

Publicazioni scientifiche peer-reviewed

1. Palatini, U., Miesen, P., Carballar-Lejarazu, R., Ometto, L., Rizzo, E., Zhijian, T., van Rij, R., Bonizzoni, M. Comparative genomics shows that viral integrations are abundant and express piRNAs in the arboviral vectors *Aedes aegypti* and *Aedes albopictus* (2017) BMC Genomics (in press)
2. Olson, K.E., Bonizzoni, M. Nonretroviral integrated RNA viruses in arthropod vectors: an occasional event or something more? (2017) Current Opinion in Insect Science, 22, pp. 45-53.
3. Manni, M., Guglielmino, C.R., Scolari, F., Vega-Rúa, A., Failloux, A.-B., Somboon, P., Lisa, A., Savini, G., Bonizzoni, M., Gomulski, L.M., Malacrida, A.R., Gasperi, G. Genetic evidence for a worldwide chaotic dispersion pattern of the arbovirus vector, *Aedes albopictus* (2017) PLoS Neglected Tropical Diseases, 11 (1), art. no. e0005332. Cited 1 time.
4. Xu, J., Bonizzoni, M., Zhong, D., Zhou, G., Cai, S., Li, Y., Wang, X., Lo, E., Lee, R., Sheen, R., Duan, J., Yan, G., Chen, X.-G. Multi-country Survey Revealed Prevalent and Novel F1534S Mutation in Voltage-Gated Sodium Channel (VGSC) Gene in *Aedes albopictus* (2016) PLoS Neglected Tropical Diseases, 10 (5), art. no. e0004696. Cited 3 times.
5. Chang, X., Zhong, D., Lo, E., Fang, Q., Bonizzoni, M., Wang, X., Lee, M.-C., Zhou, G., Zhu, G., Qin, Q., Chen, X., Cui, L., Yan, G. Landscape genetic structure and evolutionary genetics of insecticide resistance gene mutations in *Anopheles sinensis* (2016) Parasites and Vectors, 9 (1), art. no. 228, . Cited 2
6. Chen, X.-G., Jiang, X., Gu, J., Xu, M., Wu, Y., Deng, Y., Zhang, C., Bonizzoni, M., Dermauw, W., Vontas, J., Armbruster, P., Huang, X., Yang, Y., Zhang, H., He, W., Peng, H., Liu, Y., Wu, K., Chen, J., Lirakisi, M., Topalis, P., Van Leeuwen, T., Hall, A.B., Jiang, X., Thorpe, C., Mueller, R.L., Sun, C., Waterhouse, R.M., Yan, G., Tu, Z.J., Fang, X., James, A.A. Genome sequence of the Asian tiger mosquito, *Aedes albopictus*, reveals insights into its biology, genetics, and evolution (2015) Proceedings of the National Academy of Sciences of the United States of America, 112 (44), pp. E5907-E5915. Cited 34 times.
7. Bonizzoni, M., Ochomo, E., Dunn, W.A., Britton, M., Afrane, Y., Zhou, G., Hartsel, J., Lee, M.-C., Xu, J., Githeko, A., Fass, J., Yan, G. RNA-seq analyses of changes in the *Anopheles gambiae* transcriptome associated with resistance to pyrethroids in Kenya: Identification of candidate-resistance genes and candidate-resistance SNPs (2015) Parasites and Vectors, 8 (1), art. no. 474. Cited 4 times.
8. Evans, B.R., Gloria-Soria, A., Hou, L., McBride, C., Bonizzoni, M., Zhao, H., Powell, J.R. A multipurpose, high-throughput single-nucleotide polymorphism chip for the dengue and yellow fever mosquito, *Aedes aegypti* (2015) G3: Genes, Genomes, Genetics, 5 (5), pp. 711-718. Cited 9 times.
9. Manni, M., Lima, K.M., Guglielmino, C.R., Lanzavecchia, S.B., Juri, M., Vera, T., Cladera, J., Scolari, F., Gomulski, L., Bonizzoni, M., Gasperi, G., Silva, J.G., Malacrida, A.R. Relevant genetic differentiation among brazilian populations of *Anastrepha fraterculus* (Diptera, tephritidae) (2015) ZooKeys, 2015 (540), pp. 157-173. Cited 4 times.
10. Macias, V., Coleman, J., Bonizzoni, M., James, A.A. piRNA pathway gene expression in the malaria vector mosquito *Anopheles stephensi* (2014) Insect Molecular Biology, 23 (5), pp. 579-586. Cited 7 times.
