

CURRICULUM VITAE

1. Personal data

Name: Gilberto Castañeda-Hernández

Place and date of birth: Mexico City, November 10, 1955.

Nationality: Mexican.

Marital status: Married, one child.

Present position: Professor, Department of Pharmacology, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Mexico, City.

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Bosques de Reforma 309, Bosques de las Lomas, 11700 Ciudad de México, Mexico.

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2. Studies

BSc in Biology, Major in Experimental Biology. Universidad Autónoma Metropolitana, Mexico City. 1979.

Ph.D. in Pharmaceutical Applications, Major in Pharmacology. Faculté de Médecine, Université Catholique de Louvain, Belgium. 1983.

3. Honors and Awards

La Plus Grande Distinction (The Greatest Distinction) delivered by the Université Catholique de Louvain to acknowledge outstanding academic achievements during doctoral studies.

Member of the National System of Investigators of Mexico as National Investigator Level III.

Councilor of the Clinical Pharmacology Division of the International Union of Basic and Clinical Pharmacology (IUPHAR) 2002-2014.

Carlos Slim National Award on Transplantation. Mexican Foundation for Health. 2013.

4. Languages

Spanish. Native language.

English: Excellent knowledge, oral and written.

French: Excellent knowledge, oral and written.

Portuguese: Very good knowledge oral and written.

5. Positions

Professor, Department of Pharmacology, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Mexico, City, since September 2000.

Professor, Department of Pharmacology and Toxicology, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Mexico, City. 1987-2000.

Visiting Professor, Department of Pharmacology, Faculty of Medicine, Universidad Nacional Autónoma de México, Mexico City. 1996. On sabbatical leave.

Visiting Scientist. Department of Pharmacology, Faculty of Medicine, Université de Montréal, Montreal, Canada. 1992-1993. On sabbatical leave.

Visiting Investigator. Centro Latinoamericano de Pesquisa em Biologicos, Rio de Janeiro, Brazil. 2015-2016. On sabbatical leave.

6. Membership to Scientific Societies

1. Asociación Mexicana de Farmacología (Mexican Association of Pharmacology). Member since 1984. President 1999-2001.
2. Western Pharmacology Society. Member since 1991. President 1998-1998.
3. Academia Mexicana de Ciencias (Mexican Academy of Sciences of Mexico). Member since 1994.
4. Asociación Mexicana de Farmacovigilancia (Mexican Association of Pharmacovigilance). Member since 2008

7. Publications

7.1. Editorial boards

1. Member of the Editorial Board. Journal of Pharmacological and Toxicological Methods 1998-2001.
2. Member of the Editorial Board. Annals of Hepatology from September 2010- 2016.

7.2. Autor

7.2.1. Articles in Scientific Journals

1. A. De Pover, G. Castañeda-Hernández, T. Godfraind. Water versus acetone-HCl extraction of a digitalis-like factor from guinea pig heart. *Biochemical Pharmacology* 31: 265-271, 1982.
2. T. Godfraind, A. De Pover, G. Castañeda-Hernández, M. Fagoo. Cardiodigin: endogenous digitalis-like factor from mammalian heart. *Archives Internationales de Pharmacodynamie et de Thérapie* 258: 165-167, 1982.
3. G. Castañeda-Hernández, T. Godfraind. Effect of high sodium intake on tissue distribution of endogenous digitalis-like material in the rat. *Clinical Science* 66: 225-228, 1984.
4. G. Castañeda-Hernández. Presence of endogenous digitalis-like activity in mammalian heart not due to fatty acids. *Biochemical Pharmacology* 36: 1737-1738, 1987.
5. G. Castañeda-Hernández. Caracterización de un factor endógeno con actividad digitalica en el corazón de cobayo I: inhibición de la Na,K-ATPasa. *Archivos del Instituto de Cardiología de México* 57: 97-101, 1987.
6. G. Castañeda-Hernández. Caracterización de un factor endógeno con actividad digitalica en el corazón de cobayo II: unión al receptor. *Archivos del Instituto de Cardiología de México* 57: 187-191, 1987.
7. H. De León, G. Castañeda-Hernández, E. Hong. Decreased ANF atrial content and vascular reactivity to ANF in spontaneous and renal hypertensive rats. *Life Sciences* 41: 341-348, 1987.
8. H. De León, G. Castañeda-Hernández, E. Hong. El factor auricular natriurético. *Archivos del Instituto de Cardiología de México* 58: 351-371, 1988.
9. F.J. Flores-Murrieta, E. Hong, G. Castañeda-Hernández. Sensitive high performance liquid chromatographic assay of pelanserin, a novel antihypertensive agent, in plasma samples. *Journal of Chromatography* 428: 167-172, 1988.
10. C. Hoyo-Vadillo, G. Castañeda-Hernández, J.E. Herrera, J. Vidal-Gárate, L.A. Salazar, A. Moreno-Ramos, F. Chávez, I. Tena, E. Hong. Pharmacokinetics of oral nifedipine: relevance of the distribution phase. *Journal of Clinical Pharmacology* 29: 251-256, 1989.
11. C. Hoyo-Vadillo, G. Castañeda-Hernández, J.E. Herrera, J. Vidal-Gárate, A. Moreno-Ramos, F. Chávez, E. Hong. Pharmacokinetics of nifedipine slow release tablet in Mexican subjects: further evidence for an oxidation polymorphism. *Journal of Clinical Pharmacology* 29: 816-820, 1989.
12. F.J. Flores-Murrieta, C. Hoyo-Vadillo, E. Hong, G. Castañeda-Hernández. Assay of

- ambroxol in human plasma by high-performance liquid chromatography with amperometric detection. *Journal of Chromatography* 490: 464-469, 1989.
13. G. Castañeda-Hernández. Evidence for the existence of the same endogenous digitalis-like factor in several mammalian species. *Comparative Biochemistry and Physiology Part C* 94: 49-53, 1989.
 14. F.J. Flores-Murrieta, G. Castañeda-Hernández, E. Hong. Determination of pelanserin in human plasma by high performance liquid chromatography with amperometric detection. *Journal of Chromatography* 528: 501-508, 1990.
 15. H. De León, G. Castañeda-Hernández, E. Hong. Different time course of atrial natriuretic factor-induced relaxation in rabbit aorta and portal vein. *European Journal of Pharmacology* 182: 171-174, 1990.
 16. F.J. Flores-Murrieta, G. Castañeda-Hernández, J.C. Menéndez, F. Chávez, J.E. Herrera, E. Hong. Pharmacokinetics of sulfamethoxazole and trimethoprim in Mexicans: bioequivalence of two oral formulations (URO TS D and Bactrim F). *Biopharmaceutics and Drug Disposition* 11: 765-772, 1990.
 17. F.J. Flores Murrieta, G. Castañeda-Hernández, E. Hong. Farmacocinética y efecto antihipertensivo de la pelanserina en perros. *Archivos del Instituto de Cardiología de México* 60: 347-351, 1990.
 18. G. Castañeda-Hernández. Evidencias sobre la presencia de un factor endógeno con actividad digitalica en mamíferos: ¿Un regulador fisiológico de la bomba de sodio? *Archivos del Instituto de Cardiología de México* 61: 491-500, 1991.
 19. F.J. Flores-Murrieta, J.C. Menéndez, G. Castañeda-Hernández, E. Hong. Determinación de trimetoprim y sulfametoxazol en orina por cromatografía de líquidos de alta resolución. *Revista Mexicana de Ciencias Farmacéuticas* 22(4): 11-15, 1991.
 20. A. Fernández-Guasti, C. López-Rubalcaba, J. Pérez-Urizar, G. Castañeda-Hernández. Evidence for a postsynaptic action of the serotonergic anxiolytics: ipsapirone, indorenate and buspirone. *Brain Research Bulletin* 28: 497-501, 1992.
 21. F.J. Flores-Murrieta, G. Castañeda-Hernández, E. Hong. Pharmacokinetics and antihypertensive effects of oral pelanserin in renal hypertensive dogs. *Arzneimittel Forschung* 42: 1105-1108, 1992.
 22. V. Granados-Soto, F.J. Flores-Murrieta, F.J. López-Muñoz, L.A. Salazar, J.E. Villarreal, G. Castañeda-Hernández. Relationship between paracetamol plasma levels and its analgesic effect in the rat. *Journal of Pharmacy and Pharmacology* 44: 741-744, 1992.
 23. G. Castañeda-Hernández, F.J. Flores-Murrieta. Antagonism by potassium of the

