

Nombre del académico	JORGE GONZALO FARÍAS AVENDAÑO				
Carácter del vínculo (claustro, colaborador o visitante)	Colaborador				
Título profesional, institución, país	Bioquímico, Pontificia Universidad Católica de Valparaíso, 1993, Chile				
Grado académico máximo (especificar área disciplinar), institución, año de graduación y país³⁰	Doctor en Biotecnología, Universidad Técnica Federico Santa María, 2006, Chile				
Línea(s) de investigación	Biotecnología Farmacéutica y acuícola Ingeniería y Bioprocesos alimentos				
Tesis de magíster dirigidas en los últimos 10 años (finalizadas)	Como guía de tesis				
	Año	Autor	Título de la Tesis	Nombre del programa	Institución
	2018	María Jesús Suazo	Caracterización Limnológica en época estival de tres lagos Nordpatagónicos (Calafquén, Pellaifa y Pillinque, 39°-42° S, Chile).	Magíster en Ciencias de Recursos Naturales	Universidad de La Frontera (UFRO-Chile)
	2014	Valker Feitosa	Produção de fragmento recombinante de anticorpo em Pichia pastoris.	Pós-Graduação em Tecnologia Bioquímico-Farmacêutica Área de Tecnologia das Fermentações	Universidad de São Paulo, Brasil.
	Como co-guía de tesis				
Año	Autor	Título de la Tesis	Nombre del programa	Institución	
-	-	-	-	-	
Tesis de doctorado dirigidas en los últimos 10 años (finalizadas)³¹	Como guía de tesis				
	Año	Autor	Título de la Tesis	Nombre del programa	Institución
	2021	Katherin Solis	Predation of Anadromous and resident salmonid on the Allipén river ecosystem, Tolten Basin, La Araucanía region, Chile	Doctorado en Ciencias de Recursos Naturales	Universidad de La Frontera (UFRO-Chile)
	2020	Manuel Lee Estevez	Role of AMP-activated protein kinase (AMPK) in the molecular mechanisms of activation and maintenance of motility in cryopreserved spermatozoa of atlantic salmon (<i>Salmo Salar</i>).	Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)
2020	Stefania Short Rocha	Caracterización de proteinnas anticongelantes presents en <i>Deschampsia</i> antarctica y su potencial uso en criopreservación de espermatozoides de salmon del Atlántico (<i>Salmo salar</i>	“) Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)	

³⁰ Si se estima necesario, indicar todos los grados académicos obtenidos o equivalentes.

³¹ Marcar con negrilla las tesis dirigidas en el mismo programa

2018	Kelly Dumornè	Study of sperm quality-markers in semen of pink cusk-eel (<i>Gnyptherus blacodes</i> , Achneider 1801) grown under experimental farming conditions)	Doctorado en Ciencias de Recursos Naturales	Universidad de La Frontera (UFRO-Chile)
2018	Patricio Ulloa	Study on Patagonian blenny (<i>Eleginops maclovinus</i>) Sperm Function during in vitro Cold Storage	Doctorado en Ciencias de Recursos Naturales	Universidad de La Frontera (UFRO-Chile)
2015	Carolina Figueroa	Estudio de los mecanismos moleculares asociados a la regulación de la producción de fragmentos de anticuerpos scFv Anti-LDL oxidada, bajo condiciones de estrés oxidativo, en <i>Pichia pastoris</i> recombinante	Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)-Universidad de São Paulo (Brasil)
2015	Andrea Zepeda	Caracterización del proceso de producción del anticuerpo scFv en <i>Pichia pastoris</i> a través del uso de biomarcadores específicos	Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)-Universidad de São Paulo (Brasil)
2016	Daniel Weinacker	Desarrollo y aplicación de un método de purificación del fragmento scFv anti-LDL (-), a partir de <i>P. pastoris</i> recombinante, para su transferencia a la industria biofarmacéutica	Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)-Universidad de São Paulo (Brasil)
2017	Elías Figueroa	Estudio del efecto de la criopreservación en la ultraestructura y función mitocondrial en espermatozoide de Salmón del atlántico (<i>salmo salar</i>): relación con la capacidad fecundante	Doctorado en Ciencias, mención Biología Celular y Molecular Aplicada	Universidad de La Frontera (UFRO-Chile)-Universidad de São Paulo (Brasil)
Como co-guía de tesis				
Año	Autor	Título de la Tesis	Nombre del programa	Institución
-	-	-	-	-

PRODUCTIVIDAD CIENTÍFICA EN LOS ÚLTIMOS 10 AÑOS

Publicaciones indexadas (identificar y agrupar por tipo de indexación: WoS/ISI, SCIELO, LATINDEX, u otras – indicando cuales-):

N°	Autor(es)	Año	Título del artículo	Nombre revista	Estado	ISSN	Factor de impacto
ISI							
1	M.Pérez, S.Short, C.Ríos, J.Farias, R.Pincheiro, W.Amorim, J.Risopatron, I.Valdebenito, E.Figueroa	2024	Preparation and extraction of chorion proteins from salmo salar embryos at the pigmented eye stage for electrophoresis with sds-polyacrylamide gel	Methodsx	Publicada	102533-1 - 102533-10	2.676
2	J.Beltran, L.Herrera, F.Parraguez, J.Farias, J.Machuca, S.Short	2024	Multitoxpred 1.0: a novel comprehensive tool for predicting 27 classes of protein toxins using an ensemble machine learning approach	Bmc bioinformatics	Publicada	1471-2105	3.169
3	O.Merino, E. Figueroa, I.	2024	Change in the swimming pattern of salmo salar	Theriogenology	Publicada	0093-691X	2.779

Listado de publicaciones. En caso de publicaciones con más de un autor, indicar en negrita el autor principal.

