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DOCTOR EN CIENCIAS

ÁREA INMUNOLOGÍA

LÍNEAS DE
INVESTIGACIÓN

RESPUESTA INMUNE INNATA Y
ADAPTATIVA

EN CÁNCER

SENSIBILIZACIÓN A LA APOPTOSIS
EN CÉLULAS

TUMORALES

RESPUESTA INMUNE Y
QUIMIOTERAPIA

EXPERTO EN RESPUESTA INMUNE, CULTIVO CELULAR Y CITOMETRÍA DE

ARTÍCULOS PUBLICADOS

[17 \$\beta\$ -estradiol-induced mitochondrial dysfunction and Warburg effect in cervical cancer cells allow cell survival under metabolic stress.](#) Riera Leal A, Ortiz-Lazareno PC, Jave-Suárez LF, Ramírez De Arellano A, Aguilar-Lemarroy A, Ortiz-García YM, Barrón-Gallardo CA, Solís-Martínez R, Luquin De Anda S, Muñoz-Valle JF, Pereira-Suárez AL. *Int J Oncol.* 2020 Jan;56(1):33-46. doi: 10.3892/ijo.2019.4912. Epub 2019 Nov 14.

[Low-dose endosulfan inhibits proliferation and induces senescence and pro-inflammatory cytokine production in human lymphocytes, preferentially impacting cytotoxic cells.](#) Téllez-Bañuelos MC, González-Ochoa S, Ortiz-Lazareno PC, Rosas-Gonzalez VC, Gómez-Villela J, Haramati J. *J Immunotoxicol.* 2019 Dec;16(1):173-181. doi: 10.1080/1547691X.2019.1668513.

[Effect of pregnancy hormone mixtures on cytokine production and surface marker expression in naïve and LPS-activated THP-1 differentiated monocytes/macrophages.](#) Mendoza-Cabrera MI, Navarro-Hernández RE, Santerre A, Ortiz-Lazareno PC, Pereira Suárez AL, Estrada-Chávez C. *Innate Immun.* 2019 Jul 31:1753425919864658. doi: 10.1177/1753425919864658. [Epub ahead of print]

[The supernatant of cervical carcinoma cells lines induces a decrease in phosphorylation of STAT-1 and NF- \$\kappa\$ B transcription factors associated with changes in profiles of cytokines and growth factors in macrophages derived from U937 cells.](#) Sánchez-Reyes K, Pedraza-Brindis EJ, Hernández-Flores G, Bravo-Cuellar A, López-López BA, Rosas-González VC, Ortiz-Lazareno PC. *Innate Immun.* 2019 Aug;25(6):344-355. doi: 10.1177/1753425919848841. Epub 2019 May 17. No abstract available.

[Effect of diazinon, an organophosphate pesticide, on signal transduction and death induction in mononuclear cells of Nile tilapia fish \(*Oreochromis niloticus*\).](#) Díaz-Resendiz KJG, Ortiz-Lazareno PC, Covantes-Rosales CE, Trujillo-Lepe AM, Toledo-Ibarra GA, Ventura-Ramón GH, Girón-Pérez MI. *Fish Shellfish Immunol.* 2019 Jun;89:12-17. doi: 10.1016/j.fsi.2019.03.036. Epub 2019 Mar 16.

[Pentoxifylline Enhances the Apoptotic Effect of Carboplatin in Y79 Retinoblastoma Cells.](#) Cruz-Galvez CC, Ortiz-Lazareno PC, Pedraza-Brindis EJ, Villasenor-García MM, Reyes-Uribe E, Bravo-Hernandez A, Solís-Martínez RA, Cancino-Marentes M, Rodríguez-Padilla C, Bravo-Cuellar A, Hernandez-Flores G. *In Vivo.* 2019 Mar-Apr;33(2):401-412. doi: 10.21873/invivo.11487.

[GPER Overexpression in Cervical Cancer Versus Premalignant Lesions: Its Activation Induces Different Forms of Cell Death.](#) Hernandez-Silva CD, Riera-Leal A, Ortiz-Lazareno PC, Jave-Suárez LF, Ramírez De Arellano A, Lopez-Pulido EI, Macías-Barragan JG, Montoya-Buelna M, Dávila-Rodríguez JR, Chabay P, Muñoz-Valle JF, Pereira-Suárez AL. *Anticancer Agents Med Chem.* 2019;19(6):783-791. doi: 10.2174/1871520619666190206171509.

