

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Augusto Sola, M.D.		POSITION TITLE Director of Neonatal Research & Academic Affairs Morristown Memorial Hospital, Morristown, NJ	
eRA COMMONS USER NAME		Adjunct Professor, Department of Neurology and Neurosciences, UMDNJ	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Instituto Esquiú-Buenos Aires, Argentina	B.S.	1966	English, Biology
University of Buenos Aires, Argentina	M.D.	1973	Medicine

A. Positions and Honors**Professional Experience:**

1974-1976 Pediatric Resident, University of Massachusetts, Worcester, MA
 1976-1977 Senior chief of Pediatrics, University of Massachusetts, Worcester, MA
 1977-1978 Neonatal Fellow, University of Massachusetts, Worcester, MA
 1978-1979 Research Fellow, CVRI, Neonatology, UCSF, San Francisco, CA
 1980-1987 Assistant Professor of Pediatrics, University of Buenos Aires
 1987-1991 Professor of Pediatrics, University of Buenos Aires
 1984-1991 Director of Neonatology, University of Buenos Aires
 1991-1994 Associate Professor of Pediatrics and Director, Neonatal Clinical Services, University of California, San Francisco, CA
 1995-1997 Professor of Pediatrics and Director, Neonatal Clinical Services, University of California, San Francisco, CA
 1997-2001 Director, Neonatology, Cedars-Sinai Medical Center, Los Angeles, CA
 Ruth & Harry Roman Chair in Neonatology, Cedars-Sinai Medical Center, Los Angeles, CA
 Professor, Pediatrics, UCLA School of Medicine, Los Angeles, CA
 2001-2004 Co-Director of Emory Regional Perinatal Center, Emory Univ School of Medicine, Atlanta, GA
 Co-Director of Developmental Progress Clinic, Emory Univ School of Medicine, Atlanta, GA
 2001-2006 Professor of Pediatrics, Obstetrics/Gynecology, Emory Univ School of Medicine, Atlanta, GA (tenure)
 Director, Division of Neonatal-Perinatal Medicine, Emory Univ School of Medicine, Atlanta, GA
 Director, Neonatal-Perinatal Fellowship Program, Emory Univ School of Medicine, Atlanta, GA
 2006-Present Director, Neonatal Research and Academic Affairs, Morristown Memorial Hospital, Atlantic Health, Morristown, NJ
 Professor of Pediatrics, Neurology and Neuroscience
 UMDNJ and Morristown Memorial Hospital
 Neonatologist, Morristown Memorial Hospital, Atlantic Health, Morristown, NJ

Honors: J. Braverman Award, Argentina Pediatric Society; Ten Outstanding Young Professionals of Argentina International Junior Chamber, Argentina; Faculty Teaching Award, UCSF, Dept of Pediatrics; Listed as one of "The Best Doctors In America" Pediatrics, Neonatal-Perinatal Medicine, Pacific Region; Braden Griffin, Lectureship Award, University of Massachusetts; E.H. Christopherson "International Child Health" Award, American Academy of Pediatrics; Award for Educational, Scientific and Clinical Contributions to Pediatrics in Paraguay; Best Teacher Award, International Neonatal Congress, Buenos Aires, Argentina; "Top Doctors of America in Neonatal-Perinatal Medicine" Award; Leadership Award, presented by the Center for Black Women's Wellness, Inc., "Top Doctors of Atlanta" Award, WHO Perinatal collaborating Center: Dr. Cicely Williams Award in Recognition of Excellence. "American's Top Doctors" 2008- Castle Connolly Award, President, Iberoamerican Society of Neonatology (SIBEN)

B. Selected peer-reviewed publications (selected since 2000):

1. Finer N, Craft A, Vaucher Y, Clark R, Sola A. Postnatal Steroids: Short Term Gain, Long Term Pain? J Pediatr, 2000 July; 137 (1): 9-13.

