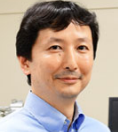


## Public announcement of Collaborative Research, Phase 2

2025.04.16

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|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Research Theme                                                         | The Dr. Jekyll and Mr. Hide: Oncogenic and Tumor Suppressive Characteristics of NF-κB: Is it the Stoichiometry of its Two 'Canonical' Components – p50 and p65, or a Novel Partner of p50?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   |                                                                                     |
| Research Period                                                        | Jan. 1, 2023 - Dec. 31, 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                                                                     |
| Researcher Information                                                 | Technion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>Aaron Ciechanover</b><br>Distinguished Research Professor<br>Faculty of Medicine |
|                                                                        | Tokushima Univ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>Hidetaka Kosako</b><br>Professor<br>Institute of Advanced Medical Sciences       |
| Publication List<br>(Published Papers, conference, presentations, etc) | <p>1: Fu A, Luo Z, Ziv T, Bi X, Lulu-Shimron C, Cohen-Kaplan V, <u>Ciechanover A</u>. Nuclear p62 condensates stabilize the promyelocytic leukemia nuclear bodies by sequestering their ubiquitin ligase RNF4. <b>Proc Natl Acad Sci USA</b>. 2024 Oct 22;121(43):e2414377121.</p> <p>2: Livneh I, Fabre B, Goldhirsh G, Lulu C, Zinger A, Shammai Vainer Y, Kaduri M, Dahan A, Ziv T, Schroeder A, Ben-Neriah Y, Zohar Y, Cohen-Kaplan V, <u>Ciechanover A</u>. Inhibition of nucleocytoplasmic proteasome translocation by the aromatic amino acids or silencing Sestrin3-their sensing mediator-is tumor suppressive. <b>Cell Death Differ</b>. 2024 Oct;31(10):1242-1254.</p> <p>3: Koyano F, Yamano K, Hoshina T, <u>Kosako H</u>, Fujiki Y, Tanaka K, Matsuda N. AAA+ ATPase chaperone p97/VCP<sup>FAF2</sup> governs basal pexophagy. <b>Nat Commun</b>. 2024 Oct 29;15:9347.</p> <p>4: Khaled H, Ghasemi Z, Inagaki M, Patel K, Naito Y, Feller B, Yi N, Bourojeni FB, Lee AK, Chofflet N, Kania A, <u>Kosako H</u>, Tachikawa M, Connor S, Takahashi H. The TrkC-PTPσ complex governs synapse maturation and angiogenic avoidance via synaptic protein phosphorylation. <b>EMBO J</b>. 2024 Nov;43(22):5690-5717.</p> <p>5: Niu H, Maruoka M, Noguchi Y, <u>Kosako H</u>, Suzuki J. Phospholipid scrambling induced by an ion channel/metabolite transporter complex. <b>Nat Commun</b>. 2024 Aug 31;15:7566.</p> <p>6: Yanagawa K, Kuma A, Hamasaki M, Kita S, Yamamuro T, Nishino K, Nakamura S, Omori H, Kaminishi T, Oikawa S, Kato Y, Edahiro R, Kawagoe R, Taniguchi T, Tanaka Y, Shima T, Tabata K, Iwatani M, Bekku N, Hanayama R, Okada Y, Akimoto T, <u>Kosako H</u>, Takahashi A, Shimomura I, Sakata Y, Yoshimori T. The Rubicon-WIPI axis regulates exosome biogenesis during ageing. <b>Nat Cell Biol</b>. 2024 Sep;26(9):1558-1570.</p> |                                                                                   |                                                                                     |