

## CURRICULUM VITAE

### Curriculum Vitae of Israeli Principal Investigator

### Munir Mawassi

Date of Birth July/12/1965

Citizenship Israeli

#### University Education and Additional Training

1984-1987 B.Sc. at the Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel. In plant protection, specialization in plant diseases.

1988-1990 M.Sc. at the Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel.

1991-1996 Ph. D. at the Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel..

1996-2000 Postdoctoral position at the University of Florida, CREC, Lake Alfred, Florida, USA with Prof. William O. Dawson.

#### Position Held and Academic Status

Sept/2007-present Research Scientist (Grade A) at the ARO, The Volcani Center, Institute of plant protection.

#### Research Field:

- Molecular characterization of Citrus tristeza virus and of grapevine viruses.
- Etiology of citrus and grapevine viruses and their spread in the fields.
- Development of molecular methods for the virus detection in citrus and grapevines.
- Genetic engineering of viruses of citrus and grapevine viruses.

#### SELECTED PUBLICATIONS

1. **Mawassi, M.**, Satyanarayana, T., Gowda, S., Albiach-Marti, M.R., Robertson, C., and Dawson, W.O. (2000). Replication of heterologous combinations of helper and defective RNA of citrus tristeza virus. *Virology* 267, 360-369.
2. **Mawassi, M.**, Satyanarayana, T., Albiach-Marti, M.R., Gowda, S., Ayllon, M.A., Robertson, C., and Dawson, W.O. (2000). The Fitness of *Citrus Tristeza Virus* Defective RNAs is Affected by the Lengths of their 5'- and 3'-Termini and by the Coding Capacity. *Virology* 275, 42-56.
3. Satyanarayana, T., Gowda, S., **Mawassi, M.**, Albiach-Marti, M.R., Ayllon, M.A., Robertson, C., Garnsey, S.M., and Dawson, W.O. (2000). Closterovirus encoded HSP70 homolog and p61 in addition to both coat proteins function in virion assembly. *Virology* 278, 253-265.
4. Che, X., Piestun, D., **Mawassi, M.**, Yang, G., Satyanarayana, T., Gowda, S., Dawson, W.O., and Bar-Joseph, M. (2001). 5'-Coterminal subgenomic RNAs in citrus tristeza virus-infected cells. *Virology* 283, 374-381.
5. Gowda, S., Satyanarayana, T., Ayllon, M.A., Albiach-Marti, M.R., **Mawassi, M.**, Rabindran, S., Garnsey, S.M., and Dawson, W.O. (2001). Characterization of the *cis*-Acting elements controlling subgenomic mRNAs of *citrus tristeza virus*: production of positive- and negative-stranded 3'-terminal and positive-stranded 5'-terminal RNAs. *Virology* 286, 134-151.
6. Satyanarayana, T., Bar-Joseph, M., **Mawassi, M.**, Albiach-Marti, M.R., Ayllon, M.A., Gowda, S., Hilf, M.E., Moreno, P., Garnsey, S.M., and Dawson, W.O. (2001). Amplification of citrus tristeza virus from a cDNA clone and infection of citrus trees. *Virology* 280, 87-96.
7. Che, X., **Mawassi, M.**, and Bar-Joseph, M. (2002). A novel class of large and infectious defective-RNAs of *citrus tristeza virus*. *Virology* **298**, 133-145.
8. Wang, Q., Gafny, R., Sahar, N., Sela, I., **Mawassi, M.**, Tanne, E., and Perl, A. (2002). Cryopreservation of grapevine (*Vitis vinifera* L.) embryogenic cell suspension by encapsulation-dehydration and subsequent plant regeneration. *Plant Science* 162, 551-558.
9. Ayllon, M.A., Gowda, S., Satyanarayana, T., Karasev, V.A., Adkins, S., **Mawassi, M.**, Guerri, J., Moreno, P., and Dawson, W.O. (2003). Effect of modification of the transcription initiation site context on citrus tristeza virus subgenomic RNA synthesis. *Journal of Virology* **77**, 9232-9243.