2. Sorrentino M, Powers T, Sola A (as part of The Palivizumab Outcomes Study Group). Effectiveness of Synagis® (Palivizumab): Evaluation of Outcomes from the 1998-99 RSV Season. *Pediatr Infect Dis J* 19(11):1068-1071, 2000.
3. Sola A, Rogido M. Pulmonary injury in the pre-term neonate. *Neonatal Intsv Care*, Oct 13(6):60-62, 2001.
4. Rogido M, Sola A. Ventilación mecánica en el recién nacido de muy bajo peso al nacer. *UCIN*, 2(1):40-51, 2002.
5. Gressens P, Rogido M, Paindaveine B, Sola A. The Impact of Frequent Neonatal Intensive Care Practices on the Developing Brain. *J Pediatr*, 140:646-653, 2002.
6. Baserga M, Puri A, Sola A. The Use of Topical Nitroglycerin Ointment to Treat Peripheral Tissue Ischemia Secondary to Arterial Line Complications in Neonates. *J Perinatol*, 22:416-419, 2002.
7. Genesca M, Sola A, Miguel R, Pi F, Xaua C, Alfaro V, Hotter, G: Role of changes in tissular nucleotides on the development of apoptosis during ischemia/reperfusion in rat small bowel. *Am J Pathol*, Nov;161(5):1839, 2002.
8. Sola A, Panes J, Xaus C, Hotter G: Fructose-1,6-biphosphate and nucleoside pool modifications prevent neutrophil accumulation in the reperfused intestine. *J Leukoc Biol*, Jan;73(1):74-81, 2003.
9. Baserga MC, Gregory GA, Sola A: Cerebrovascular Response in Small Preterm Infants during Routine Nursery Gavage Feedings. *Biol Neonate*, 83:12-18, 2003.
10. Chow LC, Wright KW, Sola A: Can changes in clinical practice decrease the incidence of severe retinopathy of Prematurity in Very Low Birth Weight Infants? *Pediatrics*, Feb: 111(2):339-45, 2003.
11. Baserga MC, Gregory GA, Sola A. Cerebrovascular Response in Small Preterm Infants during Routine Nursery Gavage Feedings. *Biol Neonate*, 83:12-18, 2003.
12. Rogido, M, Husson I, Bonnier C, Lallemand MC, Merienne C, Gregory GA, Sola A, Gressens P. Fructose-1, 6 biosphate prevents excitotoxic neuronal cell death in the neonatal mouse brain. *Brain Res Dev Brain Res*, Feb;140:287-297, 2003.
13. Wen, TC, Rogido, M, Genetta, T, Sola, A. Permanent focal cerebral ischemia activates erythropoietin receptor I in the neonatal rat brain. *Neurosci Lett*, 355(3):165-168, 2004.
14. Wen TC, Rogido M, Gressens P, Sola A: A reproducible experimental model of focal cerebral ischemia in the neonatal rat. *Brain Research Protocols*, 13:76-83, 2004.
15. Baserga MC, Sola A: Intrauterine Growth Retardation Impacts Tolerance to Total Parenteral Nutrition in Extremely Low Birth Weight Infants. *J Perinatol*, 24:476-481, 2004.
16. Sola A, Soliz A. Ibero-American Society of Neonatology. Collaborative group for the improvement of clinical practice and research in neonatology [Sociedad Iberoamericana de Neonatología (SIBEN). "Grupo de Colaboración Para Mejorar la Clinica y la Investigación Neonatal"]. *An Pediatr (Barc)*, 61(5):390-392, 2004.
17. Piazza A, Blackston D, Sola A. A Case of Adams-Oliver Syndrome with Associated Brain and Pulmonary Involvement: Further Evidence of Vascular Pathology? *Am J of Med Genet*, 130:172-175, 2004.
18. Baserga M, Bertolotto C, Sola A. Different Doses of Dopamine have heterogeneous effects on Cerebral Hemodynamics and Dopamine Receptors in Young Rabbits as measured with Near-Infrared Spectroscopy. *Biol Neonate*, Jan 14;87(4):229-235, 2005.
19. Sola A, Chow, L, Rogido M. Retinopathy of Prematurity and Oxygen Therapy: A Changing Relationship. *An Pediatr (Barc)*, Jan;62(1):48-63, 2005.
20. Sola A, Chow L, Rogido M. Pulse oximetry in neonatal care in 2005. A comprehensive state of the art review. *An Pediatr (Barc)*, Mar;62(3):266-281, 2005.
21. Deulofeut R, Sola A, Lee B, Buchter S, Rahman M, Rogido M. The impact of vaginal delivery in premature infants weighing less than 1,251 grams. *Obstet Gynecol*, Mar;105(3):525-531, 2005.
22. Sola A, Rogido M, Lee B, Genetta T, Wen TC. Erythropoietin after Focal Cerebral Ischemia Activates the Jaanus kinase-signal transducer and activator of transcription signaling pathway and improves brain injury in postnatal day 7 rats. *Pediatr Res*, Apr;57(4):481-7, 2005.
23. Sola A, Wen TC, Hamrick S, Ferriero DM. Potential for Protection and Repair following Injury to the Developing Brain: A Role for Erythropoietin? *Pediatr Res*, May; 57(5), part 2:110R-117R, 2005.
24. Deulofeut R, Sola A. Injury to the Developing Brain in Term and Pre-Term Infants: Mechanisms of Injury and Potential for Prevention and Repair. *Journal of The Arab Neonatology Forum*, 2: 34-47; 2005.
25. Deulofeut R, Critz A, Adams-Chapman I, Sola A. Avoiding hyperoxia in infants < 1250 g is associated with improved short-and long-term outcomes. *Journal of Perinatology* (2006) 26, 700-705
26. Sola A, Rogido M, Lee BH, Genetta T, Wen TC. Erythropoietin after focal cerebral ischemia activates the Janus kinase-signal transducer and activator of transcription signaling pathway and improves brain injury in postnatal day 7 rats. *Pediatric Research*. 2005 Apr;57(4):481-7. Epub 2005 Feb 17.
27. Genetta T, Lee BH, Sola A. Low doses of ethanol and hypoxia administered together act synergistically to promote the death of cortical neurons. *J Neurosc Res*;85:131-138
28. Boss V, Sola A, Wen TC, Decker MJ. Mild Intermittent Hypoxia Does Not Induce Stress Responses in the Neonatal Rat Brain. *Biology of the Neonate* 2005;88:313-320
29. Baquero H, Soliz A, Neira F, Venegas ME, Sola A: Oral Sildenafil in Infants With Persistent Pulmonary Hypertension of the Newborn: A Pilot Randomized Blinded Study. *Pediatrics* 2006;117;1077-1083

