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CATEGORÍA: Profesor Investigador de Tiempo Completo Asociado C
SNI: Nivel I

Formación

Licenciatura: 07/1992 Biología
Benemérita Universidad Autónoma de Puebla

Posgrado: 01/1998-05/2003 Doctorado en Ciencias
Instituto de Biotecnología/UNAM

Postdoctorado:10/2003-10/2008 Institut de Recherches Cliniques de Montréal
Montréal Quebec, Canada
Supervisor: André Veillette M.D.

Experiencia laboral

01/2014- Profesor Investigador de Tiempo
Facultad de Medicina, UAEM

09/2010-12/2013 Investigador Asociado
Instituto de Biotecnología

01/2008-09/2010 Investigador asociado
Institut de Recherches Cliniques de Montréal Montréal
Quebec, Canada

Honores y Premios

01/2004-01/2006 Postdoctoral Fellowship. Cancer Research Society.Canada

01/2007-01/2009 Postdoctoral Fellowship. National Cancer Institute of Canada and
the Terry Fox Foundation. Canada

01/2007- Miembro del Sistema Nacional de Investigadores

PUBLICACIONES

1. Jun Chen, Ming-Chao Zhong, Huaijian Guo, Dominique Davidson, Sabrin Mishel, Yan Lu, Inmoo Rhee, Luis-Alberto Pérez-Quintero, Shaohua Zhang, Mario-Ernesto Cruz-Munoz, Ning Wu¹, Donald C. Vinh⁷, Meenal Sinha, Virginie Calderon, Clifford A. Lowell, Jayne S. Danska & André Veillette. SLAMF7 is critical for phagocytosis of haematopoietic tumour cells via Mac-1 integrin. *Nature*. doi:10.1038/nature22076
2. Villanueva-Cabello TM, Mollicone R, Cruz-Muñoz ME, López-Guerrero DV, Martínez-Duncker I. Activation of human naïve Th cells increases surface expression of GD3 and induces neoexpression of GD2 that colocalize with TCR clusters. *Glycobiology*. 2015 Dec;25(12):1454-64
3. Liñán-Rico L, Hernández-Castro B, Doniz-Padilla L, Portillo-Salazar H, Baranda L, Cruz-Muñoz ME, González-Amaro R. Analysis of expression and function of the co-stimulatory receptor SLAMF1 in immune cells from patients with systemic lupus erythematosus (SLE). *Lupus*. 2015 Oct;24(11):1184-90
4. Guo H, Cruz-Munoz ME, Wu N, Robbins M, Veillette A. Immune cell inhibition by SLAMF7 is mediated by a mechanism requiring src kinases, CD45, and SHIP-1 that is defective in multiple myeloma cells. *Mol Cell Biol*. 2015 Jan;35(1):41-51. doi: 10.1128/MCB.01107-14. Epub 2014 Oct 13.
5. Pedraza-Alva G, Mérida LB, Del Rio R, Fierro NA, Cruz-Muñoz ME, Olivares N, Melchy E, Igras V, Holländer GA, Burakoff SJ, Rosenstein Y. CD43 regulates the threshold for T cell activation by targeting Cbl functions. *IUBMB Life*. 2011 Oct;63(10):940-8. doi: 10.1002/iub.554. Epub 2011 Sep 9.
6. Cruz-Munoz ME, Veillette A. Do NK cell always need a license to kill? *Nat Immunol*. 2010. Apr; 11(4): 279-280.
7. Veillette A, Dong Z, Pérez-Quintero LA, Zhong MC, Cruz-Munoz ME. Importance and mechanism of “switch” function of SAP family adapters. *Immunological Reviews*. 2009. Nov; 232:229-239.
8. Dong Z, Cruz-Munoz ME, Zhong MC, Chen R, Latour S, Veillette A. Essential function for SAP family adapters in the surveillance of hematopoietic cells by natural killer cells. *Nat Immunol*. 2009. Sep; 10(9): 973-980. Epub 2009 Aug 2.
9. Cruz-Munoz ME, Dong Z, Shi X, Zhang S, Veillette A. Influence of CRACC, a SLAM family receptor coupled the adaptor EAT-2, on natural killer cell function. *Nat Immunol*. 2009. Mar; 297-305. Epub 2009 Jan 18.

10. Veillette, A., Cruz-Munoz, ME and Zhong, MC. SLAM family receptors and SAP-related adaptors: matters arising. *Trends Immunol.* 2006; 27:228-234.
11. Roncagalli R, Taylor JE, Zhang S, Shi X, Chen R, Cruz-Munoz ME, Yin L, Veillette A. *Nat Immunol.* 2005 Oct;6(10):1002-10. Epub 2005 Aug 28.
12. Cruz-Munoz ME, Salas-Vidal E, Salaiza-Suazo N, Becker I, Pedraza-Alva G. and Rosenstein Y. The CD43 coreceptor molecule recruits the zeta chain as part of its signaling pathway. *J. Immunol.* 2003. Aug 15; 171(4): 1901-8.
13. Pedraza-Alva G, Sawasdikosol S, Liu YC, Merida LB, Cruz-Munoz ME, Ocegüera-Yanez F, Burakoff SJ, Rosenstein Y. Regulation of Cbl molecular interactions by the co-receptor molecule CD43 in human T cells. *J Biol Chem.* 2001 Jan 5; 276(1):729-37.
14. Medina LC, Vazquez-Prado J, Torres-Padilla ME, Mendoza-Mendoza A, Cruz Munoz ME, Garcia-Sainz JA. Crosstalk: phosphorylation of alpha1b-adrenoceptors induced through activation of bradykinin B2 receptors. *FEBS Lett.* 1998 Jan 30; 422(2):141-5.
15. Garcia-Sainz JA, Cruz-Munoz ME, Romero-Avila MT. Characterization of the beta-2 adrenoceptors of dog liver. *Comp Biochem Physiol C Pharmacol Toxicol Endocrinol.* 1996 Sep; 115(1):61-5.