	Valdebenito, J. Risopatrón, M. Merino, J.Farias		spermatozoa caused by the high temperature of the sperm motility activation medium.				
4	S. Short, M. Zamorano, C. Aranzaes-Ríos, M. Lee-Estevez, R.Díaz, J.Quiñones, P.Ulloa-Rodríguez, E.Figueroa Villalobos, L. Bravo, S. Graether, J. Farías	2024	Novel apolastic antifreeze proteins of deschampsia antarctica as enhancer of common cell freezing media for cryobanking of genetic resources, a preliminary study	Biomolecules	Publicada	2218-273X	5.989
5	M.Pérez, A.Hernandez, J.Risopatron, J.Farias, E.Figueroa, N.Valdebenito	2024	Effect of diet composition on maturation rate of female atlantic salmon (salmo salar) during gonadal maturation	Aquaculture	Publicada	1873-5622	4.242
6	C.Sandoval, A.Vera, K.Birditt, K.Godoy, F.Carmine, J.Caamaño, J.Farias	2024	B-carotene supplementation improves pancreas function during moderate ethanol consumption: initial characterization from a morphological overview	International journal of molecular sciences	Publicada	1661-6596	6.208
7	N.Lefin, L.Herrera, J.Farias, J.Beltran	2023	Review and perspective on bioinformatics tools using machine learning and deep learning for predicting antiviral peptides	Molecular diversity	Publicada	1381-1991	2.5
8	M.Perez, A.Hernandez, P.Dantagnan, M.Silva, J.Risopatron, J.Farias, E.Figueroa, I.Valdebenito	2023	Chorion in fish: synthesis, functions and factors associated with its malformations	Aquaculture reports	Publicada	2352-5134 / 2352-5134	3.247
9	C.sandoval, f.torrens, k.godoy, c.reyes, j.farias	2023	Application of quantitative structure-activity relationships in the prediction of new compounds with anti-leukemic activity	International journal of molecular sciences	Publicada	1661-6596	6.208
10	J.beltran, l.herrera, j.farias, m.zamorano, n.lefin, j.miranda, f.parraguez	2023	Virushound-i: prediction of viral proteins involved in the evasion of host adaptive immune response using the random forest algorithm and generative adversarial network for data augmentation	Briefings in bioinformatics	Publicada	14774054	10.097
11	C.sandoval, c.reyes, p.rosas, k.godoy, v.souza, j.farias	2023	Effectiveness of cerium oxide nanoparticles in non-alcoholic fatty liver	International journal of	Publicada	1422-0067	6.208

			disease evolution using in vivo and in vitro studies: a systematic review	molecular sciences			
12	N.Lefin, J.Miranda, J.Beltran, L.Herrera, B.Effer, A.Pessoa, J.Farias, M.Zamorano	2023	Current state of molecular and metabolic strategies for the improvement of l-asparaginase expression in heterologous systems	Frontiers in pharmacology	Publicada	1663-9812	5.988
13	M.Tosta, L.Herrera, P.Letelier, Y.Calle, A.Pessoa, J.Farias	2023	L asparaginase as the gold standard in the treatment of acute lymphoblastic leukemia: a comprehensive review	Medical oncology	Publicada	1357-0560	4.137
14	C.Sandoval, K.Nahuelqueo, L.Mella, B.Recabarren, V.Souza-Mello, J.Farias	2023	Role of long-chain polyunsaturated fatty acids, eicosapentaenoic and docosahexaenoic, in the regulation of gene expression during the development of obesity: a systematic review	Frontiers in nutrition	Publicada	2296-861X	6.567
15	A.Pedroso, L.Herrera, J.Beltran, R.Castillo, A.Pessoa, E.Pedroso, J.Farias	2023	In silico design of a chimeric humanized l-asparaginase	International journal of molecular sciences	Publicada	1422-0067	6.208
16	N.Nojszewska, O.Idilli, D.Sarkar, Z.Ahouiyek, Y.Arroyo-Berdugo, C.Sandoval, M.Aminanjum, S.Bowers, D.Greaves, L.Saeed, M.Khan, S.Salti, S.Al-shami, H.Topoglu, J.Punzalan, J.Farias, Y.Calle	2023	Bone marrow mesenchymal/fibroblastic stromal cells induce a distinctive emt-like phenotype in aml cells.bone marrow stromal cells induce emt in aml	European journal of cell biology	Publicada	0171-9335	2.978
17	J.Machuca, J.Miranda, N.Lefin, A.Pedroso, J.Beltran, J.Farias	2023	Current status of omics in biological quality elements for freshwater biomonitoring	Biology-basel	Publicada	2079-7737	5.079
18	J.Beltran, A.Yañez, L.Herrera, F.Parraguez, J.Blanco, S.Flores, M.Zamorano, J.Farias	2023	Antibiotic discovery against piscirickettsia salmonis using a combined in silico and in vitro approach	Microbial pathogenesis	Publicada	0882-4010	3.703
19	J.miranda, n.lefin, j.beltran, l.herrera, a.tsipa, j.farias, m.zamorano	2023	Enzyme engineering strategies for the bioenhancement of l-asparaginase used as a biopharmaceutical	Biodrugs	Publicada	1179-190X	6.705
20	C.Sandoval, Y.Calle-Patino, K.Godoy, J.Farias	2023	An updated overview of the role of cyp450 during xenobiotic metabolization in	International journal of molecular sciences	Publicada	1422-0067	6.208

			regulating the acute myeloid leukemia microenvironment				
21	C.Sandoval, L.Mella, K.Godoy, K.Adeli, J.Farias	2022	B-carotene increases activity of cytochrome p450 2e1 during ethanol consumption	Antioxidants	Publicada	2076-3921	7.675
22	J.Norambuena, P.Poblete, J.Beltran, P.de los Rios, J.Farias	2022	Evidence of the anthropic impact on a crustacean zooplankton community in two north patagonian lakes	Sustainability-basel	Publicada	2071-1050	3.889
23	C.Sandoval, D.Guerrero, J.Muñoz, K.Godoy, V.Souza-Mello, J.Farias	2022	Effectiveness of mrna, protein subunit vaccine and viral vectors vaccines against sars-cov-2 in people over 18 years old: a systematic review	Expert review of vaccines	Publicada	2076-393X	5.539
24	C.Magnotti, V.Cerqueira, A.Villasante, J.Romero, I.Watanabe, R.Oliveira, J.Farias, O.Merino, I.Valdebenito, E.Figueroa	2022	Spermatological characteristics and effects of cryopreservation in lebranche mullet spermatozoa (mugil liza valenciennes, 1836): first report of ultra-rapid freezing	Animal reproduction science	Publicada	0378-4320	2.016
25	J, Quiñones, R, R.Díaz, JFB, L.Velazquez, D.Cancino, E.Muñoz, P.Dantagnan, A.Hernandez, N.Sepulveda, J.Farias	2022	Analysis of muscle lipidome in juvenile rainbow trout fed with rapeseed oil and cochayuyo meal	Biomolecules	Publicada	2218-273X	5.989
26	J.Beltran, F.Parraguez, J.Norambuena, L.Herrera, J.Risopatron, I.Valdebenito, E.Figueroa, J.Farias	2022	A bioinformatics analysis of the catsper channel in the class actinopterygii	Comparative biochemistry and physiology part a: molecular & integrative physiology	Publicada	1095-6433	2.419
27	J.Herrera, J.Farias, F.Parraguez, L.Herrera, J.Norambuena, J.Beltran	2022	Virvacpred: a web server for prediction of protective viral antigens	International journal of peptide research and therapeutics	Publicada	1573-3149	2.3
28	J.Herrera, J.Farias, F.Parraguez, L.Herrera, J.Beltran	2022	Pep-predna+: a web server for prediction of highly specific peptides targeting voltage-gated na+ channels using machine learning techniques	Computers in biology and medicine	Publicada	0010-4825	5.326
29	C.Sandoval, G.Rios, N.Sepúlveda, J.Salvo, C.Souza-Mello, J.Farias	2022	Effectiveness of copper nanoparticles in the healing process of chronic wounds on in	Pharmaceutics	Publicada	1999-4923	6.525

