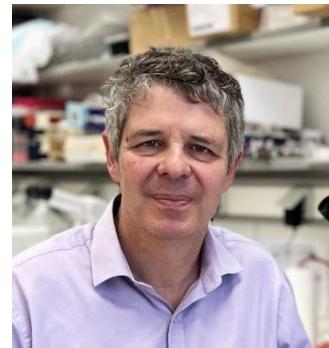


John Vontas - CURRICULUM VITAE

- Director IMBB-FORTH
- Professor Agr Pharmacology Agricultural University of Athens

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BIOSKETCH

John Vontas received his PhD in Insect Genetics from the Agricultural University of Athens (AUA) (1997). Subsequently **Marie Curie** TMR and Return fellowships allowed him to work at **Cardiff** University (1998-2001), **Liverpool** School of Tropical Medicine (2001-02) and the Institute of Molecular Biology and Biotechnology (IMBB-FORTH) (2002-04), as a postdoctoral researcher. He was appointed Lecturer at AUA (2004-08) and Associate Prof Department **Biology University of Crete** (2008-2013). He worked at the Innovative Vector Control Consortium (IVCC, funded by **Bill Gates Foundation**) in 2013-2014, to develop the funding framework for vector control - malaria research. He return to Greece in 2014, as Professor AUA (2014-today) and join Researcher at IMBB, and he is the **Director of IMBB since 2021**. His research focus on (**green**) **Biotechnology** based approaches for the control of mosquito disease vectors and agricultural pests, with emphasis on the analysis of mechanisms by which insects develop resistance to insecticides and the identification of novel insecticide targets. He teaches in national and international courses and **has supervised >30 PhD students and Post Doctoral Researchers**, some pursuing careers in academia and industry, worldwide. He has published over 280 papers (**h=80, citations >25000, Google Scholar**) and was among **highly cited researchers** Clavirate in 2021 and 2022. He has given a large number of **invited talks** worldwide and organized many international conferences and symposia. He is elected member of the European Molecular Biology Organization (EMBO). He is Associate **Editor** and/or Editorial Board member in several Q1 journals in his field. He is **panel member at the ERC** and many funding organizations in Europe and worldwide. He has **coordinated >50 major projects** (GSRT, EU Horizon2020, Horizon Europe, Industry), **raising a total budget of >40M€**. He has long term **collaborations with Greek authorities** (at Ministry and Prefecture level), to support Public Health / mosquito control activities and innovative plant protection programs. He was member of the Advisory Committee at The Hellenic Foundation for Research and Innovation (HFRI, 2018-22) and member of the National Life Science Council of Greece (GSRI, 2018-2020).

Selected / current Research Grants as COORDINATOR (>40M €)

No	Funding	Title	Time / Budget
1	Bill & Melinda Gates Foundation	NECTAR: novel insecticide target discovery	2025-2027 (650K)
2	HORIZON-FARM2FORK-NextGenBioPest	Next Generation Biopesticides for the control of the most “difficult-to-manage” pests	2023-2027 (6,5M; 1M JV)
3	GSRI Flagship actions, InnoPP - TAEDR-0535675	Innovations in Plant Protection for sustainable and environmentally friendly pest control	2023-2025 (5M, 350K JV)
4	HORIZON-WIDERA-2022 ERA CHAIR	Microbial Biopesticides to Control Disease Vectors and Agricultural Pests (MicroBioPest)	2023-2028 (2.5M)
5	BAYER	Discovery of novel insecticide target and resistance analysis	2015-2024 (2.3 M)
6	HORIZON 2020-MSCA-RISE-2020, CypTox	Develop highly selective and safe insecticides	2021-2025 (1.2M,340K JV)
7	SYNGENTA	In vitro metabolism: insecticide selectivity and robustness by design	2020-2025 (1M)