- inhibition of (Na⁺+K⁺)-ATPase produced by an endogenous digitalis-like compound extracted from mammalian heart. *Archives of Medical Research* 23: 13-17, 1992.
24. G. Castañeda-Hernández, C. Hoyo-Vadillo, J.A. Palma-Aguirre, F.J. Flores-Murrieta. Pharmacokinetics of nifedipine in different populations. *Journal of Clinical Pharmacology* 33: 140-145, 1993.
 25. F.J. López-Muñoz, L.A. Salazar, G. Castañeda-Hernández, J.E. Villarreal. A new model to assess analgesic activity: Pain-induced functional impairment in the rat (PIFIR). *Drug Development Research* 28: 169-175, 1993.
 26. G. Castañeda-Hernández, Y. Vargas-Alvarado, F. Aguirre, F.J. Flores-Murrieta. Pharmacokinetics of cinnarizine after single and multiple dosing in healthy volunteers. *Arzneimittel Forschung* 43: 539-542, 1993.
 27. V. Granados-Soto, F.J. López-Muñoz, G. Castañeda-Hernández, L.A. Salazar, J.E. Villarreal, F.J. Flores-Murrieta. Characterization of the analgesic effects of paracetamol and caffeine combinations in the pain-induced functional impairment model in the rat. *Journal of Pharmacy and Pharmacology* 45: 627-631, 1993.
 28. L. Favari, G. Castañeda-Hernández, C. Hoyo-Vadillo. Naproxen pharmacokinetics and pharmacodynamics in acute experimental hepatitis. *Arzneimittel Forschung* 43: 675-679, 1993.
 29. F.J. López-Muñoz, G. Castañeda-Hernández, C.M. Villalón, J.A. Terrón, L.A. Salazar. Analgesic effects of combinations containing opioid drugs with either aspirin or acetaminophen in the rat. *Drug Development Research* 29: 299-304, 1993.
 30. G. Castañeda-Hernández, G. Caillé, P. Du Souich. Influence of drug formulation on drug concentration-effect relationship. *Clinical Pharmacokinetics* 26: 135-143, 1994.
 31. F.J. Flores-Murrieta, V. Granados-Soto, G. Castañeda-Hernández, J.E. Herrera, E. Hong. Comparative bioavailability of two oral formulations of ketorolac tromethamine: Dolac® and Exodol®. *Biopharmaceutics and Drug Disposition* 15: 129-136, 1994.
 32. G. Castañeda-Hernández, M.S. Castillo-Méndez, F.J. López-Muñoz, V. Granados-Soto, F.J. Flores-Murrieta. Potentiation by caffeine of the analgesic effect of aspirin in the pain-induced functional impairment model in the rat. *Canadian Journal of Physiology and Pharmacology* 72: 1127-1131, 1994.
 33. F.J. Flores-Murrieta, G. Castañeda-Hernández, J.E. Herrera, E. Hong. Determination of oral rifampin pharmacokinetics in Mexicans and comparison with other populations: absence of evidence for interethnic variability. *Archives of Medical Research* 25: 381-385, 1994.

34. G. Castañeda-Hernández, C. Hoyo-Vadillo, J.E. Herrera. Differences in nifedipine concentration-effect relationship between capsule and slow release tablet administration. *International Journal of Clinical Pharmacology and Therapeutics* 33: 56-60, 1995.
35. J.A. Palma-Aguirre, M.A. Montoya-Cabrera, P. du Souich, C. Hoyo-Vadillo, F.J. Flores-Murrieta, G. Castañeda-Hernández. Discrepancy between bioavailability and hypotensive effect of oral and sublingual nifedipine. *American Journal of Therapeutics* 2: 3-9, 1995.
36. G. Castañeda-Hernández, A. Falcón-Neri, A. Herrera-Abarca, J.E. Herrera, F.J. Flores-Murrieta. Determination of three acetylator phenotypes in a Mexican population using sulfamethazine metabolic ratio. *American Journal of Therapeutics* 2: 57-60, 1995.
37. G. Castañeda-Hernández, L. Favari, C. Hoyo-Vadillo. Relationship between naproxen plasma concentration and its antiinflammatory effect in experimental hepatitis. *Arzneimittel Forschung* 45: 585-589, 1995.
38. P. García-López, J. Pérez-Urizar, A. Ibarra, G. Guízar-Sahagún, F.J. Flores-Murrieta, I. Grijalba, G. Castañeda-Hernández. An experimental model for the study of pharmacokinetic changes induced by spinal cord injury. *Pharmaceutical Sciences* 1: 133-135, 1995.
39. V. Granados-Soto, F.J. Flores-Murrieta, G. Castañeda-Hernández, F.J. López-Muñoz. Evidence for the involvement of nitric oxide in the antinociceptive effect of ketorolac. *European Journal of Pharmacology* 277: 281-284, 1995.
40. D.M. Flores-Acevedo, G. Castañeda-Hernández, F.J. Flores-Murrieta and F.J. López-Muñoz. Potentiation of the analgesic effect of tolmetin, a potent nonsteroidal antiinflammatory drug, by caffeine in the rat. *Pharmaceutical Sciences* 1: 441-444, 1995.
41. V. Granados-Soto, F.J. Flores-Murrieta, G. Castañeda-Hernández, E. Hong, F.J. López-Muñoz. Evidence against the participation of mu- and kappa opioid receptors in the analgesic activity of ketorolac in rats. *Journal of Pharmacy and Pharmacology* 47: 514-517, 1995.
42. J.A. Palma-Aguirre, J. Pérez-Urizar, J. Nava-Rangel, F.J. Flores-Murrieta, G. Castañeda-Hernández. Evidence against the involvement of nutritional habits in the interethnic variability with regard to nifedipine bioavailability. *Pharmaceutical Sciences* 1: 495-497, 1995.
43. J. Vergés, G. Castañeda-Hernández, J.M. Moragas. A procedure for the evaluation of the bioavailability of topical formulations in vivo as the rate and extent to which the active drug product is transferred from the vehicle to the skin. *Drug*

Development Research 36: 180-185, 1995.