[Phagocytosis and ROS production as biomarkers in Nile tilapia \(*Oreochromis niloticus*\) leukocytes by exposure to organophosphorus pesticides.](#) Covantes-Rosales CE, Trujillo-Lepe AM, Díaz-Reséndiz KJG,

Toledo-Ibarra GA, Ventura-Ramón GH, Ortiz-Lazareno PC, Girón-Pérez MI. Fish Shellfish Immunol. 2019 Jan;84:189-195. doi: 10.1016/j.fsi.2018.10.002. Epub 2018 Oct 4.

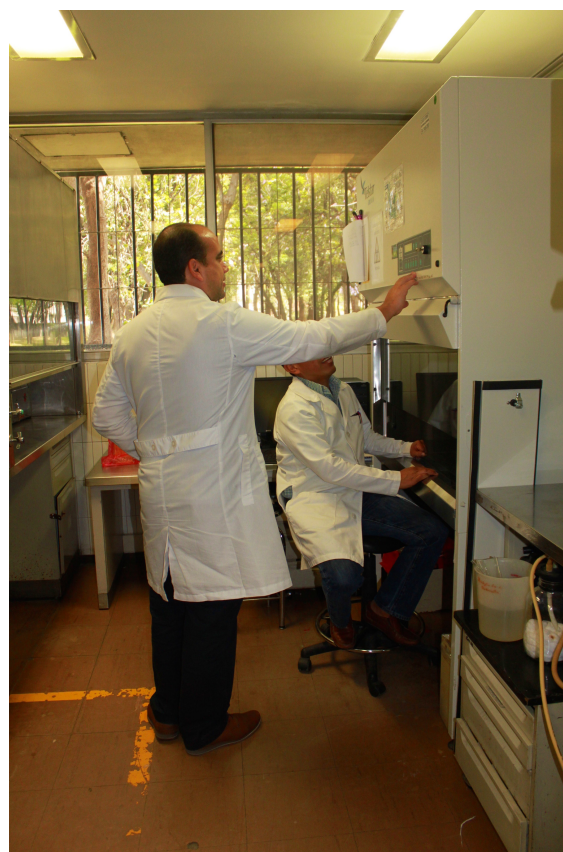
[Effects of 60 kDa prolactin and estradiol on metabolism and cell survival in cervical cancer: Co-expression of their hormonal receptors during cancer progression.](#) Riera-Leal A, Ramírez De Arellano A, Ramírez-López IG, Lopez-Pulido EI, Dávila Rodríguez JR, Macías-Barragan JG, Ortiz-Lazareno PC, Jave-Suárez LF, Artaza-Irigaray C, Del Toro Arreola S, Montoya-Buelna M, Muñoz-Valle JF, Pereira-Suárez AL. Oncol Rep. 2018 Dec;40(6):3781-3793. doi: 10.3892/or.2018.6743. Epub 2018 Sep 28.

[Urine TREM-1 as a marker of urinary tract infection in children.](#) Sierra-Díaz E, Bravo Cuéllar A, Ortiz Lazareno PC, García Gutiérrez M, Georgina HF, Anaya Prado R. J Int Med Res. 2017 Apr;45(2):631-638. doi: 10.1177/0300060517696199. Epub 2017 Apr 2.

[Association of BAFF, APRIL serum levels, BAFF-R, TACI and BCMA expression on peripheral B-cell subsets with clinical manifestations in systemic lupus erythematosus.](#) Salazar-Camarena DC, Ortiz-Lazareno PC, Cruz A, Oregon-Romero E, Machado-Contreras JR, Muñoz-Valle JF, Orozco-López M, Marín-Rosales M, Palafox-Sánchez CA. Lupus. 2015 Sep 29. pii: 0961203315608254. [Epub ahead of print] PMID: 26424128

[Pentoxifylline during steroid window phase at induction to remission increases apoptosis in childhood with acute lymphoblastic leukemia.](#) Gonzalez-Ramella O, Ortiz-Lazareno PC, Jiménez-López X, Gallegos-Castorena S, Hernández-Flores G, Medina-Barajas F, Meza-Arroyo J, Jave-Suárez LF, Lerma-Díaz JM, Sánchez-Zubieta F, Bravo-Cuellar A. Clin Transl Oncol. 2016 Apr;18(4):369-74. doi: 10.1007/s12094-015-1376-x. Epub 2015 Sep 2. PMID: 26329293

