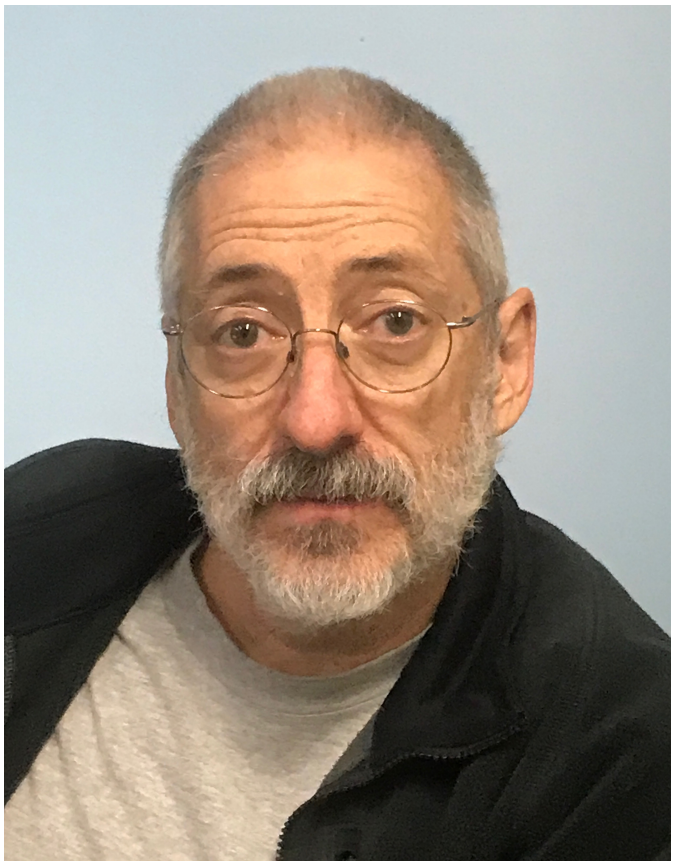
ELISEO PORTILLA DE BUEN

INVESTIGADOR TITULAR



DOCTOR EN CIENCIAS

ÁREA CIENCIAS MEDICAS

LÍNEAS DE INVESTIGACIÓN

FISIOPATOLOGÍA QUIRÚRGICA

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PRESERVACIÓN DE ÓRGANOS

MODELOS ANIMALES

EXPERTO EN INVESTIGACIÓN QUIRÚRGICA Y PERFUSIÓN

ARTÍCULOS PUBLICADOS

Anesthetic preconditioning increases sirtuin 2 gene expression in a renal ischemia reperfusion injury model. Echavarría R, Garcia D, Figueroa F, Franco A, Palomino J, Portilla De Buen E, de la Paz Goldaraz Monraz M, Moreno-Carranza B, Melo Z. Minerva Urol Nefrol. 2019 Nov 11. doi: 10.23736/S0393-2249.19.03361-7. [Epub ahead of print]

Interleukin-1 Alpha Polymorphisms Are Associated With Body Mass Index in Male But Not in Female Adolescents. Mendoza-Carrera F, Ramírez-López G, Hernández-Ramos LE, Leal-Cortés C, Portilla-de-Buen E, Castro-Martínez XH, Castro Martínez AG, López-Quintero A, Flores-Martínez SE, Sánchez-Corona J. Arch Med Res. 2019 Apr;50(3):151-157. doi: 10.1016/j.arcmed.2019.07.006. Epub 2019 Aug 12.

Ischemic Preconditioning Preserves Liver Energy Charge and Function on Hepatic Ischemia/Reperfusion Injury in Rats. Rodríguez-Reynoso S, Leal-Cortés C, Portilla-de Buen E, López-De la Torre SP. Arch Med Res. 2018 Aug;49(6):373-380. doi: 10.1016/j.arcmed.2018.11.004. Epub 2018 Dec 13.

Metabolic and genetic markers' associations with elevated levels of alanine aminotransferase in adolescents. Ramírez-López G, Morán-Villota S, Mendoza-Carrera F, Portilla-de Buen E, Valles-Sánchez V, Castro-Martínez XH, Sánchez-Corona J, Salmerón J. J Pediatr Endocrinol Metab. 2018 Mar 28;31(4):407-414. doi: 10.1515/jpem-2017-0217.

