**Education and Training**

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|---|---|
| 1975-1978 | B.Sc. in Agriculture at the Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel. |
| 1978-1980 | M.Sc. Botany and Plant Pathology at the Hebrew University of Jerusalem. Title of thesis: Nitrogen fixation in *grass-Azospirillum* association. Supervision by: Prof. Y. Okon and Prof. J. Kigel |
| 1980-1984 | Ph.D. Microbiology at the Hebrew University of Jerusalem Faculty of Agriculture, Department of Plant Pathology and Microbiology. Title of thesis: Studies on the association between *Azospirillum* spp. bacteria and wheat plants. Supervision by: Prof. Y. Henis and Prof. Y. Okon |
| 1984-1986 | Postdoctoral position at the University of California, Davis, Department of Agronomy and Range Science. Research subject: *Rhizobium*-legume symbiosis. Supervision by: Prof. D.A. Phillips. |
| 1991-1992 | Sabbatical leave at the Center for Agricultural Molecular Biology, Rutgers University, New Jersey, USA, with Prof. I. Raskin. Research subject: Alternative oxidase in plants' mitochondria |
| 1995-1996 | Sabbatical leave at Phytotech, Inc. Monmouth J. New Jersey, USA, with Dr. B. Ensley. Research subject: Phytoremedeation of heavy metal from contaminated soils. |

**Positions Held and Academic Status**

| | |
|---|---|
| 1980-1983 | Research Associate and Teaching Assistant, Dept. of Microbiology, The Hebrew Univ., Faculty of Agriculture. |
| 1984 | Instructor in Microbiology, Dept. of Microbiology, The Hebrew Univ., Faculty of Agriculture, Israel. |
| 1986-1987 | Crop Physiologist, Davis, Department of Agronomy and Range Science, University of California. |
| 1987-date | Research Scientist at the ARO, the Volcani Center, Institute of Field and Garden Crops. |
| 1987 | Promoted to Senior Scientist level B (equivalent to Senior Lecturer). |
| 1991 | Promoted to Senior Scientist level A (equivalent to Assoc. Prof.). |
| 1997 | Promoted to Senior Scientist level A + (equivalent to full Prof.). |
| 1998-2001 | Department head, Department of Agronomy and Natural Resources, Institute of Field and Garden Crops, ARO, The Volcani Center. |
| 2001-2004 | Director, Institute of Field and Garden Crops, ARO, The Volcani Center. |
| 2005- 2007 | Director, Institute of Plant Sciences, ARO, The Volcani Center. |

## Recent publications (last 5 years)


83. Miller G, Stein H, Honig A, **Kapulnik Y**, Zilberstein A (2005) Responsive modes of *Medicago sativa* proline dehydrogenase genes during salt stress and recovery dictate free proline accumulation.
Planta, 222: 70-79

84. Bar-Or C., **Kapulnik Y.** and H. Koltai (2005)
A broad characterization of the transcriptional profile of the compatible tomato response to the plant parasitic root knot nematode *Meloidogyne javanica*.
*Journal of Plant Pathology*. 111:181-192

85. Gal T.Z., Aussenberg E.R., Bordman S., **Kapulnik Y.** and H. Koltai (2006)
Expression of a plant expansin is necessary for completion of the root knot nematode life cycle.
*Planta* 4:1-8

86. Bar-Or C., Bar-Eyal M., Gal T.Z., **Kapulnik Y.**, Czosnek H. and H. Koltai (2006)
Derivation of Species-Specific Hybridization-like Knowledge out of Cross-Species Hybridization Results.
*BMC Genomics* 7: 110.

87. Bar-Or C., Bar-Akiva A., **Kapulnik Y.**, Czosnek H., Oren-Shamir M. and H. Koltai (2006) Cross-species hybridizations to spotted microarrays as a tool for functional genomics of horticultural plants. Acta. Hort. 763: 25-30.

88. Alkan N., Gadkar V., Yarden O. and **Kapulnik Y.** (2006) Analysis of quantitative interactions between two species of arbuscular mycorrhizal fungi (AMF), *Glomus mosseae* and *G. intraradices* by real-time PCR. Applied & Environmental Microbiology. 72: 4192-4199.

89. Xu G.-h., Chague V., Melamed-Bessudo C., **Kapulnik Y**., Jain A., Raghothama K. G., Levy A. A., Silber A. (2007).
Functional characterization of LePT4: a phosphate transporter in tomato with mycorrhiza-enhanced expression. Journal of Experimental Botany 58: 2491- 2499

90. Levin M, Lemcoff JH, Cohen S, and **Kapulnik Y** (2007)
Low air humidity increases leaf-specific hydraulic conductance of Arabidopsis thaliana (L.) Heynh (Brassicaceae). Journal of experimental botany 58: 3711-3718

91. Rillig MC., Ramsey PW., Gannon JE., Mummey DL. Gadkar V. and **Kapulnik Y.** (2008). Suitability of mycorrhiza-defective mutant/wild type plant pairs (*Solanum lycopersicum* L. cv Micro-Tom) to address questions in mycorrhizal soil ecology.Plant Soil, 308: 267–275