44. G. Guízar-Sahagún, P. García-López, A.L. Espitia, S. Méndez, G. Castañeda-Hernández, I. Madrazo, R.E. Franco-Bourland. Histochemical evidence of the increased expression of nicotinamide adenine dinucleotide phosphate-dependent diaphorase in neurons of the myenteric plexus after acute spinal cord injury in adult rats. *Neuroscience Letters* 206: 185-188, 1996.
45. J. Pérez-Urizar, Y.F. Picazo, B. Navarro-González, F.J. Flores-Murrieta and G. Castañeda-Hernández. A new rapid and economical high-performance liquid chromatographic assay with electrochemical detection for the determination of etoposide (VP-16) in human plasma samples. *Journal of Liquid Chromatography and Related Technologies* 19: 939-947, 1996.
46. G. Castañeda-Hernández, J.A. Palma-Aguirre, M.A. Montoya-Cabrera, F.J. Flores-Murrieta. Interethnic variability in nifedipine disposition: reduced systemic clearance in Mexican subjects. *British Journal of Clinical Pharmacology* 41: 433-434, 1996.
47. F.J. López-Muñoz, G. Castañeda-Hernández, J.E. Torres-López, Y.F. Picazo, F.J. Flores-Murrieta, V. Granados-Soto. Differences in the mechanism of antinociceptive action of non-steroidal anti-inflammatory drugs. *Pharmaceutical Sciences* 2: 189-190, 1996.
48. F.J. López-Muñoz, G. Castañeda-Hernández, F.J. Flores-Murrieta, V. Granados-Soto. Effect of caffeine coadministration and of nitric oxide synthesis inhibition on the antinociceptive action of ketorolac. *European Journal of Pharmacology* 308: 275-277, 1996.
49. A. Ibarra, R. Kretschmer, D. Correa, H. Salgado-Ceballos, G. Guizar-Sahagún, I. Grijalva, F.J. Flores-Murrieta, G. Castañeda-Hernández, A. Odor, R.M. López, R. Franco-Bourland, A.L. Espitia and I. Madrazo. Alteration of cyclosporin-A pharmacokinetics after spinal cord injury. *Journal of Neurotrauma* 13: 267-272, 1996.
50. G. Castañeda-Hernández, F.J. Flores-Murrieta, V. Granados-Soto, A. Herrera-Abarca, J. Pérez-Urizar, J.E. Herrera, E. Hong. Pharmacokinetics of oral ranitidine in Mexicans. *Archives of Medical Research*. 27: 349-352, 1996.
51. A. Ibarra, J. Reyes, S. Martínez, D. Correa, G. Guizar-Sahagún, I. Grijalva, G. Castañeda-Hernández, F.J. Flores-Murrieta, R. Franco-Bourland, I. Madrazo. Use of cyclosporine-A in experimental spinal cord injury: design of a dosing strategy to maintain therapeutic levels. *Journal of Neurotrauma* 13: 567-570, 1996.
52. P. García-López, J. Pérez-Urizar, A. Ibarra, I. Grijalva, I. Madrazo, F.J. Flores-Murrieta, G. Castañeda-Hernández, G. Guízar-Sahagún. Comparison between Sprague-Dawley and Wistar rats as an experimental model of pharmacokinetic

- alterations induced by spinal cord injury. *Archives of Medical Research* 27: 453-457, 1996.
53. P. García-López, J. Pérez-Urizar, I. Madrazo, G. Guízar-Sahagún, G. Castañeda-Hernández. Oral paracetamol bioavailability in rats submitted to experimental spinal cord injury. *Biopharmaceutics and Drug Disposition* 18: 203-211, 1997.
 54. I. Isordia, M. Carrasco, A. Chávez-Negrete, J.A. Palma-Aguirre, F.J. Flores-Murrieta, G. Castañeda-Hernández. Pharmacokinetic and pharmacodynamic differences between nifedipine capsule and GITS formulations in hypertensive patients. *International Journal of Clinical Pharmacology and Therapeutics* 35: 133, 1997.
 55. G. Lugo, G. Castañeda-Hernández. Relationship between hemodynamic and vital support measures and pharmacokinetic variability of amikacin in critically ill patients with sepsis. *Critical Care Medicine* 25: 806-811, 1997.
 56. G. Lugo, G. Castañeda-Hernández. Amikacin Bayesian forecasting in critically ill cirrhotic patients with sepsis and cirrhosis. *Therapeutic Drug Monitoring* 19: 271-276, 1997.
 57. J.E. Torres-López, F.J. López-Muñoz, G. Castañeda-Hernández, F.J. Flores-Murrieta V. Granados-Soto. Pharmacokinetic-pharmacodynamic modeling of the antinociceptive effect of diclofenac in the rat. *Journal of Pharmacology and Experimental Therapeutics* 282: 685-690, 1997.
 58. A. Martín del Campo, V. Granados-Soto, P. Aguirre-Bañuelos, M. Cárdenas, G. Castañeda-Hernández. The use of the plasma concentration-effect relationship as a tool for the study of the mechanism of action of naloxone effects on mood and endocrine function. *Journal of Psychopharmacology* 11: 361-365, 1997.
 59. M. Medeiros, A.C. Gómez, J.P. Urizar, A.E. Campos-Sepúlveda, I.M. Saldaña, L.E. Ramírez, N.B. Romero, J.L.F. Velazquez, G. Castañeda-Hernández, R. Muñoz. Bioavailability of two oral formulations of cyclosporin A in uremic children before renal transplantation. *Pediatric Transplantation* 2: 145-149, 1998.
 60. G. Castañeda-Hernández, T. Estrada, J. Pérez-Urizar. Caffeine bioavailability after administration with and without non-steroidal anti-inflammatory drugs in the rat. *Pharmacy and Pharmacology Communications* 4: 451-453, 1998.
 61. F.J. Flores-Murrieta, H.C. Ko, D.M. Flores-Acevedo, F.J. López-Muñoz, W.J. Jusko, M.E. Seale, G. Castañeda-Hernández. Pharmacokinetic-pharmacodynamic modeling of tolmetin antinociceptive effect in the rat using an indirect response model. A population approach. *Journal of Pharmacokinetics and Biopharmaceutics* 26: 547-557, 1998.
 62. L. Chávez-Teyes, G. Castañeda-Hernández, F.J. Flores-Murrieta. Pharmacokinetics

- of midazolam in Mexicans, evidence for interethnic variability. *Clinical Drug Investigation* 17: 233-239, 1999.
63. J.L. Aguilar Ponce, Y. Flores-Picazo, J. Pérez-Urizar, G. Castañeda-Hernández, J.W. Zinzer-Sierra, A. Dueñas-González, E. Calderón-Flores, B.A. Segura-Pacheco, J. De la Garza-Salazar. Bioavailability of etoposide after oral administration of the solution marketed for intravenous use: therapeutic and pharmacoeconomic implications. *Archives of Medical Research* 30: 212-215, 1999.
 64. P. Aguirre-Bañuelos, G. Castañeda-Hernández, F.J. López-Muñoz, V. Granados-Soto. Effect of caffeine and either adenosine agonists or cyclic nucleotides on ketorolac analgesia. *European Journal of Pharmacology* 377: 175-182, 1999.
 65. L. Cruz, G. Castañeda-Hernández, A. Navarrete. Ingestion of chilli pepper (*Capsicum annuum*) reduces salicylate bioavailability after oral aspirin administration in the rat. *Canadian Journal of Physiology and Pharmacology* 77: 441-446, 1999.
 66. M. Medeiros, J. Pérez-Urizar, R. Muñoz, G. Castañeda-Hernández. Limited sampling model for area-under-the-curve monitoring in pediatric patients receiving either Sandimmune® or Neoral® cyclosporin A oral formulations. *Pediatric Transplantation* 3: 1-7, 1999.
 67. J. González-Llaven, J.A. Palma-Aguirre, R. García-Arreola, V. Brizuela, J. Nava-Rangel, S. Morán-Lira, J. Vela-Ojeda, G. Castañeda-Hernández, F.J. Flores-Murrieta. Comparative bioavailability evaluation of two cyclosporine oral formulations in healthy Mexican volunteers. *Archives of Medical Research* 30: 315-319, 1999.
 68. V. Granados-Soto, G. Castañeda-Hernández. A review of the pharmacokinetic and pharmacodynamic factors in the potentiation of the antinociceptive effect of nonsteroidal anti-inflammatory drugs by caffeine. *Journal of Pharmacological and Toxicological Methods* 42: 67-72, 1999.
 69. G. Castañeda-Hernández, J. Vergés, V. Pichette, L. Héroux, G. Caillé, P. Du Souich. Input rate as a major determinant of furosemide pharmacodynamics: influence of fluid replacement and hypoalbuminemia. *Drug Metabolism and Disposition* 28: 323-328, 2000.
 70. J. Pérez-Urizar, P. Aguirre-Bañuelos, G. Castañeda-Hernández, F.J. Flores-Murrieta. An improved assay by HPLC with amperometric detection for the determination of phentolamine in plasma. *Journal of Liquid Chromatography and Related Technologies* 23: 557-564, 2000.
 71. G. Castañeda-Hernández, V. Granados-Soto. Considerations on pharmacodynamics and pharmacokinetics: can everything be explained by the extent of drug binding to its receptor. *Canadian Journal of Physiology and Pharmacology* 78: 199-207, 2000.