			vivo and in vitro studies: a systematic review				
30	O.Merino, J.Risopatron, I.Valdebenito, E.Figueroa, J.Farias	2022	Effect of the temperature of activation medium on fish sperm quality: impact on fertilization in vitro in aquaculture practice	Reviews in aquaculture	Publicada	1753- 5131	10.618
31	C.Sandoval, J.Farias, M.Zamorano, C.Herrera	2022	Vitamin supplements as a nutritional strategy against chronic alcohol consumption? An updated review	Antioxidants	Publicada	2076- 3921	7.675
32	O.Merino, J.Risopatron, I. Valdebenito, E. Figueroa, J.Farias	2022	Effect of the temperature of activation medium on fish sperm quality: impact on fertilization in vitro in aquaculture practice.	Reviews in aquaculture	Publicada	1753- 5131	10.618
33	J.Herrera, J.farias, C.Sandoval, L.Herrera, J.Quiñones, R.Diaz, J.Beltran	2022	Nachr-pep-pred: a robust tool for predicting peptide inhibitors of acetylcholine receptors using the random forest classifie	International journal of peptide research and therapeutics	Publicada	1573- 3149	2.3
34	A.Silva, M.Guimarães, J.Rabeloa, L.Herrera, J.Farias, C.Perecin, J.Santos, C.Rangel-Yagui	2022	Recent advances in the design of antimicrobial peptide conjugates	Journal of materials chemistry	Publicada	2050- 7518	9.219
35	C.Antileo, F.Jaramiilo, O.Candía, A.Osorio, C.Muñoz, J.Farias, J.Proal, Q.Zhang, S.Geissen	2022	Long-term nitrite- oxidizing bacteria suppression in a continuous activated sludge system exposed to frequent changes in ph and oxygen set-points	Journal of environmental management	Publicada	0301- 4797	7.875
36	L.Herrera, J.Beltrán, A.Pessoa Jr, R.Castillo, C.de Oliveira Rangel- Yagui, J. Farias	2022	Helicobacter pylori l- asparaginase: a study of immunogenicity from an in silico approach	Biotech	Publicada	2190- 572X	NA
37	L.Sandoval-Vargas, J.Risopatron, K.Dumorne, Jorge Farías , Elías Figueroa, Iván Valdebenito	2021	Spermatology And Sperm Ultrastructure In Farmed Coho Salmon (Oncorhynchus Kisutch)	Aquaculture	Publicada	0044- 8486	4.242
38	P.Contreras, M.Zamorano, P.Ulloa-Rodríguez, J.Beltrán, J.Risopatron, E.Figueroa, I.Valdebenito, J.Farias	2021	Diversity Of Chromatin Condensation Patterns, Nuclear Reorganization, Evolution And Phylogenetic Distribution Of Sperm Nuclear Basic Proteins In Fish	Reviews In Fish Biology And Fisheries	Publicada	1573- 5184	4.602
39	Letelier P, Guzmán N, Medina G,	2021	Workflow optimization in a clinical laboratory using	J Med Biochem.	Publicado	14528258	1.842

	Calcumil L, Huencho P, Mora J, Quiñones F, Jara J, Reyno C, Farías JG , Herrera BL, Brebi P, Riquelme I, San MA		Lean management principles in the pre-analytical phase				
40	Cancino-Baier, David, Muñoz, Erwin, Quiñones, John, Beltrán, Jorge F. , Fuentes, Fernanda, Farías, Jorge, Lorenzo, José Manuel, Diaz, Rommy, Inostroza, Karla, Ferraz, José Bento Serman and Sepúlveda, Néstor.	2021	A Non-Synonymous Single Nucleotide Polymorphism in Gene Alters FASN Enzyme Activity in Subcutaneous and Intramuscular Adipose Tissue in Holstein Friesian Steers	Annals of Animal Science	Publicado	2020-0059	2.09
41	M.Zamorano, R.Castillo, J.Beltran, I.Herrera, J.Farias, C.Antileo, C.Aguilar, A.Pessoa, Y.Calle, J.Farias	2021	Tackling ischemic reperfusion injury with the aid of stem cells and tissue engineering	Frontiers in physiology	Publicado	1664-042X	4.134
42	E.Ibañez, J.G. Farías	2021	Use of antioxidants and time of cold storage: effects over viability parameters and enzymatic levels in semen of rainbow trout (<i>oncorhynchus mykiss</i> , walbaum, 1792).	Brazilian Journal of Biology	Publicado	1678-4375	1.362
43	J.Beltran, M.Zamorano, L.Herrera, J.Risopatron, J.Norambuena, J.Farias.	2021	A differential proteomic study reveals the downregulation of several plasma membrane ca ²⁺ -binding proteins in the sperm of atlantic salmon (<i>salmo salar</i>) following cold storage	Aquaculture	Publicado	0044-8486	4.242
44	Sandoval-Vargas, L., Dumorne, K., Contreras, P., Farías, J. G. , Figueroa, E., Risopatron, J., Valdebenito, I.	2021	Cryopreservation of coho salmon sperm (<i>Oncorhynchus kisutch</i>): Effect on sperm function, oxidative stress and fertilizing capacity	Aquaculture	Publicado	0044-8486	4.242
45	Beltrán JF, Figueiras-Fierro D, Zamorano M, Herrera-Belén L, Risopatrón J, Valdebenito I, Norambuena J & Farías JG	2021	Role of three plasma membrane Ca ²⁺ - binding proteins in the sperm motility of Atlantic salmon (<i>Salmo salar</i>).	Aquaculture	Publicada	0044-8486	4.242
46	Herrera-Bravo J, Herrera-Belén L, Farías JG & Beltrán JF.	2021	TAP 1.0: A robust immunoinformatic tool for the prediction of tumor T-Cell antigens	Computational Biology and Chemistry	Publicada	14769271	2.442

