

General Information

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Obstetrics and Gynecology

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Interests

With varied interests Dr. Pulgar's research focus on the local vascular mechanisms in animal models of cardiovascular diseases. Dr. Pulgar's research investigates alterations in human placental vasculature and in uterine vessels from genetic rodent models of IUGR, hypertensive pregnancy and preeclampsia. He also provides instruction for undergraduate and graduate students as a mentor for the MARC Program (at WSSU), the Excellence in Cardiovascular Sciences Program and as Course Director for IPP715-Techniques in Physiology. Dr. Pulgar is actively involved in peer review for several journals, acting as editorial board member in two journals, and as a member of the American Heart Association-Vasc Endo2 Peer Review Study Group.

Education

| Degree | Organization | Year |
|------------------|----------------------------|------|
| BS, Biochemistry | University of Chile, Chile | 1992 |
| PhD | University of Chile, Chile | 1999 |

Publications for Last Three Years:

Pulgar VM, Yamaleyeva LM, Varagic J, McGee CM, Bader M, Dechend R, Howlett AC, Brosnihan KB. Increased ANG II contraction of the uterine artery at early gestation in a transgenic model of hypertensive pregnancy is reduced by inhibition of endocannabinoid hydrolysis. *Hypertension*. 2014;64(3):619-25. PMID: 24935942.

Pulgar VM and Keith Harp J. Vascular effects of diphenylmethoxypiperidine-derived dopamine uptake inhibitors. *Bioorg Med Chem Lett*. 2014;24(11):2429-2432. PMID: 24792462

Molina P, Ojeda JP, Aldana M, Pulgar VM, Garcia-Huidobro RM, Pulgar J. Spatial and temporal variability in subtidal macroinvertebrates diversity patterns in a

management and exploitation area for benthic resources (MEABRs). *Ocean Coast Manag.* 2014;93:121-128.

Pulgar VM, Jeffers AB, Chappell MC, Aileru AA. The Endothelin B receptor attenuates Endothelin contraction via an endothelium independent mechanism in mesenteric arteries of (mRen2)²⁷ rats offspring **[abstract]**. *Hypertension* 2013;62:A644

Pulgar VM, Yamaleyeva LM, Varagic J, Bader M, Dechend R, Brosnihan KB. Inhibition of metabolism of endogenous AEA and 2-AG reduces Ang II induced uterine artery contraction at early pregnancy in a transgenic model of preeclampsia offspring **[abstract]**. *Hypertension* 2013;62:A416

Brosnihan KB, Yamaleyeva LM, Gallagher PE, Pulgar VM, Neves LAA. Local uterine Ang-(1-7) infusion augments expression of cannabinoid receptors and differentially alters endocannabinoid metabolizing enzymes in the decidualized uterus of pseudopregnant rats offspring **[abstract]**. *Hypertension* 2013;62:A543

Pulgar J, Poblete E, Alvarez M, Morales J, Aldana M, Aranda B, Pulgar VM. Can upwelling signals be detected in intertidal fishes with different trophic levels? *J Fish Biol* 2013;83:1407-1415 PMID:24117929

Su Y, Carey LC, Rose JC, Pulgar VM. Antenatal glucocorticoid exposure enhances the inhibition of adrenal steroidogenesis by leptin in a sex-specific fashion. *Am J Physiol Endocrinol Metab.* 2013;304(12):E1404-E1411 PMID: 23632631

Zepeda AB, Figueroa CA, Pessoa Jr A, Castillo RL, Pulgar VM, Fariás JG. Cellular and molecular mechanisms in the hypoxic tissue: role of HIF-1 and ROS. *Cell Biochem Funct.* 2013 31(6):451-459 PMID: 23760768

Farias JG, Jimenez D, Osorio J, Zepeda AB, Figueroa CA, Pulgar VM. Acclimatization to chronic intermittent hypoxia in mine workers: a challenge to mountain medicine in Chile. *Biol Res.* 2013;46(1):59-67 PMID: 23730416

Pulgar VM, Jeffers AB, Rashad HM, Diz DI, Aileru AA. Increased constrictor tone induced by ouabain-treatment in rats. *J Cardiovasc Pharmacol.* 2013;62(2):174-182 PMID: PMC3893306

Pulgar J, Aldana M, Alvarez M, Garcia-Huidobro R, Molina P, Morales JP, Pulgar VM. Upwelling affects food availability, impacting the morphological and molecular conditions of the herbivorous limpet *Fissurella crassa* (Lamarck 1882) (Mollusca: Archeogastropoda) *J Mar Biol Assoc U.K.* 2013;93(3):797-802.

Pulgar VM, Rashad HM, Jeffers AB, Rae-Dickenson S, Diz DI, Aileru AA. Na-K-ATPase isoform profile in acquired and genetic forms of hypertension favors the hypertensive phenotype offspring **[abstract]**. *FASEB J.* 2012;26:872.30

Pulgar VM, Jeffers AB, Diz DI, Aileru AA. Enhanced endothelin-1 response in mesenteric arteries in acquired and induced forms of hypertension offspring **[abstract]**. *FASEB J* 2012;26:872.29

Yamaleyeva LM, Lindsey SH, Pulgar VM, Yamane L, da Silva M, Bonfa P, Brosnihan KB. ACE2 deficiency enhances angiotensin II-induced vasoconstriction of the uterine artery at mid-gestation in mice offspring **[abstract]**. *Hypertension*

2012;60(3):**A317**

Aileru AA, Jeffers AB, Rashad HM, Diz DI, Pulgar VM. Mechanisms of increased peripheral resistance in an inheritable form of hypertension [abstract]. Proceedings of the 13th Research Centers in Minority Institutions International Symposium, 2012.

Su Y, Carey L, Rose JC, Pulgar VM. Leptin alters adrenal responsiveness by decreasing expression of ACTH-R, StAR and P450c21 in hypoxemic fetal sheep. *Reprod Sci.* 2012;19(10):1075-1084. PMID: 22534336

Pulgar J, Alvarez M, Delgadillo A, Herrera I, Benitez S, Morales JP, Molina P, Aldana M, Pulgar VM. Impact of wave exposure on seasonal morphological and reproductive responses of the intertidal limpet *Fissurella crassa* (Mollusca: Archaegastropoda) *J Mar Biol Assoc U.K.* 2012;92(7):1595-1601 doi:10.1017/S0025315412000173