

# Stanford

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## Robert Castro

Clinical Professor, Pediatrics - Neonatal and Developmental Medicine

### CLINICAL OFFICES

- **Neonatology**

453 Quarry Rd

MC 5660

Stanford, CA 94305

**Tel** (650) 723-5711      **Fax** (650) 723-8351

- **Salinas Valley Memorial Hospital**

450 E Romie Ln

Salinas, CA 93901

**Tel** (831) 759-3071      **Fax** (831) 759-3026

### Bio

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### CLINICAL FOCUS

- Neonatal-Perinatal Medicine
- Neonatology

### ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Neonatal and Developmental Medicine

### ADMINISTRATIVE APPOINTMENTS

- Medical Director, SVMH-LPCH Joint Venture NICU, (2009- present)

### HONORS AND AWARDS

- David Wirtschafter Award - Neonatal Quality Improvement, CPQCC (2020)
- SSPR Founder's Award, Southern Society of Pediatric Research (2014)
- Best Doctors in America, Best Doctors (2009)
- Presidential Excellence in Teaching Award, Univ TX HSC San Antonio (2009)
- Neonatal Fellowship Teaching Award, Neonatal-Perinatal Medicine Fellows (2008)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Neonatal/Perinatal Medicine Subboard - Chair, American Board of Pediatrics (2022 - present)
- Neonatal/Perinatal Medicine Credentials Committee, American Board of Pediatrics (2020 - present)
- Neonatal/Perinatal Medicine Subboard - Member, American Board of Pediatrics (2019 - present)

- Maternal Exposure Work Group: Co-Chair, CPQCC (2018 - present)
- Board of Trustees, California Association of Neonatologist (2016 - 2022)
- Data Advisory Board, CPQCC (2012 - present)
- Perinatal Section Executive - District VII, American Academy of Pediatrics (2008 - 2010)

## PROFESSIONAL EDUCATION

- Fellowship: Harbor-UCLA Medical Center Neonatology Fellowship (1989) CA
- Residency: Harbor-UCLA Medical Center Pediatric Residency (1986) CA
- Medical Education: University of California at San Francisco School of Medicine (1983) CA
- Board Certification: Pediatrics, American Board of Pediatrics (1987)
- American Board of Pediatrics, American Board of Pediatrics , Neonatal-Perinatal Medicine (2013)
- Board Certification: Neonatal-Perinatal Medicine, American Board of Pediatrics (1989)
- Internship, Harbor-UCLA Medical Center , Pediatrics (1984)
- Fellowship, Harbor-UCLA Medical Center , Neonatal-Perinatal Medicine (1989)
- Board Certification, American Board of Pediatrics , Pediatrics (1987)
- Board Certification, American Board of Pediatrics , Neonatal-Perinatal Medicine (1989)
- M.D., Univ CA San Francisco , Medicine (1983)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Neonatal Fluid Balance

Surfactant

Lung Fluid Reabsorption

## Publications

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### PUBLICATIONS

- **Neonatal abstinence syndrome management in California birth hospitals: results of a statewide survey.** *Journal of perinatology : official journal of the California Perinatal Association*  
Clemans-Cope, L. n., Holla, N. n., Lee, H. C., Cong, A. S., Castro, R. n., Chyi, L. n., Huang, A. n., Taylor, K. J., Kenney, G. M.  
2020
- **Role of Oral Mucosal Fluid and Electrolyte Absorption and Secretion in Dry Mouth.** *The Chinese journal of dental research : the official journal of the Scientific Section of the Chinese Stomatological Association (CSA)*  
Zhang, G. H., Castro, R.  
2015; 18 (3): 135-154
- **The Joint Admission Medical Program: A Statewide Approach to Expanding Medical Education and Career Opportunities for Disadvantaged Students** *ACADEMIC MEDICINE*  
Dalley, B., Podawiltz, A., Castro, R., Fallon, K., Kott, M., Rabek, J., Richardson, J., Thomson, W., Ferry, P., Mabry, B., Hermesmeyer, P., Smith, Q.  
2009; 84 (10): 1373-1382
- **Regulation of Epithelial Na<sup>+</sup> Channel (ENaC) in the Salivary Cell Line SMG-C6** *EXPERIMENTAL BIOLOGY AND MEDICINE*  
Vasquez, M. M., Mustafa, S. B., Choudary, A., Seidner, S. R., Castro, R.  
2009; 234 (5): 522-531
- **Induction of Serum- and Glucocorticoid-Induced Kinase-1 (SGK1) by cAMP Regulates Increases in alpha-ENaC** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Vasquez, M. M., Castro, R., Seidner, S. R., Henson, B. M., Ashton, D. J., Mustafa, S. B.

