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Complete list of publications from page 4

Prof. Claudio Bandi – *Short CV and selected publications*

Institutional address

Department of Biosciences and Pediatric Clinic Research Center “Romeo ed Enrica Invernizzi”, University of Milano, Milano

Current Position and roles at the University of Milan:

Full Professor of Microbiology, Parasitology and Parasitic Diseases

Coordinator of Sky Net UNIMI – Platform for Genomic Epidemiology and Experimental Microbiology

Coordinator of the Master in Biodiversity and Evolutionary Biology

Member of the scientific and management committees of the Department of Biosciences (in the list of the top Italian scientific departments, according to MIUR - Ministry of University and Research)

Member of the management committee of the University Veterinary Hospital

Bibliometric parameters

Author of over 170 papers in peer-reviewed journals

Academic age: 25 years (first paper published in 1993)

H-index: 58 in Google Scholar (47 in Scopus)

I10-index: 146

Quotations: over 10.000 in Google Scholar (over 7000 in Scopus)

Studies and Academic career

MSc in Biology, with honour, University of Pavia, 1991

PhD in Comparative Pathology, University of Milan, 1996

Post Doc researcher, University of Milan, 1996-1998

Research Scientist, University of Milan, 1998-2000

Associate Professor (2000) and then Professor (2010), University of Milan

PhD Students, Post Docs and young visiting scientists in Claudio Bandi's lab, and their current positions

- Nathan Lo, PostDoc ‘rientro dei cervelli’, now Full Professor, University of Sydney
- Maurizio Casiraghi, PhD student and PostDoc, now Associate Professor, Università di Milano Bicocca
- Chiara Bazzocchi, PhD student and PostDoc, now Associate Professor, Università degli Studi di Milano
- Sara Epis, PhD student and PostDoc, now Associate Professor, Università degli Studi di Milano
- Davide Sasserà, PhD student and PostDoc, now Assistant Professor, Università degli Studi di Pavia
- Matteo Montagna, PhD student and PostDoc, now Assistant Professor, Università degli Studi di Milano
- Laura Baldo, PhD student, now Assistant Professor, Univesitat de Barcelona
- Tiziana Beninati, PhD student, now Consolato Generale d’Italia, Sydney
- Tim Anderson, Marie Curie PostDoc, now group leader at the South Western Medical Foundation, Texas
- Guido Favia, PostDoc, now Full Professor, Università di Camerino.

Active collaborations, relevant to the proposal

Informatics and network analysis

- Pietro Lio’, Computer Lab, Cambridge University
- Alessandro Vespignani, Northeastern University, Boston

Genomics and bioinformatics

- Mark L. Blaxter, University of Edinburgh
- Edward Feil, University of Bath
- Tim J.C. Anderson, South Western Medical Foundation, San Antonio, Texas
- Andres Moya, University of Valencia

Short biographical narrative

Claudio Bandi is Full Professor of Microbiology, Parasitology and Parasitic Diseases at the University of Milan. He obtained the Laurea degree with Honour at the University of Pavia (1991) and then the PhD in comparative Pathology at the University of Milan (1996). He is author of over 170, highly quoted papers in peer-reviewed journals (H-index: 58; total quotations: >10,000; Google Scholar). Coordinator of the PhD in Animal Biology, starting from 1st October 2015 he is the coordinator of the Master Course in Biodiversity and Evolutionary Biology at the Department of Biosciences, University of Milan. Since his master thesis, CB pioneered the introduction of molecular methodologies in clinical microbiology and parasitology, with the development of protocols that have been applied for years at the International Trichinella Reference Centre in Rome (<http://w3.iss.it/site/Trichinella/>), and at clinical diagnostic laboratories (e.g. see in PubMed papers published by CB in the period 1993-1998). Besides the above-mentioned interest for diagnostic applications, most of the scientific interest of CB’s career has been devoted to the study of uncultured bacteria and other bacterial symbionts. This led CB to pioneer the study of the microbiota (at that time just an area of symbiosis research), and applying, since 1993, the now widely employed methodologies for ‘amplicon-based metagenomics’ (based on cloning and Sanger sequencing, at those times). These studies allowed CB to discover important forms of symbiotic associations, among which the first discovery and description of a bacterium that invades and replicates inside the mitochondria (*Mitochondria mitochondrii*; e.g. Sasserà D et al. IJSEM 2006), and the description of the obligate symbiont of filarial nematode parasites (*Wolbachia* spp.; e.g. Bandi C et al Proc Roy Soc B 1998; Casiraghi et al 2001). This last discovery led to the development of a novel therapeutic approach for the treatment of filarial diseases (see Bandi C et al IJP 1999), a major health problem in the tropics that afflicts over 250 million people. Other outcomes that derived from these studies on the microbiota associated with filarial parasites have been a complete reinterpretation of the immunology of filarial diseases, and the identification of novel potential diagnostics (e.g. Brattig N et al JI 2004; Bandi et al 2001). The interest of CB for uncultured bacteria led him to launch one of the first international initiatives for the full genome sequencing of obligate intracellular bacteria (e.g. Bandi C et al Parasit Today 1999; Godel C et al FASEB J 2012). The experience and know-how acquired in the international context allowed CB to establish, at the University of Milan, an integrated research group for bacterial genomic epidemiology, that

