

List of publications

and ## indicate publications cited more than 100 / 300 times (ref: Google scholar)

* denotes equal contribution

Original publications

1. **Thome, M.**, Saalmüller, A., and Pfaff, E. Molecular cloning of porcine T-cell receptor α , β , γ and δ chains using PCR fragments of the constant regions. *Eur. J. Immunol.* 23, 1005-1010 (1993).
2. # Duplay, P., **Thome, M.**, Hervé, F., and Acuto, O. p56^{lck} interacts via its src homology 2 domain with the ZAP-70 kinase. *J. Exp. Med.* 179, 1163-1170 (1994).
3. # **Thome, M.***, Duplay, P.*, Guttinger, M., and Acuto, O. Syk and ZAP-70 mediate recruitment of p56^{lck}/CD4 to the activated T cell receptor/CD3/zeta complex. *J. Exp. Med.* 181, 1997-2006 (1995).
4. **Thome, M.**, Germain, V., DiSanto, J. P., and Acuto, O. The p56^{lck} SH2 domain mediates recruitment of CD8/p56^{lck} to the activated T cell receptor/CD3/zeta complex. *Eur. J. Immunol.* 26, 2093-2100 (1996).
5. # Bodmer, J. L.*, Burns, K.*, Schneider, P.*, Hofmann, K.*, Steiner, V.*, **Thome, M.***, Bornand, T., Hahne, M., Schroter, M., Becker, K., Wilson, A., French, L. E., Browning, J. L., MacDonald, H. R., and Tschopp, J. TRAMP, a novel apoptosis-mediating receptor with sequence homology to tumor necrosis factor receptor 1 and Fas(Apo-1/CD95). *Immunity* 6, 79-88 (1997).
6. ## **Thome, M.**, Schneider, P., Hofmann, K., Fickenscher, H., Meinel, E., Neipel, F., Mattmann, C., Burns, K., Bodmer, J. L., Schroter, M., Scaffidi, C., Krammer, P. H., Peter, M. E., and Tschopp, J. Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors. *Nature* 386, 517-521 (1997).
- Comment in: Wallach, D. Apoptosis: placing death under control. *Nature* 386, 123-126 (1997)
7. ## Irmeler, M.*, **Thome, M.***, Hahne, M., Schneider, P., Hofmann, K., Steiner, V., Bodmer, J. L., Schroter, M., Burns, K., Mattmann, C., Rimoldi, D., French, L. E., and Tschopp, J. Inhibition of death receptor signals by cellular FLIP. *Nature* 388, 190-195 (1997).
8. # Schneider, P., Bodmer, J. L., **Thome, M.**, Hofmann, K., Holler, N., and Tschopp, J. Characterization of two receptors for TRAIL. *FEBS Letters* 416, 329-334 (1997).
9. ## Schneider, P., **Thome, M.**, Burns, K., Bodmer, J. L., Hofmann, K., Kataoka, T., Holler, N., and Tschopp, J. TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF-kappaB. *Immunity* 7, 831-836 (1997).
10. # Kataoka, T., Schroter, M., Hahne, M., Schneider, P., Irmeler, M., **Thome, M.**, Froelich, C. J., and Tschopp, J. FLIP prevents apoptosis induced by death receptors but not by perforin/granzyme B, chemotherapeutic drugs, and gamma irradiation. *J. Immunol.* 161, 3936-3942 (1998).
11. # **Thome, M.**, Hofmann, K., Burns, K., Martinon, F., Bodmer, J. L., Mattmann, C., and Tschopp, J. Identification of CARDIAK, a RIP-like kinase that associates with caspase-1. *Curr. Biol.* 8, 885-888 (1998).