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47	Díaz R, Quiñones J, Short S, Contreras P, Ulloa-Rodríguez P, Cancino-Baier D, Sepúlveda N, Valdebenito I, Fariás JG.	2021	Effect of exogenous lipids on cryotolerance of Atlantic salmon (<i>Salmo salar</i>) spermatozoa	Cryobiology	Publicada	0011-2240	2.487
48	Quinones, J. Diaz, R., Dantagnan, P., Hernandez, A., Valdes, M., Lorenzo, J.M. Cancino, D. Sepulveda, N. Fariás, J.G.	2021	Dietary inclusion inclusion of <i>Durvillaea antarctica</i> meal and rapeseed (<i>Brassica napus</i>) oil on growth, feed utilization and fillet quality of rainbow trout (<i>Oncorhynchus mykiss</i>)	Aquaculture	Publicada	0044-8486	4.242
49	Solis-Lufi, K., Suazo, M. J., Avila-Salem, M. E., Maldonado-Murúa, C., Aponte, H., Fariás, J. , & Rios-Escalante, P.	2021	Community structure of benthic invertebrates in the Allipén River basin, North Patagonia, Araucania region (38° S, Chile).	Brazilian Journal of Biology	Publicada	1519-6984	1.362
50	B.Effer , E.Krebs, G.Meira, I.Munhoz, I.Sánchez-moguel, A.Pessoa Junior, V.Feijoli, G.Palmisano, J.Fariás, G.Monteiro	2020	Glycosylation of erwinase results in active protein less recognized by antibodies	Biochemical Engineering Journal	Publicada	1369-703X	3.978
51	Lissabet, J.F.B., Belen, L. H., Fariás, J. G.,	2020	PPLK+C: A bioinformatics tool for predicting peptide ligands of potassium channels based on primary structure information	Interdisciplinary Sciences-Computational Life Sciences	Publicada	1867-1462	2.233
52	O. Merino , K. Dumorné, L. Sandoval-Vargas, E. Figueroa, I. Valdebenito, J. G. Farías, J. Risopatron	2020	Short-term storage sperm of coho salmon (<i>Oncorhynchus kisutch</i>) at 4 °c: effect of sperm, extender dilution ratios and antioxidant butylhydroxytoluene (bht) on sperm function	Cryobiology	Publicada	0011-2240	2.487
53	J. Beltran , L. Herrera, M. Lee, E. Figueroa, K. Dumorne, J. Fariás	2020	The voltage-gated t-type ca2+ channel is key to the sperm motility of atlantic salmon (<i>salmo salar</i>)	Fish Physiology And Biochemistry	Publicada	0920-1742	2.242
54	A. Zepeda , I. Miranda, I. Valdebenito, R. Moreno, J. Fariás	2020	Gnrha treatments of atlantic salmon broodstock suppresses effects of endocrine disruptors, benefitting offspring quality	Animal Reproduction Science	Publicada	0378-4320	2.145

55	S. Short , R. Díaz, J. Quiñones, J. Beltrán, J. G. Farías, S. P. Graether, L. A. Bravo	2020	Effect of <i>in vitro</i> cold acclimation of <i>deschampsia antarctica</i> on the accumulation of proteins with antifreeze activity	Journal of Experimental Botany	Publicada	0022-0957	6.992
56	W. Bravo , K. Dumorne, J. Beltran, P. Jara-seguel, J. Romero, J. Farias, J. Risopatron, I. Valdebenito, E. Figueroa	2020	Effects of selection by the percoll density gradient method on motility, mitochondrial membrane potential and fertility in a subpopulation of atlantic salmon (<i>salmo salar</i>) testicular spermatozoa	Animal Reproduction Science	Publicada	0378-4320	2.145
57	JFB. Lissabet , L. Herrera, M. Lee-Estévez, J. Risopatron, I. Valdebenito, E. Figueroa J. Farias,	2020	The catsper channel is present and plays a key role in sperm motility of the atlantic salmon (<i>salmo salar</i>)	Comparative Biochemistry And Physiology	Publicada	1532-0456	2.897
58	J.F.B. Lissabet, LH. Beleb, M. Lee – Estévez, J. Farias	2020	Role of voltage-gated I-type calcium channel in the spermatozoa motility of atlantic salmon (<i>salmo salar</i>)	Comparative Biochemistry And Physiology	Publicada	1532-0456	2.897
59	Figueroa, E., Lee-Estevez, M., Valdebenito, I., Farias, JG. , Romero, J.	2020	Potential biomarkers of DNA quality in cryopreserved fish sperm: impact on gene expression and embryonic development	Reviews In Aquaculture	Publicada	1753-5123	10.592
60	Belen, LH., Lissabet, JFB., Rangel-Yagui, CD., Monteiro, G., Pessoa, A., Farias, JG.	2020	Immunogenicity assessment of fungal L-asparaginases: an in silico approach	Sn Applied Sciences	Publicada	2523-3971	
61	L. Herrera Belen , C. Rangel-Yagui, J.F.B. Lissabet, B. Effer, M. Lee-Estévez, A. Pessoa, R. Castillo, J. Farias ,	2019	From synthesis to characterization of site-selective pegylated proteins	Frontiers In Pharmacology	Publicada	1663-9812	4.225
62	J. Norambuena , J. Farias, P.De Los Ríos	2019	The water flea daphnia pulex (cladocera, daphniidae), a possible model organism to evaluate aspects of freshwater ecosystems	Crustaceana	Publicada	0011-216X	0.559
63	Beltran , L., Felix J., Herrera L., Farias, J.	2019	Ttagp 1.0: a computational tool for the specific prediction of tumor t cell antigens	Computational Biology And Chemistry	Publicada	1476-9271	1.850
64	Lee-Estevez, M., Herrera, L., Diaz, R., Beltran, J., Figueroa, E., Dumorne, K., Ulloa-Rodriguez, P.,	2019	Effects of cryopreservation on camp-dependent protein kinase and amp-activated protein kinase	Animal Reproduction Science	Publicada	0378-4320	1.660