SELECTED/RECENT PUBLICATIONS

1. Balaska S., Grigoraki L*, Oladepo F., Colman F., Lycett G., Weetman D., Vontas J., Paine M., and Hanafy M. Ismail* Predictive chemoproteomics and functional validation reveal Coeae6g-mediated insecticide resistance in the malaria vector *An. gambiae*” **Nature Communications** (accepted, in press)
2. Kefi M, Balabanidou V, Sarafoglou C, Charamis J, Lycett G, Ranson H, Gouridis G, Vontas J. ABCH2 transporter mediates deltamethrin uptake and toxicity in the malaria vector *Anopheles coluzzii*. **PLoS Pathog.** 19(8):e1011226. DOI: 10.1371/journal.ppat.1011226..
3. Nauen R, Bass C, Feyereisen R, Vontas J. (2022) The Role of P450s in Insect Toxicology and Resistance. **Annu Rev Entomol.** 67:105-124. DOI: 10.1146/annurev-ento-070621-061328.
4. Vlogiannitis S, Mavridis K, Dermauw W, Snoeck S, Katsavou E, Morou E, Swevers L, Hemingway J, Feyereisen R, Van Leeuwen T, Vontas J. (2021) Reduced proinsecticide activation by cytochrome P450 confers coumaphos resistance in the major bee parasite Varroa destructor. **PNAS.** 118(6):e2020380118.
5. Ingham VA, Anthousi A, Douris V, Harding NJ, Lycett G, Morris M, Vontas J, Ranson H. (2020) A sensory appendage protein protects malaria vectors from pyrethroids. **NATURE** 577 (7790):376-380.
6. Balabanidou V, Kefi M, Aivaliotis M, Koidou V, Girotti JR, Mijailovsky SJ, Juárez MP, Papadogiorgaki E, Chalepkis G, Kampouraki A, Nikolaou C, Ranson H, Vontas J. (2019) Mosquitoes cloak their legs to resist insecticides. **Proc R Soc B.** 286(1907):20191091. DOI: 10.1098/rspb.2019.1091.
7. Singh KS, Troczka BJ, Duarte A, Balabanidou V, Trissi N, Carabajal Paladino LZ, Nguyen P, Zimmer CT, Papapostolou KM, Randall E, Lueke B, Marec F, Mazzoni E, Williamson MS, Hayward A, Nauen R, Vontas J, Bass C. (2020) The genetic architecture of a host shift: An adaptive walk protected an aphid and its endosymbiont from plant chemical defenses. **Sci. Adv.** 6(19): eaba1070.
8. Vontas J, Grigoraki L, Morgan J, Tsakireli D, Fuseini G, Segura L, Niemczura de Carvahlo J, Nguema R, Weetman D, Slotman MA, Hemingway J. (2018) Rapid selection of a pyrethroid metabolic enzyme CYP9K1 by operational malaria control activities. **PNAS.** 115(18):4619-4624.
9. Douris V, Steinbach D, Panteleri R, Livadaras I, Pickett JA, Van Leeuwen T, Nauen R, Vontas J. (2016) Resistance mutation conserved between insects and mites unravels the benzoylurea insecticide mode of action on chitin biosynthesis. **PNAS.** 113(51):14692–14697. DOI:10.1073/pnas.1618258113.
10. Balabanidou V, Kampouraki A, MacLean M, Blomquist GJ, Tittiger C, Juarez MP, Mijailovsky SJ, Chalepkis G, Anthousi A, Lynd A, Antoine S, Hemingway J, Ranson H, Lycett GJ, Vontas J. (2016) Cytochrome P450 associated with insecticide resistance catalyzes cuticular hydrocarbon production in *Anopheles gambiae*. **PNAS.** 113:9268-9273. DOI: 10.1073/pnas.1608295113 PMID: 27439866.
11. Neafsey DE, Waterhouse RM, Abai MR, ...Vontas J,..., Zwiebel L, Besansky N. (2015) Highly evolvable malaria vectors: The genomes of 16 *Anopheles* mosquitoes. **SCIENCE** 347 (6217):1258522
12. Hemingway J, Vontas J, Raman J, Lines J, Schwabe C, Matias A, Kleinschmidt I. (2013) Country-level operational implementation of the Global Plan for Insecticide Resistance **PNAS.** 110(23):9397-9402.
13. Dermauw W, Wybouw N, Rombauts S, Menten B, Vontas J, Grbic M, Clark RM, Feyereisen R, Van Leeuwen T. (2013) A link between host plant adaptation and pesticide resistance in the polyphagous spider mite *T. urticae*. **PNAS.** 110: 113-122.