European Vertebrate Pest Management Conference. Metla: Finnish Forest Research Institute: 48 (O50). 22-27 September 2013.

Rizzoli A. Faculty of Engineering, Trento. Climate change and emerging vector borne diseases, November 2013.

Rizzoli A. EU research collaborations- the Trentino perspective. Climate change and the emerging disease threat to food security. Diet, gut microbiota and health throughout life. Fondazione Edmund Mach, San Michele all'Adige (TN). 16 dicembre 2013

Rizzoli A. Emerging *Ixodes ricinus* transmitted pathogenes in Europe: pre-assessment of the public health risk. Plenary talk. FP7 EDENEXT annual meeting, Izmir (Turkey), March 2012.

Rizzoli A. Introductory talk. Second EuroWestNile Project Meeting, Brescia (Italy), March 2012.

Rizzoli A. Le zoonosi emergenti trasmesse da zecche in Europa. "Da Schmallenberg a Torino: viaggio tra le malattie trasmesse da zanzare e zecche". Istituto zooprofilattico sperimentale del Piemonte, Liguria e Valle d'Aosta (Italy), 7-8 June 2012

Rizzoli A., Henttonen H., Ducheyne E., Hauffe H.C., Hendrickx G., Leirs H., Neteler M., Rosà R., Tagliapietra V., Tersago K., Voutilainen K., Wint W., Lancelot R. Building an early warning system for tick- and rodent-borne diseases in Europe. Rodent and Spatium Conference. Rovanjemi (Finland), 16-20 July 2012.

Rizzoli A., Cagnacci F., Rosà R., Bolzoni L., Carpi G., Tagliapietra V., Neteler M., Hauffe C. Deer, Eurodeer and wildlife epidemiology. International Eurodeer meeting, San Michele all'Adige, December 2012

Rizzoli A., Groshup M, Pfister K. Tick-borne diseases in Europe. Plenary talk. EDENEXT kick off meeting, Budapest (Hungary), March 2011

Rizzoli A. (speaker and session organizer), Rosà R, Bolzoni L, Carpi G, Cagnacci F, Tagliapietra V, Neteler M, Hauffe H.. Rodent, deer and ticks: how their interaction affects tick-borne diseases emergence and spread. VI European Congress of Mammology. Paris (France), 19-23 July 2011

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Editorial boards

Entomologia . Società Entomologica Italiana e Accademia Nazionale Italiana di Entomologia

International Journal for Parasitology, Parasites and Wildlife (PAW). The Australian Society for Parasitology

Journal of Wildlife Diseases, Associated editor (Wildlife Disease Association, USA)

Memberships, boards and associations

Member of the Wildlife Management Committee, Autonomous Province of Trento

Member of the Accademia Foreste e Fauna del Trentino

Italian Wildlife Diseases Association, SIEF (Italy)

Wildlife Disease Association (USA)

Ecohealth (USA)

Italian Society for Parasitology, SOIPA (Italy)

Competitive Research funds

2016-2019. H2020 project. Zikalliance. A global alliance for Zika virus control and prevention. Role Partner.

2015-2017. NASA (USA). Enhanced data-driven decision support for highly invasive vectors. Role: partner

2015-2017. Ministero della Salute – Ricerca Finalizzata. TBC. Epidemiology and ecosystem studies of mycobacteria in Italy: *M. bovis*, *M. avium* subsp. *paratuberculosis*, *M. microti*. Role: partner

2015- European Centre for Diseases Control. Spatial analyst. Role: partner

2013-2016. Provincia Autonoma di Trento. Bando Gradi Progetti 2012. LExEM. Laboratory of excellence in epidemiology and modelling. Role Coordinator

2013-2016. Centre de Synthèse et d'Analyse sur la Biodiversité CESAB (Fr). BIODIS : Disentangling the linkages between biodiversity and emerging infectious diseases. Role. Partner

2012- 2015 Ministero Salute. Progetti giovani ricercatori. *Aedes albopictus* in northern Italy: molecular markers and mathematical models to predict its potential future spread and the impact of control strategies (RF-2010-2318965). Role: partner

2011-2013. EU IP project funded within the 7th Framework. Eurowestnile (<http://www.eurowestnile.org/>). Scientific coordinator

2011-2014. EU IP project funded within the 7th Framework. EDENext (<http://www.edenext.eu/>). Workpackage leader, member of the Steering Committee

2009-2012. Provincia Autonoma di Trento. Fondo unico per i progetti di ricerca ACE SAP. Sensibilità e potenziale adattativo della biodiversità. Role: partner

2011. Epidemiologic situation analysis of Tick Borne Encephalitis and Rickettsioses in the European Union - Service Contract (Publication Reference: OJ/2010/01/08-PROC/2010/001). Role: partner

2008. ECDC public tender OJ/2007/04/13 – PROC/2007/003: “Assessment of magnitude and importance of vector-borne diseases in Europe. Role: partner

2005-2009. EU IP project funded within the 6th Framework. EDEN (<http://www.edenext.eu/>). Role: partner, national focal point

2001-2003. Provincia Autonoma di Trento. Fondo unico per i progetti di ricerca. ECODIS. Ecologia delle malattie emergenti in Trentino. Role: Coordinator