included all the know-how in comparative genomics, phylogenomics, molecular evolutionary analyses, and advanced informatic techniques. This allowed the group to sequence the genome of the intra-mitochondrial bacterium *Midichloria* (Sassera D et al MBE 2012), a challenging project at that time, that required the acquisition of the approaches now used in single-cell genomics. Based on the experiences acquired in the areas of molecular microbiology and parasitology, and then of culture-independent study of microbial symbionts, full genome sequencing on bacteria and bacterial phylogenomics, in 2015 CB established, at the University of Milan, the Sky Net UNIMI Platform, i.e. a genomic and bioinformatics research team totally dedicated to the study of the genomic, transcriptomics and genomic epidemiology of pathogenic agents and disease vectors (e.g. see Gaiarsa S et al AAC 2015; Onori R et al JCM 2015). Finally, CB has always performed his scientific activity with a strong 'bias' towards application: from the development of novel molecular-based PCR diagnostic methods, to the introduction of novel strategies for the control of filarial diseases, to the idea of establishing the Sky Net platform for the application of NGS and advanced bioinformatics, to the study of pathogenic agents and disease vectors. In the area of arthropod vectors, CB has established and coordinated several research lines, in relation with symbiosis and symbiotic control, gene expression and transcriptomics, investigations on the defence mechanisms of mosquitoes against insecticides (e.g. see in PubMed papers published by CB, from 2014).

Claudio Bandi - Selection of 10 highly quoted publications
(quotations as in Google Scholar)

