

## FRANCESCA SCOLARI - Lista delle pubblicazioni

### Articoli su riviste internazionali dotate di Impact Factor

- Jacob V, **Scolari F**, Delatte H, Gasperi G, Jacquin-Joly E, Malacrida AR, Duyck P-R (2017) Current source density mapping of antennal sensory selectivity reveals conserved olfactory systems between tephritids and *Drosophila*. *Sci. Rep.* 7, 15304.
- Bing XL, Attardo GM, Vigneron A, Aksoy E, **Scolari F**, Malacrida A, Weiss BL, Aksoy S (2017) Unraveling the relationship between the Tsetse fly and its obligate symbiont *Wigglesworthia*: Transcriptomic and metabolomic landscapes reveals highly integrated physiological networks. *Proc. Biol. Sci.* 284 (1857): 20170360
- Manni M, Guglielmino CR, **Scolari F**, Vega-Rua A, Failloux A-B, Somboon P, Lisa A, Savini G, Bonizzoni M, Gomulski LM, Malacrida AR, Gasperi G (2017) Genetic Evidence for a Worldwide Chaotic Dispersion Pattern of the Arbovirus Vector, *Aedes albopictus*". *PLoS Negl. Trop. Dis.* 11(1):e0005332
- Gabrieli P, **Scolari F** (2016) Delivery of Nucleic Acids through Embryo Microinjection in the Worldwide Agricultural Pest Insect, *Ceratitis capitata*. *J. Vis. Exp.* (116). doi:10.3791/54528.
- Gabrieli P, **Scolari F**, Di Cosimo A, Savini G, Fumagalli M, Gomulski LM, Malacrida AR, Gasperi G (2016) Sperm-less males modulate female behaviour in *Ceratitis capitata* (Diptera: Tephritidae). *Insect Biochem. Mol. Biol.* 79:13-26.
- Medfly Genome Consortium (2016) The Whole Genome Sequence of the Mediterranean fruit fly, *Ceratitis capitata* (Wiedemann): a highly invasive and destructive pest of fruits and vegetables throughout the world. *Genome Biol.* 17(1):192.
- **Scolari F**, Benoit JB, Michalkova V, Aksoy E, Takac P, Abd-Alla AM, Malacrida AR, Aksoy S, Attardo GM (2016). The Spermatophore in *Glossina morsitans morsitans*: Insights into Male Contributions to Reproduction. *Sci. Rep.* 6:20334.
- Dritsou V, Topalis P, Windbichler N, Simoni A, Hall A, Lawson D, Hinsley M, Hughes D, Napolioni V, Crucianelli F, Deligianni E, Gasperi G, Gomulski LM, Savini G, Manni M, **Scolari F**, Malacrida AR, Arcà B, Ribeiro JM, Lombardo F, Saccone G, Salvemini M, Moretti R, Aprea G, Calvitti M, Picciolini M, Papathanos PA, Spaccapelo R, Favia G, Crisanti A, Louis C (2015). A draft genome sequence of an invasive mosquito: an Italian *Aedes albopictus*. *Pathog. Glob. Health* 109(5):207-20.
- Manni M, Lima KM, Carmela CR, Lanzavecchia SB, Juri M, Vera T, **Scolari F**, Gomulski LM, Gasperi G, Silva JG, Malacrida AR (2015) Relevant genetic differentiation among Brazilian populations of *Anastrepha fraterculus* (Diptera: Tephritidae). *ZooKeys* 540: 157-173.
- Manni M, Gomulski LM, Aketarawong N, Tait G, **Scolari F**, Somboon P, Guglielmino CR, Malacrida AR, Gasperi G (2015) Molecular markers for analyses of intraspecific genetic diversity in the Asian tiger mosquito, *Aedes albopictus*. *Parasit. Vectors* 8:188.
- **Scolari F**, Gomulski LM, Gabrieli P, Manni M, Savini G, Gasperi G, Malacrida AR (2014). How functional genomics will impact fruit fly pest control: the example of the Mediterranean fruit fly, *Ceratitis capitata*. *BMC Genetics* 15 Suppl 2:S11.