72. F.J. Flores-Murrieta, G. Castañeda-Hernández, V. Granados-Soto, J.E. Herrera. Increased bioavailability of sildenafil in Mexican men. *Journal of the American Medical Association (JAMA)* 283: 1825-1826, 2000.
73. J. Pérez-Urizar, V. Granados-Soto, G. Castañeda-Hernández, E. Hong, C. González, J.L. Martínez, F.J. Flores-Murrieta. Analgesic efficacy and bioavailability of ketorolac in postoperative pain: a probability analysis. *Archives of Medical Research*. 31: 191-196, 2000.
74. J. Pérez-Urizar, V. Granados-Soto, F.J. Flores-Murrieta, G. Castañeda-Hernández. Pharmacokinetic-pharmacodynamic modeling. Why? *Archives of Medical Research* 31: 539-545, 2000.
75. M. Josa, J. Pérez-Urizar, J. Rapado, C. Dios-Viéitez, G. Castañeda-Hernández, F. Flores-Murrieta, M. J. Renedo, I. F. Trocóniz. Pharmacokinetic/pharmacodynamic modelling of antipyretic and anti-inflammatory effects of naproxen in the rat. *Journal of Pharmacology and Experimental Therapeutics* 297: 198-205, 2001.
76. G. Bravo, R. Rojas-Martínez, F. Larios, E. Hong, G. Castañeda-Hernández, G. Rojas, G. Guízar-Sahagún. Mechanisms involved in the cardiovascular alterations immediately after spinal cord injury. *Life Sciences* 68: 1527-1534, 2001.
77. J.E. Torres-López, M.I. Ortiz, G. Castañeda-Hernández, R. Alonso-López, R. Asomoza-Espinoza, V. Granados-Soto: Comparison of the antinociceptive effect of celecoxib, diclofenac and resveratrol in the formalin test. *Life Sciences* 70: 1669-1676, 2002.
78. M.I. Ortiz, J.E. Torres-López, G. Castañeda-Hernández, R. Rosas, G. Vidal-Cantú, V. Granados-Soto. Pharmacological evidence for the activation of K⁺ channels by diclofenac. *European Journal of Pharmacology* 438: 85-91, 2002.
79. J. Pérez-Urizar, F.J. Flores-Murrieta, G. Castañeda-Hernández: Effect of experimental hypoalbuminemia on the plasma protein binding of tolmetin. *Life Sciences* 71: 1015-1022, 2002.
80. R. Medina-Santillán, E. Mateos-García, G. Reyes-García, G. Castañeda-Hernández, J. Sotelo: Análisis fármaco-económico del esquema corto de praziquantel en el tratamiento de la neurocisticercosis. *Gaceta Médica de México* 138: 203-207, 2002.
81. G. Castañeda-Hernández, J.A. Palma-Aguirre: Conceptos y precisiones sobre la biodisponibilidad oral de ciclosporina. *Gaceta Médica de México* 138: 495-497, 2002.
82. M.I. Ortiz, G. Castañeda-Hernández, V. Granados-Soto: Possible involvement of potassium channels in peripheral antinociception induced by metamizol: lack of participation of ATP-sensitive K⁺ channels. *Pharmacology, Biochemistry and*

Behavior 74: 465-470, 2003.

83. I. Grijalva, G. Guizar-Sahagún, G. Castañeda-Hernández, D. Mino, H. Maldonado-Julián, G. Vidal-Cantú, A. Ibarra, O. Serra, H. Salgado-Ceballos, R. Arenas-Hernández: Efficacy and safety of 4-aminopyridine in patients with long-term spinal cord injury: a randomised, double-blind, placebo-controlled trial. *Pharmacotherapy* 23: 823-834, 2003.
84. M.I. Ortiz, V. Granados-Soto, G. Castañeda-Hernández: The NO-cGMP-K⁺ channel pathway participates in the antinociceptive effect of diclofenac, but not of indomethacin. *Pharmacology Biochemistry and Behavior* 76: 187-195, 2003.
85. G. Castañeda-Hernández, P. Bach y Rita: Volume transmission and pain perception. *The Scientific World Journal* 3: 677-683, 2003.
86. J.M. Jiménez-Andrade, M.I. Ortiz, J. Pérez-Urizar, P. Aguirre-Bañuelos, V. Granados-Soto, G. Castañeda-Hernández: Synergistic effects between codeine and diclofenac after local, spinal and systemic administration. *Pharmacology Biochemistry and Behavior* 76: 463-471, 2003.
87. L. Rivera-Espinosa, P. Muriel, M. Ordaz Gallo, J. Pérez-Urizar J, J.A. Palma-Aguirre, G. Castañeda-Hernández: Ketorolac pharmacokinetics in experimental cirrhosis by bile duct ligation in the rat. *Annals of Hepatology* 2: 175-181, 2003
88. J.M. Jiménez-Andrade, S. Zhou, J. Du, A. Yamani, J.J. Grady, G. Castañeda-Hernández, S.M. Carlton: Pro-nociceptive role of peripheral galanin in inflammatory pain. *Pain* 110: 10-21, 2004.
89. G. Guizar-Sahagún, I. Velasco-Hernández, A. Martínez-Cruz, G. Castañeda-Hernández, G. Bravo, G. Rojas, E. Hong: Systemic microcirculation after complete high and low thoracic spinal cord section in rats. *Journal of Neurotrauma*. 21: 1614-1623, 2004.
90. V. Ramírez-Alcántara, G. Castañeda-Hernández, B. A. Rampy, J. F. Aronson, M. Treinen-Moslen: Attenuated gastropathy but not enteropathy of diclofenac–cholestyramine complex in rats. *Drug Development Research* 64: 19–27, 2005.
91. J. Lozano-Cuenca, G. Castañeda-Hernández, V. Granados-Soto: Peripheral and spinal mechanisms of antinociceptive action of lumiracoxib. *European Journal of Pharmacology* 513: 81-91, 2005.
92. M.I. Ortiz, G. Castañeda-Hernández, V. Granados-Soto: Pharmacological evidence for the activation of Ca²⁺-activated K⁺ channels by meloxicam in the formalin test. *Pharmacology, Biochemistry and Behavior* 81: 725-731, 2005.
93. J.M. Jiménez-Andrade, S. Zhou, A. Yamani, S. Valencia de Ita, G. Castañeda-Hernández, S. Carlton: Mechanism by which peripheral galanin increases acute