[Expression of WNT genes in cervical cancer-derived cells: Implication of WNT7A in cell proliferation and migration.](#) Ramos-Solano M, Meza-Canales ID, Torres-Reyes LA, Alvarez-Zavala M, Alvarado-Ruiz L, Rincon-Orozco B, Garcia-Chagollan M, Ochoa-Hernández AB, Ortiz-Lazareno PC, Rösl F, Gariglio P, Jave-Suárez LF, Aguilar-Lemarroy A. Exp Cell Res. 2015 Jul 1;335(1):39-50. doi: 10.1016/j.yexcr.2015.05.001. Epub 2015 May 12. PMID:25978974



[Proapoptotic CD95L levels in normal human serum and sera of breast cancer patients.](#) Olimón-Andalón V, Aguilar-Lemarroy A, Ratkovich-González S, Uribe-López A, Mariscal-Ramírez I, Delgadillo-Cristerna R, Ortiz-Lazareno P, Hernández-Flores G, de Celis R, Bravo-Cuellar A, Jave-Suárez LF. Tumour Biol. 2015 May;36(5):3669-78. doi: 10.1007/s13277-014-3005-7. Epub 2015 Jan 4. PMID: 25557789

[Expression of transcription factor grainyhead-like 2 is diminished in cervical cancer.](#) Torres-Reyes LA, Alvarado-Ruiz L, Piña-Sánchez P, Martínez-Silva MG, Ramos-Solano M, Olimón-Andalón V, Ortiz-Lazareno PC, Hernández-Flores G, Bravo-Cuellar A, Aguilar-Lemarroy A, Jave-Suarez LF. Int J Clin Exp Pathol. 2014 Oct 15;7(11):7409-18. eCollection 2014. PMID: 25550776

[Cervical cancer cell supernatants induce a phenotypic switch from U937-derived macrophage-activated M1 state into M2-like suppressor phenotype with change in Toll-like receptor profile.](#) Sánchez-Reyes K, Bravo-Cuellar A, Hernández-Flores G, Lerma-Díaz JM, Jave-Suárez LF, Gómez-Lomeli P, de Celis R, Aguilar-Lemarroy A, Domínguez-Rodríguez JR, Ortiz-Lazareno PC. Biomed Res Int. 2014;2014:683068. doi: 10.1155/2014/683068. Epub 2014 Sep 21. PMID: 25309919

[Increase of IFN- \$\gamma\$ and TNF- \$\alpha\$ production in CD107a + NK-92 cells co-cultured with cervical cancer cell lines pre-treated with the HO-1 inhibitor.](#) Gómez-Lomeli P, Bravo-Cuellar A, Hernández-Flores G, Jave-Suárez LF, Aguilar-Lemarroy A, Lerma-Díaz JM, Domínguez-Rodríguez JR, Sánchez-Reyes K, Ortiz-Lazareno PC. Cancer Cell Int. 2014 Oct 1;14(1):100. doi: 10.1186/s12935-014-0100-1. eCollection 2014. PMID: 25302050

[CD28-, CD45RA\(null/dim\) and natural killer-like CD8+ T cells are increased in peripheral blood of women with low-grade cervical lesions.](#) Pita-Lopez ML, Ortiz-Lazareno PC, Navarro-Meza M, Santoyo-Telles F, Peralta-Zaragoza O. Cancer Cell Int. 2014 Sep 24;14(1):97. doi: 10.1186/s12935-014-0097-5. eCollection 2014. PMID: 25278812

[Endosulfan decreases cytotoxic activity of nonspecific cytotoxic cells and expression of granzyme gene in Oreochromis niloticus.](#) Téllez-Bañuelos MC, Ortiz-Lazareno PC, Jave-Suárez LF, Siordia-Sánchez VH, Bravo-Cuellar A, Santerre A, Zaitseva GP. Fish Shellfish Immunol. 2014 May;38(1):196-203. doi: 10.1016/j.fsi.2014.03.012. Epub 2014 Mar 20. PMID: 24657320