- Bandi C., Anderson T.J.C., Genchi C., Blaxter M.L. (1998) Phylogeny of *Wolbachia* in filarial nematodes. *Proceedings of the Royal Society of London B* 265: 2407-2413
Quotations: 551
Impact Factor: 4.94 (2016)
- Bianciotto V., Bandi C., Minerdi D., Sironi M., Tichy H.V., Bonfante P. (1996) An obligately endosymbiotic mycorrhizal fungus itself harbors obligately intracellular bacteria. *Applied and Environmental Microbiology* 62: 3005-3010
Quotations: 319
Impact Factor: 4.31 (2015)
- Taylor M.J., Bandi C., Hoerauf A. (2005) *Wolbachia* bacterial endosymbionts of filarial nematodes. *Advances in Parasitology* 60: 245-284
Quotations: 296
Impact Factor: 5.05 (2015)
- Lo N., Tokuda G., Watanabe H., Rose H., Slaytor M., Maekawa K., **Bandi C.**, Noda H. (2000) Evidence from multiple gene sequences indicates that termites evolved from wood-feeding cockroaches. *Current Biology* 10: 801-804
Quotations: 281
Impact Factor: 8.851 (2016)
- Casiraghi M., Anderson T.J.C., Bandi C., Bazzocchi C., Genchi C. (2001) A phylogenetic analysis of filarial nematodes: comparison with the phylogeny of *Wolbachia* endosymbionts. *Parasitology* 122: 93-103
Quotations: 274
Impact Factor: 2.71 (2016)
- Bandi C., McCall J.W., Genchi C., Corona S., Venco L., Sacchi L. (1999) Effects of tetracycline on the filarial worms *Brugia pahangi* and *Dirofilaria immitis* and their bacterial endosymbionts *Wolbachia*. *International Journal for Parasitology* 29: 357-364
Quotations: 250
Impact Factor: 3.73 (2016)
- Lo N., Casiraghi M., Salati E., Bazzocchi C., C. Bandi (2002) How many *Wolbachia* supergroups exist? *Molecular Biology and Evolution* 19: 341-346
Quotations: 249
Impact Factor: 13.6 (2015)
- Sironi M., Bandi C., Sacchi L., Di Sacco B., Damiani G., Genchi C. (1995) Molecular evidence for a close relative of the arthropod endosymbiont *Wolbachia* in a filarial worm. *Molecular and Biochemical Parasitology* 74: 223-227
Quotations: 246
Impact Factor: 2.48 (2015)
- Favia G, Ricci I, Damiani C, Raddadi N, Crotti E, Marzorati M, Rizzi A, Urso R, Brusetti L, Borin S, Mora D, Scuppa P, Pasqualini L, Clementi E, Genchi M, Corona S, Negri I, Grandi G, Alma A, Kramer L, Esposito F, Bandi C, Sacchi L, Daffonchio D (2007) Bacteria of the genus *Asaia* stably associate with *Anopheles stephensi*, an Asian malarial mosquito vector. *Proc Natl Acad Sci U S A*. 104: 9047-9051.
Quotations: 238
Impact Factor: 9.7 (2016)
- Bandi C., Trees A.J., Brattig N. (2001) *Wolbachia* in filarial nematodes: evolutionary aspects and implications for the pathogenesis and treatment of filarial diseases. *Veterinary Parasitology* 98: 215-238
Quotations: 206
Impact Factor: 2.49 (2015)

PERSONAL INFORMATION **Claudio Bandi** 02 50314710 claudio.bandi@unimi.it

Date of birth 09 Feb 1962 | Nationality Italian

POSITION **Professor of Microbiology, Università degli Studi di Milano**

WORK EXPERIENCE

October 2019 - Onwards
Full Professor of Microbiology
Institution: Università degli Studi di Milano
Location: via Celoria 26, Milano
Division: Department of Biosciences

November 2010 – September 2018
Full Professor of Parasitology and Parasitic Diseases
Institution: Università degli Studi di Milano
Location: via Celoria 26, Milano
Division: School of Veterinary Medicine and Department of Biosciences

October 2000-October 2010:
Associate Professor of Parasitology and Parasitic Diseases
Institution: Università degli Studi di Milano
Location: via Celoria 10, Milano
Division: School of Veterinary Medicine

August 1998 - September 2000
Position: Assistant Professor of Parasitology and Parasitic Diseases
Institution: Università degli Studi di Milano
Location: via Celoria 10, Milano
Division: School of Veterinary Medicine

EDUCATION AND TRAINING

Degree: not applicable
Years: 1996-1998
Università degli studi di Milano
Field of studies: Post Doctoral position, molecular evolution and phylogenetics of uncultured bacteria

Degree: 1995 PhD in Comparative Pathology
Years: November 1991 – December 1994
Università degli studi di Milano
Field of studies: molecular diagnostics and molecular epidemiology of *Trichinella* spp.

Degree: 1990, Laurea degree in Biology with honor (110/110 e lode)
Università degli studi di Pavia
Years: October 1984 – July 1990
Field of studies: molecular taxonomy and molecular diagnostics of infectious agents

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Independent user	Proficient user	Independent user	Independent user	Proficient user

Communication skills ▪ good communication skills

Organisational / managerial skills ▪ leadership (currently responsible for a team of over 10 people)