Analysis of cytokine gene polymorphisms in Mestizo and native populations from Mexico. Mendoza-Carrera F, Castro-Martínez XH, Leal C, Portilla-de Buen E, Sánchez-Corona J, Flores-Martínez SE, García-Zapién A, Ramírez-López G, Gómez-Espinel I, Báez-Duarte BG, Zamora-Ginez I, Velarde-Félix JS, Guillermo Sánchez-Zazueta J. Am J Hum Biol. 2017 Jan;29(1). doi: 10.1002/ajhb.22900. Epub 2016 Aug 2. PMID: 27482861

Fibrinogen and thrombin concentrations are critical for fibrin glue adherence in rat high-risk colon anastomoses. Portilla-de Buen E, Orozco-Mosqueda A, Leal-Cortés C, Vázquez-Camacho G, Fuentes-Orozco C, Alvarez-Villaseñor AS, Macías-Amezcua MD, González-Ojeda A. Clinics (Sao Paulo). 2014;69(4):259-64. PMID: 24714834

Tumor necrosis factor haplotype diversity in Mestizo and native populations of Mexico. Castro-Martínez XH, Leal-Cortés C, Flores-Martínez SE, García-Zapién AG, Sánchez-Corona J, Portilla-de Buen E, Gómez-Espinel I, Zamora-Ginez I, Pérez-Fuentes R, Islas-Andrade S, Revilla-Monsalve C, Guerrero-Romero F, Rodríguez-Morán M, Mendoza-Carrera F. Tissue Antigens. 2014 Apr;83(4):247-59. doi: 10.1111/tan.12300. Epub 2014 Feb 11. PMID: 24517517

Nitric oxide in the commissural nucleus tractus solitarii regulates carotid chemoreception hyperglycemic reflex and c-Fos expression. Montero S, Lemus M, Luquin S, Garcia-Estrada J, Melnikov V, Leal CA, Portilla-de Buen E, Roces de Álvarez-Buylla E. Nitric Oxide. 2014 Jan 30;36:87-93. doi: 10.1016/j.niox.2013.12.004. Epub 2013 Dec 12. PMID: 24333564

Interleukin-6 polymorphisms are associated with obesity and hyperglycemia in Mexican adolescents. Ramírez-López G, Portilla-de Buen E, Sánchez-Corona J, Salmerón-Castro J, Mendoza-Carrera F. Arch Med Res. 2013 Jan;44(1):62-8. doi: 10.1016/j.arcmed.2012.10.019. Epub 2012 Nov 7. PMID: 23142265

Alternate method for hybrid Fontan completion. Arreola-Torres R, García-y Otero A, Valencia-Castellanos A, Portilla-de Buen E, Carrillo-Llamas F. Ann Thorac Surg. 2012 Apr;93(4):e101-3. doi: 10.1016/j.athoracsur.2011.11.014. PMID: 22450105

Pig heart preservation with antegrade intracellular crystalloid versus antegrade/retrograde miniplegia. Portilla-de Buen E, Leal C, García-Martínez D, Cornejo A, Zepeda A, Aburto E. J Extra Corpor Technol. 2011 Sep;43(3):130-6. PMID: 22164451

Nitric oxide infused in the solitary tract nucleus blocks brain glucose retention induced by carotid chemoreceptor stimulation. Lemus M, Montero S, Leal CA, Portilla-de Buen E, Luquin S, Garcia-Estrada J, Melnikov V, de Alvarez-Buylla E. Nitric Oxide. 2011 Nov 30;25(4):387-95. doi: 10.1016/j.niox.2011.09.003. Epub 2011 Sep 28. PMID: 21983099

Concomitant effects of nitric oxide and carotid chemoreceptor stimulation on brain glucose in normoglycemic and hyperglycemic rats. Tejeda-Chávez HR, Montero SA, Lemus M, Leal CA, Portilla-de Buen E, Hernández AG, Roces de Álvarez-Buylla E. Arch Med Res. 2010 Oct;41(7):487-96. doi: 10.1016/j.arcmed.2010.09.008. PMID: 21167387

