

Wong, W. Wei-Lynn: A) Peer-reviewed Publications

https://scholar.google.nl/citations?hl=en&pli=1&user=JynIX_8AAAAJ

Total number of papers: 47; Total citations: 6464; H-index: 29; i10-index: 38

Manuscripts in revision

1. Vasilikos L, Hänggi K, Spilgies LM, **Wong WW**. (2019) Tumor cell-derived lymphotoxin alpha triggers metastatic extravasation through TNFRs/cIAP1. Pre-print available: <http://biorxiv.org/cgi/content/short/766485v1>; submitted to peer-review journal
2. Ros U, Valiente PA, Wachsmuth L, Espiritu RA, Raed Shalaby, Marx B, Vasilikos L, Ibrahim M, Chen Y, Murad F, Abdelwahab Y, Spilgies LM, Altmannova D, Tieleman PD, Weir J, Pasparakis M, Walczak H, **Wong WW**, Peltzer N, García-Sáez AJ. MLKL activity depends on a novel, druggable intramolecular interaction. Submitted to peer-review journal.

Peer-reviewed Publications

1. Knop J, Spilgies LM, Ruffli S, Reinhart R, Vasilikos L, Yabal M, Crowley E, Jost P, Marsh RA, Wajant H, Mark D, Robinson, Kaufmann T, **Wong WW**. (2019) TNFR2 induced priming of the inflammasome leads to a RIPK1 dependent cell. Cell Death & Dis 2019 Sep 20. doi: 10.1038/s41419-019-1938-x Impact Factor: 5.9 Citations: 5
2. Tisch N, Freire-Valls A, Yebes R, Paredes I, La Porta S, Wang X, Martín-Pérez R, **Wong WW**, Coultas L, Strilic B, Gröne JH, Hielscher T, Mogler C, Adams R, Heiduschka P, Claesson-Welsh L, Mazzone M, López-Rivas A, Schmidt T, Augustin HG, Ruiz de Almodovar C. (2019) Caspase-8 modulates physiological and pathological angiogenesis during retina development. JCI Aug 27. pii: 122767. doi: 10.1172/JCI122767 Impact Factor: 11.8 Citations: 2
3. Rizk J, Kaplinsky J, Agerholm R, Kadekar D, Ivars F, Agace WW, **Wong WW**, Szucs MJ, Myers SA, Carr SA, Waisman A, Bekiaris V. (2019) Smac mimetics promote NIK-dependent inhibition of CD4⁺T_H17 cell differentiation. Sci Signal 12(596): eaaw3469 doi: 10.1126/scisignal.aaw3469. Impact Factor: 6.4 Citations: 1
4. Wicki S, Gurzeler U, Corazza N, Genitsch V, **Wong WW**, Kaufmann T. (2018) Loss of BID delays FasL-induced cell death of mouse neutrophils and aggravates DSS-induced weight loss. Int J Mol Sciences 19(3): 684. Impact Factor: 3.22 Citations: 2
5. Gradzka S, Thomas OS, Kretz O, Haimovici A, Vasilikos L, **Wong WW**, Häcker G, Gentle IE. (2018) Inhibitor of apoptosis proteins are required for effective fusion of autophagosomes with lysosomes. Cell Death & Disease. 9:529 doi 10.1038/s41419-018-0508-y. Impact Factor: 5.9 Citations: 4
6. Ros U, Peña-Blanco A, Hänggi K, Kunzendorf U, Krautwald S, **Wong WW**, Garcia-Saez A. (2017) Necroptosis execution is mediated by plasma membrane nanopores independent of calcium. Cell Reports 19:175-187. Impact Factor: 8.2 Citations: 38
7. Hänggi K, Vasilikos L, Valls AF, Yebes, R, Knop J, Valls AF, Rieck K, Spilgies L, Misra T, Bertin J, Gough PJ, Schmidt T, Almodovar CR, **Wong WW**. (2017) RIPK1/RIPK3 promotes vascular permeability to allow tumor cell extravasation independent of its necroptotic function. Cell Death & Disease 8:e2588 doi:10.1038/cddis.2017.20. Impact Factor: 5.9 Citations: 19
- * **Highlight:** First last author publication. Described phenotype of RIPK3 involvement in tumor cell extravasation replicated in Strilic et al., Nature 2016 but the involvement of cell death, necroptosis was not replicated in our work. This work shows alternative function of RIPK3 signaling downstream of VEGF in permeability.
8. Tanzer M, Khan N, Rickard J, Etemadi N, Lalaoui N, Spall S, Hildebrand J, Segal D, Miasari M, Chau D, **Wong WW**, McKinlay M, Chundururu S, Benetatos C, Condon S, Vince JE, Herold M, Silke J. (2017) Combination of IAP antagonist and IFN γ activates novel caspase-10 and RIPK1 dependent cell death pathways. Cell Death & Diff 24: 481-491 doi:10.1038/cdd.2016.147. Impact Factor: 8.3 Citations: 13