11. Bonizzoni, M., Britton, M., Marinotti, O., Dunn, W.A., Fass, J., James, A.A. Probing functional polymorphisms in the dengue vector, *Aedes aegypti* (2013) BMC Genomics, 14 (1), art. no. 739, . Cited 8 times.
12. Bonizzoni, M., Gasperi, G., Chen, X., James, A.A. The invasive mosquito species *Aedes albopictus*: Current knowledge and future perspectives (2013) Trends in Parasitology, 29 (9), pp. 460-468. Cited 108 times.
13. Zhong, D., Lo, E., Hu, R., Metzger, M.E., Cummings, R., Bonizzoni, M., Fujioka, K.K., Sorvillo, T.E., Klueh, S., Healy, S.P., Fredregill, C., Kramer, V.L., Chen, X., Yan, G. Genetic Analysis of Invasive *Aedes albopictus* Populations in Los Angeles County, California and Its Potential Public Health Impact (2013) PLoS ONE, 8 (7), art. no. e68586. Cited 23 times.
14. Zhong, D., Chang, X., Zhou, G., He, Z., Fu, F., Yan, Z., Zhu, G., Xu, T., Bonizzoni, M., Wang, M.-H., Cui, L., Zheng, B., Chen, B., Yan, G. Relationship between Knockdown

- Resistance, Metabolic Detoxification and Organismal Resistance to Pyrethroids in *Anopheles sinensis* (2013) PLoS ONE, 8 (2), art. no. e55475. Cited 29 times.
15. Bonizzoni, M., Dunn, W.A., Campbell, C.L., Olson, K.E., Marinotti, O., James, A.A. Complex Modulation of the *Aedes aegypti* Transcriptome in Response to Dengue Virus Infection (2012) PLoS ONE, 7 (11), art. no. e50512. Cited 40 times.
 16. Bonizzoni, M., Afrane, Y., Dunn, W.A., Atieli, F.K., Zhou, G., Zhong, D., Li, J., Githeko, A., Yan, G. Comparative Transcriptome Analyses of Deltamethrin-Resistant and -Susceptible *Anopheles gambiae* Mosquitoes from Kenya by RNA-Seq (2012) PLoS ONE, 7 (9), art. no. e44607. Cited 36 times.
 17. Liu, C., Mauk, M.G., Hart, R., Bonizzoni, M., Yan, G., Bau, H.H. A low-cost microfluidic chip for rapid genotyping of malaria-transmitting mosquitoes (2012) PLoS ONE, 7 (8), art. no. e42222. Cited 28 times.
 18. Bonizzoni, M., Augustine Dunn, W., Campbell, C.L., Olson, K.E., Marinotti, O., James, A.A. Strain variation in the transcriptome of the dengue fever vector, *Aedes aegypti* (2012) G3: Genes, Genomes, Genetics, 2 (1), pp. 103-114. Cited 16 times.
 19. Bonizzoni, M., Bourjea, J., Chen, B., Crain, B.J., Cui, L., Fiorentino, V., Hartmann, S., Hendricks, S., Ketmaier, V., Ma, X., Muths, D., Pavesi, L., Pfautsch, S., Rieger, M.A., Santonastaso, T., Sattabongkot, J., Taron, C.H., Taron, D.J., Tiedemann, R., Yan, G., Zheng, B., Zhong, D. Permanent genetic resources added to Molecular Ecology Resources Database 1 April 2011-31 May 2011 (2011) Molecular Ecology Resources, 11 (5), pp. 935-936. Cited 6 times.
 20. Zhong, D., Bonizzoni, M., Zhou, G., Wang, G., Chen, B., Vardo-Zalik, A., Cui, L., Yan, G., Zheng, B. Genetic diversity of *Plasmodium vivax* malaria in China and Myanmar (2011) Infection, Genetics and Evolution, 11 (6), pp. 1419-1425. Cited 18 times.
 21. Bonizzoni, M., Dunn, W.A., Campbell, C.L., Olson, K.E., Dimon, M.T., Marinotti, O., James, A.A. RNA-seq analyses of blood-induced changes in gene expression in the mosquito vector species, *Aedes aegypti* (2011) BMC Genomics, 12, art. no. 82. Cited 48 times.
 22. Bertin, S., Scolari, F., Guglielmino, C.R., Bonizzoni, M., Bonomi, A., Marchini, D., Gomulski, L.M., Gasperi, G., Malacrida, A.R., Matessi, C. Sperm storage and use in polyandrous females of the globally invasive fruitfly, *Ceratitis capitata* (2010) Journal of Insect Physiology, 56 (11), pp. 1542-1551. Cited 10 times.