10. Galiakparov, N., Goszczynski, D. E., Che, X., Batuman, O., Bar-Joseph, M., and **Mawassi, M.** (2003). Two classes of subgenomic RNA of *Grapevine virus A* produced by internal controller elements. *Virology* **312**, 434-448.
11. Galiakparov, N., Tanne, E., **Mawassi, M.**, Gafny, R., and Sela, I. (2003). ORF 5 of *Grapevine virus A* encodes a nucleic acid-binding protein and affects pathogenesis. *Virus Genes* **27**, 257-262.
12. Wang, Q., **Mawassi, M.**, Li, P., Gafny, R., Sela, I., and Tanne, E. (2003) Elimination of *Grapevine virus A* (GVA) by cryopreservation of *in vitro*-grown shoot tips from *Vitis vinifera* L. *Plant Science* **165**, 321-327.
13. Batuman O., **Mawassi, M.**, and Bar-Joseph, M. (2006). Trengenes consisting of a dsRNA of an RNAi suppressor plus the 3' UTR provide resistance to *Citrus tristeza virus* sequences in *Nicotiana benthamiana* but not in citrus. *Virus Genes* **33**, 319-327
14. Chiba, M., Reed, J.C., Prokhnevsky, A.I., Chapman, E.J., **Mawassi, M.**, Koonin, E.V., Carrington, J.C., Dolja, V.V. (2006). Diverse suppressors of RNA silencing enhance agroinfection by a viral replicon. *Virology* **346**, 7-14.
15. Cohen, O., Batuman O., Stanbekova, G., Sano, T., **Mawassi, M.**, and Bar-Joseph, M. (2006). Construction of a multiprobe for the simultaneous detection of viroids infecting citrus trees. *Virus Genes* **33**, 287-292.
16. Haviv, S., Galiakparov, N., Goszczynski, D., Batuman, O., M., Czosnek, H., **Mawassi, M.** (2006). Engineering the genome of Grapevine Virus A into a vector for expression of Proteins in herbaceous plants. *J. Virol. Meth.* **132**, 227-231.
17. **Mawassi, M.** (2007). The Vitivirus Grapevine Virus A: A "Small" but Surprising Virus. Guest Editorial Review. *Phytoparasitica* **35**, 425-428.
18. Brumin, M., Stukalov, S, Haviv, S., Muruganatham, M., Moskovitz, Y., Batuman, O., Fingstein, A., and **Mawassi, M.** (2009). Post-transcriptional gene silencing and virus resistance in *Nicotiana benthamiana* expressing a Grapevine virus A minireplicon. *Trans. Res.* **18**, 331-345.
19. Moskovitz, Y., Goszczynski, D.E., Bir, L., Fingstein, A., Czosnek, H., **Mawassi, M.** (2008). Sequencing and assembly of a full-length infectious clone of Grapevine virus B and its infectivity on herbaceous plants. *Arch. Virol.* **153**, 323-328
20. Muruganatham, M., Moskovitz, Y., Haviv, S., Horesh, T., Fenigstein, A., du Preez, J., Stephan, D., Burger, J.T., and **Mawassi, M.** (2009). Grapevine virus A-mediated gene silencing in *Nicotiana benthamiana* and *Vitis vinifera*. *J Virol. Meth.* **155**, 167-174.
21. du Preez, J., Stephan, D., **Mawassi, M.**, Burger, J.T. (2011). The grapevine-infecting vitiviruses, with particular reference to grapevine virus A. *Archives of Virology* **156**, 1495–1503.
22. Haviv, S., Moskovitz, Y., **Mawassi, M.** (2012). The ORF3-encoded proteins of vitiviruses GVA and GVB induce tubule-like and punctate structures during virus infection and localize to the plasmodesmata. *Virus Research* **163**, 291-301.
23. Haviv, S., Iddan, Y., Goszczynski, D.E., **Mawassi, M.** (2012). The ORF5 of Grapevine virus A is involved in symptoms expression in *Nicotiana benthamiana* plants. *Annals of Applied Biology* **160**, 181-190.
24. **Mawassi, M.**, Gera, A. (2012). Controlling plant response to the environment: Viral Diseases. pp 343-352. *In: Plant Biotechnology and Agriculture, prospects for the 21<sup>st</sup> century.* Et. Altman A., Hasegawa P.M. Academic press, London, UK.
25. Meng, B., Venkataraman, S., Li, C., Wang, W., Dayan-Glick, C., **Mawassi, M.** (2013). Construction and biological activities of the first infectious cDNA clones of the genus Foveavirus. *Virology* **435**, 453-62.
26. Ghosh S, Kanakala S, Lebedev G, Kontsedalov S, Silverman D, Alon T, Mor N, Sela N, Luria N, Dombrovsky A, **Mawassi M**, Haviv S, Czosnek H, Ghanim M. (2019). Transmission of a New Polorovirus Infecting Pepper by the Whitefly Bemisia tabaci. *J Virology* **93**, e00488-19. <https://doi.org/10.1128/JVI.00488-19>.
27. **Mawassi M**, Haviv S, Maslenin L. Amplification and Cloning of Large cDNA Fragments of the Citrus tristeza virus Genome. (2019). *Methods Mol Biol.* **2015**:151-161. doi:10.1007/978-1-4939-9558-5\_11.