12. **Thome, M.**, Martinon, F., Hofmann, K., Rubio, V., Steiner, V., Schneider, P., Mattmann, C., and Tschopp, J. The equine herpesvirus-2 protein E10 but not its cellular homologue activates NF- κ B and c-Jun N-terminal kinase. *J. Biol. Chem.*, 274, 9962-9968 (1999).
13. ^{##} Kataoka, T., Budd, R.C., Holler, N., **Thome, M.**, Martinon, F., Irmeler, M., Burns, K., Hahne, M., Kennedy, N., Kovacsovics, M., and Tschopp, J. The caspase-8 inhibitor FLIP promotes activation of NF- κ B and Erk signaling pathways. *Curr. Biol.* 10, 640-648 (2000).
14. ^{##} Holler, N., Zaru, R., Micheau, O., **Thome, M.**, Attinger, A., Valitutti, S., Bodmer, J.-L., Schneider, P., Seed, B. and Tschopp, J. Fas triggers an alternative, caspase-8-independent cell death pathway using the kinase RIP as effector molecule. *Nature Immunol.* 1, 489-495 (2000).
15. **Thome, M.***, Gaide, O.*, Micheau, O., Martinon, F., Bonnet, D., Gonzalez, M. and Tschopp, J. Equine herpesvirus protein E10 induces membrane recruitment and phosphorylation of its cellular homologue, bcl-10. *J. Cell Biol.* 152, 1115-1122 (2001).
16. Siegmund, D., Mauri, D., Peters, N., Juo, P., **Thome, M.**, Reichwein, M., Blenis, J., Scheurich, P., Tschopp, J. and Wajant, H. FADD and Caspase-8 mediate up-regulation of c-fos by FasL and TRAIL via a FLIP-regulated pathway. *J. Biol. Chem.* 276, 32585-32590 (2001).
17. [#] Gaide, O., Martinon, F., Micheau, O., Bonnet, D., **Thome, M.*** and Tschopp, J.* Carma1, a CARD-containing binding partner of Bcl10, induces Bcl10 phosphorylation and NF- κ B activation. *FEBS letters.* 496, 121-127 (2001).
18. [#] Aganna, E., Martinon, F., Hawkins, P.N., Ross, J.B., Swan, D.C., Booth, D.R., Lachmann, H.J., Gaudet, R., Woo, P., Feighery, C., Cotter, F.E., **Thome, M.**, Hitman, G.A., Tschopp, J. and McDermott, M.F. Association of mutations in the NALP3/CIAS1/PYPAF1 gene with a broad phenotype including recurrent fever, cold sensitivity, sensorineural deafness, and AA amyloidosis. *Arthritis Rheum.* 46, 2445-2452 (2002).
19. [#] Micheau, O., **Thome, M.**, Schneider, P., Holler, N., Tschopp, J., Nicholson, D., Briand, C. and Grutter, M.G. The long form of FLIP is an activator of Caspase-8 at the Fas death-inducing signaling complex. *J. Biol. Chem.* 277, 45162-45171 (2002).
20. Meylan, E., Martinon, F., **Thome, M.**, Gschwendt, M. and Tschopp, J. RIP4 (DIK/PKK), a novel member of the RIP kinase family, activates NF- κ B and is processed during apoptosis. *EMBO reports* 3, 1201-1208 (2002).
21. [#] Gaide, O., Favier, B., Legler, D., Bonnet, D., Bron, C., Valitutti, S., Tschopp, J. and **Thome, M.** Carma1 is a critical lipid raft-associated regulator of T-cell receptor-induced NF- κ B activation. *Nature Immunol.* 3, 836-843 (2002).
 - comment in : Abbas, A. and Sen, R. The Activation of Lymphocytes Is in Their CARMA. *Immunity* 18, 721-722 (2002).
 - featured in: T-cell signalling: The way of CARMA. *Nature Rev. Immunol.* 2, 633 (2002).
 - *Must read.* Faculty of 1000 Biology, E. Podack
22. [#] Egawa, T., Albrecht, B., Favier, B., Sunshine, M.-J., Mirchandani, K., O'Brien, W., **Thome, M.** and Littman, D.R. Requirement for CARMA1 in antigen receptor-induced NF- κ B activation and lymphocyte proliferation. *Curr. Biol.* 13, 1252-1258 (2003).
23. Teixeira, M., Daniels, M.A., Hausmann, B., Schrum, A.G., Naeher, D., Luescher, I., **Thome, M.**, Bragado, R. and Palmer, E. T Cell Division and Death Are Segregated by Mutation of TCR Chain Constant Domains. *Immunity* 21, 515-526 (2004).