	Short, S., Risopatron, J., Valdebenito, I., Farias, J.		in atlantic salmon (salmo salar) spermatozoa: relation with post-thaw motility				
65	P. Contreras , K. Dumorne, P. Ulloa, O. Merino, E. Figueroa, J. Farias, I. Valdebenito, J. Risopatron.	2019	Effects of short-term storage on sperm function in fish semen: a review	Reviews In Aquaculture	Publicada	1753-5131	7.772
66	E. Figueroa , J M. Lee-Estévez, I. Valdebenito, I. Watanabe, R.P.S. Oliveira, J. Romero, R.L. Castillo, Farias, JG.	2019	Effects of cryopreservation on mitochondrial function and sperm quality in fish	Aquaculture	Publicada	0044-8486	3.225
67	R. Díaz , M. Lee-Estevez, J. Quiñones, K. Dumorne, S. Short, P. Ulloa, I. Valdebenito, N. Sepulveda, J. Farias	2019	Changes in atlantic salmon (salmo salar) sperm morphology and membrane lipid composition related to cold storage and cryopreservation	Animal Reproduction Science	Publicada	0378-4320	1.660
68	JFB. Lissabet , Belen LH., J.Farias	2019	Antivpp 1.0: a portable tool for prediction of antiviral peptides	Computers In Biology And Medicine	Publicada	0010-4825	3.434
69	P. Ulloa , P. Contreras, K. Dumorné, E., Figueroa J., Risopatron, I., Valdebenito, Farias J.	2019	Sperm morphology and ultrastructure of patagonian blenny (eleginops maclovinus)	Tissue And Cell	Publicada	0040-8166	1.837
70	M. Lee-Estevez, G. Larama, E. Figueroa, P. Ulloa-Rodríguez, R. Díaz, I. Valdebenito, JG. Farías.	2019	Complete mitochondrial genome sequence of Patagonian blenny, <i>Eleginops maclovinus</i> (Perciformes: Eleginopidae) with phylogenetic consideration.	Conservation Genetics Resources	Publicada	1877-7252	0.742
71	P.De Los Ríos , K.Solis, R.Rodríguez, J.Farias	2019	First report on seasonal abundance of malacostracans in the allipén river (38°51s, north patagonia, Araucania region, Chile)	Crustaceana	Publicada	0011-216X	0.559
72	R. Castillo , M. Ibacache, I. Cortínez, C. Carrasco-Pozo, J. Farias, R. Carrasco, P. Vargas-Errázuriz, D. Ramos, R. Benavente, D. Torres, A. Mendez	2019	Dexmedetomidine improves cardiovascular and ventilatory outcomes in critically ill patients: basic and clinical approaches	Frontiers In Pharmacology	Publicada	1663-9812	4.225

73	L. Herrera, J. Beltran, C. de Oliveira Rangel-Yanguí, B. Effer, G. Monteiro, A. Pessoa, J. Farias,	2019	A structural in silico analysis of the immunogenicity of l-asparaginase from <i>escherichia coli</i> and <i>erwinia carotovora</i>	Biologicals	Publicada	1045-1056	1.801
74	P. De Los Ríos, J.Farias, M.Suazo	2019	First fecundity observations on female copepods from three northern patagonian lakes (pellaifa, calafquén, panguipulli; Chile)	Crustaceana	Publicada	0011-216X	0.559
75	P. De Los Ríos, J.Farias, M.Suazo	2019	Observations on crustacean zooplankton in two connected north patagonian lakes (calafquén-pellaifa, 39°s, Chile)	Crustaceana	Publicada	0011-216X	0.559
76	J.Farias, P.De Los Ríos, M.Suazo	2019	Spatial distribution of aegla rostrata jara, 1977 (decapoda, anomura, aeglidae) in the littoral of pullinque lake (39°s, north patagonia, Chile)	Crustaceana	Publicada	0011-216X	0.559
77	B. Effer, G. Meira, S. Cabarca, A. Pessoa, J. Farias, G. Monteiro	2019	L-asparaginase from E. chrysanthemi expressed in glycoswitch: effect of his-tag fusion on the extracellular expression	Preparative Biochemistry And Biotechnology	Publicada	1082-6068	1.415
78	Durmoné K, Figueroa E., Figueroa E., Cosson J., Lee-Estevez M., Ulloa-Rodriguez P., Valdebenito I, Farias JG.	2018	Protein phosphorylation and ions effects on salmonid sperm motility activation.	Reviews in aquaculture	Publicada	1753-5123	7.139
79	Lee-Estevez M, Figueroa E, Cosson J, Short S, Valdebenito I, Ulloa PH and Farías JG.	2018	Zebrafish as a useful model for immunologic research with potential applications in aquaculture.	Reviews in Aquaculture	Publicada	1753-5123	7.139
80	Magnotti, C. Vinicius, C. Lee-Estevez, M., Farias, JG. Valdebenito, I. and Figueroa, E.	2018	Cryopreservation and vitrification of fish semen: a review with special emphasis on marine species.	Reviews in Aquaculture	Publicada	1753-5123	7.139
81	Farias JG, Zepeda A, Castillo R., Figueroa E, Ademoyero OT, Pulgar VM.	2018	Chronic hypobaric hypoxia diminishes the expression of base excision repair OGG1 enzymes in spermatozoa.	Andrologia	Publicada	0303-4569	1.588
82	Risopatrón J, Merino O, Cheuquemán C, Figueroa E, Sánchez R, Farías JG, Valdebenito I.	2018	Effect of the age of broodstock males on sperm function during cold storage in the trout (<i>Oncorhynchus mykiss</i>).	Andrologia	Publicada	0303-4569	1.588