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9. Grabinger T, Bode KJ, Demgenski J, Seitz C, Delgado ME, Kostadinova F, Reinhold C, Etemadi N, Wilhelm S, Schweinlin M, Hänggi K, Knop J, Hauck C, Walles H, Silke J, Wajant H, Nachbur U, **Wong WW**, Brunner T. (2017) Inhibitor of Apoptosis Protein-1 Regulates Tumor Necrosis Factor-mediated Destruction of Intestinal Epithelial Cells. Gastroenterology 152: 867-879. Impact Factor: 18.39 Citations: 2
10. Wicki S, Gurzeler U, **Wong WW**, Jost PJ, Bachmann D, Kaufmann T. (2016) Loss of XIAP facilitates switch to TNF α -induced necroptosis in mouse neutrophils. Cell Death & Disease 7, e2422; doi:10.1038/cddis.2016.311. Impact Factor: 5.96 Citations: 33
11. Lalaoui N, Hänggi K, Brumatti G, Chau D, Nguyen NN, Vasilikos L, Spilgies L, Ma C, Ghisi M, Salmon JM, Moujalled D, Spall S, Glaser SP, Munoz L, Condon SM, Gugasyan R, Gaestel M, Johnstone R, Wei A, Ekert PG, Vaux DL, **Wong WW**, Silke J. (2016) Targeting p38/MK2 enhances the anti-leukemic activity of Smac-mimetics. Cancer Cell. 29:145-58. Impact Factor: 27.4 Citations: 54
12. Lopez MA, Meier D, **Wong WW**, Fontana A (2016). TNF induced inhibition of Cirbp expression depends on RelB NF- κ B signalling pathway. Biochemistry and Biophysics Reports – 5:22-26. doi 10.1016/j.bbrep.2015.11.007. Impact Factor: Citations: 3
13. Etemadi N, Chopin M, Anderton H, Tanzer MC, Rickard JA, Abeysekera W, Hall C, Spall SK, Wang B, Xiong Y, Hla T, Pitson SM, Bonder CS, **Wong WW**, Ernst M, Smyth GK, Vaux DL, Nutt SL, Nachbur U, Silke J. (2015) TRAF2 regulates TNF and NF- κ B signalling to suppress apoptosis and skin inflammation independently of Sphingosine kinase 1. Elife. Dec 23;4. pii: e10592. Impact Factor: 7.7 Citations: 42
14. Amini P, Stojkov D, Wang X, Wicki S, Kaufmann T, **Wong WW**, Simon HU, Yousefi S (2016). NET formation can occur independently of RIPK3 and MLKL signaling. Eur J Immunol. 46: 178–184. Impact Factor: 4.2 Citations: 47