[Detection of monoclonal IGH rearrangements in circulating cells from healthy first-degree relatives of patients with multiple myeloma.](#) García-Castillo H, Leal-Ugarte E, Ortiz Lazareno PC, Barrera-Chairez E, Rosales-García VH, Barros-Núñez P. Med Oncol. 2014 Apr;31(4):900. doi: 10.1007/s12032-014-0900-0. Epub 2014 Mar 1. PMID: 24577939

[Sensitization of U937 leukemia cells to doxorubicin by the MG132 proteasome inhibitor induces an increase in apoptosis by suppressing NF-kappa B and mitochondrial membrane potential loss.](#) Ortiz-Lazareno PC, Bravo-Cuellar A, Lerma-Díaz JM, Jave-Suárez LF, Aguilar-Lemarroy A, Domínguez-Rodríguez JR, González-Ramella O, De Celis R, Gómez-Lomeli P, Hernández-Flores G. Cancer Cell Int. 2014 Feb 4;14(1):13. doi: 10.1186/1475-2867-14-13. PMID: 24495648

[Restoration of WNT4 inhibits cell growth in leukemia-derived cell lines.](#) García-Castro B, Alvarez-Zavala M, Riveros-Magaña AR, Ortíz-Lazareno PC, Ratkovich-González S, Hernández-Flores G, Bravo-Cuellar A, Jave-Suarez LF, Aguilar-Lemarroy A. BMC Cancer. 2013 Nov 25;13:557. doi: 10.1186/1471-2407-13-557. PMID: 24274766

[Pentoxifylline and the proteasome inhibitor MG132 induce apoptosis in human leukemia U937 cells through a decrease in the expression of Bcl-2 and Bcl-XL and phosphorylation of p65.](#) Bravo-Cuellar A, Hernández-Flores G, Lerma-Díaz JM, Domínguez-Rodríguez JR, Jave-Suárez LF, De Celis-Carrillo R, Aguilar-Lemarroy A, Gómez-Lomeli P, Ortiz-Lazareno PC. J Biomed Sci. 2013 Feb 28;20:13. doi: 10.1186/1423-0127-20-13. PMID: 23445492

[The effect of ubiquinone in diabetic polyneuropathy: a randomized double-blind placebo-controlled study.](#) Hernández-Ojeda J, Cardona-Muñoz EG, Román-Pintos LM, Troyo-Sanromán R, Ortiz-Lazareno PC, Cárdenas-Meza MA, Pascoe-González S, Miranda-Díaz AG. J Diabetes Complications. 2012 Jul-Aug;26(4):352-8. doi: 10.1016/j.jdiacomp.2012.04.004. Epub 2012 May 16. PMID: 22595020

[Immune response to a potyvirus with exposed amino groups available for chemical conjugation.](#) Manuel-Cabrera CA, Márquez-Aguirre A, Rodolfo HG, Ortiz-Lazareno PC, Chavez-Calvillo G, Carrillo-Tripp M, Silva-Rosales L, Gutiérrez-Ortega A. Virol J. 2012 Mar 27;9:75. doi: 10.1186/1743-422X-9-75. PMID: 22452850

[Cervical cancer cell lines expressing NKG2D-ligands are able to down-modulate the NKG2D receptor on NK cells with functional implications.](#) Jimenez-Perez MI, Jave-Suarez LF, Ortiz-Lazareno PC, Bravo-Cuellar A, Gonzalez-Ramella O, Aguilar-Lemarroy A, Hernandez-Flores G, Pereira-Suarez AL, Daneri-Navarro A, del Toro-Arreola S. BMC Immunol. 2012 Feb 8;13:7. doi: 10.1186/1471-2172-13-7. PMID: 22316211

[Peripheral T-lymphocytes express WNT7A and its restoration in leukemia-derived lymphoblasts inhibits cell proliferation.](#) Ochoa-Hernández AB, Ramos-Solano M, Meza-Canales ID, García-Castro B, Rosales-Reynoso MA, Rosales-Aviña JA, Barrera-Chaires E, Ortiz-Lazareno PC, Hernández-Flores G, Bravo-Cuellar A, Jave-Suarez LF, Barros-Núñez P, Aguilar-Lemarroy A. BMC Cancer. 2012 Feb 7;12:60. doi: 10.1186/1471-2407-12-60. PMID: 22313908

