SOFARCHI 2026 Congress

Poster Session

Thursday, December 3, 2026 · 48 posters

No.	Title	Authors	Pharmacology area
1	Ivabradine-derived dihydroxybenzoate salts as novel modulators of HCN channels	Danitza Rebolledo-Mira 1, Rafael Zuñiga 2, Christina Mits 3, Oscar Forero-Doria 4, Whitney Venturini 5, Leandro Zuñiga 1,2,6	Medicinal chemistry
2	Adolescent Ketamine Exposure Impairs Spatiotemporal Integration and Neuronal Excitability of pyramidal neurons in Adult Mice Prefrontal Cortex	Felipe Guiffa-Gómez 1, Sashá van Buuren1, Freddy Aguilar1, Koyam Morales-Weil2, and Marco Fuenzalida1.	Neuropharmacology
3	Doxorubicin-Induced Cardiac Atrophy Is Associated with Altered Mitochondrial Localization in Female Mice	Luna R. 1, Salgado O. 1, Mancilla G. 1, Pedrozo Z. 1,2, Olmedo I. 1,3	Cardiovascular pharmacology
4	Inhibitory activity of alkaloid extracts from introduced Amaryllidaceae on acetylcholinesterase and butyrylcholinesterase	Mella M. 1,2; Pradines V. 4; Farías J. 3; Hormazábal E. 1,2	Ethnopharmacology
5	Blockade of glutaminolysis or β-oxidation during Xenopus laevis neurulation causes neural tube defects (NTDs) and cranial or caudal alterations dependent on the anteroposterior metabolic gradient	Valdivia G. 1; Catrupay C. 1; Fuentes N. 1; Benavente E. 1; Castro P.A. 1	Neuropharmacology
6	Arsenic Nanocompounds: characterization and in vitro assays in breast cancer	Cerda, D.1,2 ; Avendaño, P.2 ; Veliz, F.2 ; Marín. S2; Coddou. C.1 ; Demergasso. C.2	Biopharmaceuticals
7	Studying the role of dopamine depletion on quinpirol-induced compulsive behaviors in mice	Cerda-Maluenda P (1); Moya P.R. (2,3); Escobar A.P. (2,3,4)	Neuropharmacology
8	Effect of doxycycline on mitochondrial dynamics in neonatal rat cardiac fibroblasts	Espinoza A. ; Ramírez N. ; Rivas S. ; Díaz Araya G.	Molecular pharmacology
9	Prenatal THC exposure leads to deficits in maternal interaction and infant vocalizations	Enzo Pérez-Valenzuela, Mackenzie Mann, Abigail Fisher, Daniel Hardy, and Steven R. Laviolette	Neuropharmacology
10	The pharmacological antagonism of adenosine A2B receptor attenuates inflammatory cascade in experimental diabetic nephropathy	Rehbein B. 1; Pérez V. 1; Venegas C. 1; San Martín R. 1	Molecular pharmacology
11	Design of antimicrobial peptides using artificial intelligence and evaluation of their activity against Piscirickettsia salmonis	Jorge Félix Beltrán Lissabet	Medicinal chemistry
12	Chemical characterization and evaluation of the antioxidant activity of the ethanolic extract of *Fuchsia magellanica* Lam. leaves obtained in Chiloé, Los Lagos Region, Chile	Diego Rojas-Adones [1,2], Daniela Canales Peña [1,2], Javier Acevedo Hernández[2], Carla Díaz-Martínez [1], Carla Fonfach Badinella[1], Isadora León Poblete[1], Mariana Vergara Rojas[1], Juan Francisco Orellana[1], Javier Rojas Prieto[1], Maira Vidal Ocare[1], Mabel Catalán Díaz[1] y Gabriela Valenzuela-Barra [2]	Ethnopharmacology
13	Prenatal undernutrition impairs ovarian function in adult Sprague-Dawley rats by altering folliculogenesis and steroidogenesis	Maryori Villavicencio1,2, Alfonso Paredes1 y Rafael Barra2	Endocrine pharmacology
14	Silencing of mitSVCT2 alters mitochondrial redox homeostasis and cell proliferation in a triple-negative breast cancer cell line	Miranda V. P. 1; Alarcón-Navarro C. 1; Arriagada S. P. 1,2; Rivas C. I. 1	Molecular pharmacology