Reduction of the closure time of postoperative enterocutaneous fistulas with fibrin sealant. Avalos-González J, Portilla-deBuen E, Leal-Cortés CA, Orozco-Mosqueda A, Estrada-Aguilar Mdel C, Velázquez-Ramírez GA, Ambriz-González G, Fuentes-Orozco C, Guzmán-Gurrola AE, González-Ojeda A.World J Gastroenterol. 2010 Jun 14;16(22):2793-800. PMID: 20533600

Nitric oxide in the hypothalamus-pituitary axis mediates increases in brain glucose retention induced by carotid chemoreceptor stimulation with cyanide in rats. Cadenas JL, Montero SA, Leal C, Lemus M, Portilla-de Buen E, Alvarado BA, de Alvarez-Buylla ER. Nitric Oxide. 2010 May 15;22(4):296-303. doi: 10.1016/j.niox.2010.02.003. Epub 2010 Feb 13. PMID: 20156578

[Surgical repair of supravalvular aortic stenosis with use of Brom's technique: short-term results in 9 children.] Cruz-Castañeda BF, Carrillo-Llamas F, Ramos-Higuera S, López-Taylor JG, Portilla-de Buen E. Tex Heart Inst J. 2009;36(3):226-9. PMID: 19568392

[Role of fibrin glue in the prevention of cervical leakage and strictures after esophageal reconstruction of caustic injury.] Saldaña-Cortés JA, Larios-Arceo F, Prieto-Díaz-Chávez E, Portilla-de Buen E, González-Mercado S, Alvarez-Villaseñor AS, Prieto-Aldape MR, Fuentes-Orozco C, González-Ojeda A. World J Surg. 2009 May;33(5):986-93. doi: 10.1007/s00268-009-9949-x. PMID:19234736

[[Larrea tridentata. Effect on a non-metabolic model of urolithiasis in rats].] Portilla-de Buen E, Ramos L, Aguilar A, Ramos A, García-Martínez D, Cárdenas A, Rodríguez-Reynoso S, Leal C. Rev Med Inst Mex Seguro Soc. 2008 Sep-Oct;46(5):519-22. Spanish. PMID: 19241660

[Contribution of TNF-308A and CCL2-2518A to carotid intima-media thickness in obese mexican children and adolescents.] González-Enríquez GV, Rubio-Benítez MI, García-Gallegos V, Portilla-de Buen E, Troyo-Sanromán R, Leal-Cortés CA. Arch Med Res. 2008 Nov;39(8):753-9. doi: 10.1016/j.arcmed.2008.07.007. PMID: 18996288

[Influence of cytokine and intercellular adhesion molecule-1 gene polymorphisms on acute rejection in pediatric renal transplantation.] Mendoza-Carrera F, Ojeda-Durán S, Angulo E, Rivas F, Macías-López G, Portilla-de Buen E, Leal C. Pediatr Transplant. 2008 Nov;12(7):755-61. doi: 10.1111/j.1399-3046.2008.00893.x. PMID: 18627514

[Critical ischemia time in a model of spinal cord section. A study performed on dogs.] Bitar Alatorre WE, Garcia Martinez D, Rosales Corral SA, Flores Soto ME, Velarde Silva G, Portilla de Buen E. Eur Spine J. 2007 Apr;16(4):563-72. Epub 2006 Sep 23. PMID: 17024402

The immediate response to severe shock in a canine model with a combination of hypertonic-hyperoncotic solution with naloxone. García-Martínez D, Portilla-de Buen E, Leal C, Santillán P, Muñiz J. Shock. 2006 Oct; 26(4):379-85. PMID: 16980885

HLA-A and HLA-B allele frequencies in a mestizo population from Guadalajara, Mexico, determined by sequence-based typing. Leal CA, Mendoza-Carrera F, Rivas F, Rodriguez-Reynoso S, Portilla-de Buen E. Tissue Antigens. 2005 Dec;66(6):666-73. PMID: 16305683