- inflammatory pain. *Brain Research* 1056: 113-117, 2005.
94. A. Navarrete, I. Oliva, M.E. Sánchez-Mendoza, J. Arrieta, L. Cruz-Antonio, G. Castañeda-Hernández: Gastroprotection and effect of the simultaneous administration of cuachalalate (*Amphipterygium adstringens*) on the pharmacokinetics and anti-inflammatory activity of diclofenac in rats. *Journal of Pharmacy and Pharmacology* 57: 1629-1636, 2005.
 95. M.I. Ortiz, J. Castro-Olguín, N. Peña-Samaniego, G. Castañeda-Hernández: Probable activation of the opioid receptor-nitric oxide-cyclic GMP-K⁺ channels pathway by codeine. *Pharmacology, Biochemistry and Behavior* 82: 695-703, 2005.
 96. P. García-López, M. Coll, E. Cervera, L. Reyes-Vermot, M.A. Torres, G. Abrego-Pérez, A.I. Hernández-Pájaro, G. Castañeda-Hernández, A. Mohar-Betancourt, A. Meneses: The systemic absorption of etoposide after intravaginal administration in patients with cervical intraepithelial lesions associated with human papillomavirus infection. *Pharmaceutical Research* 23: 378-382, 2006.
 97. L. Cruz-Antonio, F.J. Flores-Murrieta, P. García-López, G. Guizar-Sahagún, G. Castañeda-Hernández: Understanding drug disposition alterations induced by acute spinal cord injury: role of injury level and route of administration for agents submitted to extensive liver metabolism. *Journal of Neurotrauma* 23: 75-85, 2006.
 98. S. Valencia de Ita, N.B. Lawand, Q. Lin, G. Castañeda-Hernández, W.D. Willis. Role of the Na⁺-K⁺-2Cl⁻ cotransporter in the development of capsaicin-induced neurogenic inflammation: *Journal of Neurophysiology* 95: 3553-3561, 2006.
 99. A.J. Pozos-Guillén, P. Aguirre-Bañuelos, A. Arellano-Guerrero, G. Castañeda-Hernández, C. Hoyo-Vadillo, J. Pérez-Urizar: Isobolographic analysis of the dual-site synergism in the antinociceptive response of tramadol in the formalin test in rats. *Life Sciences* 79: 2275-2282, 2006.
 100. A. Picazo, G. Castañeda-Hernández, M. I. Ortiz: Examination of the interaction between peripheral diclofenac and gabapentin on the 5% formalin test in rats. *Life Sciences* 79: 2283-2287, 2006.
 101. J.M. Jiménez-Andrade, L. Lundstrom, U.E. Sollenberg, U. Langel, G. Castañeda-Hernández, S.M. Carlton: Activation of peripheral galanin receptors: Differential effects on nociception. *Pharmacology, Biochemistry and Behavior* 85: 273-280, 2006.
 102. M. Medeiros, J. Pérez-Urizar, N. Mejía-Gaviria, E. Ramírez-López, G. Castañeda-Hernández, R. Muñoz: Decreased cyclosporine exposure during the remission of nephrotic syndrome. *Pediatric Nephrology* 22: 84-90, 2007.
 103. P. García-López, A. Martínez-Cruz, G. Guizar-Sahagún, G. Castañeda-Hernández: Acute spinal cord injury changes the disposition of some, but not all

- drugs given intravenously. *Spinal Cord* 45: 603-608, 2007.
104. J.R. González, L. Baiza-Durán, J. Quintana-Hau, R. Tornero-Montaño, G. Castañeda-Hernández, M. Ortiz, F. Alarcón-Oceguera, M. Beltrán-Loustaunau, M. Cortez-Gastelum, Jorge Garcidueñas-Mejía, P. Gómez-Bastar, J. Jiménez-Román, V. Korder-Ortega, J. Paczka-Zapata, M. Torres-Segura, G. Velasco-Gallegos: Comparison of the stability, efficacy, and adverse effect profile of the innovator 0.005% latanoprost ophthalmic solution and a novel cyclodextrin-containing formulation. *Journal of Clinical Pharmacology* 47: 121-126, 2007.
 105. I. Grijalva, G. Guízar-Sahagún, D. Rodríguez-Pacheco, C. Francisco-Argüelles, G. Castañeda-Hernández, J. Palma-Aguirre: Gastric Emptying Effect by 4-Aminopyridine in Patients with Chronic Spinal Cord Injury. *Archives of Medical Research* 38: 392-397, 2007.
 106. M. Medeiros, J. Pérez-Urizar, J. Pedraza-Chaverri, R. Muñoz-Arizpe, G. Castañeda-Hernández: Increased cyclosporine bioavailability induced by experimental nephrotic syndrome in rats. *Canadian Journal of Physiology and Pharmacology* 85:502-506, 2007.
 107. M.I. Ortiz H. Ponce-Monter, E. Fernández-Martínez, N. Pérez-Hernández, Arturo Macías, Eduardo Rangel-Flores, Gilberto Castañeda-Hernández: Evaluation of the interaction between acetaminophen and opioids on the Hargreaves model of thermal hyperalgesia. *Pharmacology, Biochemistry and Behavior* 88: 47-54, 2007.
 108. K. Reyes-Gordillo, P. Muriel, G. Castañeda-Hernández, L. Favari: Pharmacokinetics of diclofenac in rats intoxicated with CCL₄, and in the regenerating liver. *Biopharmaceutics and Drug Disposition* 28: 415-422, 2007.
 109. A.E. Chávez-Piña, W. McKnight, M. Dicay, G. Castañeda-Hernández, J.L. Wallace: Mechanisms underlying the anti-inflammatory activity and gastric safety of acetaminophen. *British Journal of Pharmacology* 152: 930-938, 2007.
 110. A. Vertiz-Hernandez, G. Castaneda-Hernandez, A. Martinez-Cruz, L. Cruz-Antonio, I. Grijalva, G. Guizar-Sahagun: L-arginine reverses alterations in drug disposition induced by spinal cord injury by increasing hepatic blood flow. *Journal of Neurotrauma*. 24: 1855-1862, 2007.
 111. M.I. Ortiz, G. Castañeda-Hernández: Examination of the interaction between peripheral lumiracoxib and opioids on the 1% formalin test in rats. *European Journal of Pain* 12: 233-241, 2008.
 112. V.J. Hernández-Abad, G. Castañeda-Hernández, S. García-Jiménez, R. Marroquín-Segura, E. Sánchez-González: Evaluation of the quality of four Mexican drug products containing sodium naproxen. *Journal of Clinical Pharmacy and Therapeutics* 33: 237-242, 2008.