2008; 217 (3): 632-642

- **Inhibition of Ca<sup>2+</sup> influx by surfactant in NR8383 alveolar macrophages** *INFLAMMATION RESEARCH*  
Castro, R., Sun, X. H., Liu, X., Martinez, J. R., Zhang, G. H.  
2008; 57 (10): 489-496
- **Protein kinase A and mitogen-activated protein kinase pathways mediate cAMP induction of alpha-epithelial Na<sup>+</sup> channels (alpha-ENaC)** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Mustafa, S. B., Castro, R., Falck, A. J., Petershack, J. A., Henson, B. M., Mendoza, Y. M., Choudary, A., Seidner, S. R.  
2008; 215 (1): 101-110
- **Immunosuppressive properties of surfactant in alveolar macrophage NR8383** *INFLAMMATION RESEARCH*  
Kerecman, J., Mustafa, S. B., Vasquez, M. M., Dixon, P. S., Castro, R.  
2008; 57 (3): 118-125
- **Regulation of Ca<sup>2+</sup> signals in a parotid cell line Par-C5** *ARCHIVES OF ORAL BIOLOGY*  
Liu, X. B., Mork, A. C., Sun, X. H., Castro, R., Martinez, J. R., Zhang, G. H.  
2001; 46 (12): 1141-1149
- **Echovirus 7 infection and necrotizing enterocolitis-like symptoms in a premature infant.** *Journal of perinatology*  
Castro, R.  
2000; 20 (8): 558-561
- **Ion transport in an immortalized rat submandibular cell line SMG-C6** *PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE*  
Castro, R., Barlow-Walden, L., Woodson, T., Kerecman, J. D., Zhang, G. H., Martinez, J. R.  
2000; 225 (1): 39-48
- **Regulation of (1-3)-beta-glucan-stimulated Ca<sup>2+</sup> influx by protein kinase C in NR8383 alveolar macrophages** *JOURNAL OF CELLULAR BIOCHEMISTRY*  
Mork, A. C., Sun, X. H., Liu, X. B., Rodriguez, D., Martinez, J. R., Castro, R., Zhang, G. H.  
2000; 78 (1): 131-140
- **DECREASED SURFACTANT DOSE-RESPONSE AFTER DELAYED ADMINISTRATION TO PRETERM RABBITS** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Seidner, S. R., Ikegami, M., Yamada, T., Rider, E. D., Castro, R., Jobe, A. H.  
1995; 152 (1): 113-120
- **VASCULAR EFFECTS ALTER EARLY-GESTATION FETAL RENAL RESPONSES TO VASOPRESSIN** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Ervin, M. G., Terry, K. A., Calvario, G. C., Castro, R., Ross, M. G., LEAKE, R. D., Fisher, D. A.  
1994; 266 (3): R722-R729
- **OVINE MATERNAL AND FETAL GLOMERULAR ATRIAL-NATRIURETIC-FACTOR RECEPTORS - RESPONSE TO DEHYDRATION** *BIOLOGY OF THE NEONATE*  
Fujino, Y., Ross, M. G., Ervin, M. G., Castro, R., LEAKE, R. D., Fisher, D. A.  
1992; 62 (2-3): 120-126
- **ONTOGENY OF ATRIAL-NATRIURETIC-FACTOR RECEPTORS AND CYCLIC-GMP RESPONSE IN RABBIT RENAL GLOMERULI** *PEDIATRIC RESEARCH*  
Castro, R., LEAKE, R. D., Ervin, M. G., Ross, M. G., Fisher, D. A.  
1991; 30 (1): 45-49
- **EFFECT OF A RING-DELETED ATRIAL-NATRIURETIC-FACTOR ANALOG ON OVINE FETAL RENAL AND CARDIOVASCULAR FUNCTION** *PEDIATRIC RESEARCH*  
Castro, R., Ervin, M. G., LEAKE, R. D., Ross, M. G., Fisher, D. A.  
1991; 29 (4): 342-346
- **FETAL RENAL RESPONSE TO ATRIAL-NATRIURETIC-FACTOR DECREASES WITH MATURATION** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Castro, R., Ervin, M. G., LEAKE, R. D., Ross, M. G., Sherman, D. J., Fisher, D. A.  
1991; 260 (2): R346-R352
- **OVINE FETAL RENAL AND HORMONAL RESPONSES TO CHANGES IN PLASMA EPINEPHRINE** *AMERICAN JOURNAL OF PHYSIOLOGY*

Ervin, M. G., Castro, R., Sherman, D. J., Ross, M. G., Padbury, J. F., LEAKE, R. D., Fisher, D. A.  
1991; 260 (1): R82-R89

● **OVINE FETAL LUNG FLUID RESPONSE TO ATRIAL NATRIURETIC FACTOR** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*

Castro, R., Ervin, M. G., Ross, M. G., Sherman, D. J., LEAKE, R. D., Fisher, D. A.  
1989; 161 (5): 1337-1343

● **OVINE FETAL LUNG FLUID RESPONSE TO INTRAVENOUS SALINE SOLUTION INFUSION - FETAL ATRIAL NATRIURETIC FACTOR EFFECT** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*

Sherman, D. J., Ross, M. G., Ervin, M. G., Castro, R., Hobel, C. J., Fisher, D. A.  
1988; 159 (6): 1347-1352

● **OVINE FETAL AND ADULT ATRIAL NATRIURETIC FACTOR METABOLISM** *AMERICAN JOURNAL OF PHYSIOLOGY*

Ervin, M. G., Ross, M. G., Castro, R., Sherman, D., Lam, R. W., Castro, L., LEAKE, R. D., Fisher, D. A.  
1988; 254 (1): R40-R46