[MEIS1, PREP1, and PBX4 are differentially expressed in acute lymphoblastic leukemia: association of MEIS1 expression with higher proliferation and chemotherapy resistance.](#) Rosales-Aviña JA, Torres-Flores J, Aguilar-Lemarroy A, Gurrola-Díaz C, Hernández-Flores G, Ortiz-Lazareno PC, Lerma-Díaz JM, de Celis R, González-Ramella Ó, Barrera-Chaires E, Bravo-Cuellar A, Jave-Suárez LF. J Exp Clin Cancer Res. 2011 Dec 20;30:112. doi: 10.1186/1756-9966-30-112. PMID: 22185299

[Pentoxifylline sensitizes human cervical tumor cells to cisplatin-induced apoptosis by suppressing NF-kappa B and decreased cell senescence.](#) Hernandez-Flores G, Ortiz-Lazareno PC, Lerma-Díaz JM, Dominguez-Rodriguez JR, Jave-Suarez LF, Aguilar-Lemarroy A, de Celis-Carrillo R, del Toro-Arreola S, Castellanos-Esparza YC, Bravo-Cuellar A. BMC Cancer. 2011 Nov 10;11:483. doi: 10.1186/1471-2407-11-483. PMID: 22074157

[Effects of low concentration of endosulfan on proliferation, ERK1/2 pathway, apoptosis and senescence in Nile tilapia \(Oreochromis niloticus\) splenocytes.](#) Tellez-Bañuelos MC, Ortiz-Lazareno PC, Santerre A, Casas-Solis J, Bravo-Cuellar A, Zaitseva G. Fish Shellfish Immunol. 2011 Dec;31(6):1291-6. doi: 10.1016/j.fsi.2011.10.003. Epub 2011 Oct 13. PMID: 22008288

[YKL-40 expression in CD14⁺ liver cells in acute and chronic injury.](#) Pizano-Martínez O, Yañez-Sánchez I, Alatorre-Carranza P, Miranda-Díaz A, Ortiz-Lazareno PC, García-Iglesias T, Daneri-Navarro A, Vázquez-



Del Mercado M, Fafutis-Morris M, Delgado-Rizo V. World J Gastroenterol. 2011 Sep 7;17(33):3830-5. doi: 10.3748/wjg.v17.i33.3830. PMID: 21987626

[MHC class I-related chain A and B ligands are differentially expressed in human cervical cancer cell lines.](#) Del Toro-Arreola S, Arreygue-Garcia N, Aguilar-Lemarroy A, Cid-Arregui A, Jimenez-Perez M, Haramati J, Barros-Núñez P, Gonzalez-Ramella O, Del Toro-Arreola A, Ortiz-Lazareno P, Hernandez-Flores G, Bravo-Cuellar A, Daneri-Navarro A, Jave-Suarez LF. Cancer Cell Int. 2011 Jun 1;11:15. doi: 10.1186/1475-2867-11-15. PMID: 21631944

[Sensitization of cervix cancer cells to Adriamycin by Pentoxifylline induces an increase in apoptosis and decrease senescence.](#) Bravo-Cuellar A, Ortiz-Lazareno PC, Lerma-Díaz JM, Domínguez-Rodríguez JR, Jave-Suarez LF, Aguilar-Lemarroy A, del Toro-Arreola S, de Celis-Carrillo R, Sahagun-Flores JE, de Alba-Garcia JE, Hernandez-Flores G. Mol Cancer. 2010 May 19;9:114. doi: 10.1186/1476-4598-9-114. PMID: 20482878

[Low NKp30, NKp46 and NKG2D expression and reduced cytotoxic activity on NK cells in cervical cancer and precursor lesions.](#) Garcia-Iglesias T, Del Toro-Arreola A, Albarran-Somoza B, Del Toro-Arreola S, Sanchez-Hernandez PE, Ramirez-Dueñas MG, Balderas-Peña LM, Bravo-Cuellar A, Ortiz-Lazareno PC, Daneri-Navarro A. BMC Cancer. 2009 Jun 16;9:186. doi: 10.1186/1471-2407-9-186. PMID: 19531227

[Gossypol induced apoptosis of polymorphonuclear leukocytes and monocytes: involvement of mitochondrial pathway and reactive oxygen species.](#) Barba-Barajas M, Hernández-Flores G, Lerma-Díaz JM, Ortiz-Lazareno PC, Domínguez-Rodríguez JR, Barba-Barajas L, de Celis R, Jave-Suarez LF, Aguilar-Lemarroy AC, Guevara-Barraza MG, Bravo-Cuellar A. Immunopharmacol Immunotoxicol. 2009 Jun;31(2):320-30. doi: 10.1080/08923970902718049. PMID: 19235535