[Bursting pressure in normal and ischemic colonic anastomoses in rats; using biological and synthetic adhesives]. Farías-Llamas OA, Orozco-Mosqueda A, Portilla-de Buen E, Leal-Cortés CA, Ruiz-Chávez IE, González-Ojeda A. Cir Cir. 2005 Jan-Feb;73(1):31-42. Spanish. PMID: 15888268

Activated clotting time and heparin administration in Sprague-Dawley rats and Syrian golden hamsters. Portilla-De-Buen E, Ramos L, Leal C, Garcia D, Rodriguez-Reynoso S, Herta M, Intaglietta M. Contemp Top Lab Anim Sci. 2004 Mar;43(2):21-4. PMID: 15053503

Melatonin ameliorates renal ischemia/reperfusion injury. Rodríguez-Reynoso S, Leal C, Portilla-de Buen E, Castillo JC, Ramos-Solano F. J Surg Res. 2004 Feb;116(2):242-7. PMID: 15013362

Combined transurethral prostatectomy and mesh-based tension-free inguinal hernia repair. González-Ojeda A, Anaya-Prado R, Fuentes-Orozco C, Portilla-de-Buen E, Muciño-Hernández MI, Medina-Meza CO. Hernia. 2003 Sep;7(3):141-5. Epub 2003 Apr 24. PMID: 12712366

Mesocricetus auratus endothelial nitric oxide synthase (NOS3) mRNA, partial cds 534 bp mRNA. Accession: AY515258.1 GI: 45271114. AUTHORS: Leal,C., Ramirez,A., Portilla,E., Rodriguez-Reynoso,S. and Garcia,D. TITLE: Cloning of hamster endothelial nitric oxide gene.

Exogenous nitric oxide protects kidney from ischemia/reperfusion. Sánchez-Pérez-Verdía E, López-Neblina F, Portilla E, Ortíz GG, González-Ojeda A, Alvares R. J Invest Surg. 2001 Nov-Dec; 14(6):313-20. PMID: 11905499

Effect of exogenous melatonin on hepatic energetic status during ischemia/reperfusion: possible role of tumor necrosis factor-alpha and nitric oxide. Rodríguez-Reynoso S, Leal C, Portilla E, Olivares N, Muñiz J. J Surg Res. 2001 Oct;100(2):141-9. PMID: 11592783

Blood flow rate and energy charge in the isolated perfused canine liver. Rodríguez-Reynoso S, Portilla E, García D, Larios F, Romero M, Muñíz J, Vázquez G, Leal C. J Surg Res. 2001 Jul;99(1): 40-6. PMID: 11421602

Evaluation of the micronucleus test in peripheral blood erythrocytes by use of the splenectomized model. Ramírez-Muñoz MP, Zúñiga G, Torres-Bugarín O, Portilla E, García-Martínez D, Ramos A, Cantú JM, Sánchez-Corona J.Lab Anim Sci. 1999 Aug;49(4):418-20. PMID: 10480648

A model of suture-induced urolithiasis with urographic control in the bladder of the rat. Portilla E, Ramos A, Ramos L, de Buen N, García D, Rodríguez-Reynoso S, Larios F, Terán C. J Invest Surg. 1999 Jul-Aug;12(4):205-11. PMID: 10501079

Arterial blood gas changes in New Zealand white rabbits during carbon dioxide-induced pneumoperitoneum. Portilla E, García D, Rodríguez-Reynoso S, Castañón J, Ramos L, Larios F. Lab Anim Sci. 1998 Aug;48(4):398-400. No abstract available. PMID: 10090052

Spontaneous micronuclei in peripheral blood erythrocytes from 35 mammalian species. Zúñiga G, Torres-Bugarín O, Ramírez-Muñoz MP, Ramos A, Fanti-Rodríguez E, Portilla E, García-Martínez D, Cantú JM, Gallegos-Arreola MP, Sánchez-Corona J. Mutat Res. 1996 Jul 10;369(1-2):123-7. PMID: 8700177