24. Thureau, M., Everett, H., Tapernoux, M., Tschopp, J. and **Thome, M.** The TRAF3 binding site of human molluscipox virus FLIP molecule MC159 is critical for its capacity to inhibit Fas-induced apoptosis. *Cell Death Differ.* **13**, 1577-1585 (2006).
25. Loeuillet, C., Martinon, F., Perez, C., Munoz, M., **Thome, M.** and Meylan, P.R. *Mycobacterium tuberculosis* subverts innate immunity to evade specific effectors. *J. Immunol.* **177**, 6245-6255 (2006).
26. Rueda, D., Gaide, O., Ho, L., Lewkowicz, E., Niedergang, F., Hailfinger, S., Rebeaud, F., Guzzardi, M., Conne, B., Thelen, M., Delon, J., Ferch, U., Ruland, J., Mak, T., Schwaller, J. and **Thome, M.** Bcl10 controls T-cell receptor- and FcγR-induced actin polymerization. *J. Immunol.* **178**, 4373-4384 (2007).
 - editorial comment: Controlling actin polymerization. *J. Immunol.* **178**, 4003 (2007)
27. Misra, R.S., Russell, J.Q., Koenig, A., Hinshaw-Makepeace, J.A., Wen, R., Wang, D., Huo, H., Littman, D.R., Ferch, U., Ruland, J., **Thome, M.** and Budd, R.C. Caspase-8 and c-FLIPL associate in lipid rafts with NF-κB adaptors during T cell activation. *J. Biol. Chem.* **282**, 19365-19374 (2007).
28. Torgler, R., Bongfen, S.E., Romero, J.C., Tardivel, A., **Thome, M.** and Corradin, G. Sporozoite-mediated hepatocyte wounding limits *Plasmodium* parasite development via MyD88-mediated NF-κB activation and iNOS expression. *J. Immunol.* **180**, 3990-3999 (2008).
29. Rebeaud, F., Hailfinger, S., Posevitz-Fejfar, A., Tapernoux, M., Moser, R., Rueda, D., Gaide, O., Guzzardi, M., Iancu, E.M., Rufer, N., Fasel, N. and **Thome, M.** The proteolytic activity of MALT1 is key to T-cell activation. *Nature Immunol.* **9**, 272-281 (2008).
 - Comment in: McAllister-Lucas, L.M. and Lucas, P.C. Finally, Malt1 is a protease! *Nature Immunol.* **9**, 231-233 (2008)
30. Thureau, M., Marquardt, G., Gonin-Laurent, N., Weinländer, K., Naschberger, E., Jochmann, R., Alkharsah, K.R., Schulz, T.F., **Thome, M.**, Neipel, F., Stürzl, M. The Viral inhibitor of apoptosis vFLIP/K13 protects endothelial cells against superoxide-induced cell death. *J. Virol.* **83**, 598-611 (2009).
31. Brenner, D., Brechmann, M., Rohling, S., Tapernoux, M., Mock, T., Winter, D., Lehmann, W.D., Kiefer, F., **Thome, M.**, Krammer, P.H., and Arnold, R. Phosphorylation of CARMA1 by HPK1 is critical for NF-κB activation in T cells. *Proc. Natl. Acad. Sci. USA* **106**, 14508-14513 (2009).
32. Hailfinger, S., Lenz, G., Ngo, V., Posevitz-Fejfar, A., Rebeaud, F., Guzzardi, M., Murga penas, E., Dierlamm, J., Chan, W.C., Staudt, L.M. and **Thome, M.** Essential role of MALT1 protease activity in activated B cell-like diffuse large B-cell lymphoma. *Proc. Natl. Acad. Sci. USA* **106**, 19946-19951 (2009).
33. Schmid, D.A., Irving, M.B., Posevitz, V., Hebeisen, M., Posevitz-Fejfar, A., Sarria, J.C., Gomez-Eerland, R., **Thome, M.**, Schumacher, T.N., Romero, P., Speiser, D.E., Zoete, V., Michielin, O., Rufer, N. Evidence for a TCR affinity threshold delimiting maximal CD8 T cell function. *J. Immunol.* **184**, 4936-4946 (2010).