Principal Investigator/Program Director : Augusto Sola, MD

30. Sola A, Deulofeut R. Oxygen and oxygenation in the delivery room. J Pediatr;148:564-565
31. Sola A, Schenkman A, Skolnick L, Rogido M: Prevention of retinopathy of prematurity. European Academy of Paediatrics and ESPR, 2006 Oct, page 64
32. Castillo A, Baquero H, Neira F, Deulofeut R, Sola A. Levels of (Spo2) between 85% and 93% are associated with normoxemia in newborns (NB) receiving oxygen therapy (FiO2>21%) in the neonatal intensive care unit (NICU). EAP and ESPR, 2006, Oct, page 65
33. Baquero, H, Sola, A: Intratracheal Sildenafil in the Newborn With Pulmonary Hypertension. Pediatrics Volume 119, Number 1, January 2007 pages 215-216 Letters to the Editor doi:101542peds.2006-2892
34. Lee BH, Wen TC, Marta R, Sola A. Glucocorticoid Receptor Expression in the Cortex of the Neonatal Rat Brain with and without Focal Cerebral Ischemia. Neonatology 2007;91:12-19
35. Sola, A. Turn off the lights and the oxygen, when not needed: phototherapy and oxidative stress in the neonate. JPediatr (Rio J). 2007;83(4):293-296
36. R. Deulofeut, A. Sola, B. Lee and M. Rogido. Delivery room cardiopulmonary resuscitation of the very preterm infant is associated with adverse short and long term outcomes. An Pediatr (Barc). 2007;66(1):31-7

Listed below are some of the many abstracts presented at National Pediatric Academic Societies (Society for Pediatric Research, American Pediatric Society), International Societies and Regional Societies for 2006 and 2007.