PUBLICATIONS

See also <https://scholar.google.it/citations?user=MSkje9MAAAAJ&hl=it>

1. Cafiso A, Sasserà D, Serra V, Bandi C, McCarthy U, Bazzocchi C. Molecular evidence for a bacterium of the family Midichloriaceae (order Rickettsiales) in skin and organs of the rainbow trout *Oncorhynchus mykiss* (Walbaum) affected by red mark syndrome. *J Fish Dis.* 2016 Apr;39(4):497-501.
2. Gaiarsa S, De Marco L, Comandatore F, Marone P, Bandi C, Sasserà D. Bacterial genomic epidemiology, from local outbreak characterization to species-history reconstruction. *Pathog Glob Health.* 2015;109(7):319-27.
3. Comandatore F, Cordaux R, Bandi C, Blaxter M, Darby A, Makepeace BL, Montagna M, Sasserà D. Supergroup C Wolbachia, mutualist symbionts of filarial nematodes, have a distinct genome structure. *Open Biol.* 2015 Dec;5(12).
4. Genchi M, Prati P, Vicari N, Manfredini A, Sacchi L, Clementi E, Bandi C, Epis S, Fabbi M. Francisella tularensis: No Evidence for Transovarial Transmission in the Tularemia Tick Vectors *Dermacentor reticulatus* and *Ixodes ricinus*. *PLoS One.* 2015 Aug 5;10(8):e0133593
5. Onori R, Gaiarsa S, Comandatore F, Pongolini S, Brisse S, Colombo A, Cassani G, Marone P, Grossi P, Minoja G, Bandi C, Sasserà D, Toniolo A. Tracking Nosocomial *Klebsiella pneumoniae* Infections and Outbreaks by Whole-Genome Analysis: Small-Scale Italian Scenario within a Single Hospital. *J Clin Microbiol.* 2015 Sep;53(9):2861-8.
6. Scaltriti E, Sasserà D, Comandatore F, Morganti M, Mandalari C, Gaiarsa S, Bandi C, Zehender G, Bolzoni L, Casadei G, Pongolini S. Differential Single Nucleotide Polymorphism-Based Analysis of an Outbreak Caused by *Salmonella enterica* Serovar Manhattan Reveals Epidemiological Details Missed by Standard Pulsed-Field Gel Electrophoresis. *J Clin Microbiol.* 2015 Apr;53(4):1227-38.
7. Montagna M, Chouaia B, Mazza G, Prosdocimi EM, Crotti E, Mereghetti V, Vacchini V, Giorgi A, De Biase A, Longo S, Cervo R, Lozzia GC, Alma A, Bandi C, Daffonchio D. 2015. Effects of the diet on the microbiota of the red palm weevil (Coleoptera: Dryophthoridae). *PLoS One.* 2015 Jan 30;10(1):e0117439.
8. Zanzani S, Epis S, Bandi C, Manfredi MT. What is your diagnosis? Fecal smear stained with Lugol's solution and Giemsa from a cynomolgus macaque (*Macaca fascicularis*) presenting with liquid diarrhea. *Vet Clin Pathol.* 2014 Jun;43(2):293-4.
9. Chouaia B, Gaiarsa S, Crotti E, Comandatore F, Degli Esposti M, Ricci I, Alma A, Favia G, Bandi C, Daffonchio D. Acetic acid bacteria genomes reveal functional traits for adaptation to life in insect guts. *Genome Biol Evol.* 2014 Apr;6(4):912-20.
10. Cappelli A, Ulissi U, Valzano M, Damiani C, Epis S, Gabrielli MG, Conti S, Polonelli L, Bandi C, Favia G, Ricci I. A *Wickerhamomyces anomalus* killer strain in the malaria vector *Anopheles stephensi*. *PLoS One.* 2014 May 1;9(5):e95988.
11. Degli Esposti M, Chouaia B, Comandatore F, Crotti E, Sasserà D, Lievens PM, Daffonchio D, Bandi C. Evolution of mitochondria reconstructed from the energy metabolism of living bacteria. *PLoS One.* 2014 May 7;9(5):e96566.