15. Johnston A, Murphy KT, Jenkinson L, Laine D, Emmrich K, Faou P, Weston R, Jayatilleke KM, Schloegel J, Talbo G, Casey J, Levina V, **Wong WW**, Dillon H, Sahay T, Hoogenraad J, Anderton H, Schneider P, Foley M, Lynch GS, Silke J, Hoogenraad H. (2015) Inhibition of TWEAK/Fn14 signaling prevents cachexia. Cell 162(6):1365-78. Impact Factor: 27.4 Citations: 46
16. Lawlor KE, Khan N, Mildenhall A, Gerlic M, Croker BA, D’Cruz AA, Hall C, Spall SK, Anderton H, Masters SL, Rashidi M, Wicks IP, Alexander WS, Mitsuuchi Y, Benetatos CA, Condon SM, **Wong WW**, Silke J, Vaux DL, Vince JE (2015). RIPK3 promotes cell death NLRP3 inflammasome activation in the absence of MLKL. Nat Comm 6:6282. Impact Factor: 12.1 Citations: 251
17. Zhao Y, Scott NA, Fynch S, Elkerbout L, **Wong WW**, Mason KD, Allison J, Strasser A, Huang DC, Kay TWH, Thomas HE (2015). Autoreactive T cells induce necrosis and not BCL-2 regulated or death receptor mediated apoptosis or RIPK3-dependent necroptosis of transplanted islets in a type 1 diabetes model. Diabetologia 58(1):140-8. Impact Factor: 6.08 Citations: 14
18. Rickard JA, Anderton H, Etemadi N, Nachbur U, Vanyai H, Lalaoui N, Bankovacki A, Gangoda L, **Wong WW**, Lawlor KE, Hall C, Corbin J, Huang C, Murphy JM, Alexander WS, Voss AK, Vaux DL, Kaiser WJ, Silke J (2014). TNFR1-dependent cell death drives inflammation in Sharpin-deficient mice. ELife 157 (5):1175-1188. Impact Factor: 9.32 Citations: 30
19. **Wong WW***, Vince JE, Lalaoui N, Lawlor KE, Chau D, Bankovacki A, Anderton H, Metcalf D, O’Reilly L, Jost PJ, Murphy J, Alexander W, Strasser A, Vaux DL, Silke J* (2014). cIAPs and XIAP regulate myelopoiesis through cytokine production in a RIPK1 and RIPK3 dependent manner. Blood 123(16):2562-72. Impact Factor: 10.45 Citations: 56 *corresponding author
Highlight First author, Intellectual leadership and impact, also corresponding author. This work shows that XIAP and cIAPs regulate myelopoiesis by regulating the production of different cytokines, including TNF. In addition, it shows that RIPK1 and RIPK3, two