A new technique for laparoscopic repair of hypertrophic pyloric stenosis. Castañón J, Portilla E, Rodríguez E, González V, Silva H, Ramos A. J Pediatr Surg. 1995 Sep;30(9):1294-6. PMID: 8523228

Control of myocardial reperfusion injury with hypertonic-hyperosmotic solution in isolated rabbit heart. Careaga G, Argüero R, Chavez-Negrete A, Valero G, Portilla E, Garcia RM, Mendoza L, Angulo L, Miranda Y. Eur Surg Res. 1995;27(4):269-76. PMID: 7649214

Extraction of the autoperfused heart-lung block, experimental model. Portilla E, Arguero R. Arch Invest Med (Mex). 1991 Jul-Dec;22(3-4):255-8. PMID: 1844109

[Arterial blood gas changes in Beagles during carbon dioxide pneumoperitoneum]. Portilla E, Castañón MJ, Ramos MA, Cárdenas OA, García D, Rodríguez S, Olivares GN. Vet Mex. 1998 29(1):53-56.

[A techique for optimization of intrathoracic organ procurement. Benefit for three receptors from a single donor.] Argüero R, Careaga G, Portilla E. Ciruj Gral 1995 17(1):34-35.

[Persistent left craneal vena cava in a dog]. Portilla E, Argüero R. Vet Mex 1992 23(3):251-253.

[Tongue necrosis by strangulation. Report of one case.].Portilla E. Vet Mex 1992 23(3):249-250.

[Klosiella muris: report of a case in Mexico]. Buen N, Portilla E. Vet Mex 1991 22(4): 447-449.

The intraaortic counterpulsation balloon in cardiac surgery. The importance of opportune indication. Sánchez-Ramírez O, Portilla-de Buen E, Verdin-Vázquez R, Argüero-Sánchez R. Arch Invest Med (Mex). 1991 Apr-Jun; 22(2):197-202. PMID: 1819994

[The heart donor. Management with hypertonic/hyperoncotic solutions]. Argüero R, Sánchez O, Portilla E, Castaño R, Chávez A. Rev Med IMSS. 1989 27(3):215-219.

[First heart transplantation in Mexico]. Argüero R, Castaño R, Portilla E, Sánchez O, Molinar F. Rev Med IMSS. 1989 27(2):107-112.

[Cardiac myxoma. Surgical aspects. Analysis of six cases]. Soberanis TC, Argüero SR, Verdín VR, Chávez, NA, Sánchez RO, Portilla E. Rev Med IMSS. 1988 26(2):95-100.

CAPÍTULOS EN LIBROS

Sánchez O, Portilla E. ***La derivación cardiopulmonar durante el trasplante de corazón y corazón-pulmón.*** En: Argüero R, Castaño R y Careaga G, Eds.: *Trasplante de Corazón, Pulmón y Corazón-Pulmón.* Ciencia y Cultura Latinoamericana, SA de CV/JGH Editores. México, 1995. ISBN 968-7535-03-2.

Portilla E. ***Hemodilución experimental.*** En: Argüero R, Ed. *Hemodilución en Medicina y Cirugía.* JGH Editores, El Manual Moderno 2000. ISBN 968-7812-48-6.

Portilla-de Buen E, Arreola R. ***Disfunción cognoscitiva postoperatoria. Papel de la anestesia, la cirugía y la circulación extracorpórea.*** En: González-Burgos I, Ed.: *Psicobiología de la memoria. Un enfoque interdisciplinario.* Bios-Médica. Guadalajara, 2015, pp. 397-432. ISBN 968-9115-05-7.

Díaz-García HR, Contreras-de la Torre NA, Alemán-Villalobos A, Carrillo-Galindo MJ, Gómez-Jiménez OB, Esparza-Beléndez E, Ramírez-Rosales GE, Portilla-de Buen E, Arreola-Torres R. ***Infective endocarditis in end-stage renal disease patients in developing countries: what is the real problem?*** En: Michael S. Firstenberg, Ed.: Contemporary challenges in endocarditis. Intech. 2016, pp. 121-142. ISBN 978-953-51-2769-7

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