

NAME Adi Avni		POSITION TITLE Professor Plant Molecular Biology	
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
The Hebrew University Jerusalem	B.Sc.	02/83	Biology
The Weizmann Institute of Science, Rehovot	M.Sc.	06/85	Neurobiology
The Weizmann Institute of Science, Rehovot	Ph.D	06/90	Plant Biology

Positions and Honors

1993-1999	Tel-Aviv University	Department of Plant Sciences	Lecturer
1999-2005	Tel-Aviv University	Department of Plant Sciences	Senior Lecture
2005-2010	Tel-Aviv University	Department of Plant Sciences	Associate Professor
2010-to date	Tel-Aviv University	School of Plant Sciences and Food Security	Full Professor

Peer-reviewed Publications (partial list)

- Dotan T, Jog A, Kadan-Jamal K, Avni A, Shacham-Diamand Y. (2023) In Vivo Plant Bio-Electrochemical Sensor Using Redox Cycling. Biosensors.; 13(2):219.
- Akao, P. K., A. Kaplan, D. Avisar, A. Dhir, A. Avni and H. Mamane (2022). "Removal of carbamazepine, venlafaxine and iohexol from wastewater effluent using coupled microalgal–bacterial biofilm." Chemosphere 308: 136399.
- Desagani, D., A. Jog, O. Teig-Sussholz, A. Avni and Y. Shacham-Diamand (2022). "Drought monitoring in tobacco plants by in-vivo electrochemical biosensor." Sensors and Actuators B: Chemical 356: 131357.
- Leibman-Markus, M., S. Schuster, B. Vasquez-Soto, M. Bar, A. Avni and L. Pizarro (2022). "Dynamin-related proteins enhance tomato immunity by mediating pattern recognition receptor trafficking." Membranes 12(8): 760.
- Marash, I., M. Leibman-Markus, R. Gupta, A. Avni and M. Bar (2022). "TOR inhibition primes immunity and pathogen resistance in tomato in a salicylic acid-dependent manner." Molecular Plant Pathology.
- Akao, P. K., B. Singh, P. Kaur, A. Sor, A. Avni, A. Dhir, S. Verma, S. Kapoor, U. G. Phutela and S. Satpute (2021). "Coupled microalgal–bacterial biofilm for enhanced wastewater treatment without energy investment." Journal of Water Process Engineering 41: 102029.

- Bar-On, L., U. Garlando, M. Sophocleous, A. Jog, P. Motto Ros, N. Sade, A. Avni, Y. Shacham-Diamand and D. Demarchi (2021). "Electrical Modelling of In-Vivo Impedance Spectroscopy of *Nicotiana tabacum* Plants." *Frontiers in Electronics* 2: 753145.
- Bar-On, L., U. Garlando, M. Sophocleous, A. Jog, P. M. Ros, N. Sade, A. Avni, Y. Shacham-Diamand and D. Demarchi (2021). "Electrical Modelling of In-Vivo Impedance Spectroscopy of *Nicotiana*." *Frontiers in Electronics* 2: 753145.
- Kadan-Jamal, K., A. Jog, M. Sophocleous, J. Georgiou, A. Avni and Y. Shacham-Diamand (2021). "Towards optimization of plant cell detection in suspensions using impedance-based analyses and the unified equivalent circuit model." *Scientific reports* 11(1): 1-7.
- Kadan-Jamal, K., M. Sophocleous, A. Jog, D. Desagani, O. Teig-Sussholz, J. Georgiou, A. Avni and Y. Shacham-Diamand (2021). "Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4 Hz to 20 GHz." *MethodsX* 8: 101185.
- Jog, A., L. Bar-on, A. Avni and Y. Shacham-Diamand (2020). Feasibility of Signal Transmission for Plant Body Channel Communication in Tobacco. 2020 IEEE SENSORS, IEEE.
- Kadan-Jamal, K., M. Sophocleous, A. Jog, D. Desagani, O. Teig-Sussholz, J. Georgiou, A. Avni and Y. Shacham-Diamand (2020). "Electrical Impedance Spectroscopy of plant cells in aqueous biological buffer solutions and their modelling using a unified electrical equivalent circuit over a wide frequency range: 4Hz to 20 GHz." *Biosensors and Bioelectronics* 168: 112485.
- Pizarro, L., M. Leibman-Markus, R. Gupta, N. Kovetz, I. Shtein, E. Bar, R. Davidovich-Rikanati, R. Zarivach, E. Lewinsohn and A. Avni (2020). "A gain of function mutation in SINRC4a enhances basal immunity resulting in broad-spectrum disease resistance." *Communications biology* 3(1): 1-14.
- Sussholz, O., L. Pizarro, S. Schuster and A. Avni (2020). "SIRLK-like is a malectin-like domain protein affecting localization and abundance of LeEIX2 receptor resulting in suppression of EIX-induced immune responses." *The Plant Journal* 104(5): 1369-1381.
- Urso, M., S. Tumino, E. Bruno, S. Bordonaro, D. Marletta, G. R. Loria, A. Avni, Y. Shacham-Diamand, F. Priolo and S. Mirabella (2020). "Ultrasensitive Electrochemical Impedance Detection of *Mycoplasma agalactiae* DNA by Low-Cost and Disposable Au-Decorated NiO Nanowall Electrodes." *ACS Applied Materials & Interfaces* 12(44): 50143-50151.
- Pizarro, L., M. Leibman-Markus, S. Schuster, M. Bar and A. Avni (2019). "Tomato dynamin related protein 2A associates with LeEIX2 and enhances PRR mediated defense by modulating receptor trafficking." *Frontiers in plant science* 10: 936.
- Leibman-Markus, M., L. Pizarro, S. Schuster, Z.J.D. Lin, O. Gershony, M. Bar, G. Coaker, and A. Avni, The intracellular nucleotide-binding leucine-rich repeat receptor (SINRC4a) enhances immune signalling elicited by extracellular perception. *Plant Cell Environ*, 2018. **41**(10): p. 2313-2327