

Public announcement of Collaborative Research, Phase 1・2

2025.04.21

Research Theme	Decoding key genes and networks in immunological memory		
Research Period	Phase1: Jan. 1, 2021 - Dec. 31, 2022 Phase2: Jan. 1, 2023 - Dec. 31, 2024		
Researcher Information	Technion	 Shai Shen-Orr Professor Faculty of Medicine	 Doron Melamed Professor Faculty of Medicine
	Tokushima Univ.	 Koji Yasutomo Professor Graduate School of Biomedical Sciences, Medical Science	
Publication List (Published Papers, conference, presentations, etc)	•Kondo H, Kageyama T, Tanaka S, Otsuka K, Tsukumo SI, Mashimo Y, Onouchi Y, Nakajima H, Yasutomo K. Markers of memory CD8 T cells depicting the effect of the BNT162b2 mRNA COVID-19 vaccine in Japan. <i>Front Immunol</i> 13:836923 (2022) •Tsukumo SI, Subramani PG, Seija N, Tabata M, Maekawa Y, Mori Y, Ishifune C, Itoh Y, Ota M, Fujio K, Di Noia JM, Yasutomo K. AFF3, a susceptibility factor for autoimmune diseases, is a molecular facilitator of immunoglobulin class switch recombination. <i>Sci Adv</i> 8(34):eabq0008 (2022) •Frishberg A, Kooistra E, Nuesch-Germano M, Pecht T, Milman N, Reusch N, Warnat-Herresthal S, Bruse N, Händler K, Theis H, Kraut M, van Rijssen E, van Cranenbroek B, Koenen HJ, Heesackers H, van den Boogaard M, Zegers M, Pickkers P, Becker M, Aschenbrenner AC, Ulas T, Theis FJ, Shen-Orr SS, Schultze JL, Kox M. Mature neutrophils and a NF-κB-to-IFN transition determine the unifying disease recovery dynamics in COVID-19. <i>Cell Rep Med</i> 3(6):100652 (2022) •Iancovici L, Khateeb D, Harel O, Peri R, Slobodin G, Hazan Y, Melamed D, Kessel A, Bar-On Y. Rheumatoid arthritis patients treated with Janus kinase inhibitors show reduced humoral immune responses following BNT162b2 vaccination. <i>Rheumatology</i> (Oxford) 61(8):3439-3447 (2022) •Poster presentation on the Single Cell Genomics Conference in Utrecht, Netherlands, October 17-19, 2022 •A contributed flash talk at the ILANIT/FISEB Experimental Biology Conference 2023 in Eilat, Israel, February 20-23, 2023 •Dubovik* T, Lukačičin* M, Starosvetsky E, LeRoy B, Normand R, Admon Y, Alpert A, Ofran Y, G'Sell M, Shen-Orr SS. Interactions between immune cell types facilitate the evolution of immune traits. <i>Nature</i>. 2024 Jun 12:1-3. •Benguigui M, Cooper TJ, Kalkar P, Schif-Zuck S, Halaban R, Bacchiocchi A, Kamer I, Deo A, Manobla B, Menachem R, Haj-Shomaly J, Vorontsova A, Raviv Z, Buxbaum C, Christopoulos P, Bar J, Lotem M, Sznol M, Ariel A, Shen-Orr SS, Shaked Y. Interferon-stimulated neutrophils as a predictor of immunotherapy response. <i>Cancer Cell</i>. 2024 Feb 12;42(2):253-65. •Gerassy-Vainberg S, Starosvetsky E, Gaujoux R, Blatt A, Maimon N, Gorelik Y, Pressman S, Alpert A, Bar-Yoseph H, Dubovik T, Perets B, Katz A, Milman N, Segev M, Chowes Y, Shen-Orr SS. A		

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	personalized network framework reveals predictive axis of anti-TNF response across diseases. <i>Cell Reports Medicine</i>. 2024 Jan 16;5(1). • Frishberg A, Milman N, Alpert A, Spitzer H, Asani B, Schiefelbein JB, Bakin ., Regev-Berman K, Priglinger SG, Schultze JL, Theis FJ, Shen-Orr SS. Reconstructing disease dynamics for mechanistic insights and clinical benefit. <i>Nature Communications</i>. 2023 Oct 27;14(1):6840.
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