

ALL. B

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(Codice Concorso 2024POR021)

Alessandra della Torre

Curriculum Vitae ai fini della pubblicazione

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Part II – EDUCATION

Type	Year	Institution	Degree/Role
Post-doctoral training	1993-1994	Institute of Molecular Biology and Biotechnology, Fo.R.T.H., Heraklion, Greece	Human Capital Mobility fellowship (EU)
PhD	1993	Università degli Studi di Roma “La Sapienza”	Microbiology and Epidemiology
University graduation	1987	Università degli Studi di Roma “La Sapienza”	Biological Sciences (Laurea cum laude)

Part III – APPOINTMENTS and QUALIFICATIONS

III/A – Academic Appointments

Start	End	Institution	Position
2013	to date	SAPIENZA, University of Rome	Associate Professor (Professore Associato, PA) in “Parassitologia e Malattie Parassitarie degli Animali” SC 07/H3, SSD VET 06
2000	2013	SAPIENZA, University of Rome	Assistant Professor in Parasitology (Ricercatore Universitario, RU) in “Parassitologia e Malattie Parassitarie degli Animali” SC 07/H3, SSD VET 06
1994	2000	SAPIENZA, University of Rome	Post-Doctoral Research fellow - "Istituto Pasteur - Fondazione Cenci Bolognetti"

III/B – Other Appointments

Start	End	Institution	Position
05-2000	10-2000	SANAMA srl	Scientific Consultant for the control of <i>Aedes albopictus</i> in Rome
10-2018	03-2000	WHO - Collaborating Center for Research and Training in Malaria Epidemiology (Rome, IT)	Contractor

III/C – Qualifications (Abilitazione Scientifica Nazionale)

Year	Qualification
2018	ASN - National Scientific Qualification for the role of Full Professor in “Parassitologia e Malattie Parassitarie degli Animali”, SC 07/H3 SSD VET 06 (valid from 5-11-2018 to 5-11-2024)
2018	ASN - National Scientific Qualification for the role of Full Professor in “Zoologia e Antropologia”, SC 05/B1 SSD (valid from 27-07-2018 to 27-07-2024)
2012	ASN - National Scientific Qualification for the role of Full Professor in “Parassitologia e Malattie Parassitarie degli Animali”, SC 07/H3 SSD VET 06 (valid from 11-12-2013 to 11-12-2024)

Part IV - SOCIETY MEMBERSHIPS and AWARDS

IV/A - Society memberships

Year	Title
2023 to date	Academician of the Italian Academy of Entomology
2007 to date	Member of the Italian Malaria Network (IMN).
1994 to date	Member of the Italian Society of Parasitology (SOIPA)

IV/B - Awards

Year	Title
2012	AWARD 'BATTISTA GRASSI 2012' of the ACCADEMIA NAZIONALE DEI LINCEI (Italy) for "Zoologia, Parassitologia e Talassografia Biologica".
2008	AWARD for BEST PAPER published in the Royal Entomological Society of London Journal 'MEDICAL & VETERINARY ENTOMOLOGY' in 2007/2008"
2001	AWARD for BEST PAPER published in the Royal Entomological Society of London Journal 'INSECT MOLECULAR BIOLOGY' in 2000/2001"

Part V - COMMISSIONS OF TRUST

V/A – Università di Roma SAPIENZA

Year	Title
2023 to date	Vice-Coordinatrice della Commissione Ricerca della Facoltà di Farmacia e Medicina
2020-2023	Membro Giunta della Facoltà di Farmacia e Medicina
2015-2022	Membro Giunta del Dipartimento di Sanità Pubblica e Malattie Infettive
2015-2022	Membro Commissione di Valutazione dei Bandi di Ateneo per Professori Visitatori
2019 e 2020	Membro Commissione di Valutazione dei Bandi di Ateneo Congressi e Convegni
2014 to date	Coordinatrice Gruppo di Lavoro Ricerca del Dipartimento di Sanità Pubblica e Malattie Infettive

V/B – National

Year	Title
2018 to date	Componente del Tavolo Tecnico Intersettoriale sulle malattie trasmesse da vettori del Ministero della Salute , che ha redatto Piano Nazionale di Prevenzione, Sorveglianza e Risposta alle Arbovirosi (PNA) 2020-2025.
2009	Coordinator of Vector Cluster of the Italian Malaria Network (IMN) and reference scientist for Sapienza University

V/C – International

Year	Title
2024 to date	Coordinator of Mosquito Working group within VECTORNET-3 network funded by European Center for Disease Prevention and Control (ECDC) and the European Food Safety Authority (EFSA) to contribute to improving preparedness and response for vector-borne diseases following a ‘One-Health’ approach
2021 to date	Member of the Editorial Board of “INSECTS” (Ranked Q1, JCR 2023)
2014 to date	Member of the Partner Working Group of the <i>Anopheles gambiae</i> 1000 Genome Consortium (MALARIAGEN, coordinated by Oxford University, UK), using whole genome deep sequencing to provide a high-resolution view of genetic variation in natural populations of the major Afrotropical malaria vectors.
2009 to date	Referee for international research funding organizations (e.g. Wellcome Trust, Brazilian Swiss Joint Research, BSJRP Programme)
2003 to date	Expert Evaluator or Vice-Chair of Marie Skłodowska-Curie Actions (Life-Sciences panels), FP6, FP7 and HORIZON Programmes.
2000 to date	Reviewer for a number of Scientific Journals including SCIENCE, PNAS, Scientific Reports, Molecular Ecology, PLoS NTD, PLoS ONE, BMC Infectious Diseases, BMC Evolutionary Biology, Parasite & Vectors, Malaria Journal, Insects.

Part VI – TEACHING

VI/A – Curricular courses at Università di Roma SAPIENZA

Years	Corso di Laurea	Course
2019 to date	CLS in Ecobiologia, LM-6	Ecologia e Biologia Evolutiva dei Parassiti Umani e Zoonotici (già Ecologia delle Malattie Parassitarie) (6 CFU)
2015 to date	CLM - Medicina e chirurgia "B" - Roma Azienda Policlinico Umberto I LM-41	Modulo di Parassitologia (2 CFU), CI Microbiologia
2001 to date	CLM- Medicina e chirurgia "E" - Polo Pontino LM-41	Modulo di Parassitologia (2 CFU), CI Microbiologia
2003 - 2019	CLS, Biotecnologie Mediche, 16070 A	Modulo di Parassitologia Molecolare (3 CFU), CI Virologia e Parassitologia Molecolare
2002 - 2018	Corso di Laurea Triennale in Tecnico di Laboratorio Biomedico, Corso di laurea C - ASL Latina, L/SNT3	Modulo di Parassitologia Diagnostica (2 CFU), CI Metodologie Diagnostiche di Microbiologia
2001-2009	Scuola di Specializzazione in Microbiologia e Virologia	Corso di Entomologia Sanitaria

VI/B – Soft-skill university teaching activities

Years	Seminar Title	University (Audience)
2023, 2022	“Strengths and weaknesses of a project proposal: entering in the evaluator mind for a more successful application”	Transversal soft skills training for doctoral students and young researchers. Università di Roma SAPIENZA
22-11-2013	“Come scrivere una proposta Marie Sklodowska-Curie individuale” (con particolare riferimento al settore LIFE-SCIENCE)	Università di Roma SAPIENZA (Phd students)
08-05-2012	"How to submit an FP7 proposal in People Programme: IEF, IIF and IOF Individual Actions and ITN Network Actions"",	Università di PADOVA (Phd students)

VI/C – Member of “Collegio Docenti Dottorato”

Years	PhD course	University
2023 to date	ONE HEALTH APPROACHES TO INFECTIOUS DISEASES AND LIFE SCIENCE RESEARCH	Università di PAVIA
2006 to date	ADVANCES IN INFECTIOUS DISEASES, MICROBIOLOGY, LEGAL MEDICINE AND PUBLIC HEALTH SCIENCES (previously “Infectious Diseases, Microbiology and Public Health” and “Scienze di Sanità Pubblica e Microbiologia”)	Università di Roma SAPIENZA

