



## Eran Blacher

Postdoctoral Research Fellow, Neurology and Neurological Sciences

### Bio

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#### BIO

Dr. Blacher carried out his B.Sc studies in Life Sciences (2007-2010) and proceeded to Ph.D. in Neuroimmunology (2010-2015) under the Dean's list honors direct Ph.D. program for outstanding students of Tel-Aviv University, Israel. His postdoctoral studies were carried out at the lab of Prof. Eran Elinav from the Immunology department at the Weizmann Institute of Science, Israel (2015-2018), where he studied the role of the Microbiome-gut-brain axis in the context of neurodegenerative diseases.

#### HONORS AND AWARDS

- NOSTER & Science Microbiome Prize, Grand prize winner, Science magazine, The American Association for the Advancement of Science (AAAS), NOSTER (2021)
- Marie Skłodowska-Curie European Global Fellowship, European Commission (2020)
- Stanford University School of Medicine Dean's Postdoctoral Fellowship, Stanford School of Medicine (2020)
- Dean of Faculty Fellowship, Weizmann Institute of Science, Israel. (2017-2019)
- Ela Kodesh Cancer Research Institute, Tel-Aviv University, Israel. (2015)
- Iafa Keydar Cancer Research Endowment, Tel-Aviv University, Israel. (2015)
- Sagol School of Neuroscience, Tel-Aviv University, Israel. (2015)
- TAU Cancer Biology Research Center (CBRC), Tel-Aviv University, Israel (2015)
- The Life Science Faculty Award for Excellence Achievements in Research, Tel-Aviv University, Israel. (2015)
- Adams Super-Center for Brain Studies, Tel-Aviv University, Israel. (2013)
- Anat Krauskopf travel fund, Tel-Aviv University, Israel (2013)
- Ela Kodesh Cancer Research Institute, Tel-Aviv University, Israel (2013)
- TAU Cancer Biology Research Center (CBRC), Tel-Aviv University, Israel. (2012)
- The Dean's list honors direct Ph.D. program for outstanding students. The Argentina foundation., Tel-Aviv University, Israel (2011-2015)
- Constantiner institute for molecular genetics, Tel-Aviv University, Israel (2010)
- Dean award for excellence, Tel-Aviv University, Israel. (2010)

