

Nombre del académico	Diego F. García Díaz.
Carácter del vínculo (claustro, colaborador o visitante)	Colaborador
Título, institución, país	Ing En Biotecnología, Universidad de Chile, Chile.
Grado máximo (especificar área disciplinar), institución, año de graduación y país¹	PhD, Fisiología y Alimentación, Universidad de Navarra, España, 2010.
Línea(s) de investigación	Búsqueda, extracción y caracterización de compuestos bioactivos , Área Biotecnología Aplicada a la salud humana y animal
Número de tesis de <u>magíster</u> dirigidas en los últimos 10 años (finalizadas)	2006-2010 No aplica 2011-2016 1. Carolina Pizarro Acevedo, 2012, “Expresión e mirnas en pacientes con diabetes tipo 1: posible asociación con autoinmunidad e inflamación. Master in Biologica Sciences degree University of Chile. (Codirección) 2. Marjorie Reyes Faria, 2013, “Estudio de los potenciales efectos antiinflamatorios de extractos de Maqui y Calafate en un modelo in vitro de inflamación ligada a obesidad”. Master in Biochemistry degree, University of Chile.
Número de tesis de <u>doctorado</u> dirigidas en los últimos 10 años (finalizadas)	2006-2010 No aplica 2011-2016 No aplica
Número de tesis dirigidas <u>en el programa</u>, en los últimos 10 años (finalizadas)	2006-2010 No aplica 2010-2016 No aplica
Listado de publicaciones en los últimos 10 años. En caso de publicaciones con más de un autor, indicar en negrita el autor principal.	Publicaciones indexada ISI: 2006 – 2010 1. Lomba A, Martínez JA , García-Díaz DF, Paternain L, Marti A, Campión J, Milagro FI. 2010 , Weight gain induced by an isocaloric pair-fed high fat diet: a nutriepigenetic study on FASN and NDUFB6 gene promoters. Mol Genet Metab. 101 (2-3):273-8. ISSN 1096-7192; IF (2015) 3.093 2. Lomba A, Milagro FI, García-Díaz DF, Marti A, Campión J, Martínez JA.

¹ Si se estima necesario, indicar todos los grados académicos obtenidos o equivalentes.

	<p>2010, Obesity induced by a pair-fed high fat sucrose diet: methylation and expression pattern of genes related to energy homeostasis. Lipids Health Dis. 9:60-70. ISSN 1476-511X; IF (2015) 2.137</p> <p>3. Garcia-Diaz DF, Campion J, Milagro FI, Boque N, Moreno-Aliaga MJ, Martinez JA. 2010, Vitamin C inhibits leptin secretion and some glucose/lipid metabolic pathways in primary rat adipocytes. J Mol Endocrinol. 45(1):33-43. ISSN 0952-5041; IF (2015) 2.947</p> <p>4. Lomba A, Milagro FI, García-Díaz DF, Campión J, Marzo F, Martínez JA. 2009, A high-sucrose isocaloric pair-fed model induces obesity and impairs NDUFB6 gene function in rat adipose tissue. J Nutrigenet Nutrigenomics. 2(6):267-72. ISSN 1661-6499; IF (2015) 1.488</p> <p>5. Boqué N, Campión J, Paternain L, García-Díaz DF, Galarraga M, Portillo MP, Milagro FI, Ortiz de Solórzano C, Martínez JA. 2009, Influence of dietary macronutrient composition on adiposity and cellularity of different fat depots in Wistar rats. J Physiol Biochem. 65(4):387-95. ISSN 1138-7548; IF (2015) 2.054</p> <p>6. García DD, Oyarzún AA, Angel BB, Carrasco PE, Pérez BF. 2009, Association of GHRd3 variant of growth hormone receptor gene with autoimmunity in type 1 diabetes. Rev Med Chil. 137(5):609-16. ISSN 0034-9887; IF (2015) 0440</p> <p>7. Garcia-Diaz DF, Campion J, Milagro FI, Paternain L, Solomon A, Martinez JA. 2009, Ascorbic acid oral treatment modifies lipolytic response and behavioural activity but not glucocorticoid metabolism in cafeteria diet-fed rats. Acta Physiol (Oxf). 195(4):449-57. ISSN 1748-1708; IF (2015) 4.066</p> <p>8. Milagro FI, Campión J, García-Díaz DF, Goyenechea E, Paternain L, Martínez JA. 2009, High fat diet-induced obesity modifies the methylation pattern of leptin promoter in rats. J Physiol Biochem. 65(1):1-9. ISSN 1138-7548; IF (2015) 2.054</p> <p>9. López T, García D, Angel B, Carrasco E, Codner E, Ugarte F, Pérez-Bravo F. 2008, Association between Fok I vitamin D receptor (VDR) gene polymorphism and plasmatic concentrations of transforming growth factor-beta1 and interferon gamma in type 1 diabetes mellitus. Med Clin (Barc). 130(3):81-4. ISSN 0025-7753; IF (2015) 1.267</p> <p>10. García-Díaz DF, Campion J, Milagro FI, Lomba A, Marzo F, Martínez JA. 2007, Chronic mild stress induces variations in locomotive behavior and metabolic rates in high fat fed rats. J Physiol Biochem. 63(4): 337-346. ISSN 1138-7548; IF (2015) 2.054</p>
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11. García-Díaz D, Campión J, Milagro FI, **Martínez JA. 2007**, Adiposity dependent apelin gene expression: relationships with oxidative and inflammation markers. **Mol Cell Biochem.** 305 (1-2):87-94. ISSN 0300-8177; IF (2015) 2.613
12. Garcia D, Angel B, Carrasco E, Albala C, Santos JL, **Perez-Bravo F. 2007**, VDR polymorphisms influence the immune response in type 1 diabetic children from Santiago, Chile. **Diabetes Res Clin Pract.** 77:134-40. ISSN 0168-8227; IF (2015) 3.045
13. **Carrasco E**, Angel B, Codner E, Garcia D, Ugarte F, Bruzzone ME, Perez F. **2006**, Type 1 diabetes mellitus incidence in Santiago, Chile. Analysis by counties in the period 2000-2004. **Rev Med Chil.** 134:1258-64. ISSN 0034-9887; IF (2015) 0.440

