

PUBLICATIONS

1. [Goplen NP, Saxena V, Knudson KM, Schrum AG, Gil D, Daniels MA, Zamoyska R, Teixeiro E.](#) 2016. IL-12 Signals through the TCR To Support CD8 Innate Immune Responses. *J Immunol.* 2016 Sep 15; 197(6):2434-43. doi: 10.4049/jimmunol.1600037. Epub 2016 Aug 12. PMID: 27521342
2. [Smith SE, Neier SC, Reed BK, Davis TR, Sinnwell JP, Eckel-Passow JE, Sciallis GF, Wieland CN, Torgerson RR, Gil D, Neuhauser C, Schrum AG.](#) 2016. Multiplex matrix network analysis of protein complexes in the human TCR signalosome. *Sci Signal.* 2016 Aug 2;9(439):rs7. doi: 10.1126/scisignal.aad7279. PMID: 27485017
3. [Smith SE, Maus RL, Davis TR, Sundberg JP, Gil D, Schrum AG.](#) 2016. Maternal IL-6 can cause **T-cell**-mediated juvenile alopecia by non-scarring follicular dystrophy in mice. *Exp Dermatol.* 2016 Mar;25(3):223-8. doi: 10.1111/exd.12914. Epub 2016 Feb 10. PMID: 26660334
4. [Hoffmann MM, Molina-Mendiola C, Nelson AD, Parks CA, Reyes EE, Hansen MJ, Rajagopalan G, Pease LR, Schrum AG, Gil D.](#) 2015. Co-potentiation of antigen recognition: A mechanism to boost weak **T cell** responses and provide immunotherapy in vivo. *Sci Adv.* 2015 Oct 2;1(9):e1500415. doi: 10.1126/sciadv.1500415. eCollection 2015 Oct. PMID: 26601285
5. [Reed BK, Chopp LB, Malo CS, Renner DN, Van Keulen VS, Girtman MA, Nevala WN, Pavelko KD, Gil D, Schrum AG, Johnson AJ, Pease LR.](#) 2015. A Versatile Simple Capture Assay for Assessing the Structural Integrity of MHC Multimer Reagents. *PLoS One.* 2015 Sep 21;10(9):e0137984. doi: 10.1371/journal.pone.0137984. eCollection 2015. PMID: 26389800
6. [Reed BK, Lee KA, Bell MP, Gil D, Schrum AG.](#) 2014. Detection of constant domain of human **T cell** antigen receptor alpha-chain via novel monoclonal antibody 7F18. *Monoclon Antib Immunodiagn Immunother.* 2014 Dec;33(6):386-92. doi: 10.1089/mab.2013.0086. PMID: 25545207
7. [Smith SE, Neier SC, Davis TR, Pittelkow MR, Gil D, Schrum AG.](#) 2014. Signalling protein complexes isolated from primary human skin-resident T cells can be analysed by Multiplex IP-FCM. *Exp Dermatol.* 2014 Apr;23(4):272-3. doi: 10.1111/exd.12362. PMID: 24588717
8. [Salaberria C, Muriel J, de Luna M, Gil D, Puerta M.](#) 2013. The PHA test as an indicator of phagocytic activity in a passerine bird. *PLoS One.* 2013 Dec 31;8(12):e84108. doi: 10.1371/journal.pone.0084108. eCollection 2013. PMID: 24391896
9. [Neier SC, Smith SE, Davis TR, Gil D, Schrum AG.](#) 2013. Toward **T cell** protein-protein interaction activity relevant to alopecia areata. *J Investig Dermatol Symp Proc.* 2013 Dec;16(1):S31-3. doi: 10.1038/jidsymp.2013.9. PMID: 24326546
10. [Ferrer A, Schrum AG, Gil D.](#) 2013. A PCR-Based Method to Genotype Mice Knocked Out for All Four CD3 Subunits, the Standard Recipient Strain for Retrogenic TCR/CD3 Bone Marrow Reconstitution Technology. *Biores Open Access.* 2013 Jun;2(3):222-6. doi: 10.1089/biores.2013.0002. PMID: 23741635

