

Claudio Bandi – Curriculum Vitae

Claudio Bandi is Full Professor of Parasitology and Parasitic Diseases at the University of Milano. He obtained the Laurea degree with Honour at the University of Pavia (1991) and then the PhD in comparative Pathology at the University of Milano (1996). He is author of over 150, highly quoted papers in peer-reviewed journals (H-index: 56; total quotations: 10,000; Google Scholar). Coordinator of the PhD in Animal Biology, starting from 1st October 2015 he will be the coordinator of the Master Course in Biodiversity and Evolutionary Biology at the Department of Life Sciences, University of Milano. Starting from his master thesis, CB pioneered the introduction of novel diagnostic methodologies in clinical microbiology and parasitology, with the development of protocols that had been applied for years at the International Trichinella Reference Centre in Rome (<http://w3.iss.it/site/Trichinella/>), and for the characterization of parasitic protozoan at diagnostic laboratories (e.g. see in PubMed papers published by CB in the period 1993-1998). Besides the above interest for diagnostic applications, most of the scientific interest of CB career had been devoted to study of intracellular, 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), with application, since 20 years ago, of the now widely employed methodologies for ‘amplicon-based metagenomics’. 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 into the mitochondria (*Mitochondria*; e.g. Sassera 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 to the cure of filarial diseases (see Bandi C et al IJP 1999), a major health problem in the tropics that afflict over 250 million people. Other outcomes that derived from these studies on the microbiota associated with filarial parasites are 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 the launch of 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 Milano, in collaboration with his former PostDoc Davide Sassera, a complete pipeline for bacterial genomics, including all of the know-how for comparative genomics, phylogenomics, molecular evolutionary analyses. This allowed the group to sequence the intra-mitochondrial bacterium *Mitochondria* (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 diagnostics, and then of culture-independent study of microbial symbionts, full genome sequencing on bacteria and bacterial phylogenomics, in 2013 CB launched the proposal to develop EGSM, a first, collaborative, pilot platform for genomic epidemiology (see Preliminary data and rationale of the project and <http://epidemiologiagenomica.sanmatteo.org/>; Gaiarsa S et al AAC 2015 and in Onori R et al JCM 2015). Finally, CB has always performed his scientific activity with a strong ‘bias’ towards translational results: from the development of novel molecular-based PCR methods, to the introduction of novel strategies to the control of filarial diseases, to the idea of promoting the EGSM for the application of NGS to the study of nosocomial infections.

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: 525

- 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: 304
- Taylor M.J., Bandi C., Hoerauf A. (2005) *Wolbachia* bacterial endosymbionts of filarial nematodes. *Advances in Parasitology* 60: 245-284
Quotations: 271
- 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: 257
- 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: 240
- Lo N., Casiraghi M., Salati E., Bazzocchi C., C. Bandi (2002) How many *Wolbachia* supergroups exist? *Molecular Biology and Evolution* 19: 341-346
Quotations: 236
- Sironi M., Bandi C., Sacchi L., Di Sacco B., Damiani G., Genchi C. (1995) A close relative of the arthropod endosymbiont *Wolbachia* in a filarial worm. *Molecular and Biochemical Parasitology* 74: 223-227
Quotations: 226
- 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: 217
- 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
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- Hoerauf a, Specht S, Büttner M, Pfarr K, Mand s, Fimmers R, Marfo-Debrekeye Y, Konadu P, Debrah Ay, Bandi C., Brattig N, Albers A, Larbi J, Batsa L, Taylor Mj, Adjei O, Büttner Dw (2008). *Wolbachia* endobacteria depletion by doxycycline as antifilarial therapy has macrofilaricidal activity in onchocerciasis: a randomized placebo-controlled study. *Medical Microbiology and Immunology* 197: 295-311
Quotations: 183

Claudio Bandi - List of publications

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

1. Cafiso A, Sasser 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, Sasser 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, Sasser 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.
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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.
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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.
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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).

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22. Brunetti, E., Fabbì, M., Ferraioli, G., Prati, P., Filice, C., Sasser, 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., Sasser, 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., Sasser, 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.
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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.
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