proteins implicated as essential for a programmed cell death known as necroptosis also directly regulate TNF production prior to its role in instigating necroptosis.

Editorial: Jacquelin A and Auberger P. cIAPs and XIAP reduce RIPKs to silence

20. Damgaard RB*, Nachbur U*, Yabal M*, **Wong WW**, Fiil B, Kastirr M, Rieser E, Rickard J, Bankovacki A, Peschel C, Ruland J, Bekker-Jensen S, Mailand N, Kaufmann T, Strasser A, Walczak H, Silke J, Jost PJ*, Gryd-Hansen M* (2012). The ubiquitin ligase XIAP recruits LUBAC for NOD2 signaling in inflammation and innate immunity. *Mol Cell* 46(6):746-58. Impact Factor: 14.0 Citations: 147
21. Moulin M, Anderton H, Voss AK, Thomas T, Wong WW, Bankovacki A, Feltham R, Chau D, Cook WD, Silke J, Vaux DL (2012). IAPs limit activation of RIP kinases by TNF receptor 1 during development. *EMBO J* 31(7):1679-91. Impact Factor: 10.43 Citations: 86
22. Vince JE, **Wong WW***, Gentle IE*, Lawlor KE, Allam R, O'Reilly L, Mason K, Gross O, Ma S, Guarda G, Anderton H, Castillo R, Häcker G, Silke J, Tschopp J (2012). Inhibitor of apoptosis proteins limit RIP3 kinase-dependent interleukin-1 activation. *Immunity* 36(2):215-27. Impact Factor: 21.5 Citations: 202
Highlight Intellectual leadership and impact, showing IAPs regulate IL1 β through RIPK3 but not RIPK1.
23. Gentle IE, **Wong WW**, Evans JM, Bankovacki A, Cook WD, Khan NR, Nachbur U, Rickard J, Anderton H, Moulin M, Lluís JM, Moujalled DM, Silke J, Vaux DL (2011). In TNF-stimulated cells, RIPK1 promotes cell survival by stabilizing TRAF2 and cIAP1, which limits induction of non-canonical NF- κ B and activation of caspase-8 by stabilizing TRAF2 and cIAP1. *J. Biol. Chem.* 286:13282. Impact Factor: 4.57 Citations: 49
24. Gerlach B*, Cordier SM*, Schumke AC*, Emmerich CH*, Rieser E*, Haas TL*, Webb AI*, Rickard JA, Anderton H, **Wong WW**, Nachbur U, Gangoda L, Warnken U, Purcell AW, Silke J, Walczak H (2011). Linear ubiquitination prevents inflammation and regulates immune signaling. *Nature* 471:591-6. Impact Factor: 41.45 Citations: 361
25. **Wong WW***, Boutros PC*, Wasylishen AR*, Guckert KD, O'Brien EM, Griffiths R, Martirosyan AR, Bros C, Jurisica I, Langler RF, Penn LZ (2010). Characterization of the apoptotic response of human leukemia cells to organosulfur compounds. *BMC Cancer* 10:351. Impact Factor: 3.36 Citations: 5
26. Feltham R, Moulin M, Vince JE, Mace PD, **Wong WW**, Carter H, Day CL, Vaux DL, Silke J (2010). TNF signaling, but not TWEAK triggered cellular Inhibitor of Apoptosis protein 1 (cIAP1) degradation, requires cIAP1 RING dimerization and E2 binding. *J Biol Chem.* 285(23):17525-36. Impact Factor: 4.57 Citations: 31
27. **Wong WW**, Gentle IE, Nachbur U, Carter H, Vaux DL, Silke J (2010). RIPK1 is not essential for TNFR1 induced activation of NF- κ B. *Cell Death & Diff.* 17(3):482-87. Impact Factor: 8.18 Citations: 103
Reviewed by Faculty of 1000, Editorial: Bertrand MJM and Vandenabeele P. (2010) RIP1's function in NF- κ B activation: from master actor to onlooker. *Cell Death & Diff.* 17(3): 379-80
Highlight First author, Intellectual leadership and impact - overturned work that had become axiomatic in the TNF field; that RIPK1 was required for TNF induced NF- κ B.
Quality- The paper was the subject of an editorial in CD&D describing a "Kuhnian paradigm shift" & was selected in F1000 as 'recommended'.
28. Lluís JM, Nachbur U, Cook WD, Gentle IE, Moujalled D, Moulin M, **Wong WW**, Khan N, Chau D, Callus BA, Vince JE, Silke J, Vaux DL (2010). TAK1 is required for survival of mouse fibroblasts treated with TRAIL, and does so by NF- κ B dependent induction of cFLIPL. *PLoS One.* 5(1):e8620. Impact Factor: 3.23 Citations: 16
29. Geserick P, Hupe M, Moulin M, **Wong WW**, Feoktistova M, Kellert B, Gollnick H, Silke J,

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Leverkus M (2009). cIAPs inhibit a cryptic CD95-induced cell death by limiting RIP1 kinase recruitment. *J Cell Biol.* 187(7):1037-54. Impact Factor: 9.83 Citations: 143