[Apoptosis induction in Jurkat cells and sCD95 levels in women's sera are related with the risk of developing cervical cancer.](#) Aguilar-Lemarroy A, Romero-Ramos JE, Olimon-Andalon V, Hernandez-Flores G, Lerma-Díaz JM, Ortiz-Lazareno PC, Morgan-Villela G, Del Toro-Arreola S, Bravo-Cuellar A, Jave-Suarez LF. BMC Cancer. 2008 Apr 11;8:99. doi: 10.1186/1471-2407-8-99. PMID: 18405371

[MG132 proteasome inhibitor modulates proinflammatory cytokines production and expression of their receptors in U937 cells: involvement of nuclear factor-kappaB and activator protein-1.](#) Ortiz-Lazareno PC, Hernandez-Flores G, Domínguez-Rodríguez JR, Lerma-Díaz JM, Jave-Suarez LF, Aguilar-Lemarroy A, Gomez-Contreras PC, Scott-Algara D, Bravo-Cuellar A. Immunology. 2008 Aug;124(4):534-41. doi: 10.1111/j.1365-2567.2008.02806.x. Epub 2008 Feb 20. PMID: 18298552

[In vitro induction of apoptosis in U937 cells by perillyl alcohol with sensitization by pentoxifylline: increased BCL-2 and BAX protein expression.](#) Gómez-Contreras PC, Hernández-Flores G, Ortiz-Lazareno PC, Del Toro-Arreola S, Delgado-Rizo V, Lerma-Díaz JM, Barba-Barajas M, Domínguez-Rodríguez JR, Bravo Cuellar A. Chemotherapy. 2006;52(6):308-15. Epub 2006 Sep 29. PMID: 17008791

[In vivo and in vitro sensitization of leukemic cells to adriamycin-induced apoptosis by pentoxifylline. Involvement of caspase cascades and IkappaBalpha phosphorylation.](#) Lerma-Díaz JM, Hernández-Flores G, Domínguez-Rodríguez JR, Ortiz-Lazareno PC, Gómez-Contreras P, Cervantes-Munguía R, Scott-Algara D, Aguilar-Lemarroy A, Jave-Suárez LF, Bravo-Cuellar A. Immunol Lett. 2006 Mar 15;103(2):149-58. Epub 2005 Nov 18. PMID: 16388856

[Gamma-irradiation induced apoptosis in peritoneal macrophages by oxidative stress. Implications of antioxidants in caspase mitochondrial pathway.](#) Hernández-Flores G, Gómez-Contreras PC, Domínguez-Rodríguez JR, Lerma-Díaz JM, Ortiz-Lazareno PC, Cervantes-Munguía R, Sahagún-Flores JE, Orbach-Arbouys S, Scott-Algara D, Bravo-Cuellar A. Anticancer Res. 2005 Nov-Dec;25(6B):4091-100. PMID: 16309202

[In vivo modification of adriamycin-induced apoptosis in L-5178Y lymphoma cell-bearing mice by \(+\)-alpha-tocopherol and superoxide dismutase.](#) Bravo-Cuellar A, Gómez-Contreras PC, Lerma-Díaz JM, Hernández-Flores G, Domínguez-Rodríguez JR, Ortiz-Lazareno P, Cervantes-Munguía R, Orbach-Arbouys S. Cancer Lett. 2005 Nov 8;229(1):59-65. PMID: 16157219

[In vivo adriamycin-induced apoptosis in peritoneal murine macrophages: partial participation of a caspase cascade.](#) Domínguez-Rodríguez JR, Chaparro-Huerta V, Hernández-Flores G, Gómez-Contreras PC, Lerma-Díaz JM, Ortiz-Lazareno PC, Cervantes-Munguía R, Orbach-Arbouys S, Scott-Algara D, Cuellar AB. Anticancer Res. 2004 Sep-Oct;24(5A):2689-96. PMID: 15517873

LIBROS

Anastasia López-Andrade Jurado, José Luis Martín Ruiz, Alejandro Bravo Cuellar, Antonio Almazán Duro, Luis Bravo Cuellar, Armando O. Carranco López, Jorge R. Domínguez Rodríguez, Piedad Gómez Contreras, Georgina Hernandez Flores, **Pablo C Ortiz Lazareno**. [Anestesia y respuesta inmune en el paciente quirúrgico](#). Editado por la Universidad de Guadalajara. Granada España, Tepatitlán, Jalisco, México. 2003. ISBN 970-93591. p. 71.