12. Montagna M, Gómez-Zurita J, Giorgi A, Epis S, Lozzia G, Bandi C. Metamicrobiomics in herbivore beetles of the genus *Cryptocephalus* (Chrysomelidae): toward the understanding of ecological determinants in insect symbiosis. *Insect Sci.* 2014 May 28.
13. Epis S, Porretta D, Mastrantonio V, Comandatore F, Sasserà D, Rossi P, Cafarchia C, Otranto D, Favia G, Genchi C, Bandi C, Urbanelli S. ABC transporters are involved in defense against permethrin insecticide in the malaria vector *Anopheles stephensi*. *Parasit Vectors.* 2014 Jul 29;7:349.
14. Gaiarsa S, Comandatore F, Gaibani P, Corbella M, Dalla Valle C, Epis S, Scaltriti E, Carretto E, Farina C, Labonia M, Landini MP, Pongolini S, Sambri V, Bandi C, Marone P, Sasserà D. Genomic epidemiology of *Klebsiella pneumoniae* in Italy and novel insights into the origin and global evolution of its resistance to carbapenem antibiotics. *Antimicrob Agents Chemother.* 2015 59: 389-96.
15. Pistone D, Bione A, Epis S, Pajoro M, Gaiarsa S, Bandi C, Sasserà D. Presence of *Wolbachia* in Three Hymenopteran Species: *Diprion pini* (Hymenoptera: Diprionidae), *Neodiprion sertifer* (Hymenoptera: Diprionidae), and *Dahlbominus fuscipennis* (Hymenoptera: Eulophidae). *J Insect Sci.* 2014 Jan 1;14:147.
16. Epis S, Porretta D, Mastrantonio V, Urbanelli S, Sasserà D, De Marco L, Mereghetti V, Montagna M, Ricci I, Favia G, Bandi C. Temporal dynamics of the ABC transporter response to insecticide treatment: insights from the malaria vector *Anopheles stephensi*. *Sci Rep.* 2014 Dec 11;4:7435.
17. Sasserà, D., Gaiarsa, S., Scaltriti, E., Morganti, M., Bandi, C., Casadei, G., Pongolini, S. (2013) Draft Genome Sequence of *Salmonella enterica* subsp. *enterica* Serovar Manhattan Strain 111113, from an Outbreak of Human Infections in Northern Italy *Genome Announcements*, 1 (4).
18. Comandatore, F., Sasserà, D., Ambretti, S., Landini, M.P., Daffonchio, D., Marone, P., Sambri, V., Bandi, C., Gaibani, P. Draft Genome Sequences of Two Multidrug Resistant *Klebsiella pneumoniae* ST258 Isolates Resistant to Colistin (2013) *Genome Announcements*, 1 (1).
19. Prosdocimi, E.M., Novati, S., Bruno, R., Bandi, C., Mulatto, P., Giannico, R., Casiraghi, M., Ferri, E. (2013) Errors in ribosomal sequence datasets generated using PCR-coupled 'panbacterial' pyrosequencing, and the establishment of an improved approach *Molecular and Cellular Probes*, 27: 65-67.
20. Desirò, A., Naumann, M., Epis, S., Novero, M., Bandi, C., Genre, A., Bonfante, P. (2013) Mollicutes-related endobacteria thrive inside liverwort-associated arbuscular mycorrhizal fungi *Environmental Microbiology*, 15: 822-836.
21. Porretta, D., Mastrantonio, V., Mona, S., Epis, S., Montagna, M., Sasserà, D., Bandi, C., Urbanelli, S. (2013) The integration of multiple independent data reveals an unusual response to Pleistocene climatic changes in the hard tick *Ixodes ricinus* *Molecular Ecology* 22: 1666-1682.
22. Brunetti, E., Fabbì, M., Ferraioli, G., Prati, P., Filice, C., Sasserà, D., Dalla Valle, C., Bandi, C., Vicari, N., Marone, P. (2013). Cat-scratch disease in Northern Italy: Atypical clinical manifestations in humans and prevalence of *Bartonella* infection in cats *European Journal of Clinical Microbiology and Infectious Diseases*, 32: 531-534.
23. Gaibani, P., Mariconti, M., Bua, G., Bonora, S., Sasserà, D., Landini, M.P., Mulatto, P., Novati, S., Bandi, C., Sambri, V. (2013). Development of a broad-range 23S rDNA real-time PCR assay for the detection and quantification of pathogenic bacteria in human whole blood and plasma specimens. *BioMed Research International*, 2013, art. no. 264651.
24. Montagna, M., Sasserà, D., Epis, S., Bazzocchi, C., Vannini, C., Lo, N., Sacchi, L., Fukatsu, T., Petroni, G., Bandi, C. (2013). "Candidatus *Midichloriaceae*" fam. Nov. (Rickettsiales), an ecologically: Widespread clade of intracellular alphaproteobacteria *Applied and Environmental Microbiology*, 79: 3241-3248.
25. Piccoli, L., Bazzocchi, C., Brunetti, E., Mihailescu, P., Bandi, C., Mastalier, B., Cordos, I., Beuran, M., Popa, L.G., Meroni, V., Genco, F., Cretu, C. (2013). Molecular characterization of *Echinococcus granulosus* in south-eastern Romania: Evidence of G1-G3 and G6-G10 complexes in humans. *Clinical Microbiology and Infection*, 19: 578-582.
26. Tokuda, G., Elbourne, L.D.H., Kinjo, Y., Saitoh, S., Sabree, Z., Hojo, M., Yamada, A., Hayashi, Y., Shigenobu, S., Bandi, C., Paulsen, I.T., Watanabe, H., Lo, N. (2013). Maintenance of essential amino acid synthesis pathways in the *Blattabacterium cuenoti* symbiont of a wood-feeding cockroach *Biology Letters*, 9, art. 20121153.
27. Porretta, D., Mastrantonio, V., Amendolia, S., Gaiarsa, S., Epis, S., Genchi, C., Bandi, C., Otranto, D., Urbanelli, S. (2013). Effects of global changes on the climatic niche of the tick *Ixodes ricinus* inferred by species distribution modelling *Parasites and Vectors*, 6, art. 271.
28. Sasserà, D., Epis, S., Pajoro, M., Bandi, C. (2013) Microbial symbiosis and the control of vectorborne pathogens in tsetse flies, human lice, and triatomine bugs *Pathogens and Global Health*, 107: 285-292.