VI/D – Supervision of Phd Student

Years	PhD Student	PhD	Current Position
2024-27	Luana Violante	One Health Approaches to Infectious Diseases and Life Science Research, UNIVERSITA' di PAVIA	PhD in progress
2022-25	Fahimeh Badieina	Advances in Infectious Diseases, Microbiology, Legal Medicine and Public Health Sciences, SAPIENZA	PhD in progress
2021-24	Carlo Maria De Marco	Advances in Infectious Diseases, Microbiology, Legal Medicine and Public Health Sciences, SAPIENZA	PhD in progress
2021-24	Martina Micocci	Advances in Infectious Diseases, Microbiology, Legal Medicine and Public Health Sciences, SAPIENZA	PhD in progress
2108-21	Chiara Virgillito	Infectious Diseases, Microbiology and Public Health, SAPIENZA	Assegnista di Ricerca, DSPMI, SAPIENZA
2018-21	Fabrizio Montarsi	Infectious Diseases, Microbiology and Public Health, SAPIENZA	Dirigente biologo, Director Laboratorio entomologia sanitaria e patogeni trasmessi da vettori (SCS3); Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe).
2014-17	Verena Pichler	Infectious Diseases, Microbiology and Public Health, SAPIENZA	Researcher (RTD-A), DSPMI, SAPIENZA
2014-17	Mattia Manica	Infectious Diseases, Microbiology and Public Health, SAPIENZA.	Fondazione Bruno Kessler (FBK), Trento, IT
2013-16	Giordano Bottà	Infectious Diseases, Microbiology and Public Health, SAPIENZA	Co-Founder and CEO of ALLELICA, The Polygenic Risk Score Company, New York, USA
2009-12	Federica Tammaro	Public Health Sciences and Microbiology, SAPIENZA	na
2007-10	Andrea Drago	Public Health Sciences and Microbiology, SAPIENZA	Titolare ENTOSTUDIO srl
2007-10	Francesca Marini	Public Health Sciences and Microbiology, SAPIENZA	Research Leader, BBKA - Biotechnology & Biological Control Agency, Roma
2004-07	Laura Valerio	Public Health Sciences and Microbiology, SAPIENZA	Science Teacher in Italian Secondary School (presently); Insectary Manager at Liverpool School of Tropical Medicine, UK (up to 2019).
2003-06	Luca Facchinelli	Public Health Sciences and Microbiology, SAPIENZA	Programme Manager at Liverpool School of Tropical Medicine, UK
2000-03	Federica Santolamazza	Scienze e Tecnologie per l'Ambiente, la Natura e la Salute dell'Uomo, UNIVERSITÀ DI CAMERINO	Biologist at Italian National Health Institute (ISS), Rome

Part VII –RESEARCH ACTIVITIES

My research activity is focused on medical entomology, with specific regards to mosquito vectors of human and zoonotic diseases from basic to translational science. More in detail, research activities are carried out on two vector/disease models (with the contribution of the Medical Entomology group within the Parasitology Unit of the Department of Public Health and Infectious Diseases I coordinate since year 2000), as follows (Pn codes below refer to the relevant scientific publications indicated according to the codes assigned in the full list of publications. In bold, the 16 publications selected for the present evaluation).

VII/A – Main Research lines

POPULATION GENETICS, PHYLOGENETIC, GENOMICS AND BIONOMICS OF MALARIA VECTORS (most relevant publications between brackets)
<p>The first part of my research activities was mostly focused on the analysis of the incipient speciation process ongoing within the Afrotropical <i>Anopheles gambiae</i> complex and of its effects on malaria epidemiology, leading to seminal contributions, with particular reference to the recognition in 2001 of a new cryptic species (named <i>Anopheles coluzzii</i>) highly efficient as malaria vector (P31, P36, P88). This result was achieved by initially collaborating to the cytogenetic studies led by my PhD supervisor (Prof. Mario Coluzzi) and later applying ecological approaches and molecular tools to the characterization of the different taxonomic units, thanks to specific training received during Post-Doc fellowship in Institute of Molecular Biology and Biotechnology, Fo.R.T.H. (Heraklion, GR). Meanwhile, I contributed to the effort of whole genome sequencing <i>An. gambiae</i> (i.e. the first insect after <i>Drosophila melanogaster</i> to be fully sequenced), which gave the start to the species population genomics (P33, P35). In the last 20 years, I led or co-led international and national research projects on the population and ecological genomics of malaria vector species within the <i>An. gambiae</i> complex, funded by WHO-TDR, EU-FP7 and NIH-USA, Istituto Pasteur – Cenci Bolognetti and Sapienza University. Since 2014, I am member of the Partner Working Group of the <i>Anopheles gambiae</i> 1000 Genome Consortium (Ag1000G, MALARIAGEN, coordinated by Oxford University, UK), using whole genome deep sequencing to provide a high-resolution view of genetic variation in natural populations of the major Afrotropical malaria vectors. This led to relevant network publications (P111, P131, P134, P135) mostly devoted to build a comprehensive catalogue of genomic variation in natural vector populations, to describe the structure and history of vector populations and to connect genomic variation with ecology, malaria epidemiology and the development/optimization of vector control, with particular focus on insecticide resistance mechanisms. In recent years, the research group I am leading also focused on the development of novel approaches to easily genotype chromosomal inversion (P123, P124, P126, P130, P140, P154) and detect genomic admixture between <i>An. coluzzii</i> and <i>An. gambiae</i> (P138), as well as to the understanding of mosquito behavioural factors affecting strategies aimed to reduce malaria transmission in Africa (P116, P127, P149, P142, P150, P152)</p>
Main Scientific Publications in the last 10 years: P154, P152, P150, P149, P142 , P140, P139, P138 , P135, P134, P131 , P130, P127 , P126, P124, P123, P116 , P115, P112, P111 , P109, P108, P107, P104, P98, P97, P95, P94, P93, P92, P91.
Main Past/present collaborating Institutions: Liverpool School of Tropical Medicine, UK; MalariaGene, Ag1000G, Oxford University, UK; Department of Biological Science, University of Notre Dame, US; Department of Ecology and Evolutionary Biology, Yale University, New Haven, US; Centro de Malária e outras Doenças Tropicais, Instituto de Higiene e Medicina Tropical, Lisbon, PT; Institut de Recherche pour le Développement (IRD), Montpellier, FR; Institute of Molecular Biology and Biotechnology of Crete, GR; Department of Biochemistry, Virginia Tech and State University, US; Medical Research Council Laboratories, Banjoul, The Gambia; Insitute Pasteur, Dakar, Senegal; Centre National de Lutte contre le Paludisme, Ouagadougou, Burkina Faso; Malaria Research and Training Center, School of Medicine, University of Bamako, Mali.

BIONOMICS, MONITORING AND CONTROL EUROPEAN CULICIDAE VECTORS OF HUMAN AND ZOONOTIC ARBOVIRUSES (most relevant publications between brackets)

In the last 25 years I have become increasingly interested in studying the bionomics of native and invasive mosquito species in temperate regions (P61, P64, P72, P73, P103,) and in translating research results for improved surveillance and control approaches (P56, P90, P96, P99, P101, **P102**, P105, **P132**, P143, **P151**). Two main more recent focuses of the research activities are the analysis of pyrethroid resistance mechanism in *Aedes albopictus* and *Culex pipiens* (**P157**) and its monitoring in natural populations (P82, P114, P121, P133, P144, **P145**), and the understanding and predictive modelling of arbovirus autochthons transmission of (e.g. Dengue, Chikungunya) in Italy and, more in general, in temperate regions (P110, P113, P117, P118, P119, **P120**, **P122**, P128, P129, P153, P154, P155) These studies were/are led in the framework of international (EU-FP7) and national (MUR-PRIN and Sapienza University) research projects under my coordination. From 2018 to 2023, I chaired the largest network of European researchers focused on invasive mosquitoes, including research groups from 26 countries, which produced the first continental-wide standardised dataset on *Ae. albopictus* by conventional (P136, **P147**) and innovative citizen science-based (P146) monitoring approaches (P148), and the first continental-wide assessment of spreading of alleles associated to resistance to pyrethroids (**P145**). Since 2022, I am the leader of Research Node 2 of the INF-ACT – One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases project (PNNR, Next Generation Europe), which involves the largest majority of research and veterinary public health institutions focusing on arthropod vectors in Italy and several Italian research groups working on arthropod-borne pathogens. The project aims to advance knowledge in the field of vector biology, and to provide innovation in the field of vector monitoring and control and pathogen detection and their interactions with human and vector hosts and their microbiota.

Main Scientific Publications in the last 10 years:

P157, P156, P155, P154, P153, **P151**, P148, **P147**, P146, **P145**, P144, P143, P141, P136, P136, P133, **P132**, P129, P128, **P125**, **P122**, P121, **P120**, P119, P118, P117, P114, P113, P111, P110, P107, P106, P105, P103, **P102**, P101, P100, P99, **P96**, P90.

Main Collaborating Institutions:

Fondazione Edmund Mach, S. Michele all'Adige, Trento, IT; nstitute of Infection and Global Health Liverpool University, UK; Centro de Malária e outras Doenças Tropicais, Instituto de Higiene e Medicina Tropical, Lisbon, PT; Department of Ecology and Evolutionary Biology, Yale University, New Haven, US; Insects and Infectious Disease Unit, Institute Paster Paris, FR; Control of Infectious Diseases Department, Institute of Public Health, Tirana, Albania; Institute of Molecular Biology and Biotechnology of Crete, GR.