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15	MDMA (3,4-methylenedioxymethamphetamine, “ecstasy”)-assisted psychotherapy for the treatment of post-traumatic stress disorder: current status and clinical perspectives	Silva-Rodríguez A. 1,2; Valdés-Sandoval A. 2; Hernández A. 3; Sáez-Briones P. 1.	Clinical pharmacology
16	Anxiolytic effect of St. John’s wort in a zebrafish model	Cepeda G. 1; Perez L. 1,2; Iturriaga-Vasquez P. 1	Neuropharmacology
17	Quercetin reduces gallbladder cancer cell viability and Endothelin-1-induced migration	Asencio L.1; Ruiz-Uribe M.1; Lopez-Muñoz R.2; Niechi I.1	Biopharmaceuticals
18	Extended characterisation of the influence of aromatic bromination on the effects of the entactogen MDMA (3,4-methylenedioxymethamphetamine, "ecstasy") on helping behaviour in Sprague-Dawley rats	Jara-Clen D. 1,2; Silva-Rodríguez A. 1,2; Navarro-González J. 1,2; Rosillo-Amaro J. 1,2; Ahumada-Rodríguez F. 1,2; Betancourt-Concha I. 1,2; Livacic-Rojas P. 2; Burgos H. 3; Sáez-Briones P. 1.	Neuropharmacology
19	Role of complex III and the glycerol-3-phosphate shuttle in D-lactate-induced mitochondrial ROS and NET release in bovine neutrophils: andrographolide as a mitochondrial modulator	Guíñez B. 1; Quiroga J. 1; González-Seguel C. 1; Teuber S. 1; Alarcón P. 1; Burgos R.A. 1	Veterinary pharmacology
20	Obesity enhances tamoxifen-induced neutrophil extracellular trap formation and PAD4 expression in horses with asthma	Moran G.; Bernal V.; Albornoz A.; Henriquez C.	Immunopharmacology
21	Metabolic Alterations Induced by Andrographolide in T-Cell Acute Lymphoblastic Leukemia Cell Lines: Insights into Its Antineoplastic Mechanisms	González-Seguel C. 1-2; Quiroga J.1; Guíñez B.1; Alarcón P.1; Touber S.1; Ehrenfeld P.2; Burgos R.A.1	Clinical pharmacology
22	AI-driven design and experimental characterization of peptides targeting beta-amyloid aggregation	Gavilán J.1; Oviedo-Pino V.1; Fuentes S.1; Santana P.2; Moraga G.3; Ramírez D.1	Neuropharmacology
23	Oral cancer-derived mitochondrial transfer to $CD4^+$ T cells: exploring MAM-associated Ca^{2+} signalling as a pharmacological target	Panes-Fernández J.D.[1]; Sanhueza S.[1]; Quiroga R.[1]; Nova-Lamperti E.[1]	Molecular pharmacology
24	In vivo and in vitro effects of nutrient restriction on macrophage phenotype and mitochondrial function under obesogenic conditions	Grau-Grass, A.1, Briones-Manríquez, F.1, Almarza, G.1, Ibarra-Barahona, I.1, Araya, M.J.2,3, Luz-Crawford, P.2,3, & del Campo, A.1	Molecular pharmacology
25	Structural and functional mapping of SVCT2: identification of key residues involved in ascorbic acid and sodium transport	Gatica M. 1, Burgos C. F. 2, Muñoz A. 4, Pacheco C. 5, Uribe E.A. 1, Rivas C.I. 3	Molecular pharmacology
26	Dapagliflozin restores adenosine homeostasis in podocytes exposed to diabetic conditions	Pérez V. 1; Lester I. 1; Moscol D. 1; Oyarzún C. 1; San Martín R. 1	Molecular pharmacology
27	Trisubstituted pyridines and pyrimidines designed as ligands for the adenosine A2A and histamine H3 receptors. A novel approach for the treatment of triple-negative breast cancer	Díaz-Venegas J. 1; Espinosa-Bustos C. 1; Añazco T. 1; Osses-Mendoza P.1; Ospital I. 2; Medina V. A. 2; Stark H. 3	Medicinal chemistry
28	Mesenchymal stem cell-derived secretome rescues oligodendrocyte maturation and myelination markers in a cortical tetraculture model of prenatal methadone exposure	Huenchuguala S.G 1,2; Gudenschwager C 1; Ponce C 1; Aguirre F 1; Berríos-Carcamo P 1; Gallardo J 1; Ezquer F 1	Biopharmaceuticals
29	Virtual screening of potential somatostatin biomimetics and evaluation of PAMAM dendrimers for SST-14 and octreotide delivery	Mendoza N. Peña M. Villarroel K. Godoy P. Mendoza M. Díaz C.	Medicinal chemistry
30	Statins enhance the effect of the Zoldonrasib inhibitor in tumor cells harboring the KRAS-G12D mutation	Francisco Diaz-Lazcano1, Carina Chipon1, Alberto Maestre1, Rodrigo López-Muñoz1	Chemotherapy