29. Capone, A., Ricci, I., Damiani, C., Mosca, M., Rossi, P., Scuppa, P., Crotti, E., Epis, S., Angeletti, M., Valzano, M., Sacchi, L., Bandi, C., Daffonchio, D., Mandrioli, M., Favia, G (2013). Interactions between *Asaia*, *Plasmodium* and *Anopheles*: New insights into mosquito symbiosis and implications in Malaria Symbiotic Control Parasites and Vectors, 6 (1), art. 182.
30. Bazzocchi, C., Mariconti, M., Sasser, D., Rinaldi, L., Cringoli, G., Urbanelli, S., Genchi, C., Bandi, C., Epis, S. (2013). Molecular and serological evidence for the circulation of the tick symbiont *Midichloria* (Rickettsiales: Midichloriaceae) in different mammalian species Parasites and Vectors, 6, art. 350.
31. Montagna, M., Sasser, D., Griggio, F., Epis, S., Bandi, C., Gissi, C (2012). Tick-Box for 3'-End Formation of Mitochondrial Transcripts in Ixodida, Basal Chelicerates and *Drosophila* PLoS ONE, 7, e47538.
32. Mariconti, M., Epis, S., Gaibani, P., Valle, C.D., Sasser, D., Tomao, P., Fabbri, M., Castelli, F., Marone, P., Sambri, V., Bazzocchi, C., Bandi, C (2012). Humans parasitized by the hard tick *Ixodes ricinus* are seropositive to *Midichloria mitochondrii*: Is *Midichloria* a novel pathogen, or just a marker of tick bite? Pathogens and Global Health, 106: 391-396.
33. Godel, C., Kumar, S., Koutsovoulos, G., Ludin, P., Nilsson, D., Comandatore, F., Wrobel, N., Thompson, M., Schmid, C.D., Goto, S., Bringaud, F., Wolstenholme, A., Bandi, C., Epe, C., Kaminsky, R., Blaxter, M., Maser, P (2012). The genome of the heartworm, *Dirofilaria immitis*, reveals drug and vaccine targets FASEB Journal, 26: 4650-4661.
34. Mariconti, M., Epis, S., Sacchi, L., Biggiogera, M., Sasser, D., Genchi, M., Alberti, E., Montagna, M., Bandi, C., Bazzocchi, C (2012). A study on the presence of flagella in the order Rickettsiales: The case of '*Candidatus Midichloria mitochondrii*' Microbiology (United Kingdom), 158: 1677-1683.
35. Epis S, Gaibani P, Ulissi U, Chouaia B, Ricci I, Damiani C, Sambri V, Castelli F, Buelli F, Daffonchio D, Bandi C, Favia G. (2012) Do mosquito-associated bacteria of the genus *Asaia* circulate in humans? Eur J Clin Microbiol Infect Dis. 6:1137-1140
36. Crotti E, Balloi A, Hamdi C, Sansonno L, Marzorati M, Gonella E, Favia G, Cherif A, Bandi C, Alma A, Daffonchio D. (2012) Microbial symbionts: a resource for the management of insect-related problems. Microb Biotechnol. 5:307-317.
37. Galimberti A, Romano DF, Genchi M, Paoloni D, Vercillo F, Bizzarri L, Sasser D, Bandi C, Genchi C, Ragni B, Casiraghi M. (2012) Integrative taxonomy at work: DNA barcoding of taeniids harboured by wild and domestic cats. Mol Ecol Resour. 12: 403-413.