Reviews

1. **Thome, M.**, Hirt, W., Pfaff, E., Reddehase, M. J., and Saalmüller, A. Porcine T-cell receptors: molecular and biochemical characterization. *Vet. Immunol. Immunopathol.* **43**, 13-16 (1994).

2. **Thome, M.** and Acuto, O. Molecular mechanism of T-cell activation: role of protein tyrosine kinases in antigen receptor-mediated signal transduction. *Res. Immunol.* **146**, 291-307 (1995).
3. Meinl, E., Fickenscher, H., **Thome, M.**, Tschopp, J., and Fleckenstein, B. Anti-apoptotic strategies of lymphotropic viruses. *Immunol. Today* **19**, 474-9 (1998).
4. ^{##} Tschopp, J., Irmeler, M. and **Thome, M.** Inhibition of fas death signals by FLIPs. *Curr. Opin. Immunol.* **10**, 552-558 (1998).
5. [#] Tschopp, J., **Thome, M.**, Hofmann, K., and Meinl, E. The fight of viruses against apoptosis. *Curr. Opin. Gen. & Dev.* **8**, 82-87 (1998).
6. [#] **Thome, M.** and Tschopp, J. Regulation of lymphocyte proliferation and death by FLIP. *Nature Rev. Immunol.* **1**, 50-58 (2001).
7. **Thome, M.** and Tschopp, J. Bcl10. *Curr. Biol.* **12**, R45 (2002).
8. **Thome, M.** Regulation of actin assembly in the immunological synapse: a critical role for PKC θ . *Dev. Cell* **4**, 3-5 (2003).
9. **Thome, M.** and Tschopp, J. TCR-induced NF- κ B activation: a crucial role for Carma1, Bcl10 and MALT1. *Trends Immunol.* **24**, 419-424 (2003).
10. [#] **Thome, M.** Carma1, Bcl10 and Malt1 in lymphocyte development and activation. *Nature Rev. Immunol.* **4**, 348-359 (2004).
11. Rueda, D. and **Thome, M.** Molecule page: Carma1. *AfCS Nature Molecule Pages*. DOI:10.1038/mp.a003863.01 (2005).
12. Rueda, D. and **Thome, M.** Phosphorylation of Carma1: the link(er) to NF- κ B activation. *Immunity* **23**, 551-553 (2005).
13. Rebeaud, F., Hailfinger, S. and **Thome, M.** Dlg1 and Carma1 MAGUK proteins contribute to signal specificity downstream of TCR activation. *Trends Immunol.* **28**, 196-200 (2007).
14. **Thome, M.** and Weil, R. Posttranslational modifications regulate distinct functions of Carma1 and Bcl10. *Trends Immunol.* **28**, 281-288 (2007).
15. **Thome, M.** Multifunctional roles for MALT1 in T-cell activation. *Nature Rev. Immunol.* **8**, 495-500 (2008).
16. Hailfinger, S., Rebeaud, F. and **Thome, M.** Adaptor and enzymatic functions of proteases in T cell activation. *Immunol. Rev.* **232**, 334-47 (2009).
17. **Thome, M.**, Charton, J., Pelzer, C., and Hailfinger, S. Antigen receptor signaling to NF- κ B via CARMA1, BCL10 and MALT1. *Cold Spring Harb Perspect Biol.* **2**, a003004 (2010).

Book chapter

1. **Thome, M.** Regulation of Fas signaling by FLIP proteins. In: Fas signaling, pp. 38-50. Editor: Harald Wajant. Landes Bioscience, Springer Science & Business Media, Inc., New York (2006).