VII/B – Funded International Research Grants:

Years	Title	Program	Applicant Role	Grant value to Sapienza Uni
2018-23	Aedes Invasive Mosquito (AIM) COST ACTION	EU - COST (European Cooperation in Science and Technology)	CHAIR	~600.000€
2017-22	Empowering functional genomics of <i>Anopheles gambiae</i> through inversion genotyping	National Institute of Health (NIH-USA)	Co-PI (PI: N. Besansky, University of Notre-Dame, US)	322.020 \$
2011-16	AVECNET - African vector control: new tools	EC-FP7 HEALTH - 2010 - COORDINATION	WP-Leader (PI: H. Ranson, Liverpool School of Tropical Medicine, UK)	508.000 €
2011-16	EDENEXT: Biology and control of vector-borne infections in Europe	EC-FP7 HEALTH-2010 - COORDINATION	WP-Leader (PI: L. Lancelot, CIRAD, FR)	250.800 €
2009-11	MALVECBLOCK: Population biology and molecular genetics of vectorial capacity in <i>Anopheles gambiae</i> : targeting reproductive behaviour and immunity for transmission-refractory interventions	EC-FP7 HEALTH - 2007 - COORDINATION	WP-Leader (PI: E. Levashina, Strasburg University, FR)	314.342 €
2011-14	INFRAVEC: research capacity for the implementation of genetic control of mosquitoes	EC-FP7 HEALTH - 2007 – INFRASTRUCTURES	Investigator (PI: A. Crisanti, Imperial College, UK)	155.000 €
2004-09	Ecological Genomics of <i>Anopheles gambiae</i>	National Institute of Health (NIH-USA)	Co-PI (PI: N. Besansky, University of Notre-Dame, US)	333.500 \$
2002-07	Characterization and organization of transposable elements	National Institute of Health (NIH-USA)	Co-PI (PI: Z. Tu , Virginia Tech & State Univ, US)	121.500 €
2001-04	Molecular & cytological characterization of <i>Anopheles gambiae</i> molecular forms and evaluation of their role as malaria vectors"	World Health Organization, Tropical Diseases Research Division	PI	108.000 \$

VII/C –Funded National Research Grants

Years	Title	Program	Applicant Role	Grant value to Sapienza Uni
2022-25	INF-ACT – One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases (Codice identificativo MUR PE00000007)	MUR - PNRR, Missione 4 “Istruzione e ricerca”, Componente 2, Investimento 1.3, NextGenerationEU	LEADER of Research Node 2 - Arthropod vectors and vector-borne pathogens	1.456.000 € (RN2)
2022-25	PRIMI - Pyrethroid resistance in mosquitoes in Italy	PRIN2022 PNRR MUR, Missione 4 “Istruzione e ricerca”, Componente 2, Investimento 1.1, NextGenerationEU	PI	237.166 € (of which 133.391 € to SAPIENZA)
2022-25	MosqIT - Tackling mosquito vectors of diseases in Italy: from citizen to bench and back	MUR- PRIN2020	PI	674.996 €
2021	Tackling mosquito vectors of diseases in Lazio: from citizen to bench and back	SAPIENZA, Progetti Ateneo Grandi	PI	25.000 €
2020	At the forefront of research on patterns of species formation: the case of the two major incompletely-isolated Afro-tropical malaria vector species and of their adaptation to anthropogenic habitats	SAPIENZA, Progetti Ateneo Medi	PI	10.000 €
2018-20	Exploitation of novel genomic resources to develop molecular tools for genotyping afro-tropical malaria vectors and study ecological speciation	Istituto Pasteur – Fondazione Cenci Bolognetti	PI	60.000 €
2018	Development and validation of novel molecular tools to study ecological speciation in Afro-tropical malaria vectors	SAPIENZA, Progetti Ateneo Piccoli	PI	3.000 €
2017	Enhancing preparedness to public health risks and economic burden associated to invasive mosquitoes in Italy	SAPIENZA, Progetti Ateneo Medi	PI	12.500 €
2016	Metagenomics of microbial communities of Afrotropical malaria vector larval habitats	SAPIENZA, Progetti Ateneo Medi	PI	9,800 €
2015	From population genomics to speciation: the case of malaria vector species of the <i>Anopheles gambiae</i> complex	SAPIENZA, Progetti Ateneo Medi	PI	12.500 €

2014-16	Population genomics of the malaria mosquito <i>Anopheles gambiae</i>	Istituto Pasteur – Fondazione Cenci Bolognetti	PI	60.000 €
2013	Population genomics of the malaria mosquito <i>Anopheles gambiae</i>	SAPIENZA, Progetto Award	PI	55.000 €
2012	Genotypic and phenotypic characterization of incipient species within the major Afrotropical malaria vector, <i>Anopheles gambiae</i>	SAPIENZA, Progetti Ateneo Medi	PI	7,500 €
2012	Real Time PCR in parassitologia: dalla ricerca di base alle applicazioni diagnostiche	SAPIENZA, Progetti Ateneo Grandi Attrezzature	PI	19,000 €
2010-12	Genotypic and phenotypic characterization of incipient species within the major Afrotropical malaria vector, <i>Anopheles gambiae</i> s.s.	Istituto Pasteur – Fondazione Cenci Bolognetti	Co-PI	60.000 €
2009-12	Telesorveglianza Vettoriale	Ministero della Difesa	PI	650.000 €

Part VIII - SUMMARY OF SCIENTIFIC ACHIEVEMENTS

Product type	Number	Data Base	Start	End
Papers [international] - Total	145	SCOPUS	1991	2024
Papers [national]	12	SCOPUS	1992	2008
Book Chapters [International]	2	ISBN	1997	2021
Book Chapters [National]	3	ISBN	2014	2023

JOURNAL CITATION REPORTS

Total papers in International Journals with IF (1997-2024)	133
Total Impact factor (1997-2024)*	604,57
Average Impact Factor per paper (1997-2024)	4,55

§ IF calculated excluding P75 (Letter in Science)

Last 10 year papers in International Journals with IF (2014-2024)	68
Impact factor (2014-2024)	331,35
Average Impact Factor per paper (2014-2024)	4,87

Last 5 year papers in International Journals with IF (2019-2024)	40
Total Impact factor (2019-2024)	188,78
Average Impact Factor per paper (2019-2024)	4,72

SCOPUS (12-07-2024)

Total Publications	157
Total Citations	9,596
Average Citations per Product	63,8
Hirsch (H) index	50
Normalized H index*	1,52

**H index divided by the academic seniority (i.e. from first publication)*

Part IX–PUBLICATIONS

Lists of scientific publications. For each publication authors, year of publication, title, reference data, journal IF in the year of publication (unless specified otherwise), citations (SCOPUS, 12-07-2024), highest quartile, are reported.

IX/A – List of 16 publications selected in the period of 10 years prior to the evaluation notice (with effect from 1 January prior to the publication of the present evaluation notice)

1	<p>Caputo B, Moretti R, Virgillito C, Manica M, Lampazzi E, Lombardi G, Serini P, Pichler V1, Beebe NW, della Torre A, Calvitti M (2023) A bacterium against the tiger: further evidence of the potential of non-inundative releases of males with manipulated Wolbachia infection in reducing fertility of <i>Aedes albopictus</i> field populations in Italy. <i>Pest Management Science</i>, 79 (9): 3167-3176. https://doi.org/10.1002/ps.7495I IF=3,8; Citations=3; Q1 AdT's role: co-corresponding author, fund raising, study design, manuscript drafting.</p>
2	<p>Miranda M, Barceló C, Arnoldi D, Augsten X, Bakran-Lebl K, Balatsos G, Bengoa M, Bindler P, Boršová K, Bourquia M, Bravo-BarrigaD, Čabanová V, Caputo B, Christou C, Delacour S, Eritja R, Fassi-Fihri O, Ferraguti M, Flacio E, Frontera E, Fuehrer HP, García-Pérez AL, Georgiades P, Gewehr S, Goiri F, González MA, Gschwind M, Gutiérrez-López R, Horváth C, Ibáñez-Justicia A, Jani V, Kadriaj P, Kalan K, Kavran M, Klobucar A, Kurucz K, Lucientes J, Lühken R, Magallanes S, Marini G, F. Martinou AF, Michelutti A, Mihalca AD, Montalvo T, Montarsi F, Mourelatos S, Muja-Bajraktari N, Müller P, Notarides G, Costa Osório H, Oteo JA, Oter K, Pajović I, Palmer JRB, Petrinic S, Răileanu C, Christian Ries C, Rogozi E, Ruiz-Arrondo I, Sanpera-Calbet I, Sekulić N, Sevim K, Sherifi K, Silaghi C, Silva M, Soltész Z, Sulesco T, Šušnjar J, Teekema S, Valsecchi A, Vasquez MA, Velo E, Michaelakis A, Wint W, Petrić D, Schaffner F, della Torre A (2022) AIMSURV: First pan-European harmonized surveillance of <i>Aedes</i> invasive mosquito species of relevance for human vector-borne diseases. <i>GigaByte</i>, 2022. https://doi.org/10.46471/gigabyte.57 IF=n.a (first Journal Issue in May 2021); Citations=7; this paper summarises one the most striking results of AIM-COST Action, including results from voluntary research activity by members of 51 institutions across Europe. AdT role was instrumental in conceiving and coordinating the AIM-COST Action in the frame of which the research activities were carried out, as well as in conceiving and designing the AIM-SURV study.</p>
3	<p>Pichler V, Caputo B, Valadas V, Micocci M, Horvath C, Virgillito C, AIM-COST Network Members, Arbomonitor Project Members, Schaffner F, Pinto J, della Torre A (2022) Geographic distribution of the v1016g knockdown resistance mutation in <i>Aedes albopictus</i>: a warning bell for Europe. <i>Parasite & Vectors</i>, 15(1): 280. https://doi.org/10.1186/s13071-022-05407-3. IF=3,2; Citations=8; Q1 AdT's role: corresponding author, fund raising, study design, manuscript drafting.</p>
4	<p>Caputo B, Tondossoma N, Virgillito C, Pichler V, Serini P, Calzetta M, Manica M, Coulibaly ZH, Dia I, Akre MA, Offianan A, della Torre A (2022) Is Côte D'Ivoire a new high hybridization zone for the two major malaria vectors, <i>Anopheles coluzzii</i> and <i>An. gambiae</i>? <i>Infection, Genetics and Evolution</i>, 98, 105215. https://doi.org/10.1016/j.meegid.2022.105215 IF=3,2; Citations=5; Q1 AdT's role: senior/last author, manuscript drafting.</p>