11. [Nelson AD, Hoffmann MM, Parks CA, Dasari S, Schrum AG, Gil D.](#) 2012. IgG Fab fragments forming bivalent complexes by a conformational mechanism that is reversible by osmolytes. *J Biol Chem.* 2012 Dec 14;287(51):42936-50. doi: 10.1074/jbc.M112.410217. Epub 2012 Oct 29. PMID: 23109335
12. [Smith SE, Bida AT, Davis TR, Sicotte H, Patterson SE, Gil D, Schrum AG.](#) 2012. IP-FCM measures physiologic protein-protein interactions modulated by signal transduction and small-molecule drug inhibition. *PLoS One.* 2012;7(9):e45722. doi: 10.1371/journal.pone.0045722. Epub 2012 Sep 21. PMID: 23029201
13. [Martín-Cófreces NB, Baixauli F, López MJ, Gil D, Monjas A, Alarcón B, Sánchez-Madrid F.](#) 2012. End-binding protein 1 controls signal propagation from the **T cell** receptor. *EMBO J.* 2012 Nov 5;31(21):4140-52. doi: 10.1038/emboj.2012.242. Epub 2012 Aug 24. PMID: 22922463
14. [Bida AT, Gil D, Schrum AG.](#) 2012. Multiplex IP-FCM (immunoprecipitation-flow cytometry): Principles and guidelines for assessing physiologic protein-protein interactions in multiprotein complexes. *Methods.* 2012 Feb;56(2):154-60. doi: 10.1016/j.ymeth.2011.09.005. Epub 2011 Sep 16. PMID: 21945581
15. [Schrum AG, Gil D, Turka LA, Palmer E.](#) Physical and functional bivalence observed among TCR/CD3 complexes isolated from primary T cells. *J Immunol.* 2011 Jul 15;187(2):870-8. doi: 10.4049/jimmunol.1100538. Epub 2011 Jun 10. PMID: 21666056
16. [de la Cruz J, Kruger T, Parks CA, Silge RL, van Oers NS, Luescher IF, Schrum AG, Gil D.](#) 2011. Basal and antigen-induced exposure of the proline-rich sequence in CD3 ϵ . *J Immunol.* 2011 Feb 15;186(4):2282-90. doi: 10.4049/jimmunol.1003225. Epub 2011 Jan 12. PMID: 21228347
17. [Gil D, Schrum AG, Daniels MA, Palmer E.](#) 2008. A role for CD8 in the developmental tuning of antigen recognition and CD3 conformational change. *J Immunol.* 2008 Mar 15;180(6):3900-9. PMID: 18322198
18. [Schrum AG, Gil D, Dopfer EP, Wiest DL, Turka LA, Schamel WW, Palmer E.](#) 2007. High-sensitivity detection and quantitative analysis of native protein-protein interactions and multiprotein complexes by flow cytometry. *Sci STKE.* 2007 Jun 5;2007(389):pl2. Erratum in: *Sci STKE.* 2007 Jun 19;2007(391):er3. PMID: 17551170
19. [Szymczak AL, Workman CJ, Gil D, Dilioglou S, Vignali KM, Palmer E, Vignali DA.](#) 2005. The CD3 ϵ proline-rich sequence, and its interaction with Nck, is not required for **T cell** development and function. *J Immunol.* 2005 Jul 1;175(1):270-5. PMID: 15972658
20. [Risueño RM, Gil D, Fernández E, Sánchez-Madrid F, Alarcón B.](#) 2005. Ligand-induced conformational change in the **T-cell** receptor associated with productive immune synapses. *Blood.* 2005 Jul 15;106(2):601-8. Epub 2005 Mar 24. PMID: 15790785
21. [Gil D, Schrum AG, Alarcón B, Palmer E.](#) 2005. **T cell** receptor engagement by peptide-MHC ligands induces a conformational change in the CD3 complex of thymocytes. *J Exp Med.* 2005 Feb 21;201(4):517-22. PMID: 15728235

22. [Pérez O, Bracho G, Lastre M, Mora N, del Campo J, Gil D, Zayas C, Acevedo R, González D, López JA, Taboada C, Turtle C, Solis RL](#). 2004. Novel adjuvant based on a proteoliposome-derived cochleate structure containing native lipopolysaccharide as a pathogen-associated molecular pattern. *Immunol Cell Biol.* 2004 Dec;82(6):603-10. Erratum in: *Immunol Cell Biol.* 2005 Apr;83(2):200. Turtle, Cameron [added]. PMID: 15550118
23. [Alarcón B, Gil D, Delgado P, Schamel WW](#). 2003. Initiation of TCR signaling: regulation within CD3 dimers. *Immunol Rev.* 2003 Feb;191:38-46. Review. PMID: 12614350
24. [Gil D, Schamel WW, Montoya M, Sánchez-Madrid F, Alarcón B](#). 2002. Recruitment of Nck by CD3 epsilon reveals a ligand-induced conformational change essential for **T cell** receptor signaling and synapse formation. *Cell.* 2002 Jun 28;109(7):901-12. PMID: 12110186
25. [Sancho D, Montoya MC, Monjas A, Gordón-Alonso M, Katagiri T, Gil D, Tejedor R, Alarcón B, Sánchez-Madrid F](#). 2002. TCR engagement induces proline-rich tyrosine kinase-2 (Pyk2) translocation to the **T cell**-APC interface independently of Pyk2 activity and in an immunoreceptor tyrosine-based activation motif-mediated fashion. *J Immunol.* 2002 Jul 1;169(1):292-300. PMID: 12077257
26. [Gil D, Gutiérrez D, Alarcón B](#). 2000. Intracellular redistribution of nucleolin upon interaction with the CD3epsilon chain of the **T cell** receptor complex. *J Biol Chem.* 2001 Apr 6;276(14):11174-9. Epub 2000 Dec 13. PMID: 11115514
27. [Borroto A, Gil D, Delgado P, Vicente-Manzanares M, Alcover A, Sánchez-Madrid F, Alarcón B](#). 2000. Rho regulates **T cell** receptor ITAM-induced lymphocyte spreading in an integrin-independent manner. *Eur J Immunol.* 2000 Dec;30(12):3403-10. PMID: 11093158