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31	Spray Drying vs. Spray Freeze Drying: Impact on Antimicrobial Activity and Aerodynamic Performance of Inhalable Ciprofloxacin Microspheres	Vilicic-Rubio, A; López, P; Bahamondez-Canas,T; Jara. O. M; Moraga-Espinoza, D	Biopharmaceuticals
32	Interaction Between Gut Microbiota and Reelin: Implications for Neuroinflammation in a Multiple Sclerosis Model	Antonia Muñoz; Amanda Gutierrez; Javier Bravo; Estibaliz Ampuero.	Neuropharmacology
33	Cardiac fibroblast functional responses to angiotensin II and hydrogel stiffness: The role of biological memory and alpha-SMA expression	Javiera Valenzuela, Pablo Sagredo, Franco Riva y Guillermo Díaz Araya	Molecular pharmacology
34	Hippocampal region-dependent changes in neuroinflammation-associated gene expression in a high fat diet-induced obesity model	Ibacache-Álvarez, J.1,2; Escobar-Luna, J.2; Olivares-Barraza, R.2; Sáez, J.C.3; Sotomayor-Zárate, R.2,3	Neuropharmacology
35	Disruptions in the mitochondrial network caused by TG2-induced beta-amyloid aggregates can be prevented by the inactive TG2 C277S mutant	Verbal F.[1], Rubilar N.[1], Pinto-Leon A.[1], Ramírez-Molina O.[1], Gavilán J.[1], Marileo A.[1], Panes J.[1], Fuentealba J.[1]	Neuropharmacology
36	5-Nitroindazolin-3-one Derivatives as Potential Trypanocidal Agents: Pharmacological Evaluation in Human Cardiac Organoids and Prospects for Extracellular Vesicle-Mediated Delivery	Rocha-Valderrama E.[1,2,3]; Arcos M.[1,2,3]; Parra S.[1,2,3]; Alfaro S.[3]; Liempi A.[2,3]; Avello C.[3]; Fernández F.[3]; Maya J. D.[2]; Moncada-Basualto M.[3]; Olea-Azar C.[1]	Medicinal chemistry
37	LA-45, an acetamide derivate, modulates the activity and biophysical properties of the hHCN2 channel	Mundaca M.1; Camargo-Ayala L.2; Zúñiga L.1,3	Molecular pharmacology
38	In silico development of mutated ApoER2-reelin complex models for preliminary pharmacological studies in the Alzheimer's disease context	Rodríguez-Mutis H., Salgado B., Espinoza-Scholz B., Yévenes G.E., Guzmán J.L., Burgos C.F.	Molecular pharmacology
39	Factors associated with serious suspected adverse drug reaction reports in Los Ríos, Chile, 2013–2024	Galaz Guerrero.B 1,4; Veas Castillo. L 2,4; Sanchez Montoya. E 3,4	Toxicology
40	Immunomodulatory Effects of IMT-504 in Macrophages: Potential Involvement of Pannexin-1 in the Regulation of Inflammatory Responses	Arriaza F.[1]; Osses A.[1]; Lopez-Riquelme I.; Vidal R. [1]; Retamal J.[1]; Acuña C.[3]; Ortiz F.[2]*; Constandil L.[1]*	Immunopharmacology
41	Design of selective positive allosteric modulator affecting the function of the hyperekplexic glycine receptor α1 carrying the R271Q mutation	Oviedo-Pino V1,2., Fariña, K1, Peña-Varas,C2., Valenzuela-Hormazabal, P2., Flaig, D1., Rubilar-Espinoza, N1.,Marileo, A1., Ramírez, D2., Moraga-Cid, G1	Neuropharmacology
42	Early disruption of the corticospinal–neuromuscular axis in the APP/PS1 mouse model of Alzheimer's disease	Srain-Merino K.1*; Peña-Ramirez C.1*; Tejos-Castillo M.1; Mora-Dominguez A.1; Guerra-Cespedes Y.1; Gallegos S.1,3; Aguayo LG. 2,3; Armijo-Weingart L.1,3; Ojeda J.1	Neuropharmacology
43	Effects of culture matrix stiffness and Ang II on AT1R expression and YAP/TAZ activation in cardiac fibroblasts	Sagredo P., Riva-Carrillo F, Díaz-Araya G.	Molecular pharmacology
44	Study of formation of a protein corona on gold nanoparticles with different geometries under dynamic conditions using Microfluidics	Danitza C. Parra. 1,2; Simón Guerrero. 3,4; Juan Ruso. 5; Marcelo J. Kogan 3,4; Natalia Hassan 2,4,6	Biopharmaceuticals
45	Low concentrations of microcystin-RR downregulate genes associated with cellular stress defense and modulate locomotor behavior in zebrafish larvae	Yáñez-Bailey P.1,2; Ramírez M.I.1,2; Llanos-Rivera A.2; Ferhmann-Cartes K.3; Ortíz F.C. 4; Patricio Iturriaga-Vásquez P.5; De la Paz J.F1.	Toxicology
46	Role of striatal glycine receptors in a non-progressive Parkinson's disease model	Sydney Stiles; Fuqin Yin; Braulio Muñoz	Neuropharmacology

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47	Establishing the functional signature of β3-containing GABA type A receptors to investigate phosphorylation-dependent modulation	Valenzuela, D1., Flaig, D1., Soto, P1., Quintana, S1., Cossio, J1., Lizama, MF., Delgado, J1., Reyes, D., Ramírez, D2., Yevenes, G1., Muñoz-Montesino, C1., Moraga-Cid, G1	Neuropharmacology
48	Antifibrotic effect of pinocembrin and propolis extracts through activation of the AMPK pathway in TGF-beta1-stimulated cardiac fibroblasts	Vergara-Rojas M. 1,2; Valenzuela-Barra G. 2; Vivar R. 1.	Cardiovascular pharmacology