5	<p>Caputo B, Pichler V, Bottà G, De Marco C, Hubbart C, Perugini E, Pinto J, Rockett K, Miles A, della Torre A (2021) Novel genotyping approaches to easily detect genomic admixture between the major Afrotropical malaria vector species, <i>Anopheles coluzzii</i> and <i>An. gambiae</i>. <i>Molecular Ecology Resources</i>, 21:1504–1516. https://doi.org/10.1111/1755-0998.13359 IF=8,678; Citations=6; Q1 AdT's role: corresponding author, fund raising, conceptualization, manuscript revisions.</p>
6	<p>Caputo B, Manica M, Filipponi F, Blangiardo M, Cobre P, Delucchi L, De Marco CM, Iesu L, Morano P, Petrella V, Salvemini M, Bianchi C, della Torre A (2020) ZanzaMapp: a scalable citizen science tool to monitor perception of mosquito abundance and nuisance in Italy and beyond. <i>International Journal of Environmental Research and Public Health</i>, 17, 7872. https://doi.org/10.3390/ijerph17217872 IF=3,390; Citations=20; Q1 AdT's role: corresponding author, fund raising, conceptualization, study design, manuscript drafting.</p>
7	<p>Clarkson and The <i>Anopheles gambiae</i> 1000 Genomes Consortium (2020) Genome variation and population structure among 1142 mosquitoes of the African malaria vector species <i>Anopheles gambiae</i> and <i>Anopheles coluzzii</i>. <i>Genome Research</i>, 30:1533–1546. DOI: 10.1101/gr.262790.120 IF=9,043; Citations=49; Q1 AdT's role: member of Ag1000G Partner WG conceiving the study and revising manuscript draft.</p>
8	<p>Caputo B, Moretti R, Manica M, Puggioli A, Serini P, Lampazzi E, Bonanni M, Fabbri G, Pichler V, Bellini R, della Torre A, Calvitti M (2020) A bacterium against the Tiger: preliminary evidence of fertility reduction after release of <i>Aedes albopictus</i> males with manipulated <i>Wolbachia</i> infection in an Italian urban area. <i>Pest Management Science</i>, 76(4): 1324-1332. https://doi.org/10.1002/ps.5643 IF=4,845; Citations=36; Q1; AdT's role: co-corresponding author, fund raising, study design, manuscript drafting.</p>
9	<p>Perugini E, Guelbeogo WM, Calzetta M, Manzi S, Virgillito C, Caputo B, Pichler B, Ranson H, Sagnon N'F, della Torre A, Pombi M (2020) Behavioural plasticity of <i>Anopheles coluzzii</i> and <i>An. arabiensis</i> undermines LLIN community protective effect in a Sudanese-savannah village in Burkina Faso. <i>Parasite & Vectors</i>, 13: 277. https://doi.org/10.1186/s13071-020-04142-x IF=3,876; Citations=13; Q1 AdT's role: co-corresponding author, fund raising, conceptualization, manuscript drafting.</p>
10	<p>Montanez-Gonzalez R, Pichler V, Calzetta M, Love RR, Vallera A, Schaecher L, Caputo B, Pombi M, Petrarca V, A della Torre*, NJ Besansky* (2020) Highly specific PCR-RFLP assays for karyotyping the widespread 2Rb inversion in malaria vectors of the <i>Anopheles gambiae</i> complex. <i>Parasite & Vectors</i> 13(1):16. https://doi.org/10.1186/s13071-019-3877-x IF 3,876; Citations=7; Q1 AdT's role: co-corresponding author, fund raising, conceptualization, manuscript drafting.</p>
11	<p>Pichler V, Kotsakiozi P, Caputo B, Serini P, Caccone A, della Torre A (2019) Complex interplay of evolutionary forces shaping population genomic structure of invasive <i>Aedes albopictus</i> in southern Europe. <i>PLoS Neglected Tropical Diseases</i>, 13(8): e0007554. https://doi.org/10.1371/journal.pntd.0007554 IF=3,885; Citations=20; Q1 AdT's role: co-corresponding author, fund raising, study design, manuscript drafting.</p>
12	<p>Marini F, Caputo B, Pombi M, Travaglio M, Montarsi F, Drago A, Rosà R, Manica M, della Torre A (2019) Estimating spatio-temporal dynamics of <i>Aedes albopictus</i> dispersal to guide control interventions and prevent outbreaks of exotic arboviruses in temperate regions. <i>Scientific Reports</i>, 9: 10281. DOI: 10.1038/s41598-019-46466-4 IF=3,998; Citations=21; Q1 AdT's role: corresponding author, fund raising, study design, manuscript drafting.</p>
13	<p>Pombi M, Calzetta M, Guelbeogo WM, Manica M, Perugini E, Pichler V, Mancini E, Sagnon N'F, Ranson H, della Torre A (2018) Unexpectedly low Human Blood Index associated to high Plasmodium sporozoite rates in <i>Anopheles coluzzii</i> from a LLIN-protected village in Burkina Faso. <i>Scientific Reports</i>, 8:12806. DOI: 10.1038/s41598-018-31117-x IF=4,011; Citations=17; Q1 AdT's role: senior/last author, fund raising, conceptualization, manuscript drafting.</p>

14	Miles A. and <i>Anopheles gambiae</i> 1000 Genomes Consortium, Data analysis group; Partner working group; Sample collections; Sequencing and data production; Web application development; Project coordination (2017) Genetic diversity of the African malaria vector <i>Anopheles gambiae</i> . <i>NATURE</i> , 552 (7683): 96-100. DOI: 10.1038/nature24995 IF=41,577; Citations=209; Q1 AdT's role: member of the Ag1000G Partner Working Group conceiving the study and revising the manuscript draft.
15	Velo E, Kadriaj P, Mersini K, Shukullari A, Manxhari B, Simaku A, Hoxha A, Caputo B, Bolzoni L, Rosà R, Bino S, Reiter P, della Torre A (2016) Enhancement of <i>Aedes albopictus</i> collections by ovitrap and sticky adult trap. <i>Parasite & Vectors</i> , 9: 223. DOI: 10.1186/s13071-016-1501-x IF=3,035; Citations=27; Q1 AdT's role: senior author, fund raising, manuscript drafting.
16	Caputo B, Ienco A, Manica M, Petrarca V, Rosà R, della Torre A (2015) New adhesive traps to monitor urban mosquitoes and with a case study to assess the efficacy of insecticide control strategies in temperate areas. <i>Parasites & Vectors</i> , 8:134. DOI: 10.1186/s13071-015-0734-4 IF=3,234; Citations=23; Q1 AdT's role: senior author, fund raising, study design, manuscript drafting.