2011 – 2016

1. Rozowski J, **Castillo O**, Figari N, Garcia-Diaz DF, Cruchet S, Weisstaub G, Perez-Bravo F, Gotteland M. **2015**, Nutritional status and biochemical markers of deficiency or excess of micronutrients in 4 to 14 year-old Chilean children: a critical review. **Nutr Hosp.** 32(6):2916-2925. ISSN 0212-1611; IF (2015) 1.497
2. Arroyo-Jousse V, Garcia-Diaz DF, **Perez-Bravo F. 2015**, Global DNA Methylation and Homocysteine levels are diminished in Type 1 Diabetes patients. **Rev Med Chil.** 143(5):562-8 ISSN 0034-9887; IF (2015) 0.440
3. Reyes-Farias M, Vasquez K, Ovalle-Marin A, Fuentes F, Parra C, Quiral V, Jimenez P, **Garcia-Diaz DF. 2015**, Chilean native fruits extracts inhibit inflammation linked to the pathogenic interaction between adipocytes and macrophages. **J Med Food.** 18(5):601-8 ISSN 1096-620X; IF (2015) 1.844
4. **Garcia-Diaz DF**, Johnson M, de Mejia E. **2015**, Anthocyanins from fermented berry beverages inhibit inflammation-related adiposity response in vitro. **J Med Food.** 18(4):489-96 ISSN 1096-620X; IF (2015) 1.844
5. Pizarro C, Garcia-Diaz DF, Codner E, Salas-Perez F, Carrasco E, **Perez-Bravo F. 2014**, PD-L1 gene polymorphisms and low serum level of PD-L1 protein are associated to T1D in Chilean population. **Diabetes Metab Res Rev** 30(8):761-6. ISSN 1520-7560; IF (2015) 3.064

	<p>6. Garcia-Diaz DF, Lopez-Legarrea P, Quintero P, Martinez JA. 2014, Vitamin C in the treatment and/or prevention of obesity. J Nutr Sci and Vitaminol (Tokyo) 60:367-379. ISSN 0301-4800; IF (2015) 0.890</p> <p>7. Costa AGV, Garcia-Diaz DF, Jimenez P, Silva PI. 2013, Bioactive compounds and health benefits of exotic tropical red-black berries. J Func Foods 5(2):539-549. ISSN 1756-4646; IF (2015) 3.973</p> <p>8. Quintero P, García-Díaz DF, González-Muniesa P, Martínez JA. 2012, Effect of hyperoxia on biochemical parameters and gene expression of 3T3-L1 adipocytes. J Physiol Biochem. 68(4):663-9. ISSN 1138-7548; IF (2015) 2.054</p> <p>9. Garcia-Diaz DF, Campion J, Arellano AV, Milagro FI, Moreno-Aliaga MJ, Martinez JA. Fat intake leads to differential response of rat adipocytes to glucose, insulin and ascorbic acid. Exp Biol Med (Maywood). 2012; 237 (4):407-416. (IF: 2.542)</p> <p>10. Garcia-Diaz DF, Campion J, Quintero P, Milagro FI, Moreno-Aliaga MJ, Martinez JA. 2011, Vitamin C modulates the interaction between adipocytes and macrophages. Mol Nutr Food Res. 55(Suppl 2):S257-63. ISSN 1535-3702; IF (2015) 2.542</p> <p>11. Garcia-Diaz DF, Arellano AV, Milagro FI, Moreno-Aliaga MJ, Portillo MP, Martinez JA, Campion J. 2011, Glucose and insulin modify thrombospondin 1 expression and secretion in primary adipocytes from diet-induced obese rats. J Physiol Biochem. 67(3):453-61. ISSN 1138-7548; IF (2015) 2.054</p> <p>12. Paternain L, García-Díaz DF, Milagro FI, González-Muniesa P, Martinez JA, Camió J. 2011, Regulation by chronic-mild stress of glucocorticoids, monocyte chemoattractant protein-1 and adiposity in rats fed on a high-fat diet. Physiol Behav. 103(2):173-80. ISSN 0031-9384; IF (2015) 2.461</p>
	<p>Indexada (identificar tipo de indexación: SCIELO, LATINDEX, u otra):</p> <p>2006 – 2010 No aplica</p> <p>2011 – 2016 No aplica</p>

