

## Public announcement of Collaborative Research, Phase 1

2023.05.25

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| Research Theme                                                         | Decoding key genes and networks in immunological memory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                |                                                                                                                                                          |
| Research Period                                                        | Jan. 1, 2021 - Dec. 31, 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |                                                                                                                                                          |
| Researcher Information                                                 | Technion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  <b>Doron Melamed</b><br>Professor<br>Faculty of Medicine                                     |  <b>Shai S. Shen-Orr</b><br>Associate Professor<br>Faculty of Medicine |
|                                                                        | Tokushima Univ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  <b>Koji Yasutomo</b><br>Professor<br>Graduate School of Biomedical Sciences, Medical Science |                                                                                                                                                          |
| Publication List<br>(Published Papers, conference, presentations, etc) | <ul style="list-style-type: none"> <li>• Kondo H, Kageyama T, Tanaka S, Otsuka K, Tsukumo SI, Mashimo Y, Onouchi Y, Nakajima H, <b>Yasutomo K</b>. 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) <a href="#">Impact factor (8.7)</a></li> <li>• Tsukumo SI, Subramani PG, Seija N, Tabata M, Maekawa Y, Mori Y, Ishifune C, Itoh Y, Ota M, Fujio K, Di Noia JM, <b>Yasutomo K</b>. AFF3, a susceptibility factor for autoimmune diseases, is a molecular facilitator of immunoglobulin class switch recombination. <i>Sci Adv</i> 8(34):eabq0008 (2022) <a href="#">Impact factor (15)</a></li> <li>• 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, Heesakkers H, van den Boogaard M, Zegers M, Pickkers P, Becker M, Aschenbrenner AC, Ulas T, Theis FJ, <b>Shen-Orr SS</b>, Schultze JL, Kox M. Mature neutrophils and a NF-<math>\kappa</math>B-to-IFN transition determine the unifying disease recovery dynamics in COVID-19. <i>Cell Rep Med</i> 3(6):100652 (2022) <a href="#">Impact factor (16.9)</a></li> <li>• Iancovici L, Khateeb D, Harel O, Peri R, Slobodin G, Hazan Y, <b>Melamed D</b>, 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) <a href="#">Impact factor (7.5)</a></li> <li>• Poster presentation on the Single Cell Genomics Conference in Utrecht, Netherlands, October 17-19, 2022</li> <li>• A contributed flash talk at the ILANIT/FISEB Experimental Biology Conference 2023 in Eilat, Israel, February 20-23, 2023</li> </ul> |                                                                                                                                                                                |                                                                                                                                                          |