CAPÍTULOS EN LIBROS

Jalisco en el Mundo Contemporáneo, Aportaciones para una Enciclopedia de la Epoca. Tomo III: Ciencias Biomédicas y Físico-Químico-Biológicas. Capítulo: **Inmunotoxicidad de los Hidrocarburos Aromáticos**. Ruth de Celis Carrillo, Georgina Hernández Flores, José Manuel Lerma Díaz, Adriana Aguilar Lemarroy, Luis Felipe Jave Suárez, Pablo Cesar Ortiz Lazareno, Jorge Domínguez Rodríguez y Alejandro Bravo Cuellar. Universidad de Guadalajara-Consejo Estatal de Ciencia y Tecnología. Primera Edición, 2014. Pag. 163-177. ISBN: 978-607-450-991-5.

Inmunidad y Ambiente. Capítulo: **Efectos Adversos de los Hidrocarburos sobre la Respuesta Inmune**. Ruth de Celis Carrillo, Georgina Hernández Flores, Pablo Cesar Ortiz Lazareno, Adriana Aguilar Lemarroy, Luis Felipe Jave Suárez y Alejandro Bravo Cuellar. Universidad de Guadalajara. Astra Ediciones S.A. de C.V. 2da Edición, 2014. Pag. 101-126. ISBN: 978-670-8193-88-2.

Georgina Hernández Flores, **Pablo Cesar Ortiz Lazareno**, Adriana Aguilar Lemarroy, Martha Barba-Barajas, Alejandro Bravo Cuellar. **Apoptotic cell death**. En: Bravo Cuellar A. Apoptosis (Apoptosis, epifluorescence microscopy, flow cytometry and DNA ladder pattern analysis). Biosmédica. 2009. ISBN -968-9115-006, p. 1-8.

Pablo Cesar Ortiz Lazareno, José Manuel Lerma Díaz, Sergio Gutiérrez Tagle, Alejandro Bravo Cuellar, Mario Gabriel Guevara Barraza. **Flow cytometry**. En: Bravo Cuellar A. Apoptosis (Apoptosis, epifluorescence microscopy, flow cytometry and DNA ladder pattern analysis). Biosmédica. 2009. ISBN -968-9115-006, p. 20-29.

A. Bravo Cuellar, P. **Ortiz-Lazareno**, P. Gomez-Contreras, G. Hernandez-Flores, J. Domínguez-Rodríguez, M. Barba-Barajas, J. Lerma-Díaz, A. Daneri Navarro. **Participation of the proteasome on the TNF-alfa, IL-1beta and IL-6 release by U937 cells**. En: Immunology (Medimond), 2004. ISBN 88-7587-069-1, p. 41-45.

DISTINCIONES

- Distinción de **Investigador Nacional Nivel II** Otorgado por el Sistema Nacional de Investigadores – CONACYT.
- Obtención del **Premio Pedro Sarquis Merrewe 2009**, en la modalidad “Neoplasias Malignas”, con el trabajo titulado: *In vivo and in vitro sensitization of leukemic cells to adriamycin-induced apoptosis by pentoxifylline involvement of caspase cascades and IkBa phosphorylation. Coautor de trabajo.*
- Obtención del **Premio Pedro Sarquis Merrewe 2007**, en la modalidad “Neoplasias Malignas”, con el trabajo titulado: *Irradiation induced apoptosis in peritoneal macrophages by oxidative stress. Implications of antioxidants in caspase mitochondrial pathway. Coautor de trabajo.*
- Obtención del **Premio Nacional de Investigación en Oncología y Hematología Pediátrica “Dr. Mario Silva Sosa” 2013**, con el trabajo titulado: *Pentoxifilina durante la ventana de esteroide en la inducción a la remisión en pacientes pediátricos con leucemia linfoblástica aguda: incremento y potenciación de la apoptosis celular blástica. . Coautor de trabajo.*