	<p>No indexada (por ejemplo, libros, capítulos de libro, revistas con referato): 2006– 2010</p> <ol style="list-style-type: none"> 1. García-Díaz DF, Martínez JA. Utilización nutritive de la vitamica C en función de las necesidades fisiológicas, in: Fundamentos de Nutrición y Dietética Bases metodológicas y aplicaciones. 2010, Madrid. Ed. Médica Panamericana. 1st edition. Pages: 203-205. <p>2011 – 2016</p> <ol style="list-style-type: none"> 1. Galgani JE, Garcia-Diaz DF. Role of Saturated and Polyunsaturated Fat in Obesity-Related Inflammation, in: Inflammation, Advancing Age and Nutrition: Research, Science and Interventions. Rahman I and Bagchi D. 2013, USA. Academic Press (Elsevier). First Edition. Pages: 297-305. <p>Patentes: 2006 – 2010 No Aplica</p> <p>2011 – 2015 No Aplica.</p>
<p>Listado de proyectos de investigación en los últimos 10 años</p>	<ul style="list-style-type: none"> ● Proyectos FONDECYT (Iniciación, Regular, Postdoctoral) <p>2006 – 2010</p> <ol style="list-style-type: none"> 1. Title: Interaction between polymorphisms of the vitamin D receptor (VDR) and immunogenetic markers HLA-DQB1* in type 1 diabetes: possible modulator role of vitamin D (FONDECYT 1030680). Funding: National Commission for Scientific and Technological Research (CONICYT, Chile). Duration: 2003-2006. Head researcher: Franciso Perez Bravo. Host institution: Institute of Nutrition and Food Technology (INTA), University of Chile. <p>2011 – 2016</p> <ol style="list-style-type: none"> 1. Title: Extracts of Chilean native fruits inhibit inflammatory mechanisms involved in obesity development (FONDECYT 11110219) Funding: National Commission for Scientific and Technological Research (CONICYT, Chile) Duration: 2011-2014. Head researcher: Diego F Garcia Diaz. Host Institution: University of Chile. Host Institution: University of Chile. 2. Title: Type 1 Diabetes epigenetics: microrna gene expression in peripheral mononuclear cells of Type 1 Diabetic patients and the impact of vitamin D, TNFa and IL-6 over apoptosis and inflammation (FONDECYT 1130240) Funding: National Commission for Scientific and Technological Research (CONICYT, Chile) Duration: 2013-2016. Head researcher: Francisco Perez Bravo Host institution: University of Chile.

	<ul style="list-style-type: none"> ● Proyectos FONDEF 2006 – 2010 No aplica 2011 – 2016 No aplica ● Otros Proyectos 2006 – 2010 <ol style="list-style-type: none"> 1. Title: Ingredients in the prevention of obesity and insulin resistance: implicated mechanisms (AGL2006-04716/ALI). Funding: Ministry of Education and Science (MEC), Spain. Duration: 2007-2009. Head Researcher: Maria Jesus Moreno Aliaga. Host Institution: Universidad de Navarra. 2. Title. Applied research in obesity nutrigenomic (Parques tecnologicos, PPT-300000-2008-3) Funding: Ministry of Education and Science (MEC), Spain. Duration: 2008-2010. Head researcher: J. Alfredo Martínez Hernandez. Host Institution: University of Navarra. 3. Title: Role of the epigenetic regulation in the cellular cycle and obesity development. Funding: Navarra Government, Education Departmentm Spain. Duration: 2009-2010. Head researcher: Francisco JavierCampion Zabalza. Host Institution: University of Navarra. <ul style="list-style-type: none"> 2011 – 2016 <ol style="list-style-type: none"> 1. Title: High throughput technology implementation for characterization, quantification and/or isolation of molecules of high interest in nutrition (FONDEQUIP EQM120121) Funding: National Commission for Scientific and Technological Research (CONICYT, Chile) Duration: 2012-2013. Head researcher: Diego F. Garcia Diaz. Host Institution: University of Chile. 2. Title: Fat substitution with ingredients of vegetal and marine origin and incorporation of bioactive compounds in sausages (applied R&D profile) Funding: INNOVA-CORFO (Chile) Duration: 2013. Head researcher: Vilma Quiral Host institution: University of Chile. 3. Title: Anthocyanins cyaniding-and delphinidin 3-induced edipocytes lipolysis (IANAS Seed Grant 2013) Funding: Inter American Network of Academies of Sciences (IANAS, EEUU). Duration: 2013. Head researcher: Diego F. García Diaz. Host Institution: University of Chile.
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Consultorías y/o asistencias técnicas en los últimos 10 años	2006-2010 <i>No aplica</i>
	2011-2016 <i>No aplica</i>