IX/B – Book chapters

1	M. Pombi, A. della Torre (2023) Capito 13: Entomologia medica e malattie trasmesse da vettori. In: De Carneri “Parassitologia generale e umana”, 14ed Edited by F. Bruschi, E. Pozio. Casa Editrice Ambrosiana – Divisione di Zanichelli Editore SpA: 162-174. ISBN: 9788808899828.
2	A. della Torre , B. Caputo (2023) Capito 49: Phylum Arthropoda. In: De Carneri “Parassitologia generale e umana”, 14ed Edited by F. Bruschi, E. Pozio. Casa Editrice Ambrosiana – Divisione di Zanichelli Editore SpA: 455-519. ISBN: 9788808899828.
3	V. Petrella, G. Saccone, G. Langella, B. Caputo, M. Manica, F. Filipponi, A. della Torre and M. Salvemini (2021) Citizen Science and Asian Tiger Mosquito: A Pilot Study on Procida Island, a Possible Mediterranean Site for Mosquito Integrated Vector Management Trials. In. Area-Wide Integrated Pest Management Development and Field Application. Edited by J. Hendrichs, R. Pereira and M.J.B. Vreysen: 729-746. ISBN: 978-0-367-76986-4.
4	Arcà B, della Torre A , Pombi M (2014). Gli insetti vettori di patogeni animali. In: Pennacchio F. Gli insetti e il loro controllo. Napoli Liguori: 443-477. ISBN: 8820753510
5	A. della Torre (1997) Polytene chromosome preparation from anopheline mosquitoes . In: Crampton, J.M., Beard, C.B., Louis, C. (eds) The Molecular Biology of Insect Disease Vectors. Springer, Dordrecht. https://doi.org/10.1007/978-94-009-1535-0_28 . ISBN : 978-94-010-7185-7. 417 citations (source: https://citations.springernature.com/book?doi=10.1007/978-94-009-1535-0)

IX/C – Complete list of publications

- submitted and pre-print available-----
- S1** Micocci M, Manica M, Bernardini I, Soresinetti L, Varone M, Di Lillo M, Severini F, Montarsi F, Epis S, Salvemini M, Caputo B, Poletti P, **della Torre A** (2024) An easier life to come for mosquito researchers: field testing across Italy supports VECTRACK system for automatic count, identification and capture rate estimation of *Aedes* and *Culex* adult females and males. *Submitted to Parasites and Vectors* (pre-print available in *Research Square*, <https://doi.org/10.21203/rs.3.rs-4547353/v1>)
- S2** Perugini E, Pichler V, Guelbeogo WM, Micocci M, Ranson H, **della Torre A**, Mancini E, Pombi M (2024) Longitudinal survey of insecticide resistance in a village of Central Region of Burkina Faso reveals co-occurrence of 1014F, 1014S and 402L mutations in *Anopheles coluzzii* and *Anopheles arabiensis*. Accepted with minor revisions in *Malaria Journal* (pre-print available in *Research Square*, <https://doi.org/10.21203/rs.3.rs-4184604/v1>).

- S3** Virgillito C, Longo E, De Marco CM, Serini P, Zucchelli MV, Montarsi F, Severini F, Rosà R, Da Re D, Filipponi F, Manica M, Palmer J, Bartumeus F, **della Torre A**, Caputo B (2024) Involving citizens in monitoring arthropod vectors of human and zoonotic diseases: the case of Mosquito Alert in Italy. Revised version after reviewers comment submitted to *Science of the Total Environment*. (pre-print available in SSRN: <https://dx.doi.org/10.2139/ssrn.4755943>).
- S4** Caputo B, De Marco CM[§], Pichler V, Bottà G, Bennett KL, Clarkson CS, Tennesen JA, Weetman D, Miles A, **della Torre A** (2024) Speciation within the *Anopheles gambiae* complex: high-throughput whole genome sequencing reveals evidence of a putative new cryptic taxon in ‘far-west’ Africa. Revised version after reviewers comment submitted to *Communication Biology* (pre-print available in *Research Square*, [doi: 10.21203/rs.3.rs-3914444/v1](https://doi.org/10.21203/rs.3.rs-3914444/v1))

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- P157** Pichler V[§], Itokawa K[§], Caputo B, De Marco CM, Serini P, Bellini R, Veronesi R, De Liberato C, Romiti F, Arnoldi D, Rizzoli A, Lia RP, Otranto D, Michaelakis A, Bisia M, Kasai S, **della Torre A** (2024) Unbiased sequence analysis of vgsc gene reveals circulation of novel and known knock-down-resistance mutations in *Culex pipiens*, challenging vector control measures. Accepted for publication in *Journal of Pest Science*, 11-07-2024. **IF 4,3**
- P156** Da Re D, Marini G, Bonannella C, Laurini F, Manica M, Anicic N, Albieri A, Angelini P, Arnoldi D, Blaha M, Bertola F, Caputo B, De Liberato C, **della Torre A**, Flacio E, Franceschini A, Gradoni F, Kadriaj P, Lencioni V, Del Lesto I, La Russa F, Lia RP, Montarsi F, Otranto D, L’Ambert G, Rizzoli AP, Rombolà P, Romiti F, Stancher G, Torina S, Velo E, Virgillito C, Zandonai F, Rosà R (2024) VectAbundance: a spatio-temporal database of vector observations. *Scientific Data*, 11:636. <https://doi.org/10.1038/s41597-024-03482-y> **IF 5,8**
- P155** Zardini A, Gobbi A, Manica M, Guzzetta G, d’Andrea V, Marziano V, Trentini F, Montarsi F, Caputo B, Solimini A, Marques-Toledo C, Wilke ABB, Roberto Rosà R, Marini G, Arnoldi D, Pastore y Piontti A, Pugliese A, Capelli G, **della Torre A**, Teixeira M, Beier JC, Rizzoli A, Vespignani A, Ajelli M, Merler S, Poletti P (2024) Estimating the risk of transmission of arboviruses in the Americas and Europe: A modeling study. *The Lancet Planetary Health*, 8: e30–40. [https://doi.org/10.1016/S2542-5196\(23\)00252-8](https://doi.org/10.1016/S2542-5196(23)00252-8) **IF 24,1**

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- P154** Pichler V, A Sanou, RR Love, B Caputo, M Pombi, KH Toe, MW Guelbeogo, N’F Sagnon, HM Ferguson, H Ranson, **A della Torre**, NJ Besansky (2023) A novel tetra-primer ARMS-PCR approach for the molecular karyotyping of chromosomal inversion 2Ru in main malaria vectors *Anopheles gambiae* and *An. coluzzii*. *Parasite & Vectors*, 16(1):388. <https://doi.org/10.1186/s13071-023-06014-6>. **IF 3,0**
- P153** Manica M, Marini G, Solimini A, Guzzetta G, Poletti P, Scognamiglio P, Virgillito C, **della Torre A**, Merler S, Rosà R, Vairo F, Caputo B (2023) Reporting delays associated with the 2017 chikungunya outbreak in the Lazio region, Italy. *PloS Neglected Diseases*, 17(9): e0011610. <https://doi.org/10.1371/journal.pntd.0011610>. **IF 3,4**
- P152** Tondossama N, Virgillito C, Coulibaly ZH, Pichler V, Dial, **della Torre A**, Offianan Toure A, Adja HM, Caputo B (2023) High proportion of malaria vector biting and resting indoors despite extensive LLIN coverage in Côte d'Ivoire. *INSECTS*, 14: 758. <https://doi.org/10.3390/insects14090758> **IF 2,7**
- P151** Caputo B, Moretti R, Virgillito C, Manica M, Lampazzi E, Lombardi G, Serini P, Pichler V1, Beebe NW, **della Torre A***, Calvitti M* (2023) A bacterium against the tiger: further evidence of the potential of non-inundative releases of males with manipulated Wolbachia infection in reducing fertility of *Aedes albopictus* field populations in Italy. *Pest Management Science*, 79 (9): 3167-3176. <https://doi.org/10.1002/ps.74951> **IF 3,8**
- P150** Perugini E, Guelbeogo WM, Guglielmo F, Poggi C, Gabrieli E, Ranson H, **della Torre A**, Pombi M (2023) The interplay between malaria vectors and human activity accounts for high residual malaria transmission in a Burkina Faso village with universal ITN coverage. *Parasite & Vectors*, 16:101. <https://doi.org/10.1186/s13071-023-05710-7>. **IF 3,0**