113. M.I. Ortiz, J. Lozano-Cuenca, V. Granados-Soto, G. Castañeda-Hernández: Additive interaction between peripheral and central mechanisms involved in the antinociceptive effect of diclofenac in the formalin test in rats. *Pharmacology, Biochemistry and Behavior* 91:32-37, 2008.
114. A.E. Chávez-Piña, L. Vong, W. McKnight, M. Dicay, R.C.O. Zanardo, M.I. Ortiz, G. Castañeda-Hernández, J.L. Wallace: Lack of effects of acemetacin on signaling pathways for leukocyte adherence may explain its gastrointestinal safety. *British Journal of Pharmacology* 155: 857–864, 2008.
115. A. Sierra-Santoyo, G. Castañeda-Hernández, R.A. Harrison, H.A. Barton, M.F. Hughes: Pharmacokinetics and dosimetry of the anti-androgen vinclozolin after oral administration in the rat. *Toxicological Sciences* 55-63, 2008.
116. E. López-Bojórquez, G. Castañeda-Hernández. M. González de la Parra, S. Namur: Development and validation of a high-performance thin-layer chromatographic method, with densitometry, for quantitative analysis of ketorolac tromethamine in human plasma. *Journal of the Association of Official Analytical Chemists International* 91: 1191-1195.
117. I.I. Acosta-Madrid, G. Castañeda-Hernández G, V.G. Cilia-López, R. Cariño-Cortés, N. Pérez-Hernández, E. Fernández-Martínez, M.I.Ortiz: Interaction between *Heliopsis longipes* extract and diclofenac on the thermal hyperalgesia test. *Phytomedicine* 16: 336-341, 2009.
118. L.M. Baiza-Duran LM, J. Quintana-Hau, R. Tornero-Montaño, M.I. Ortiz, G. Castañeda-Hernández, L. Alanis-Villarreal, G. Avalos-Urzua, R. Bustos-Zermeño, J.L. Domene-Hinojosa, P. Gómez-Bastar, M.A. Ibañez-Hernandez, M.E. Morales-Gómez, G. Velasco-Gallegos, J. Villar-Kuri: Comparison of the efficacy and safety of a novel meloxicam ophthalmic formulation with a reference diclofenac solution in cataract surgery. *International Journal of Clinical Pharmacology and Therapeutics* 47: 89-95, 2009.
119. A.E. Chávez-Piña, L. Favari, G. Castañeda-Hernández: Pharmacokinetics of acemetacin and its active metabolite indomethacin in rats during acute hepatic damage and liver regeneration. *Annals of Hepatology* 8: 141-147, 2009.
120. M.R. León-Reyes, G. Castañeda-Hernández, M.I.Ortiz: Pharmacokinetics of diclofenac in the presence and absence of glibenclamide in the rat. *Journal of Pharmacy and Pharmaceutical Sciences* 12: 280-287, 2009
121. D.A. Vásquez-Bahena U.E. Salazar-Morales, MI Ortiz, G. Castañeda-Hernández, I.F. Trocóniz: Pharmacokinetic-pharmacodynamic modelling of the analgesic effects of lumiracoxib, a selective inhibitor of cyclooxygenase-2, in rats. *British Journal of Pharmacology* 159: 176-187, 2010.
122. S. Namur, M. González-de la Parra, G. Castañeda-Hernández: Quantification

- of 4-aminopyridine in plasma by capillary electrophoresis with electrokinetic injection. *Journal of Chromatography B* 878: 290-294, 2010.
123. A. Esquivel, R. González-Ramírez, J. Alberú, C. Gracida, M. Medeiros, G. Castañeda-Hernández: Comparison of dissolution properties of 2 enteric-coated formulations containing mycophenolate sodium: Myfortic vs Femulan. *Transplantation Proceedings* 42: 353-356, 2010.
 124. R. Jimenez-Mendez, F. Uribe-Salas F, P. López-Guillen, L. Cisneros-Garza, G. Castañeda-Hernández: Distribution of HCV genotypes and HCV RNA viral load in different regions of Mexico. *Annals of Hepatology* 9: 33-39, 2010.
 125. M. Gil-Flores, M.I. Ortiz, G. Castañeda-Hernández, A.E. Chávez-Piña: Acemetacin antinociceptive mechanism is not related to NO or K⁺ channel pathways. *Methods and Findings in Experimental and Clinical Pharmacology* 32: 101-105, 2010.
 126. H. Reyes, A.M. Hernández, S. Valverde, A. Cataneo, A. Mendoza, I. Barrera, L. Ortiz, P. García-Roca, B. López-Martínez, G. Castañeda-Hernández, M. Medeiros: Efficacy and safety of conversion of mycophenolate mofetil to enteric-coated mycophenolate sodium in Mexican renal transplant children. *Pediatric Transplantation* 14: 746-752, 2010.
 127. R. Jiménez-Méndez, G. Castañeda-Hernández: Characteristics of hepatitis C treatment with pegylated interferons and ribavirin. *Annals of Hepatology* 9 Suppl: 61-4, 2010.
 128. M.I. Ortiz, M.P. González-García, H.A. Ponce-Monter, G. Castañeda-Hernández, P. Aguilar-Robles: Synergistic effect of the interaction between naproxen and citral on inflammation in rats. *Phytomedicine* 18: 74-79, 2010.
 129. M.I. Ortiz, M.L. Ramírez-Montiel, M.P. González-García, H.A. Ponce-Monter, G. Castañeda-Hernández, R. Cariño-Cortés. The combination of naproxen and citral reduces nociception and gastric damage in rats. *Archives of Pharmacal Research* 33: 1691-1697, 2010.
 130. I. Grijalva, A. García-Pérez, J. Díaz, S. Aguilar, D. Mino, E. Santiago-Rodríguez, G. Guizar-Sahagún, G. Castañeda-Hernández, H. Maldonado-Julián, I. Madrazo I. High doses of 4-aminopyridine improve functionality in chronic complete spinal cord injury patients with MRI evidence of cord continuity. *Archives of Medical Research* 41: 567-575, 2010.
 131. A. Esquivel-Aguilar, G. Castañeda-Hernández, A. Martínez-Cruz, R.E. Franco-Bourland, I. Madrazo, G. Guizar-Sahagún: Early Administration of l-Arginine in Experimental Acute Spinal Cord Injury Impairs Long-Term Motor Function Recovery. *Journal of Trauma*. 70: 1198-1202, 2011.

