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Medicina
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Research interests

His research interests are rooted in maternal–fetal medicine, with a specific focus on the early prediction of pregnancy-related complications such as gestational diabetes and preeclampsia. He has contributed to scientific projects that integrate biotechnology, biomarker analysis, and artificial intelligence tools to improve early detection and management of these high-impact conditions.

Among his most significant research involvements is a study validating a multiparametric algorithm that uses maternal plasma biomarkers to predict the risk of developing gestational diabetes during early pregnancy. His research is part of the Maternal–Fetal Medicine Research Group at Universidad de los Andes, a multidisciplinary team where he has also contributed to publications exploring the predictive value of extracellular vesicles and placental phosphatases as non-invasive markers of gestational disease.

Employment

Universidad de los Andes

Chile

1 Mar 2018 → present

Facultad de Medicina

Universidad de los Andes

Chile

1 Mar 2018 → present

Medicina

Universidad de los Andes

Chile

1 Mar 2018 → present

Research outputs

Development of machine learning models to predict gestational diabetes risk in the first half of pregnancy

Cubillos, G., Monckeberg, M., Plaza, A., Morgan, M., Estevez, P. A., Choolani, M., Kemp, M. W., Illanes, S. E. & Perez, C. A., Dec 2023, In: BMC Pregnancy and Childbirth. 23, 1, p. 1-18 18 p., 469.

SARS-CoV-2 positivity in offspring and timing of mother-to-child transmission: living systematic review and meta-analysis
PregCOV-19 Living Systematic Review Consortium, 2022, In: BMJ. 376, e067696.

The Role of Long Non-Coding RNAs in Trophoblast Regulation in Preeclampsia and Intrauterine Growth Restriction

Monteiro, L. J., Peñailillo, R., Sánchez, M., Acuña-Gallardo, S., Mönckeberg, M., Ong, J., Choolani, M., Illanes, S. E. & Nardocci, G., 1 Jun 2021, In: Genes. 12, 7, 970.

Supplementation of Omega 3 during Pregnancy and the Risk of Preterm Birth: A Systematic Review and Meta-Analysis

Serra, R., Peñailillo, R., Monteiro, L. J., Monckeberg, M., Peña, M., Moyano, L., Brunner, C., Vega, G., Choolani, M. & Illanes, S. E., 18 May 2021, In: Nutrients. 13, 5, 1704.

Gingival crevicular placental alkaline phosphatase is an early pregnancy biomarker for pre-eclampsia

Chaparro, A., Monckeberg, M., Realini, O., Hernández, M., Param, F., Albers, D., Ramírez, V., Kusanovic, J. P., Romero, R., Rice, G. & Illanes, S., 1 Apr 2021, In: Diagnostics. 11, 4, p. 1-12 12 p., 661.

Routine screening for SARS CoV-2 in unselected pregnant women at delivery

Díaz-Corvillón, P., Mönckeberg, M., Barros, A., Illanes, S. E., Soldati, A., Nien, J. K., Schepeler, M. & Caradeux, J., 1 Sep 2020, In: PLoS ONE. 15, 9 September, p. e0239887 e0239887.

Diagnostic performance of first trimester screening of preeclampsia based on uterine artery pulsatility index and maternal risk factors in routine clinical use.

Mönckeberg, M., Arias, V., Fuenzalida, R., Álvarez, S., Toro, V., Calvo, A., Kusanovic, J. P., Monteiro, L. J., Schepeler, M., Nien, J. K., Martinez, J. & Illanes, S. E., 2020, In: Diagnostics. 10, 4, 182.

Increased circulating levels of tissue-type plasminogen activator are associated with the risk of spontaneous abortion during the first trimester of pregnancy.

Monteiro, L. J., Varas-Godoy, M., Acuña-Gallardo, S., Correa, P., Passalacqua, G., Monckeberg, M., Rice, G. E. & Illanes, S. E., 2020, In: Diagnostics. 10, 4, 197.

Ultrasound-Guided Extraction of Intrauterine Devices With Nonvisible Threads: 254 Consecutive Cases: An Effective, Noninvasive Technique

Kottmann, C., Troncoso, M., Valenzuela, I., Ugarte, C., Diaz, P., Monckeberg, M. & Illanes, S., 1 Nov 2019, In: Journal of Ultrasound in Medicine. 38, 11, p. 3073-3077 5 p.

Patients with acute cervical insufficiency without intra-amniotic infection/inflammation treated with cerclage have a good prognosis.

Mönckeberg, M., Valdés, R., Kusanovic, J. P., Schepeler, M., Nien, J. K., Pertossi, E., Silva, P., Silva, K., Venegas, P., Guajardo, U., Romero, R. & Illanes, S. E., 1 Jul 2019, In: Journal of Perinatal Medicine. 47, 5, p. 500-509 10 p.

First trimester prediction of gestational diabetes mellitus using plasma biomarkers: A case-control study

Correa, P. J., Venegas, P., Palmeiro, Y., Albers, D., Rice, G., Roa, J., Cortez, J., Monckeberg, M., Schepeler, M., Osorio, E. & Illanes, S. E., 1 Feb 2019, In: Journal of Perinatal Medicine. 47, 2, p. 161-168 8 p.

Vesículas extracelulares como predictores tempranos de diabetes gestacional

Arias, M., Monteiro, L. J., Acuña-Gallardo, S., Varas-Godoy, M., Rice, G. E., Monckeberg, M., Díaz, P. & Illanes, S. E., 2019, In: Revista Medica de Chile. 147, 12, p. 1503-1509 7 p.

Oral extracellular vesicles in early pregnancy can identify patients at risk of developing gestational diabetes mellitus

Monteiro, L. J., Varas-Godoy, M., Monckeberg, M., Realini, O., Hernández, M., Rice, G., Romero, R., Saavedra, J. F., Illanes, S. E. & Chaparro, A., 1 Jun 2018, In: PLoS ONE. 14, 6, e0218616.

Courses

DOCB3364 Tópicos Avanzados en Biomedicina: Contenido Optativo

J. Monteiro, L., Busso, D., Illanes, S., Batiz, L. F., Chaparro, A. & Monckeberg, M.
20/08/20 → 14/12/20