- P149** Tondossama N, Coulibaly ZI, Traoré I, Ako BA, Zoh DD, Virgillito C, Coulibaly-Guindo N, Serini P, Assouho FK, Dia I, Touré AO, Adja AM, Caputo B, **della Torre A**, Pichler V (2022) High levels of admixture in *Anopheles gambiae* populations from Côte d'Ivoire revealed by multilocus genotyping. *INSECTS*, 13: 1090. <https://doi.org/10.3390/insects13121090> . **IF 3,0**
- P148** SC Edmunds, F Fouque, KA Copas, T Hirsch, PHF Shimabukuro, JD Andrade-filho, C Marceló, CA Morales, MC Lesmes, P Fuya, S Méndez, H Cadena, A Ávila-Díaz, E Santamaría, Z Južnic-Zonta, R Eritja, JRB Palmer, F Bartumeus, M dos Santos-Conceição, S Chahad-Ehlers, C Lázaro Silva-Inácio, A Leuch Lozovei, AJ de Andrade, S Paull, MA Miranda, C Barceló, F Schaffner, **A della Torre**, D Brosens, W Dekoninck, G Hendrickx, W Van Bortel, I Deblauwe, N Smitz, V Versteirt, R Espindola Godoy, A Fernandes Brilhante, S Ceccarelli, A Balsalobre, ME Vicente, R Curtis-Robles, SA Hamer, JM Ayala Landa, JE Rabinovich, GA Marti, D Schigel (2022) Publishing data to support the fight against human vector-borne diseases (2022) *GigaScience*, 11: 1–5. <https://doi.org/10.1093/gigascience/giac114> . **IF 9,2**
- P147** Miranda M, Barceló C, Arnoldi D, Augsten X, Bakran-Lebl K, Balatsos G, Bengoa M, Bindler P, Boršová K, Bourquia M, Bravo-Barriga D, Čabanová V, Caputo B, Christou C, Delacour S, Eritja R, Fassi-Fihri O, Ferraguti M, Flacio E, Frontera E, Fuehrer HP, García-Pérez AL, Georgiades P, Gewehr S, Goiri F, González MA, Gschwind M, Gutiérrez-López R, Horváth C, Ibáñez-Justicia A, Jani V, Kadriaj P, Kalan K, Kavran M, Klobucar A, Kurucz K, Lucientes J, Lühken R, Magallanes S, Marini G, F. Martinou AF, Michelutti A, Mihalca AD, Montalvo T, Montarsi F, Mourelatos S, Muja-Bajraktari N, Müller P, Notarides G, Costa Osório H, Oteo JA, Oter K, Pajović I, Palmer JRB, Petrinic S, Răileanu C, Christian Ries C, Rogozi E, Ruiz-Arrondo I, Sanpera-Calbet I, Sekulić N, Sevim K, Sherifi K, Silaghi C, Silva M, Soltész Z, Sulesco T, Šušnjar J, Teekema S, Valsecchi A, Vasquez MA, Velo E, Michaelakis A, Wint W, Petrić D, Schaffner F, **della Torre A** (2022) AIMSURV: First pan-European harmonized surveillance of *Aedes* invasive mosquito species of relevance for human vector-borne diseases. *GigaByte*, 2022. <https://doi.org/10.46471/gigabyte.57> .
- P146** Južnič-Zonta Z, Sanpera-Calbet I, Eritja R, Palmer JRB, Escobar A, Garriga J, Oltra A, Richter-Boix A, Schaffner F, **della Torre A**, Miranda MA, Koopmans M, Barzon L, Bartumeus F, Mosquito Alert Digital Entomology Network, and Mosquito Alert Community (2022) Mosquito Alert: Leveraging Citizen Science to Create a GbifMosquito Occurrence Dataset. *GigaByte*, 2022. <https://doi.org/10.46471/gigabyte.54> .
- P145** Pichler V, Caputo B, Valadas V, Micocci M, Horvath C, Virgillito C, AIM-COST Network Members, Arbomonitor Project Members, Schaffner F, Pinto J, **della Torre A** (2022) Geographic distribution of the v1016g knockdown resistance mutation in *Aedes albopictus*: a warning bell for Europe. *Parasite & Vectors*, 15(1): 280. <https://doi.org/10.1186/s13071-022-05407-3>. **IF 3,2**
- P144** Pichler V, Giammarioli C, Bellini R, Veronesi R, Arnoldi D, Rizzoli AP, Lia R, Otranto D, Ballardini M, Cobre P, Serini P, **della Torre A**, Caputo B (2022) First evidence of pyrethroid resistance in Italian populations of West Nile virus vector *Culex pipiens*. *Medical & Veterinary Entomology*, 12573. <https://doi.org/10.1111/mve.12573>. **IF 1,9**
- P143** Virgillito C, Manica M, Marini G, Rosà R, **della Torre A**, Martini S, Drago A, Baseggio A, Caputo B (2021) Evaluation of *Bacillus thuringiensis* subsp. *israelensis* and *Bacillus sphaericus* combination against *Culex pipiens* in high vegetated ditches. *Journal of American Mosquito Control Association*, 38 (1): 40–45. **IF 1,0**
- P142** Caputo B, Tondossoma N, Virgillito C, Pichler V, Serini P, Calzetta M, Manica M, Coulibaly ZH, Dia I, Akre MA, Offianan A, **della Torre A** (2022) Is Côte D'Ivoire a new high hybridization zone for the two major malaria vectors, *Anopheles coluzzii* and *An. gambiae*? *Infection, Genetics and Evolution*, 98, 105215. <https://doi.org/10.1016/j.meegid.2022.105215> **IF 3.2**

- P141** Caputo B, Langella G, Petrella V, Virgillito C, Manica M, Filipponi F, Varone M, Primo P, Puggioli A, Bellini R, D'Antonio C, Iesu L, Tullo L, Rizzo C, Longobardi A, Sollazzo G, Perrotta MM, Fabozzi M, Palmieri F, Saccone G, Rosà R, **della Torre A**, Salvemini M (2021) *Aedes albopictus* bionomics in

Procida island, a promising Mediterranean site for the assessment of innovative and community-based integrated pest management methods. *PLoS NTD*, 15(9):e0009698.

doi.org/10.1371/journal.pntd.0009698 **IF 4,781**

- P140** Montanez-Gonzalez R, Vallera A, Calzetta M, Pichler V, Love RR, Guelbeogo MW, Dabire RK, Pombi M, Costantini C, **della Torre A**, Besansky NJ (2021) A PCR-RFLP method for genotyping of inversion 2Rc in *Anopheles coluzzii*. *Parasite & Vectors*, 14:174. **IF 4,052**
- P139** Ngom EHM, Virgillito C, Manica M, Rosà R, Sarleti N, Pichler V, Diallo M, **della Torre A**, Dia I, Caputo B (2021) Entomological survey in two Senegalese villages reveals discrepancies in results obtained by two traps targeting host-seeking mosquitoes. *INSECTS*, 12, 692. <https://doi.org/10.3390/insects12080692> . **IF 3,141**
- P138** Caputo B, Pichler V, Bottà G, De Marco C, Hubbart C, Perugini E, Pinto J, Rockett K, Miles A, **della Torre A** (2021) Novel genotyping approaches to easily detect genomic admixture between the major Afrotropical malaria vector species, *Anopheles coluzzii* and *An. gambiae*. *Molecular Ecology Resources*, 21:1504–1516. [10.1111/1755-0998.13359](https://doi.org/10.1111/1755-0998.13359) **IF 8,678**
- P137** Virgillito C, Manica M, Marini G, Caputo B, **della Torre A**, Rosà R (2021) Modelling arthropod active dispersal using Partial Differential Equations: the case of the mosquito *Aedes albopictus*. *Ecological Monitoring*, 456: 109658. **IF 3,512** NO SU SCOPUS
- P136** Michaelakis A, Balestrino F, Becker N, Bellini R, Caputo B, **della Torre A**, Figuerola J, L'Ambert G, Petric D, Robert V, Roiz D, Saratsis A, Sousa CA, Wint W, Papadopoulos NT (2021) A case for a systematic quality management in mosquito control programmes in temperate areas. *International Journal of Environmental Research and Public Health*, 18(7): 3478. <https://doi.org/10.3390/ijerph18073478> **IF 4,614**
- P135** Xue AT, Schrider DR, Kern AD; Ag1000g Consortium (2021) Discovery of Ongoing Selective Sweeps within *Anopheles Mosquito* Populations Using Deep Learning. *Mol Biol Evol.* 9; 38(3): 1168-1183. **IF 8,800**
- P134** Grau-Bové X, Lucas E, Pipini D, ..., Ag1000G Consortium, et al. (2021) Resistance to pirimiphos-methyl in West African *Anopheles* is spreading via duplication and introgression of the *Ace1* locus. *PLoS Genetics* 17(1): e1009253. <https://doi.org/10.1371/journal.pgen.1009253>. **IF 6,020**
- P133** Pichler V, Mancini E, Micocci M, Calzetta M, Arnoldi D, Rizzoli A, Lencioni V, Paoli F, Bellini R, Veronesi R, Martini S, Vettore S, De Liberato C, Ermenegildi A, Pinto J, **della Torre A***, Caputo B* (2021) A novel AS-PCR for detection of the V1016G mutation in VSSC-gene allows large scale monitoring of resistance to pyrethroids in *Aedes albopictus* and confirms widespread presence in Italy. *INSECTS*, 12(1), 79. <https://doi.org/10.3390/insects12010079>. **IF 3,141**

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Part X – ORGANIZATION and INVITED TALKS AT NATIONAL and INTERNATIONAL CONGRESSES (2000-2024)