132. A. Baquero, J. Alberú-Gómez, E. Santiago Delpín, E. Tanús, R. Reyes-Acevedo, M.A. Matamoros, R. Tanús, M.S. Bacile, S. Orihuela, M. Abbud-Fihlo, M.C. Bacque, D. Casadei, A.A. Figueroa, R. Barriga Arroyo, M.M Bello Bello, M. Bengochea, J.D. Cancino López, G.R. Cantú Quintanilla, G. Castañeda Hernández, I. Córdova, R. Espinoza Pérez, J.P. Garbanzo Corrales, C. Gracida Juárez, M.J. Gutiérrez Navarro, M. Mautone, J.L. Medina Cerriteño, A. Méndez Rangel, A. Mondragón Padilla, C. Netza Cardoso, M.C. Rial, A. Rodríguez Allen, M.L. Ruiz Jaramillo, L. Zylberberg. El Documento de Aguascalientes. *Revista de Investigación Clínica* 63: 187-197, 2011.
133. M.I. Ortiz, G. Castañeda-Hernández, J.A. Izquierdo-Vega, H.A. Ponce-Monter. Peripheral synergistic interaction between lidocaine and lumiracoxib on the 1% formalin test in rats. *Open Pain Journal* 4: 8-14, 2011.
134. L. Cruz-Antonio, J. Arauz, R.E. Franco-Bourland, G. Guízar-Sahagún, G. Castañeda-Hernández. Contrasting effects of cord injury on intravenous and oral pharmacokinetics of diclofenac: a drug with intermediate hepatic extraction. *Spinal Cord* 50: 632-635, 2012.
135. M.I. Ortiz, G. Castañeda-Hernández, J.A. Izquierdo-Vega, M. Sánchez-Gutiérrez, H.A. Ponce-Monter, V. Granados-Soto. Role of ATP-sensitive K(+) channels in the antinociception induced by non-steroidal anti-inflammatory drugs in streptozotocin-diabetic and non-diabetic rats. *Pharmacology Biochemistry and Behavior* 102: 163-169, 2012.
136. P. García-Roca, M. Medeiros, H. Reyes, B.A. Rodríguez-Espino, J. Alberú, L. Ortiz, M. Vásquez-Perdomo, G. Elizondo, L.E. Morales-Buenrostro, E. Mancilla Urrea, G. Castañeda-Hernández. CYP3A5 Polymorphism in Mexican Renal Transplant Recipients and its Association with Tacrolimus Dosing. *Archives of Medical Research* 43: 283-287, 2012.
137. A. Esquivel, R. González, J. Alberú, C. Gracida, M. Medeiros, G. Castañeda-Hernández. Intimidación a científicos en el área de trasplante renal (Editorial). *Revista de Investigación Clínica* 64: 215-219, 2012.
138. J. Jaimes-Hernández, C.I. Meléndez-Mercado, A. Mendoza-Fuentes, P. Aranda-Pereira, G. Castañeda-Hernández. Eficacia de leflunomida 100 mg semanales comparado con dosis bajas de metotrexate en pacientes con artritis reumatoide activa. Estudio clínico doble ciego aleatorizado. *Reumatología Clínica* 8: 243-249, 2012.
139. S.M. Szabo, M. Bibby, Y. Yuan, B.M. Donato, R. Jiménez-Méndez, G. Castañeda-Hernández, M. Rodríguez-Torres, A.R. Levy. The epidemiologic burden of hepatitis C virus infection in Latin America *Annals of Hepatology* 11: 623-635, 2012.
140. N. Vélez de Mendizábal, D. Vásquez-Bahena, J.M. Jiménez-Andrade, M.I.

- Ortiz, G, Castañeda-Hernández, I.F. Trocóniz. Semi-mechanistic Modeling of the Interaction Between the Central and Peripheral Effects in the Antinociceptive Response to Lumiracoxib in Rats. *Journal of AAPS J (Official Journal of the American Association of Pharmaceutical Sciences)*. 14: 904-914, 2012.
141. E.A. Pineda-Peña, J.M. Jiménez-Andrade, G. Castañeda-Hernández, A.E. Chávez-Piña. Docosahexaenoic acid, an omega-3 polyunsaturated acid protects against indomethacin-induced gastric injury. *European Journal of Pharmacology* 697: 139-143, 2012.
142. M.A. De Paz-Campos, A.E. Chávez-Piña, M.I. Ortiz, G. Castañeda-Hernández. Evidence for the Participation of ATP-sensitive Potassium Channels in the Antinociceptive Effect of Curcumin. *Korean Journal of Pain*. 25: 221-227, 2012.
143. T. Dörner, V. Strand, G. Castañeda-Hernández, G. Ferraccioli, J.D. Isaacs, T.K. Kvien, E. Martin-Mola, T. Mittendorf, J.S. Smolen, G.R. Burmester GR. The role of biosimilars in the treatment of rheumatic diseases. *Annals of the Rheumatic Diseases* 72: 322-328, 2013.
144. V. Rodríguez-Romero, L. Cruz-Antonio, R.E. Franco-Bourland, G. Guízar-Sahagún, G. Castañeda-Hernández. Changes in renal function during acute spinal cord injury: implications for pharmacotherapy. *Spinal Cord*. 51: 528-531, 2013.
145. T. Arredondo-Garza, A. Majluf-Cruz, J. Vela-Ojeda, I. Mariscal-Ramírez, L. Solis-Anaya, J.R. Lopez-Gutiérrez, C.H. Guadarrama, E. Rico-Curiel, J.A. Armenta-San Sebastián, G. Castañeda-Hernández. Peri-infusional adverse reactions to rituximab in patients with non-Hodgkin's lymphoma. *Archives of Medical Research* 44: 549-554. 2013.
146. N.E. Díaz-Triste, M.P. González-García, J.M. Jiménez-Andrade, G. Castañeda-Hernández, A.E. Chávez-Piña. Pharmacological evidence for the participation of NO-cGMP-KATP pathway in the gastric protective effect of curcumin against indomethacin-induced gastric injury in the rat. *European Journal of Pharmacology* 5:102-106, 2014.
147. G. Castañeda-Hernández, Z. Szekanecz, E. Mysler, V.F. Azevedo, R. Guzman, M. Gutierrez, W. Rodríguez, D. Karateev. Biopharmaceuticals for rheumatic diseases in Latin America, Europe, Russia, and India: Innovators, biosimilars, and intended copies. *Joint Bone Spine* 81: 471-477, 2014.
148. R. González-Ramírez, J. González-Bañuelos, M.D. Villa, B. Jiménez, P. García-Roca, L. Cruz-Antonio, G. Castañeda-Hernández, M. Medeiros. Bioavailability of a generic of the immunosuppressive agent mycophenolate mofetil in pediatric patients. *Pediatric Transplantation* 18: 568-574, 2014.
149. O.D. Castelán-Martínez, R. Jiménez-Méndez, F. Rodríguez-Islas, M. Fierro-Evans, B.E. Vázquez-Gómez, A. Medina-Sansón, P. Clark, B. Carleton, C. Ross, C.

- Hildebrand, G. Castañeda-Hernández, R. Rivas-Ruiz. Hearing loss in Mexican children treated with cisplatin. *International Journal of Pediatric Otorhinolaryngology* 78: 1456-1460, 2014.
150. C.O Jacobo-Cabral, P. García-Roca, H. Reyes, L. Lozada-Rojas, L. Cruz-Antonio, M. Medeiros, G. Castañeda-Hernández. Limustin(®), a non-innovator tacrolimus formulation, yields reduced drug exposure in pediatric renal transplant recipients. *Pediatric Transplantation* 18: 706-713, 2014.
151. M. Márquez, L.M. Blancas-Mejía, A. Campos, L. Rojas, G. Castañeda-Hernández, L. Quintanar. A bifunctional non-natural tetrapeptide modulates amyloid-beta peptide aggregation in the presence of Cu(ii). *Metallomics* 6: 2189-2192, 2014.
152. M.A. De Paz-Campos, M.I. Ortiz, A.E. Chávez Piña, L. Zazueta-Beltrán, G. Castañeda-Hernández. Synergistic effect of the interaction between curcumin and diclofenac on the formalin test in rats. *Phytomedicine*. 15: 1543-1548, 2014.
153. M. Scheinberg and G. Castañeda-Hernández. Anti-tumor necrosis factor patent expiration and the risks of biocopies in clinical practice. (Commentary). *Arthritis Research & Therapy* 2014 Dec 6;16(6):501. doi: 10.1186/s13075-014-0501-5.
154. V. Rodríguez-Romero, K.I. González-Villalva, J.L. Reyes, R.E. Franco-Bourland, G. Guízar-Sahagún, G. Castañeda-Hernández, L. Cruz-Antonio. A novel, simple and inexpensive procedure for the simultaneous determination of iopamidol and p-aminohippuric acid for renal function assessment from plasma samples in awake rats. *Journal of Pharmaceutical and Biomedical Analysis* 107C: 196-203, 2015.
155. M. Medeiros M, Castañeda-Hernández G, Ross CJ, Carleton BC. Use of pharmacogenomics in pediatric renal transplant recipients. *Frontiers in Genetics* 2015 Feb 18;6:41. doi: 10.3389/fgene.2015.00041.
157. L. Rodríguez-Vera, M.R. Suzarte, E. Fernández-Sánchez, J.L. Soriano, C. Peraire Guitart, G. Castañeda-Hernández, C.O. Jacobo Cabral, N. de Castro Suárez, H. Colom Codina. Semimechanistic model to characterize nonlinear pharmacokinetics of nimotuzumab in patients with advanced breast cancer. *Journal of Clinical Pharmacology* 55: 888-898, 2015.
158. C.O. Jacobo-Cabral, P. García-Roca, E.M. Romero-Tejeda, H. Reyes, M. Medeiros, G. Castañeda-Hernández, I.F. Trocóniz. Population pharmacokinetic analysis of tacrolimus in Mexican paediatric renal transplant patients: role of CYP3A5 genotype and formulation. *British Journal of Clinical Pharmacology* 80: 630-641, 2015.
159. N. Velez de Mendizabal, R. Jimenez-Mendez, E. Cooke, C.J. Montgomery,