92. Aloni, B., Karni, L., Deventurero, G., Levin, Z., Cohen, R., Katzir, N., Lotan-Pompan, M., Edelstein, M., Aktas, H., Turhan, E., Joel, D.M., Horev, C. and **Kapulnik, Y.** (2008). Physiological and biochemical changes at the rootstock-scion interface in graft combinations between and *Cucurbita* rootstocks and melon scion.
J. of Hort. Sci. & Biotechnol. 83: 777-783

93. Lei Ge, Shubin Sun , Aiqun Chen, **Kapulnik Y.** and Guohua Xu (2008).
Tomato sugar transporter genes associated with mycorrhiza and phosphate
J. Plant Growth Regulation 55: 115-123

94. Dag, A., Yermiyahu,, U., Ben-Gal, A., Zipori, I. and **Kapulnik, Y**. (2009).
Nursery and post-transplant field response of olive trees to arbuscular mycorrhizal fungi in an arid region. Crop & Pasture Science 60: 427-433

95. P. Bonfante, A. Deagostino, **Kapulnik Y.**, P. Larini, E. G. Occhiato, C. Prandi, P. Venturello, Chaitali Bhattacharya (2009)
A New Class of Conjugated Strigolactone Analogues with Fluorescent Properties: Synthesis and Biological Activity. Organic & Biomolecular Chemistry, 7: 3413-3420

96 Ö. Üstüner, S. Wininger, V. Gadkar, H. Badani, M. Raviv, N. Dudai, S. Medina and **Kapulnik Y.** (2009).
Evaluation of different compost amendments with AM fungal inoculum for optimal growth of chives (*Allium schoenoprasum* L.). Compost science & utilization 17: 257-265

97 Hershenhorn, J., Eizenberg, H., Dor, E., **Kapulnik, Y.** and Goldwasser, Y. (2009).
Broomrape management in tomato.Weed Research 49: 34-47

98 Dermatsev, V., Weingarten-Baror, C., Resnick, N., Gadkar, V., Wininger, S., Kolotilin, I. Mayzlish-Gati, E., Zilberstein, A., Koltai, H. and **Kapulnik, Y.** (2010).
Microarray analysis and functional tests suggest expansins' involvement in the early stages of AM fungus *Glomus intraradices* symbiosis on tomato (*Solanum lycopersicum*)
Molecular Plant Pathology: 11: 121-135

99 Levin, M., Resnick, N., Rosianskey, Y., Kolotilin, I., Wininger, S., Lemcoff, H., Cohen, S., Galili, G., **Kapulnik, Y**. and Koltai, H. (2009).
Transcriptional profiling of *Arabidopsis thaliana* plants' response to low relative humidity suggests a shoot-root communication. Plant Science: 177: 450-459

100 Koltai H., Dor E., Hershenhorn J., Joel D.M., Weininger S., Lekalla S., Shealtiel H., Bahattacharya C., Eliahu E., Resnick N., Barg R. and **Kapulnik Y.** (2009). Strigolactones' Effect on Root Growth and Root-Hair Elongation may be Mediated by Auxin-Efflux Carriers. Journal of Plant Growth Regulation, In press. DOI: 10.1007/s00344-009-9122-7.

101. Dor E., Alperin B., Wininger S., Ben-Dor B., Somvanshi V.S., Koltai H., **Kapulnik Y.** and Hershenhorn J. (2009). Characterization of a novel tomato mutant resistant to *Orobanche* and *Phelipanche* spp. weedy parasites. *Euphytica*, 171: 371--380

102. Segev, A**., Badani, H., **Kapulnik, Y.,** Shomer, I., Oren-Shamir, M. and Galili S. (2010). Determination of polyphenols, flavonoids and antioxidant capacity in colored chickpea (*Cicer arietinum* L ). Journal of Food Science. In press.

103 Koltai H., LekKala S.P., Bahattacharya C., Mayzlish-Gati E., Resnick N., Wininger S., Dor E., Yoneyama K., Yoneyama K., Hershenhorn J., Joel D.M. and **Kapulnik Y.** (2010). A Tomato Strigolactone-Impaired Mutant Displays Aberrant Shoot Morphology and Plant Interactions. Journal of Experimental Botany. Accepted.

104. Ginzberg I., Tubi, A. Buchshtab O., Wininger S., Ben-Dor B., Fogelman E. and **Kapulnik Y.** (2010). Soil type and wetness affect tint of peanut **(***Arachis hypogaea* L.) pod shell**.** Peanut Science**.** In press

105**.** Mayzlish-Gati, E., LekKala, SP., Resnick N, Wininger S., Bhattacharya C., Lemcoff JH., **Kapulnik Y**. and H. Koltai (2010). Strigolactones are positive regulators of light harvesting genes in tomato Journal of Experimental Botany. Accepted.