83	J.Farias, R.Diaz, M.Lee, E.Figueroa, P.Ulloa, N.Sepulveda	2018	Study of the membrane lipid composition of atlantic salmon (<i>salmo salar</i>) spermatozoa and its relation with semen quality	AQUACULTURE RESEARCH	Publicado	1355-557X	1.475
84	J.Farias, E.Figueroa, M.Lee, I.Valdebenito, J.Risopatron, C.Magnotti, J.Romero, I.Watanabe, R.Oliveira	2018	Sperm cryopreservation with supplementation of α -tocopherol and ascorbic acid in freezing media increase sperm function and fertility rate in atlantic salmon (<i>salmo salar</i>)	AQUACULTURE	Publicado	0044-8486	2.71
85	J.Farias, C.Magnotti, E.Figueroa, O.Merino, I.Valdebenito, R.Oliveira, V.Cerqueira	2018	Sperm characteristics of wild and captive lebranche mullet mugiliza (valenciennes, 1836), subjected to sperm activation in different ph and salinity conditions	ANIMAL REPRODUCTION SCIENCE	Publicado	0378-4320	1.647
86	J.Farias, J.Risopatron, K.Dumorne, I.Valdebenito, E.Figueroa, R.Diaz	2018	Morphology and ultrastructure of pink cusk-eel (<i>genypterus blacodes</i> , schneider 1801) spermatozoa by scanning and transmission electron microscopy	TISSUE & CELL	Publicado	0040-8166	1.438
87	J.Farias, P.Ulloa, P.Contreras, K.Dumorné, M.Lee, R.Diaz, E.Figueroa, I.Valdebenito, J.Risopatron	2018	Patagonian blenny (<i>eleginops maclovinus</i>) spermatozoa quality after storage at 4 oc in cortland medium	ANIMAL REPRODUCTION SCIENCE	Publicado	0378-4320	1.647
88	J.Farias, A.Zepeda, A.Pessoa	2018	Carbon metabolism influenced for promoters and temperature used in the heterologous protein production using pichia pastoris yeast	BRAZILIAN JOURNAL OF MICROBIOLOGY	Publicado	1517-8382	1.81
89	J.Farias, A.Pessoa, A.Zepeda, C.Figueroa	2018	Free fatty acids reduce metabolic stress and favor a stable production of heterologous proteins in pichia pastoris	BRAZILIAN JOURNAL OF MICROBIOLOGY	Publicado	1517-8382	1.81
90	Manuel Lee-Estevez, Giovanni Larama, Elías Figueroa, Patricio Ulloa-Rodríguez, Rommy Díaz, Iván Valdebenito, Jorge G. Farías.	2017	Complete mitochondrial genome sequence of Patagonian blenny, <i>Eleginops maclovinus</i> (Perciformes: Eleginopidae) with phylogenetic consideration.	Conservation Genetics Resources	Publicada	1877-7252	0.742
91	Díaz R, Torres MA, Paz E, Quiñones J,	2017	Dietary inclusion of fish oil changes the semen lipid composition but	Animal Reproduction Science	Publicada	0378-4320	1.647

	Bravo S, Farias JG, Sepúlveda N.		does not improve the post-thaw semen quality of ram spermatozoa.				
92	Farias JG, Zepeda A, Castillo R., Figueroa E, Ademoyero OT, Pulgar VM.	2017	Chronic hypobaric hypoxia diminishes the expression of base excision repair OGG1 enzymes in spermatozoa.	Andrologia	Publicada	0303-4569	1.588
93	Risopatrón J , Merino O, Cheuquemán C, Figueroa E, Sánchez R, Farías JG, Valdebenito I.	2017	Effect of the age of broodstock males on sperm function during cold storage in the trout (<i>Oncorhynchus mykiss</i>).	Andrologia	Publicada	0303-4569	1.588
94	Durmoné K, Figueroa E., Figueroa E., Cosson J., Lee-Estevéz M., Ulloa-Rodríguez P., Valdebenito I, Farias JG.	2017	Protein phosphorylation and ions effects on salmonid sperm motility activation.	Reviews in aquaculture	Publicada	1753-5123	7.139
95	Ulloa-Rodríguez P, Figueroa E, Díaz R, Lee-Estevéz M, Short S, Farías JG.	2017	Mitochondria in teleost spermatozoa.	Mitochondrion	Publicada	1567-7249	3.226
96	Lopes, A.M. , L. de Oliveira, A. Ribeiro, C.A. Tairum Jr., C.A. Breyer, M.A. de Oliveira, G. Monteiro, C.M. de Souza-Motta, P. de Oliveira, J.G. Farías, A.M. Cavaco.Paulo, P. Mazzola, C. de Oliveira, L.D. Sette, A. Converti & A. Pessoa-Junior.	2017	Therapeutic L-asparaginase: upstream, downstream and beyond.	Critical Reviews in Biotechnology	Publicada	0738-8551	5.239
97	Merino O, Figueroa E, Cheuquemán C, Valdebenito I, Isachenko V, Isachenko E, Sánchez R, Farías J, Risopatrón J.	2017	Short-term storage of salmonids semen in a sodium alginate-based extender.	Andrologia	Publicada	0303-4569	1.588
98	P. Contreras, P. Ulloa, O. Merino, I. Valdebenito, E. Figueroa, J. Farías, J. Risopatrón.	2017	Effect of short-term storage on sperm function in Patagonian blenny (<i>Eleginops maclovinus</i>) sperm.	Aquaculture	Publicada	0044-8486	2.710
99	Farías JG, Molina VM, Carrasco RA, Zepeda AB, Figueroa E, Letelier P, Castillo RL.	2017	Antioxidant Therapeutic Strategies for Cardiovascular Conditions Associated with Oxidative Stress.	Nutrients	Publicada	2072-6643	4.196

100	Valdebenito I, Cosson J, Contreras P, Sanchez JC, Oliveira RP, Risopatron J, Farias JG, Figuroa E.	2016	Spermatological research of experimentally farmed Patagonian blenny (Eleginops maclovinus) (Perciformes: Eleginopsidae) in Chile.	Aquaculture research	Publicada	1355-557X	1.475
101	Farías, J.G., E.A. Herrera, C. Carrasco-Pozo, R. Sotomayor-Zárate, G. Cruz, P. Morales & R.L. Castillo.	2016	Pharmacological models and approaches for pathophysiological conditions associated with hypoxia and oxidative stress.	Pharmacology & Therapeutics	Publicada	0163-7258	10.376
102	Lee-Estevez M, Figuroa E, Cosson J, Short S, Valdebenito I, Ulloa PH and Farías JG.	2016	Zebrafish as a useful model for immunologic research with potential applications in aquaculture.	Reviews in Aquaculture	Publicada	1753-5123	7.139
103	Magnotti, C. Vinicius, C. Lee-Estevez, M., Farias, JG. Valdebenito, I. and Figuroa, E.	2016	Cryopreservation and vitrification of fish semen: a review with special emphasis on marine species.	Reviews in Aquaculture	Publicada	1753-5123	7.139
104	Figuroa, E. Valdebenito, I. Merino, O. Ubilla, A, Risopatrón J. & Farias J.G.	2016	Cryopreservation of Atlantic salmon <i>Salmo salar</i> sperm: Effects on sperm physiology.	Journal of Fish Biology	Publicada	0022-1112	1.702
105	Mazzola, PG. Cavaco-Paulo, A. Farías, JG. and Pereira, JF.	2016	Upstream and Downstream of Recombinants Biomolecules to Health Care Industry.	BioMed Research International.	Publicada	2314-6133	2.583
106	Farias JG, Carrasco-Pozo C., Sepúlveda N, Alvarez P, Quezada M, Quiñones J, Molina V and Castillo RL.	2016	Polyunsaturated fatty acid induces cardioprotection against ischemia-reperfusion through the inhibition of NF-kappaB and induction of Nrf2.	Experimental Biology and Medicine	Publicada	1535-3702	2.413
107	Letelier P., Riquelme I, Hernández AH, Guzmán N, Farías JG, Roa JC.	2016	Circulating MicroRNAs as Biomarkers in Biliary Tract Cancer.	International Journal of <i>Molecular Sciences</i>	Publicada	1422-0067	3.687
108	Figuroa, E., I. Valdebenito, A.B. Zepeda, C.A. Figuroa, K. Dumorné, R.L. Castillo & J.G. Farías.	2015	Effects of cryopreservation on mitochondria of fish spermatozoa.	Reviews in Aquaculture (<i>Early online</i>).	Publicada	1753-5123	7.139
109	Herrera, E.A., J.G. Farías, G. Ebensperger, R.V.	2015	Pharmacological approaches in either intermittent or	Pharmacological Research	Publicada	1043-6618	4.897