- J. Dawes, M.J. Rieder, K. Aleksa, G. Koren, C.O. Jacobo-Cabral, R. Gonzalez-Ramirez, G. Castañeda-Hernandez, B.C. Carleton. A compartmental analysis for morphine and its metabolites in young children after a single oral dose. *Clinical Pharmacokinetics* 54: 1983-1090, 2015.
160. G. Castañeda-Hernández, R. González-Ramírez, J. Kay, M. Scheinberg. Biosimilars in rheumatology: what the clinician should know. *Rheumatic & Musculoskeletal Diseases Open* 2015;1:e000010. doi:10.1136/rmdopen-2014-000010
161. C.A. Jiménez-Triana, O.D. Castelán-Martínez, R. Rivas-Ruiz, R. Jiménez-Méndez, A. Medina, P. Clark, R. Rassekh, G. Castañeda-Hernández, B.C. Carleton B, M. Medeiros, Canadian Pharmacogenomics Network for Drug Safety Consortium. Cisplatin Nephrotoxicity and Longitudinal Growth in Children With Solid Tumors: A Retrospective Cohort Study. *Medicine (Baltimore)*. 2015 Aug;94(34):e1413. doi: 10.1097/MD.0000000000001413.
162. O.M. Huerta-Sanchez, J.L. Aguilar-Ponce, A. Meneses-García, Á. Herrera-Gómez, R. Herrera-Hernández, M.T. Monroy Cruz, J.A. Burgueño-Ferreira, G. Castañeda-Hernández, M. López-Gamboa. Implementation of a robust pharmacovigilance method for filgrastim non-innovator products in cancer patients in routine clinical practice complying with Mexican regulations for biocomparables. *Journal of Pharmacovigilance* 3: 174. Doi:10.4172/2329-6887.10000174.
163. M.I. Ortiz, E. Fernández-Martínez, Luis Enrique Soria-Jasso, Isaac Lucas-Gómez, Roberto Villagómez-Ibarra, M.P. González-García, G. Castañeda-Hernández, M. Salinas-Caballero. Isolation, identification and molecular docking as cyclooxygenase (COX) inhibitors of the main constituents of *Matricaria chamomilla L.* extract and its synergistic interaction with diclofenac on nociception and gastric damage in rats. *Biomedicine & Pharmacotherapy* 78: 248-256, 2016.
164. O.D. Castelán-Martínez, F. Rodríguez-Islas, J.L. Vargas-Neri, M.A. Palomo-Colli, E. López-Aguilar, P. Clark, G. Castañeda-Hernández, R. Rivas-Ruiz. Risk factors for febrile neutropenia in children with solid tumors treated with cisplatin-based chemotherapy. *Journal of Pediatric Hematology/Oncology* 38: 191-196, 2016.
165. C. Pineda, G. Castañeda Hernández, I.A. Jacobs, D.F. Alvarez, C. Carini. Assessing the immunogenicity of biopharmaceuticals. *BioDrugs*. 30: 195-206, 2016.
166. M. Medeiros, S. Valverde, I. Del Moral, L. Velásquez-Jones, A.M. Hernández, G. Castañeda-Hernández, H. Reyes, G. Filler. Are tacrolimus pharmacokinetics affected by nephrotic stage? *Therapeutic Drug Monitoring* 38: 288-292, 2016.
167. G. Castañeda-Hernández, A. Martínez-Talavera, L.M. Barranco-Garduño, A. Cervantes-Nevárez, H. León-Molina, M.C. Carrasco-Portugal, F.J. Flores-Murrieta.

Oseltamivir pharmacokinetics in Mexican obese and non-obese healthy subjects and patients. Evidence for an absence of interethnic variability. *British Journal of Clinical Pharmacology* 82: 890-891, 2016.

168. R.A. Levy, R. Guzmán, G. Castañeda-Hernández, M. Martínez-Vázquez, G. Damian, C. Cara. Biology of anti-TNF agents in immune-mediated inflammatory diseases: therapeutic implications. *Immunotherapy* 8: 1427-1436, 2016.
169. A.Y. Landa-Juárez, M.I. Ortiz, G. Castañeda-Hernández, E. Chávez-Piña. Participation of potassium channels in the antinociceptive effect of docosahexaenoic acid in the rat formalin test. *European Journal of Pharmacology* 793: 95-100, 2016.
170. L. Zazueta-Beltrán, L. Medina-Aymerich, N.E. Díaz-Triste N, A.E. Chávez-Piña, G. Castañeda-Hernández, L. Cruz-Antonio. Evidence against the participation of a pharmacokinetic interaction in the protective effect of single-dose curcumin against gastrointestinal damage induced by indomethacin in rats. *Journal of Integrative Medicine* 15: 151-157, 2017.
171. M. Medeiros, J. Lumini, N. Stern, G. Castañeda-Hernández, G. Filler. Generic immunosuppressants. *Pediatric Nephrology*. 2017 Jul 21. doi: 10.1007/s00467-017-3735-z. [Epub ahead of print]
172. A.G. Arroyo-Lira, F. Rodríguez-Ramos, M.I. Ortiz, G. Castañeda-Hernández, A.E. Chávez-Piña. Supra-Additive Interaction of Docosahexaenoic Acid and Naproxen and Gastric Safety on the Formalin Test in Rats. *Drug Development Research*. 2017 Aug 3. doi: 10.1002/ddr.21396. [Epub ahead of print]
173. M.I. Ortiz, R. Cariño-Cortés, H.A. Ponce-Monter, M.P. González-García, G. Castañeda-Hernández, M. Salinas-Caballero. Synergistic Interaction of Matricaria Chamomilla Extract with Diclofenac and Indomethacin on Carrageenan-Induced Paw Inflammation in Rats. *Drug Development Research*. 2017 Aug 4. doi: 10.1002/ddr.21401. [Epub ahead of print]

7.2.2. Books

1. F.J. Flores Murrieta, G. Castañeda Hernández. R. Medina Santillán. Biodisponibilidad y Bioequivalencia en los Medicamentos Genéricos. Editorial Asclepius XXI. 2002.

8. Review Committees

Reviewer of National Council for Science and Technology of Mexico (CONACYT).

National Investigation Award. Fundación Glaxo-Smith-Kline.

Reviewer of the National System of Investigation of Panama.

Reviewer of the National Science Center of Poland.

8. Supervisory Experience

Has supervised 25 Doctoral and 51 Master of Science theses in Pharmacology.