 23. Baliraine, F.N., Afrane, Y.A., Amenity, D.A., Bonizzoni, M., Vardo-Zalik, A.M., Menge, D.M., Githeko, A.K., Yan, G. A cohort study of *Plasmodium falciparum* infection dynamics in Western Kenya Highlands (2010) BMC Infectious Diseases, 10, art. no. 283. Cited 9 times.
 24. Khatoon, L., Baliraine, F.N., Bonizzoni, M., Malik, S.A., Yan, G. Genetic structure of *Plasmodium vivax* and *Plasmodium falciparum* in the Bannu district of Pakistan (2010) Malaria Journal, p. 112. Cited 24 times.
 25. Amenity, D.A., Bonizzoni, M., Isaacs, A.T., Jasinskiene, N., Chen, H., Marinotti, O., Yan, G., Jamesti, A.A. Comparative fitness assessment of *Anopheles stephensi* transgenic lines receptive to site-specific integration (2010) Insect Molecular Biology, 19 (2), pp. 263-269. Cited 28 times.
 26. Bonizzoni, M., Afrane, Y., Yan, G. Loop-mediated isothermal amplification (LAMP) for rapid identification of *Anopheles gambiae* and *Anopheles arabiensis* mosquitoes (2009) American Journal of Tropical Medicine and Hygiene, 81 (6), pp. 1030-1034. Cited 13 times.
 27. Khatoon, L., Baliraine, F.N., Bonizzoni, M., Malik, S.A., Yan, G. Short report: Prevalence of antimalarial drug resistance mutations in *Plasmodium vivax* and *P. falciparum* from a malaria-endemic area of Pakistan (2009) American Journal of Tropical Medicine and Hygiene, 81 (3), pp. 525-528. Cited 42 times.
 28. Bonizzoni, M., Afrane, Y., Baliraine, F.N., Amenity, D.A., Githeko, A.K., Yan, G. Genetic structure of *Plasmodium falciparum* populations between lowland and highland sites and antimalarial drug resistance in Western Kenya (2009) Infection, Genetics and Evolution, 9 (5), pp. 806-812. Cited 29 times.
 29. Baliraine, F.N., Afrane, Y.A., Amenity, D.A., Bonizzoni, M., Menge, D.M., Zhou, G., Zhong, D., Vardo-Zalik, A.M., Githeko, A.K., Yan, G. High prevalence of asymptomatic *Plasmodium falciparum* Infections in a highland area of western Kenya: A cohort study (2009) Journal of Infectious Diseases, 200 (1), pp. 66-74. Cited 61 times.

30. Bonizzoni, M., Gomulski, L.M., Malacrida, A.R., Capy, P., Gasperi, G. Highly similar piggyBac transposase-like sequences from various *Bactrocera* (Diptera, Tephritidae) species (2007) *Insect Molecular Biology*, 16 (5), pp. 645-650. Cited 15 times.
31. Aketarawong, N., Bonizzoni, M., Thanaphum, S., Gomulski, L.M., Gasperi, G., Malacrida, A.R., Guglielmino, C.R. Inferences on the population structure and colonization process of the invasive oriental fruit fly, *Bactrocera dorsalis* (Hendel) (2007) *Molecular Ecology*, 16 (17), pp. 3522-3532. Cited 49 times.
32. Malacrida, A.R., Gomulski, L.M., Bonizzoni, M., Bertin, S., Gasperi, G., Guglielmino, C.R. Globalization and fruitfly invasion and expansion: The medfly paradigm (2007) *Genetica*, 131 (1), pp. 1-9. Cited 116 times.
33. Bonizzoni, M., Gomulski, L.M., Bertin, S., Scolari, F., Guglielmino, C.R., Yuval, B., Gasperi, G., Malacrida, A.R. Unfaithful Mediterranean fruit fly *Ceratitidis capitata* females: Impact on the SIT? (2007) *Area-Wide Control of Insect Pests: From Research to Field Implementation*, pp. 175-182. Cited 6 times.
34. Aketarawong, N., Bonizzoni, M., Malacrida, A.R., Gasperi, G., Thanaphum, S. Seventeen novel microsatellite markers from an enriched library of the pest species *Bactrocera dorsalis sensu stricto* (2006) *Molecular Ecology Notes*, 6 (4), pp. 1138-1140. Cited 21 times.