#### LINKS

- My site: <https://sites.google.com/view/eranblacher/eran-blacher>

## Publications

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### PUBLICATIONS

- **Can microbes combat neurodegeneration?** *Science (New York, N.Y.)*  
Blacher, E.  
2021; 373 (6551): 172-173
- **CD38 in cancer-associated fibroblasts promotes pro-tumoral activity.** *Laboratory investigation; a journal of technical methods and pathology*  
Ben Baruch, B., Mantsur, E., Franco-Barraza, J., Blacher, E., Cukierman, E., Stein, R.  
2020
- **Potential roles of gut microbiome and metabolites in modulating ALS in mice.** *Nature*  
Blacher, E. n., Bashiardes, S. n., Shapiro, H. n., Rothschild, D. n., Mor, U. n., Dori-Bachash, M. n., Kleimeyer, C. n., Moresi, C. n., Harnik, Y. n., Zur, M. n., Zabari, M. n., Brik, R. B., Kviatcovsky, et al  
2019
- **Stromal CD38 regulates outgrowth of primary melanoma and generation of spontaneous metastasis.** *Oncotarget*  
Ben Baruch, B. n., Blacher, E. n., Mantsur, E. n., Schwartz, H. n., Vaknine, H. n., Erez, N. n., Stein, R. n.  
2018; 9 (61): 31797-811
- **Hyperglycemia drives intestinal barrier dysfunction and risk for enteric infection.** *Science (New York, N.Y.)*  
Thaiss, C. A., Levy, M. n., Grosheva, I. n., Zheng, D. n., Soffer, E. n., Blacher, E. n., Braverman, S. n., Tengeler, A. C., Barak, O. n., Elazar, M. n., Ben-Zeev, R. n., Lehavi-Regev, D. n., Katz, et al  
2018; 359 (6382): 1376-83
- **Our Gut Microbiome: The Evolving Inner Self.** *Cell*  
Kundu, P. n., Blacher, E. n., Elinav, E. n., Pettersson, S. n.  
2017; 171 (7): 1481-93
- **The gut microbiome and hypertension.** *Current opinion in nephrology and hypertension*  
Pevsner-Fischer, M. n., Blacher, E. n., Tatirovsky, E. n., Ben-Dov, I. Z., Elinav, E. n.  
2017; 26 (1): 1-8
- **Microbiome, metabolites and host immunity.** *Current opinion in microbiology*  
Levy, M. n., Blacher, E. n., Elinav, E. n.  
2017; 35: 8-15
- **Microbiome-Modulated Metabolites at the Interface of Host Immunity.** *Journal of immunology (Baltimore, Md. : 1950)*  
Blacher, E. n., Levy, M. n., Tatirovsky, E. n., Elinav, E. n.  
2017; 198 (2): 572-80
- **Incipient Melanoma Brain Metastases Instigate Astrogliosis and Neuroinflammation.** *Cancer research*  
Schwartz, H. n., Blacher, E. n., Amer, M. n., Livneh, N. n., Abramovitz, L. n., Klein, A. n., Ben-Shushan, D. n., Soffer, S. n., Blazquez, R. n., Barrantes-Freer, A. n., Müller, M. n., Müller-Decker, K. n., Stein, et al  
2016; 76 (15): 4359-71
- **Targeting CD38 in the tumor microenvironment: a novel approach to treat glioma** *Cancer Cell & Microenvironment*  
Blacher, E., Levy, A., Ben Baruch, B., Green, K. D., Garneau-Tsodikova, S., Fridman, M., Stein, R.  
2015
- **Inhibition of glioma progression by a newly discovered CD38 inhibitor.** *International journal of cancer*  
Blacher, E. n., Ben Baruch, B. n., Levy, A. n., Geva, N. n., Green, K. D., Garneau-Tsodikova, S. n., Fridman, M. n., Stein, R. n.  
2015; 136 (6): 1422-33
- **Exploring the Effects of Glycosylation and Etherification of the Side Chains of the Anticancer Drug Mitoxantrone.** *ChemMedChem*  
Shaul, P. n., Steinbuch, K. B., Blacher, E. n., Stein, R. n., Fridman, M. n.  
2015; 10 (9): 1528-38
- **Alzheimer's disease pathology is attenuated in a CD38-deficient mouse model.** *Annals of neurology*

Blacher, E. n., Dadali, T. n., Bepalko, A. n., Haupenthal, V. J., Grimm, M. O., Hartmann, T. n., Lund, F. E., Stein, R. n., Levy, A. n.  
2015; 78 (1): 88–103

- **Therapeutic effect of farnesylthiosalicylic acid on adjuvant-induced arthritis through suppressed release of inflammatory cytokines.** *Clinical and experimental immunology*

Aizman, E. n., Blacher, E. n., Ben-Moshe, O. n., Kogan, T. n., Kloog, Y. n., Mor, A. n.  
2014; 175 (3): 458–67

- **CD38 deficiency in the tumor microenvironment attenuates glioma progression and modulates features of tumor-associated microglia/macrophages.** *Neuro-oncology*

Levy, A. n., Blacher, E. n., Vaknine, H. n., Lund, F. E., Stein, R. n., Mayo, L. n.  
2012; 14 (8): 1037–49

- **Regulation of stress-induced nuclear protein redistribution: a new function of Bax and Bak uncoupled from Bcl-x(L).** *Cell death and differentiation*

Lindenboim, L. n., Blacher, E. n., Borner, C. n., Stein, R. n.  
2010; 17 (2): 346–59