

Dr. Chen Kaiwen's Representative Publications

1. **RIPK1 and RIPK3 in antibacterial defence.** Yeap HW and Chen KW. *Biochem Soc Trans*, 2022, 50 (6): 1583-1594.
2. **Inflammasome and gasdermin signaling in neutrophils.** Yow SJ, Yeap HW, Chen KW. *Mol Microbiol*, 2022, 5;117(5):961-972.
3. **RIPK1 activates distinct gasdermins in macrophages and neutrophils upon pathogen blockade of innate immune signalling.** Chen KW[#], Demarco B, Ramos S, Heilig R, Goris M, Grayczyk JP, Assenmacher CA, Radaelli E, Joannas LD, Henao-Mejia J, Tacchini-Cottier F, Brodsky IE, Broz P[#]. *PNAS*, 2021, 118(28). [#]corresponding author
4. **Pannexin-1 promotes NLRP3 activation during apoptosis but is dispensable for canonical or non-canonical inflammasome activation.** Chen KW[#], Demarco B, Broz P[#]. *Euro J Immunol*, 2020, 50: 170–177. Corresponding authors.
5. **Extrinsic and intrinsic apoptosis activate Pannexin-1 to drive NLRP3 inflammasome assembly.** Chen KW^{*}, Demarco B^{*}, Heilig R, Shkarina K, Boettcher A, Farady CJ, Pelczar P, Broz P. *EMBO J*, 2019, e101638. ^{*}equal contribution.
6. **Noncanonical inflammasome signaling elicits gasdermin D–dependent neutrophil extracellular traps.** Chen KW^{*}, Monteleone M^{*}, Boucher D^{*}, Sollberger G, Ramnath D, Condon ND, von Pein JP, Broz P, Sweet MJ, Schroder K. *Sci Immunol*, 2018, 3, eaar6676. ^{*}equal contribution.
7. **Cutting Edge: Blockade of Inhibitor of Apoptosis Proteins Sensitizes Neutrophils to TNF- but Not Lipopolysaccharide-Mediated Cell Death and IL-1beta Secretion.** Chen KW, Lawlor KE, von Pein JB, Boucher D, Gerlic M, Croker BA, Bezbradica JS, Vince JE, and Schroder K. *J Immunol*, 2018, 200: 3341-3346.
8. **Caspase-1 self-cleavage is an intrinsic mechanism to terminate inflammasome activity.** Boucher D, Monteleone M^{*}, Coll RC^{*}, Chen KW^{*}, Ross CM, Teo JL, Gomez GA, Holley CL, Bierschenk D, Stacey KJ, Yap AS, Bezbradica JS, and Schroder K. *J Exp Med*, 2018, 215: 827-840. ^{*}equal contribution.
9. **Active MLKL triggers the NLRP3 inflammasome in a cell-intrinsic manner.** Conos SA, Chen KW, De Nardo D, Hara H, Whitehead L, Nunez G, Masters SL, Murphy JM, Schroder K, Vaux DL, Lawlor KE, Lindqvist LM, Vince JE. *PNAS*, 2017, 114: E961-E9.
10. **The neutrophil NLRC4 inflammasome selectively promotes IL-1beta maturation without pyroptosis during acute Salmonella challenge.** Chen KW, Gross CJ, Sotomayor FV, Stacey KJ, Tschopp J, Sweet MJ, Schroder K. *Cell Reports*, 2014, 8: 570-82.