30. Vince JE, Pantaki D, Feltham R, Mace PD, Cordier SM, Schmuckle AC, Davidson AJ, Callus BA, **Wong WW**, Gentle IE, Carter H, Lee EF, Walczak H, Day CL, Vaux DL, Silke J (2009). TRAF2 must bind to cIAPs for TNF to efficiently activate NF- κ B and to prevent TNF-induced apoptosis. *J Biol Chem.* 284(51):35906-15. Impact Factor: 4.57 Citations: 112
31. Ahmed AU, Moulin M, Coumailleau F, **Wong WW**, Miasari M, Carter H, Silke J, Cohen-Tannoudji M, Vince JE, Vaux DL (2009). CARP2 deficiency does not alter induction of NF- κ B by TNF α . *Curr Biol.* 19(1):R15-7. Impact Factor: 9.57 Citations: 7
32. Vince JE, Chau D, Callus B, **Wong WW**, Schneider P, McKinlay M, Benetatos CA, Condon SM, Chunduru SK, Yeoh G, Brink R, Vaux DL, Silke J (2008). Tweak-FN14 signaling induces lysosomal degradation of a cIAP1/TRAF2 complex to sensitize tumour cells to TNF α . *J Cell Biol.* 182(1):171-84. Impact Factor: 9.83 Citations: 163
33. Vince JE, **Wong WW***, Khan N*, Feltham R*, Chau D, Ahmed AU, Benetatos CA, Chunduru SK, Condon SM, McKinlay M, Brink R, Leverkus M, Tergaonkar V, Schneider P, Callus BA, Koentgen F, Vaux DL, Silke J (2007) IAP antagonists target cIAP1 to induce TNF α -dependent apoptosis. *Cell* 131(4):682-693. Impact Factor: 32.2 Citations: 625

Highlight This paper demonstrated how IAP antagonists function to kill tumor cells and represented a significant advance in our understanding of the molecular biology of cIAPs and IAP inhibitors. It was the first to show that cIAPs regulate the non-canonical NF- κ B pathway and the production of cytokines and therefore was the one of the basis of some of hypothesis put forward in this grant.

Quality- high citations in 3 years & selected in F1000 as 'recommended'.

34. **Wong WW***, Clendening JW*, Martirosyan A, Boutros PC, Bros C, Khosravi F, Jurisica I, Stewart AK, Bergsagel PL, Penn LZ (2007) Determinants of sensitivity to lovastatin-induced apoptosis in multiple myeloma. *Mol Cancer Ther* 6(6):1886-97. Impact Factor: 5.68 Citations: 34
35. **Wong WW***, Griffiths R*, Fletcher SP, Penn LZ, Langler RF (2005) Novel disulfides with antitumor efficacy and specificity. *Aust. J. of Chem.* 58(2):128-136. Impact Factor: 1.87 Citations: 8
36. Wu J, **Wong WW**, Khosravi F, Minden MD, Penn LZ (2004). Blocking the Raf/MEK/ERK Pathway Sensitizes Tumor Cells to Lovastatin-Induced Apoptosis. *Cancer Res.* 64(18):6461-8. Impact Factor: 9.32 Citations: 163
37. Mao DYL, Watson J, Yan PS, Barsyte-Lovejoy D, Khosravi F, **Wong WW**, Farnham PJ, Huang TH, Penn LZ (2003). Analysis of Myc Bound Loci Identified by CpG Island Arrays Shows that Max Is Essential for Myc-Dependent Repression. *Curr. Biol.* 13(10): 882-6. Impact Factor: 9.57 Citations: 125
38. Xia Z, Tan MM, **Wong WW**, Dimitroulakos J, Minden MD, Penn LZ (2001). Blocking protein geranylgeranylation is essential for lovastatin-induced apoptosis of human acute myeloid leukemia cells. *Leukemia.* 15(9):1398-407. Impact Factor: 10.164 Citations: 142
39. **Wong WW***, Tan MM*, Xia Z, Dimitroulakos J, Minden MD, Penn LZ (2001). Cerivastatin triggers tumor-specific apoptosis with higher efficacy than lovastatin. *Clin Cancer Res.* 7(7):2067- 75. Impact Factor: 8.72 Citations: 109
40. **Wong WW**, Macdonald S, Langler RF, Penn LZ (2000). Novel synthetic organosulfur compounds induce apoptosis of human leukemic cells. *Anticancer Res.* 20(3A):1367-74. Impact Factor: 1.713 Citations: 28

*equal contribution.