X/A - Member of Organizing Committee

2024	Proponente e Moderatrice del Simposio “Artropodi vettori e patogeni trasmessi: l’approccio integrato del progetto PNRR INF-ACT” al XXXIII Congresso Nazionale della Società Italiana di Parassitologia (SOIPA) (Padova, ITALIA; 18/21-06-2024);
2023	Membro del Comitato Scientifico del XI European Mosquito Control Association Conference (EMCA, Palma de Mallorca, SPAGNA, 7-10 novembre 2023);
2023	Membro del Comitato Scientifico del XII European Congress of Entomology (ECE, Heraklion, Creta, GRECIA, 16-20 ottobre 2023);
2023	Organizzatrice e membro del Comitato Scientifico della Conferenza Finale della Aedes Invasive Mosquito COST Action (AIM-COST; Roma, ITALIA, 1-2 febbraio 2023)
2022	Organizzatrice della Session 4A “Vaccines for Neglected Diseases and Malaria Vaccine development” World Health Summit Regional Meeting (Roma, ITALIA; 15/17-06-2022)
2022	Proponente e Moderatrice del “Simposio 8: The Role of Citizen Science and Outreach for the Surveillance of Vector Species” al 21st European Society of Vector Ecology Conference (Sofia, BULGARIA; 11/14-10-2022)
2022	Proponente e Moderatrice del Simposio “Invasive arthropod vectors and emerging vector-borne diseases” al XXXII Congresso Nazionale della Società Italiana di Parassitologia (SOIPA) (Napoli-Padova, ITALIA; 27/30-06-2022)
2020	Membro del Comitato Scientifico e Organizzatore della Web conference “FROM 50 YEARS OF A MALARIA FREE ITALY: TOWARDS A MALARIA FREE WORLD” (Istituto Superiore di Sanità, Roma, ITALIA; 24-11-2020);
2018	Membro del Comitato Scientifico dell' XI European Congress of Entomology e organizzatrice della sessione su “Medical & Veterinary Entomology” (ECE, Napoli, ITALIA; 2/6 -07-2018)
2017	Organizzatrice e Responsabile Scientifica e del Convegno " Chikungunya 2017: dati, risposte, azioni e criticità " (Università Sapienza, Roma, ITALIA; 17-11-2017)
2017	Co-organizzatrice, Moderatrice e Relatrice nell'ambito del Convegno " Towards ecologically-realistic genetic mosquito population control strategies for disease elimination " (Royal Society Theo Murphy International Scientific Meetings; The Royal Society at Chicheley Hall, Buckinghamshire, UK; 3/4-04-2017)
2014	Membro del Comitato Organizzatore e del Comitato Scientifico del XXVIII Congresso Nazionale della Società Italiana di Parassitologia (SOIPA) , e moderatore Simposio "Hot Spots in Medical & Veterinary Entomology: from Italy to Europe" (Roma, ITALIA; 24/27-06-2014)
2011	Membro del Comitato Organizzatore e del Comitato Scientifico del V EMBO International Meetings on "Molecular and Population Biology of Mosquitoes and Other Disease Vectors" , Kolymbari, Creta (GRECIA)
2009	Membro del Comitato Organizzatore e del Comitato Scientifico del IV EMBO International Meetings on "Molecular and Population Biology of Mosquitoes and Other Disease Vectors" , Kolymbari, Creta (GRECIA; 16/19-07-2009)
2007	Membro del Comitato Organizzatore e del Comitato Scientifico del III EMBO International Meetings on "Molecular and Population Biology of Mosquitoes and Other Disease Vectors" , Kolymbari, Creta (GRECIA; 13/20-07-2007)
2005	Membro del Comitato Organizzatore e del Comitato Scientifico del II EMBO International Meetings on "Molecular and Population Biology of Mosquitoes and Other Disease Vectors" , Kolymbari, Creta (GRECIA; 24/30-07-2005)
2003	Membro del Comitato Organizzatore e del Comitato Scientifico del I EMBO International Meetings on "Molecular and Population Biology of Mosquitoes " , Kolymbari, Creta (GRECIA; 13/19-07-2013)

X/B - Invited Talks

2024	Relazione dal titolo "Epidemiologically relevant bionomical parameters in invasive <i>Aedes albopictus</i> populations in Europe: do we know enough", H2020 MOOD Project Closure & International Conference (Roma, IT; 26/27-11-2024)
2024	Relazione dal titolo "Novel approaches for the study and the monitoring of <i>Aedes albopictus</i> ", VI International Workshop on <i>Aedes albopictus</i>: the Asian Tiger Mosquito (Phnom Penh, CAMBODIA; 28/29-03-2024)
2023	Relazione dal titolo "La resistenza agli insetticidi in Culicidi vettori di patogeni umani e zoonotici: meccanismi, diffusione e approcci diagnostici molecolari", Tavola Rotonda dell'Accademia Nazionale di Entomologia su "I culicidi vettori di infezioni di interesse medico-veterinario: dalla biologia molecolare allo sviluppo di metodologie di controllo" (Accademia Nazionale di Entomologia, Firenze, IT; 10-11-2023)
2022	Relazione dal titolo "Current practices and challenges in the invasive mosquito management programme in Italy", Simposio Integrated vector management to control the dengue and chikungunya vector <i>Aedes albopictus</i> in different parts of Europe (Institute of Tropical Medicine, Antwerpen, BELGIO, 24-05-2022)
2022	Relazione dal titolo "Malattie trasmesse da zanzare (in Italia): il ruolo della ricerca e le opportunità del PNRR", XXI Congresso Nazionale della Società Italiana di Diagnostica di Laboratorio Veterinaria (SIDILV, Ischia, IT; 7/9-09-2022);
2022	Relazione dal titolo "MosquitoAlert: Citizen Science in vector-borne disease surveillance", ENETWILD Online workshop "Harmonised and integrated wildlife disease surveillance across Europe: experts' analysis and future perspectives" (online, 1/2-03-2022);
2022	KEYNOTE talk dal titolo "AIM-COST results, lessons and messages", 5th International Workshop on <i>Ae. albopictus</i>: the Asian tiger mosquito (Montpellier, FRANCE, 11/13-05-2022)
2019	Relazione dal titolo "AIM-COST ACTION", Vector Borne Disease Operational Readiness Workshop: Lessons learned from West Nile Virus Response in WHO European Region/3 (WHO-EU, Sofia, BULGARIA 24-09-2019)
2019	Relazione dal titolo "AIM-COST ACTION", Emerging and Vector-borne Diseases (EVD) Network Annual Meeting (E-CDC, Stockholm, SWEDEN; 01/02-10-2019)
2018	Relazione dal titolo "Aedes Invasive Mosquito COST Action", XI European Congress of Entomology (ECE, Napoli, IT; 2-6 luglio 2018)
2018	Relatrice e moderatrice del Simposio-7 "Vector Networks & Projects: an Update" con relazione dal titolo "Aedes Invasive Mosquito COST Action", meeting del 21st European Society of Vector Ecology Conference (Palermo, IT; 22/26 ottobre 2018)
2018	Seminario dal titolo "Chikungunya outbreak in Lazio region since 25 years from <i>Aedes albopictus</i> invasion", Liverpool School of Tropical Medicine Seminar Series (Liverpool, UK; 17-01-2018)
2017	Relazione dal titolo "Monitoring <i>Aedes albopictus</i> for research and control purposes: constraints and perspectives", III International Workshop on <i>Aedes albopictus</i> (Pavia, IT; 10/12-04-2017)
2017	Opening Lecture "Cryptic divergence and sympatric speciation in the main Afrotropical malaria vector species of the <i>Anopheles gambiae</i> complex", 7° Congresso della Società Italiana di Biologia Evoluzionistica (Roma, IT; 28/31-08-2017)
2017	Relazione su invito e Moderatore al workshop "Malaria transmission: current challenges and new tools in the elimination context", Institute of Hygiene and Tropical Medicine (IHMT) (Lisbona, PORTUGAL; 30/31-10-2017);
2016	Relazione su invito dal titolo "The cryptic variability of malaria vectors in Africa", VII International Seminario on Molecular Insect Science (Amsterdam, THE NETHERLANDS; 02/04-09-2016);
2016	KEYNOTE talk dal titolo "Targeting <i>Aedes albopictus</i> in a metropolitan European area", Convegno "Facing the invasion of alien arthropods species: ecology, modelling and control of their economic impact and public health implications" (Trento, IT; 07/09-11-2016)