35. Bonizzoni, M., Gomulski, L.M., Mossinson, S., Guglielmino, C.R., Malacrida, A.R., Yuval, B., Gasperi, G. Is polyandry a common event among wild populations of the pest *Ceratitidis capitata*? (2006) *Journal of Economic Entomology*, 99 (4), pp. 1420-1429. Cited 21 times.
36. Torti, C., Gomulski, L.M., Bonizzoni, M., Murelli, V., Moralli, D., Guglielmino, C.R., Raimondi, E., Crisafulli, D., Capy, P., Gasperi, G., Malacrida, A.R. Cchobo, a hobo-related sequence in *Ceratitidis capitata* (2005) *Genetica*, 123 (3), pp. 313-325. Cited 10 times.
37. Bonizzoni, M., Guglielmino, C.R., Smallridge, C.J., Gomulski, M., Malacrida, A.R., Gasperi, G. On the origins of medfly invasion and expansion in Australia (2004) *Molecular Ecology*, 13 (12), pp. 3845-3855. Cited 54 times.
38. Kanzok, S.M., Hoa, N.T., Bonizzoni, M., Luna, C., Huang, Y., Malacrida, A.R., Zheng, L. Origin of toll-like receptor-mediated innate immunity (2004) *Journal of Molecular Evolution*, 58 (4), pp. 442-448. Cited 30 times.
39. Baliraine, F.N., Bonizzoni, M., Guglielmino, C.R., Osir, E.O., Lux, S.A., Mulaa, F.J., Gomulski, L.M., Zheng, L., Quilici, S., Gasperi, G., Malacrida, A.R. Population genetics of the potentially invasive African fruit fly species, *Ceratitidis rosa* and *Ceratitidis fasciventris* (Diptera: Tephritidae) (2004) *Molecular Ecology*, 13 (3), pp. 683-695. Cited 41 times.
40. Gomulski, L.M., Torti, C., Murelli, V., Bonizzoni, M., Gasperi, G., Malacrida, A.R. Medfly transposable elements: Diversity, evolution, genomic impact and possible applications (2004) *Insect Biochemistry and Molecular Biology*, 34 (2), pp. 139-148. Cited 12 times.
41. Shao, Z.-Y., Mao, H.-X., Fu, W.-J., Ono, M., Wang, D.-S., Bonizzoni, M., Zhang, Y.-P. Genetic Structure of Asian Populations of *Bombus ignitus* (Hymenoptera: Apidae) (2004) *Journal of Heredity*, 95 (1), pp. 46-52. Cited 34 times.
42. Baliraine, F.N., Bonizzoni, M., Osir, E.O., Lux, S.A., Mulaa, F.J., Zheng, L., Gomulski, L.M., Gasperi, G., Malacrida, A.R. Comparative analysis of microsatellite loci in four fruit fly species of the genus *Ceratitidis* (Diptera: Tephritidae) (2003) *Bulletin of Entomological Research*, 93 (1), pp. 1-10. Cited 22 times.
43. Bonizzoni, M., Katsoyannos, B.I., Marguerie, R., Guglielmino, C.R., Gasperi, G., Malacrida, A., Chapman, T. Microsatellite analysis reveals remating by wild Mediterranean fruit fly females, *Ceratitidis capitata* (2002) *Molecular Ecology*, 11 (10), pp. 1915-1921. Cited 53 times.
44. Bonizzoni, M., Zheng, L., Guglielmino, C.R., Haymer, D.S., Gasperi, G., Gomulski, L.M., Malacrida, A.R. Microsatellite analysis of medfly bioinfestations in California (2001) *Molecular Ecology*, 10 (10), pp. 2515-2524. Cited 70 times.
45. Gomulski, L.M., Torti, C., Bonizzoni, M., Moralli, D., Raimondi, E., Capy, P., Gasperi, G., Malacrida, A.R. A new basal subfamily of mariner elements in *Ceratitidis rosa* and other tephritid flies (2001) *Journal of Molecular Evolution*, 53 (6), pp. 597-606. Cited 25 times.

46. Luna, C., Bonizzoni, M., Cheng, Q., Robinson, A.S., Aksoy, S., Zheng, L. Microsatellite polymorphism in tsetse flies (Diptera: Glossinidae) (2001) *Journal of Medical Entomology*, 38 (3), pp. 376-381. Cited 28 times.
47. Bonizzoni, M., Malacrida, A.R., Guglielmino, C.R., Gomulski, L.M., Gasperi, G., Zheng, L. Microsatellite polymorphism in the mediterranean fruit fly, *Ceratitidis capitata* (2000) *Insect Molecular Biology*, 9 (3), pp. 251-261. Cited 49 times.