- **Scolari F**, Yuval B, Gomulski LM, Schetelig MF, Gabrieli P, Bassetti F, Wimmer EA, Malacrida AR, Gasperi G (2014). Polyandry in the medfly - shifts in paternity mediated by sperm stratification and mixing. *BMC Genetics* 15 Suppl 2:S10.
- Aketarawong N, Guglielmino CR, Karam N, Falchetto M, Manni M, **Scolari F**, Gomulski LM, Gasperi G, Malacrida AR (2014). The oriental fruit fly *Bactrocera dorsalis* s.s. in East Asia: disentangling the different forces promoting the invasion pathways and shaping the genetic make up of populations. *Genetica* 142(3):201-13.
- International *Glossina* Genome Initiative (2014) Genome Sequence of the Tsetse Fly (*Glossina morsitans*): Vector of African Trypanosomiasis. *Science* 344(6182):380-6.
- Siciliano P, He XL, Woodcock C, Pickett JA, Field LM, Birkett MA, Kalinova B, Gomulski LM, **Scolari F**, Gasperi G, Malacrida AR, Zhou JJ (2014) Identification of pheromone components and their binding affinity to the odorant binding protein CcapOBP83a-2 of the mediterranean fruit fly, *Ceratitis capitata*. *Insect Biochem Mol Biol* 48:51-62.
- Brelsfoard C, Tsiamis G, Falchetto M, Gomulski LM, Telleria E, Alam U, Doudoumis V, **Scolari F**, Benoit JB, Swain M, Takac P, Malacrida AR, Bourtzis K, Aksoy S (2014) Presence of extensive *Wolbachia* symbiont insertions discovered in the genome of its host *Glossina morsitans morsitans*. *PLoS Negl. Trop. Dis.* 8(4):e2728.
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- Gilles J, Schetelig M, **Scolari F**, Marec F, Capurro LM, Franz G, Bourtzis K (2013) Towards mosquito Sterile Insect Technique programmes: exploring genetic, molecular, mechanical and behavioural methods of sex separation in mosquitoes. *Acta Tropica*, 132 Suppl:S178-87.
- **Scolari F**, Gomulski LM, Ribeiro JMC, Siciliano P, Meraldi A, Falchetto M, Bonomi A, Manni M, Gabrieli P, Malovini A, Bellazzi R, Aksoy S, Gasperi G, Malacrida AR (2012) Transcriptional profiles of mating-responsive genes from testes and male accessory glands of the Mediterranean fruit fly, *Ceratitis capitata*. *PLoS ONE*, 7(10):e46812.
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- Gabrieli P, Gomulski LM, Bonomi A, Siciliano P, **Scolari F**, Franz G, Jessup A, Malacrida AR, Gasperi G (2011). Interchromosomal duplications on the *Bactrocera oleae* Y chromosome imply a distinct evolutionary origin of the sex chromosomes compared to *Drosophila*. *PLoS ONE*, 6: e17747.
- **Scolari F**, Siciliano P, Gabrieli P, Gomulski LM, Bonomi A, Gasperi G, Malacrida AR (2011). Safe and fit genetically modified insects for pest control: from lab to field applications. *Genetica*, 139: 41-52.
- Bertin S\*, **Scolari F\***, Guglielmino CR, Bonizzoni M, Bonomi A, Marchini D, Gomulski LM, Gasperi G, Malacrida AR, Matessi C (2010). Sperm storage and use in polyandrous

females of the globally invasive fruitfly, *Ceratitis capitata*. *J Insect Physiol.* 56 (11): 1542-1551. \*equal contribution.

- Gabrieli P, Falaguerra A, Siciliano P, Gomulski LM, **Scolari F**, Zacharopoulou A, Franz G, Malacrida AR, Gasperi G (2009) Sex and the single embryo: early development in the medfly, *Ceratitis capitata*. *BMC Dev. Biol.* 10:12.
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- Schetelig MF\*, **Scolari F\***, Handler AM, Kittelmann S, Gasperi G, Wimmer EA (2009) Site-specific recombination for the modification of transgenic strains of the Mediterranean fruit fly *Ceratitis capitata*. *Proc. Natl. Acad. Sci. USA*, 106(43):18171-18176. \*equal contribution.
- **Scolari F**, Schetelig M F, Gabrieli P, Siciliano P, Gomulski L M, Karam N, Wimmer E A, Malacrida A R & Gasperi G (2008) Insect transgenesis applied to tephritid pest control. *J Appl Entomol.* 132: 820-831.
- **Scolari F**, Schetelig MF, Bertin S, Malacrida AR, Gasperi G, Wimmer EA (2008) - Fluorescent sperm marking to improve the fight against the pest insect *Ceratitis capitata* (Wiedemann; Diptera: Tephritidae). *N Biotechnol.* 25 (1): 76-84.

### Articoli su Proceedings

- Schetelig MF, **Scolari F**, Handler AM, Gasperi G & Wimmer EA (2008) New genetic tools for improving SIT in *Ceratitis capitata*: embryonic lethality and sperm marking. In proceedings of the 7<sup>th</sup> International Symposium on Fruit Flies of Economic Importance (10 - 15 September, Salvador de Bahia, Brazil), Malavasi (ed), ADAB - Agencia de Defesa Agropecuaria da Bahia, Salvador, Bahia, Brazil, 1-19.
- **Scolari F**, Schetelig MF, Bertin S, Gasperi G, Wimmer E, Malacrida AR (2007) A transgenic sperm marking system in the medfly, as a tool for pest control strategies and sperm use analysis. *Entomological Research* 37 (Suppl. 1): A56.
- Bonizzoni M, Gomulski LM, Bertin S, **Scolari F**, Guglielmino CR, Yuval B, Gasperi G, Malacrida AR (2007) Unfaithful mediterranean fruit fly *Ceratitis capitata*: impact on the SIT? In Vreysen MJB, Hendrichs J, Robinson AS (eds.) *Area-Wide Control of Insect Pests: From Research to Field Implementation*, 175-182. Springer, Dordrecht, The Netherlands.

### Capitoli di libri

- Gasperi G, **Scolari F**. Manipolazione e soppressione degli insetti dannosi (2014). In F. Pennacchio (Ed.) 'Gli insetti e il loro controllo'. Pag. 693-702. Liguori Editore. 752 Pagine. ISBN: 978-88-207-5351-1.
- Malacrida AR, **Scolari F**, Falchetto M, Aksoy S. Tsetse flies (Diptera) (2014). In I.V. Sharakhov (Ed.) 'Protocols for cytogenetic mapping of arthropod genomes'. Pag. 79-91. CRC Press. 526 Pagine. ISBN 9781466598157.