38. Genchi C, Kramer LH, Sasser D, Bandi C. (2012). *Wolbachia* and its implications for the immunopathology of filariasis. Endocr Metab Immune Disord Drug Targets. 12:53-56.
39. Pistone D, Marone P, Pajoro M, Fabbri M, Vicari N, Daffara S, Dalla Valle C, Gabba S, Sasser D, Verri A, Montagna M, Epis S, Monti C, Strada EG, Grazioli V, Arrigoni N, Giacosa A, Bandi C. (2012) *Mycobacterium avium* paratuberculosis in Italy: commensal or emerging human pathogen? Dig Liver Dis. 44: 461-465
40. Pinto SB, Mariconti M, Bazzocchi C, Bandi C, Sinkins SP. (2012) *Wolbachia* surface protein induces innate immune responses in mosquito cells. BMC Microbiol. 12, art. S11.
41. Chouaia B, Rossi P, Epis S, Mosca M, Ricci I, Damiani C, Ulissi U, Crotti E, Daffonchio D, Bandi C, Favia G. (2012) Delayed larval development in *Anopheles* mosquitoes deprived of *Asaia* bacterial symbionts. BMC Microbiol. 12, art. S2.
42. Hamdi C, Balloi A, Essanaa J, Crotti E, Gonella E, Raddadi N, Ricci I, Budabous A, Borin S, Manino A, Bandi C, Alma A, Daffonchio D, Cherif A (2011) Gut microbiome dysbiosis and honeybee health Source: J appl entomol. 7: 524-533
43. Ricci I, Damiani C, Rossi P, Capone A, Scuppa P, Cappelli A, Ulissi U, Mosca M, Valzano M, Epis S, Crotti E, Daffonchio D, Alma A, Sacchi L, Mandrioli M, Bandi C, Favia G. (2011) Mosquito symbioses: from basic research to the paratransgenic control of mosquito-borne diseases. J appl entomol. 7: 487-493
44. Foster J, Slatko B, Bandi C, Kumar S (2011) Recombination in *Wolbachia* endosymbionts of filarial nematodes? Appl Environ Microbiol 77: 1921-1922
45. Sasser D, Lo N, Epis S, D'Auria G, Montagna M, Comandatore F, Horner D, Peretó J, Luciano AM, Franciosi F, Ferri E, Crotti E, Bazzocchi C, Daffonchio D, Sacchi L, Moya A, Latorre A, Bandi C. (2011) Phylogenomic evidence for the presence of a flagellum and *cbb3* oxidase in the free-living mitochondrial ancestor. Mol Biol Evol. 12:3285-3296.
46. Ferri E, Bain O, Barbuto M, Martin C, Lo N, Uni S, Landmann F, Baccei SG, Guerrero R, de Souza Lima S, Bandi C, Wanji S, Diagne M, Casiraghi M. (2011) New insights into the evolution of *Wolbachia* infections in filarial nematodes inferred from a large range of screened species. PLoS One.;6(6):e20843.
47. Ricci I, Damiani C, Scuppa P, Mosca M, Crotti E, Rossi P, Rizzi A, Capone A, Gonella E, Ballarini P, Chouaia B, Sagnon NF, Esposito F, Alma A, Mandrioli M, Sacchi L, Bandi C, Daffonchio D, Favia G (2011) The yeast *Wickerhamomyces anomalus* (*Pichia*

- anomala) inhabits the midgut and reproductive system of the Asian malaria vector *Anopheles stephensi*. *Environ Microbiol.* 13: 911-921.
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In fede



Prof. Claudio Bandi