	Reyes, A.J. Llanos & R.L. Castillo.		permanent hypoxia: A tale of two exposures.				
110	Calaf, G.M., A.B. Zepeda, R.L. Castillo, C.A. Figueroa, C. Arias, E. Figueroa & J.G. Farías.	2015	Molecular aspects of breast cancer resistance to drugs (Review).	International Journal of Oncology	Publicada	1019-6439	3.333
111	Figueroa, E., I. Valdebenito & J.G. Farías.	2015	Technologies used in the study of sperm function in cryopreserved fish spermatozoa.	Aquaculture Research (<i>Early online</i>)	Publicada	1355-557X	1.475
112	Herrera, E.A., J.G. Farías, A. González-Candia, S. Short, C. Carrasco-Pozo & R.L. Castillo.	2015	Ω3 supplementation and intermittent hypobaric hypoxia induce cardioprotection enhancing antioxidant mechanisms in adult rats.	Marine Drugs	Publicada	1660-3397	4.379
113	Castillo, R.L., A.B. Zepeda, S.E. Short, E. Figueroa, E. Bustos-Obregón & J.G. Farías.	2015	Protective effects of polyunsaturated fatty acids supplementation against testicular damage induced by intermittent hypobaric hypoxia in rats.	Journal of Biomedical Sciences	Publicada	1021-7770	3.466
114	Figueroa, E., O. Merino, J. Risopatrón, V. Isachenko, R. Sánchez, B. Effer, E. Isachenko, J.G. Farías & I. Valdebenito.	2015	Effect of seminal plasma on Atlantic salmon (<i>Salmo salar</i>) sperm vitrification.	Theriogenology	Publicada	0093-691X	2.136
115	Zepeda, A.B., G.M. Calaf, C.A. Figueroa & J.G. Farías.	2014	Blueberries prevent the effect of intermittent hypobaric hypoxia in rat epididymis.	Andrologia	Publicada	0303-4569	1.441
116	Álvarez, P., L. Tapia, L.A. Mardones, J.C. Pedemonte, J.G. Farías & R.L. Castillo.	2014	Cellular mechanisms against ischemia reperfusion injury induced by the use of anesthetic pharmacological agents.	Chemico-Biological Interactions	Publicada	0009-2797	3.296
117	Zepeda, A.B., C.A. Figueroa, D. Abdalla, A. Maranhao, P. Ulloa, A. Pessoa & J.G. Farías.	2014	Biomarkers to evaluate the effects of temperature and methanol on recombinant <i>Pichia pastoris</i> .	Brazilian Journal of Microbiology	Publicada	1517-8382	1.810
118	Zepeda, A.B., C.A. Figueroa, D. Abdalla, A. Maranhao, P. Ulloa, A. Pessoa & J.G. Farías.	2014	HSF-1, HIF-1 and HSP90 expression on recombinant <i>Pichia pastoris</i> under fed-batch fermentation.	Brazilian Journal of Microbiology	Publicada	1517-8382	1.810
119	Castillo, R.L., C. Arias & J.G. Farías.	2014	Omega 3 chronic supplementation attenuates myocardial ischaemia-reperfusion	Cell Biochemistry and Function	Publicada	0263-6484	2.186

			injury through reinforcement of antioxidant defense system in rats.				
120	Zepeda, A.B., C.A. Figueroa, G. Calaf & J.G. Farías.	2014	Male reproductive system and antioxidants in oxidative stress induced by hypobaric hypoxia.	Andrologia	Publicada	0303-4569	1.588
121	Weinacker, D., C. Rabert, A.B. Zepeda, C. Figueroa & J.G. Farías.	2013	Application of recombinant <i>Pichia pastoris</i> in the healthcare industry.	Brazilian Journal of Microbiology	Publicada	1517-8382	1.810
122	Zepeda, A., A. Pessoa, R.L. Castillo, C.A. Figueroa, V.M. Pulgar & J.G. Farías.	2013	Cellular and molecular mechanism in the hypoxic tissue: role of HIF-1 and ROS.	Cell Biochemistry and Function	Publicada	0263-6484	2.186
123	Pino, J.A., N. Osses, D. Oyarzun, J.G. Farías, R.D. Moreno & J.G. Reyes.	2013	Differential effects of temperature on reactive oxygen/nitrogen species production in rat pachytene spermatocytes and round spermatids.	Reproduction	Publicada	1470-1626	3.086
124	Rabert, C., D. Weinacker & J.G. Farías.	2013	Recombinants proteins for industrial uses: utilization of <i>Pichia pastoris</i> expression system.	Brazilian Journal of Microbiology	Publicada	1517-8382	1.810
125	Romo, E., D. Weinacker, A.B. Zepeda, P. Chavez-Crooker & J.G. Farías	2013	Bacterial consortium for copper extraction from sulphide ore consisting mainly of chalcopyrite.	Brazilian Journal of Microbiology	Publicada	1517-8382	1.810
126	Farías, J.G. , D. Jiménez, J. Osorio, A.B. Zepeda, C. Figueroa & V. Pulgar.	2013	Acclimatization to chronic intermittent hypoxia in mine workers: a challenge to mountain medicine in Chile.	Biological Research	Publicada	0716-9760	2.357
127	Reyes, J.G. , J.G. Farías, S. Henriquez-Olavarrieta, E.M. Madrid, M. Parraga, A.B. Zepeda & R. Moreno.	2012	The hypoxic testicle: physiology and pathophysiology.	Oxidative Medicine and Cellular Longevity	Publicada	1942-0900	4.936
128	Farías, J.G. , A.B. Zepeda & G.M. Calaf.	2012	Melatonin protects the heart, lungs and kidneys from oxidative stress under intermittent hypobaric hypoxia in rats.	Biological Research	Publicada	0716-9760	1.328
129	Zepeda, A., L.G. Aguayo, J.	2012	Blueberry extracts protect testis from	Oxidative Medicine and	Publicada	1942-0900	4.936