2014	Seminario su invito dal titolo "Speciation within <i>Anopheles gambiae</i> : from chromosomal forms, to molecular forms, to <i>An. coluzzii</i> and beyond", Twinbrook Seminar Series, National Health Institute (NIH, Bethesda, USA; 24/27-06-2014)
2013	Relazione su invito dal titolo "The "auto-dissemination approach: a novel tool to control <i>Aedes albopictus</i> in urban areas", I International Workshop on <i>Aedes albopictus</i> (Pavia, IT; 21/22-03-2015)
2012	Seminario su invito dal titolo "Biology and control of <i>Aedes albopictus</i> ", Università di Zurigo (Zurigo, SVIZZERA; 15-05-2012)
2010	Relazione su invito dal titolo "Nuovi approcci allo studio della biologia di <i>Aedes albopictus</i> in Italia: risultati e prospettive" dal workshop "Malattie Trasmesse da Vettori e Salute Globale Vector Borne Diseases and Global Health", Regione Veneto (Verona, IT, 14/15-06-2010)
2009	Seminario su invito dal titolo "The Far West of <i>Anopheles gambiae</i> speciation", Liverpool School of Tropical Medicine Seminar Series (UK, 14-06-2009)
2008	Invited talk entitled "UNDESIRED IMPORTS: an ASIAN TIGER & an AFRICAN VIRUS", 40th Session of the International, Seminars on Planetary Emergencies, E. Majorana Centre for Scientific Culture (Erice, IT, 17/26-07-2008)
2008	Relazione su invito dal titolo "The role of entomological reserach in the fight against Malaria" nel simposio "Il ruolo della ricerca nella lotta alla Malaria", XXV Congresso della Società Italiana di Parassitologia (Pisa, IT, 14/18-06-2008)
2008	Relazione su invito dal titolo "Preferenze nel pasto di sangue di <i>Aedes albopictus</i> in ambienti diversi di Roma e Provincia" nel simposio " <i>Aedes albopictus</i> in Italia: da insopportabile parassita a vettore di virus Chikungunya", XXV Congresso della Società Italiana di Parassitologia (Pisa, IT, 14/18-06-2008)
2006	Relazione su invito dal titolo "Nuove acquisizioni nell'entomologia della malaria: il contributo del gruppo dell'Università di Roma La Sapienza", Convegno "Malaria, il contributo italiano 100 anni dopo Camillo Golgi" (Università degli Studi di Brescia (Brescia, IT, 15-06-2004).
2004	Relazione su invito dal titolo "La zanzara (<i>Aedes albopictus</i>) al Bioparco di Roma", Convegno "Ecosistema Roma" (Accademia Nazionale dei Lincei , Roma, IT, 14/16-04-2004).
2004	Relazione su invito dal titolo "Molecular entomology contribution to the analysis of malaria epidemiology in sub-saharan Africa", Convegno su "Contributi della biologia molecolare alla sistematica entomologica, con particolare riferimento all'entomologia applicata" (Accademia Italiana di Entomologia , Firenze, IT, 26-11-2004)
2002	Relazione su invito dal titolo "Incipient speciation within <i>Anopheles gambiae</i> , the major malaria vector in sub-Saharan Africa", Giornate Scientifiche dell' " Istituto Pasteur - Fondazione Cenci Bolognetti " (Roma, IT).
2001	Relazione su invito dal titolo "Le zanzare negli ambienti urbani", Convegno "Ecosistemi Urbani" (Accademia Nazionale dei Lincei , Roma, IT, 22/24-10-2001).

Part XI – OUTREACH ACTIVITIES

From May 2016 to December 2018, I lead a **citizen science project** involving the development, validation and promotion of the first mobile application for smartphones specifically designed to assess citizens' perception of mosquito abundance and nuisance in Italy (**ZanzaMapp**). The project ended with 13,669 app downloads and 36,867 records sent by citizens. In 2017, ZanzaMapp project was selected for participation to a workshop sponsored by UN Environment and organized by the Wilson International Center for Scholars' Science and Technology Innovation Program (STIP), and the European Citizen Science Association (ECSA). This meeting marked the start of the **Global Mosquito Alert initiative** aiming at contributing to the global surveillance of mosquito species by pooling different experiences. In 2021, the experiences of the Spanish Mosquito Alert app and of ZanzaMapp, were pooled leading to the release of an updated version of Mosquito Alert app, which - thanks to the AIM-COST Action I chaired - was translated in 19 languages and released in all European Countries. In Italy, this led to the creation of **Mosquito Alert ITALIA** network coordinated by Sapienza team with the participation of Department of Public Health of Sapienza University, as the coordinating institution, and the National Institute of Health (ISS), the zoo-prophylactic Institute of Veneto regions (IZSVe) and the Museum of Natural History of Trento (MUSE). Since then I contributed to many initiatives to promote the project, leading to: >3.000 registered visits to Mosquito Alert ITALIA web-site (<https://www.mosquitoalertitalia.it/>), >500 subscribers to Mosquito Alert ITALIA newsletter, >180.000 Facebook interactions, >450 Instagram interactions, and 2 video tutorials (https://youtu.be/d_J_pJNWko0).

In addition, since 2000 I am interviewed by **national newspapers** (e.g. La Repubblica, Il Manifesto, Il Messaggero, Il Tempo, L'Espresso, Quotidiano Nazionale), mostly on the topic of prevention of the spread of invasive mosquitoes and related public health risks in Italy and Europe. More detailed outreach activities are listed below.

09-2023	Intervista al Giornale Radio Rai Radio1 sul tema “Zanzare”
05-2023	Partecipazione a UNOMATTINA (Rai1) sul tema “Zanzare: prevenzione, rimedi e pericolo di infestazioni”
10-2022	Partecipazione ad MAKERFAIRE con stand di promozione del Progetto Mosquito Alert ITALIA
09-2022	Seminario su “Le Zanzare” presso l’associazione Zappata Romana
2021-23	Partecipazione ad ENTOMODENA con stand di promozione del Progetto Mosquito Alert ITALIA
12-2021	Seminario su “La resistenza agli insetticidi”, Corso sulle Gestione dei Culicidi, per una gestione integrata e sostenibile delle zanzare (ANID, Associazione Nazionale Imprese di Disinfestazione)
08-2021	Intervista a UNOMATTINA (Rai1) sul tema “Zanzare”
05-2021	Webinar su “Non solo Covid: la malaria, flagello dell’Africa”, in Convegno sulla Malaria nella Terra Pontina, aspetti storici, medici e sociali, Museo della Terra Pontina
01-2019	Intervista a GEO&GEO (Rai3) sul tema “Pidocchi”
10-2018	Intervista BUONGIORNO REGIONE (Rai3 TGR Lazio) sul tema “ZanzaMapp”
10-2018	Intervista a GEO&GEO (Rai3) sul tema “Zanzare Highlander”
08-2018	Seminario “ZanzaMapp: monitorare le zanzare con l'aiuto dei cittadini”, Museo di Storia Naturale della Maremma
07-2018	Seminario su “Parassiti e Vaccini: una sfida ancora aperta”, Associazione Culturale Mons. Giuseppe Cetra, Rocca Massima
09-2017	Intervista a GEO&GEO (Rai3) sul tema “Zanzare e Malattie”
09-2017	Intervista a SKY TG24 sul tema “Zanzare e Chikungunya”
05-2016	Seminario su “Insetti che si nutrono di umani, e umani che si nutrono di insetti”, in FERMENTI, Conversazioni tra Scienze e Discipline Creative, MAXXI, Museo delle Arti del XXI secolo, Roma.
2012	Presentazione dal titolo "Antichi strumenti e nuove prospettive nel controllo della trasmissione della malaria attraverso la lotta contro il vettore", in “Malaria 2012: dal mito dell'eradicazione a questione globale di salute pubblica” (Università SAPIENZA, Roma, IT)

2012	Presentazione dal titolo "Piccole e cattive: identikit della zanzara, il nemico pubblico numero uno", in APERITIVI SCIENTIFICI dell'Istituto Pasteur "Fondazione Cenci Bolognetti" (Roma, IT, 8-06-2012)
2009	Presentazione dal titolo "Piccole e cattive: identikit della zanzara, il nemico pubblico numero uno" in FESTIVAL DELLA SCIENZA3 (Roma, IT)
2009	Presentazione dal titolo "L'Anopheles e la malaria" in CONVEGNO BIRMANIA: EMERGENZA MALARIA (MUSEO CIVICO DI STORIA NATURALE di Verona, IT)
2008	Presentazione dal titolo "Nuovi vettori e patologie umane" in Corso di Aggiornamento in Ambiente e Salute, per ORDINE PROVINCIALE DI ROMA, MEDICI-CHIRURGHI E ODONTOIATRI (Roma, IT, 24-11-2008)
2006	Presentazione dal titolo "Sperimentazione nel Comune di Roma di una nuova trappola per il monitoraggio della zanzara tigre" in convegno "strategie di controllo della zanzara tigre e l'esperienza romana"(ORTO BOTANICO , Roma, 28-04-2006)
2004	Presentazione dal titolo "L'Anofele e la Malaria" in GIOVEDÌ DEL MUSEO (Museo Civico di Zoologia, Roma, 2-12-2004)