Wong, W. Wei-Lynn: **Publications**

Peer reviewed Invited Reviews

1. Klionsky et al., Guidelines for the Use and Interpretation of Assays for Monitoring Autophagy (4th edition), Autophagy - in press
2. Spilgies LM, Ruffli S, **Wong WW**. (2020) Rare diseases identify the finer points of lytic forms of cell death and inflammation. – submitted [Cell Death & Dis](#)
3. Vasilikos L, Spilgies LM, Knop J, **Wong WW**. (2017) Inhibitors of apoptosis proteins regulate necroptosis, apoptosis and inflammation. *Immunology and Cell Biology* 95(2):160-165. doi:10.1038/icb.2016.118. Citations: 27

Other Publications

1. Moulin M, Voss, AK, Thomas T, **Wong WW**, Cook WD, Koentgen F, Vince J, Silke J, Vaux DL. (2015) Response to Heard et al., *EMBO J* 34(19):2396-2397. Citations: 4

Patents and Licenses

“**Modulation of Mixed Lineage Kinase Domain-like Protein Signaling**”, Eberhard Karls Universität Tübingen; Patent No. 20173672.5-1112

Ana Jesús García Sáez, Uris Lianne Ros Quincoces, Pedro Alberto Valiente Flores, **W. Wei-Lynn Wong**, Henning Walczak, Nieves de las Peltzer

Oral contributions to international conferences (last 5 years)

- 2020 Jan 12-16: BCL2 regulated cell death, and beyond, Obergürgl, Austria
Sept 9-11: Swiss Apoptosis Autophagy Meeting, Bern, Switzerland (postponed)
Oct 19th: XLP (virtual) symposium
Dec 14th: Virtually Dead Episode II: Death Receptors
- 2019 March 28: University of Köln
June 2-7: 17th TNF meeting, Asilomar, USA
July 28: 18th III-Bern Summer School 2019
Sept 5: TranslaTUM, Munich, Germany
September 22-25: Non apoptotic roles of cell death proteins, Israel
November 19-23- Keystone Meeting: Why So Many Ways to Die? Apoptosis, Necroptosis, Pyroptosis and Beyond (T3), Brazil
- 2018 May 6-11: EWCD: Cell Death, Inflammation and Cancer, Italy
July 8: Villa Vigoni Meeting: Cell Death and Disease, Italy
Sept 11: Swiss Apoptosis Workshop, Bern, Switzerland
October 5: XLP Research Trust Symposium Workshop, London, UK
- 2017 April 18: 16th TNF Superfamily meeting 2017, Singapore
February 3: LS² Meeting, Zürich, Switzerland
Oct 19: Rheumatology, USZ
- 2016 Sept 30: ECDO, Barcelona, Spain
Sept 8: Swiss Apoptosis Meeting, Bern, Switzerland
June 23: Villa Vigoni Meeting: Cell Death and Disease, Italy
April 5: European Workshop on Cell Death, Italy
- 2015 Sept 18: CSHL Unlocking Cell Death mysteries, New York, USA, given by L. Vasilikos
May 21: 15th International TNF Conference, Ghent, Belgium
Mar 24: ETHZ/UZH Cutting Edge Topics: Seminars in Immunology & Infection Biology, Zurich, Switzerland

Preprints

1. Vasilikos L, Hänggi K, Spilgies LM, **Wong WW**. (2019) Tumor cell-derived lymphotoxin alpha triggers metastatic extravasation through TNFRs/cIAP1. Pre-print available: <http://biorxiv.org/cgi/content/short/766485v1>; submitted to peer-review journal