	Fuentealba, C. Figueroa, A. Acevedo, P. Salgado, G.M. Calaf & J.G. Farías.	hypobaric hypoxia induced oxidative stress in rats.	Cellular Longevity				
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OTRAS

1	R.Castillo, D.Henriquez, A.Mendez, J.Farias, C.Carrasco-pozo	2019	Pro-oxidant and pro-inflammatory micro-rnas profile as a risk factor for postoperative atrial fibrillation	Journal Of Clinical And Molecular Medicine	Publicada	2516-5593	-
2	J.Farias, A.Zepeda	2013	Antioxidants against oxidative stress induced by hypobaric hypoxia in testis and epididymis.	Revista De Farmacología De Chile	Publicada	0718 - 8811	-

Libros y capítulos de libro (agrupar por tipo de publicación):

N°	Autor(es)	Año	Título del capítulo y/o libro	Lugar	Editorial	Estado
1	C.Sandoval, J.Farias, M.Zamorano, C.Herrera	2022	Prime archives in biochemistry, vitamin supplements as a nutritional strategy against chronic alcohol consumption? An updated review	India	Vide Leaf	Publicado
2	E.Figueroa, L.Sandoval, O.Merino, J.Farias, I.Valdebenito, J.Risopatron	2020	Reproductive technologies in animals. , standard and innovative reproductive biotechnologies for the development of finfish farming	Irlanda	Elsevier Science Publishers B.V.	Publicado
3	Moreno, R.D., J.G. Reyes, J.G. Farías, A. Parada- Bustamante, V. Aguirre, A.B. Zepeda, C.A. Figueroa & J.A. Pino.	2012	Spermatogenesis at the Extreme: Oxidative Stress as a Converging Mechanism of Testicular Damage Due to Pathological and Environmental Exposure. In: Yoichi Nemoto and Norio Inaba. (Org.). Testis: Anatomy, Physiology and Pathology. 201ed	Hauppauge, New York	Nova Science Publishers	Publicado

Otras publicaciones (por ejemplo, revistas con referato, obras u otras –indicando cuales-, agrupar por tipo de publicación):

N°	Autor(es)	Año	Título de la publicación	Lugar	Editorial	Estado	Otro aspecto pertinente
-	-	-	-	-	-	-	-

Patentes:

N°	Inventor(es)	Nombre patente	Fecha de solicitud	Fecha de publicación	N° de registro	Estado
-	-	-	-	-	-	-

Listado de proyectos de investigación ³ en los últimos 10 años	Título	Fuente de financiamiento	Año de adjudicación	Período de ejecución	Rol en el proyecto (investigador responsable/director, co-investigador, etc.)
	Artificial intelligence aided cell instructive biomaterial scaffolds for bone regeneration	FONDECYT	2024	2024-2027	Investigador responsable
	Potenciación de la investigación en geometría compleja y sus interacciones: estudio de los grupos de automorfismos de superficies k3.	PROGRAMA DE ATRACCIÓN E INSERCIÓN DE CAPITAL HUMANO AVANZADO DE CONICYT	2023	2023-2026	Investigador responsable
	Terapia antioxidante y anti-inflamatoria contra la enfermedad hepática alcohólica utilizando beta-caroteno e indol-3-carbinol	PROYECTOS DIUFRO	2022	2022-2025	Co-Investigador
	Optimization of sperm cells harvesting from testicular macerate to improve artificial fertilization of eggs in salmo salar	PROYECTOS DIUFRO	2021	2021-2024	Investigador responsable
	Study of the relation of the nutrition of breeders with the incidence of malformations, ultrastructural and molecular changes of the chorion in embryos of atlantic salmon (salmo salar).	FONDECYT	2021	2021-2024	Co-Investigador
	Chimeric and pegylated L-asparaginases: study of the conditions of expression, production and purification of an innovative anti-leukemic biopharmaceutical with low immunogenic potential.	FAPESP-UFRP	2021	2021-2023	Investigador responsable
	Estudio del efecto de la temperatura de activación de los espermatozoides de Salmo salar y Oncorhynchus kisutch: Impacto en función, estado energético, capacidad fecundante y expresión génica de los espermatozoides y resultado reproductivo	FONDECYT	2021	2021-2024	Research advisor: Jorge Farías. Postdoctorate Fellowship
	Inclusión de brassica napus y durvillaea antarctica como ingredientes sustentables en la alimentación de trucha arcoiris (oncorhynchus mykiss) y su efecto sobre	FONDECYT	2019	2019-2022	Investigador patrocinante

³ Se consideran proyectos adjudicados y/o en ejecución en el período solicitado.

el metabolismo lipídico del filete				
Study of the flagellar dynamic in the spermatozoa of fish to improve reproductive efficiency in Chilean aquaculture.	FONDECYT	2018	2018-2021	Investigador responsable
How would experimental warming affect freezing tolerance of Antarctic vascular plants?	FONDECYT	2015	2015-2018	Coinvestigador
Study of the mitochondrial dynamics in the spermatozoa of fish for the optimization of reproduction in Chilean aquaculture.	FONDECYT	2015	2015-2018	Investigador Responsable
Drug panel for resistance cancer cells and genomic instability in breast carcinogenesis.	FONDECYT	2012	2012-2015	Coinvestigador
Medio de preservación de semen de peces para el manejo y almacenamiento in vitro.	FONDEF	2018	2018-2018	Asesor científico técnico
Extremophytes: The new promising models for discovering stress tolerance mechanisms and bioactive compounds.	NEXER	2017	2017-2020	Co-investigador
Bioprospecting of bacteriocin-producer probiotic bacteria from rainbow trout (<i>Oncorhynchus mykiss</i>): antimicrobial activity against <i>Flavobacterium psychrophilum</i>	FAPESP-UFRO	2021	2021-2022	Investigador Responsable
Production of extracellular L-asparaginase: from bioprospecting to the engineering of an antileukemic biopharmaceutical.	FAPESP	2014	2014-2019	Investigador Asociado Internacional
Producción y purificación de proteínas recombinantes de interés farmacéutico.	FAPESP	2014	2014-2015	Director
Production of recombinant antibody fragments from <i>Pichia</i>	FAPESP	2012	2012-2017	Investigador Asociado Internacional

	pastoris cultivation of genetically modified.				
	Optimization of sperm cells harvesting from testicular macerate to improve artificial fertilization of eggs in Salmo salar	DIUFRO	2021	2021-2022	Investigador Responsable
	Programa de Cooperación Internacional.	DID-UFRO	2012	2012-2013	Director