1. Sola A, Schenkman A, Skolnick L, Rogido M. Prevention of retinopathy of prematurity. European Academy of Paediatrics and ESPR, 2006 Oct, page 64
2. Castillo A, Baquero H, Neira F, Deulofeut R, Sola A. Levels of (Spo2) between 85% and 93% are associated with normoxemia in newborns (NB) receiving oxygen therapy (FiO2>21%) in the neonatal intensive care unit (NICU). EAP and ESPR, 2006, Oct, page 65
3. Lee BH, Sola A. Uniform Application of Neonatal Guidelines Without Adequate Evidence: the Illusion of Knowledge? PAS and Eastern SPR Annual Meeting, 2007
4. Castillo A, Deulofeut R, Sola A> Clinical Practice and SpO2 Technology in the Prevention of ROP in ELBW infants. PAS and Eastern SPR Annual Meeting, 2007
5. Sola A, Lee BH. Education in Neonatal oxygenation Has Been Insufficient: A Need for Darning. PAS and Eastern SPR Annual Meeting, 2007
6. Moore J, Peng H, Wen TC, Rogido M, Sola A. Hypothermia increases erythropoietin receptor expression in neurons through an adenosine and ATP signaling pathway. PAS and Eastern SPR Annual Meeting, 2007
7. Baquero H, Sola A. Avoiding hyperoxemia during neonatal resuscitation: Time to response of different SpO2 monitors. PAS and Eastern SPR Annual Meeting, 2007
8. Castillo A, Sola A. Clinical practice and SpO2 technology in the prevention of ROP in ELBW infants. PAS and Eastern SPR Annual Meeting, 2007
9. Bravo C, Cabanas F, Sola A, Madero R, Gaya F, Quero J, Pellicer A. TOI (Tissue Oxygenation Index) and arterial saturation (SaO2) in extremely low birth weight infants: Are they associated? PAS and Eastern SPR Annual Meeting, 2007

C. Research Support

Ongoing Research Support

CURRENT

Morristown Memorial Hospital and Atlantic Health: 7/1/06 - Present

PAST

Goddard Scholar 7/1/01- 7/06

~\$130,000/year (5 years)

Emory-Egleston Children's Research Center

The purpose for this Endowment is to support various aspects of clinical and basic research at Emory University.

Laboratory: Several Grants services = United Cerebral Palsy Foundation (\$200,000)

Sildenafil Pharmaceuticals in Neonatology (Pfizer, on going)

NIH RO1

1R01HL62514-01 12/1/99 - 11/30/03

~\$157,149/year

Low Dose Inhaled Nitric Oxide for Prevention and Treatment of Chronic Lung Disease in the Preterm Infant

Multicenter prospective Study ; Site PI

The main goal of this study is to assess the beneficial effect of inhaled Nitric Oxide (iNO) on the occurrence and severity of Chronic Lung Disease (CLD) in the preterm infant and to examine the safety of iNO in preterm infants at risk of CLD.

Principal Investigator/Program Director : Augusto Sola, MD

Ruth and Harry Roman Endowed Chair in Neonatology (Sola) 7/1/98 – 2001

~\$140,000/year

Cedars-Sinai Medical Center (CSMC)

The main purpose for this Endowment was to support various aspects of my clinical and basic research at Cedars-Sinai Medical Center.

Dey Laboratories

Protocol DL-032

1/1/99 - 12/31/99

~\$32,000

A Randomized Multi-Center Comparison of Curosurf® and Survanta® in the Treatment of Established Neonatal Respiratory Distress Syndrome

The main goal of this project is to compare the clinical response to Curosurf®, and Survanta®, in the treatment of established Respiratory Distress Syndrome in newborns.

Individual Investigator Grant

1992-1994

~\$50,000/year

Committee on Research

Academic Senate UCSF

Fructose-1, 6-Biophosphate in Neonatal Asphyxia

Principal Investigator

NIH

1993-1997

Exploratory Neonatal Brain Disorders Grant, "Mechanisms of Ischemic Neonatal Brain Injury." Protocols:

a) Magnetic Resonance Parameters as Predictors of Outcome in Neonatal Hypoxic-Ischemic Injury and

b) Fructose-1, 6-biophosphate in Asphyxial Brain Disease. (#NS-93-001)

Co-Investigator

NIH

1995-1997

3P20NS32553-0351

National Institute of Neurological Disorders and Stroke Long Term Research Supplement

NIH

1995-1997

HD07162

Institutional National Research Service Award

"Graduate Research Training in Perinatal Biology"

Preceptor

NIH RO1 (Hobel)

1/1/00 - 12/31/04

\$3,409,155

Pathophysiology Of The HPA Axis The Very Low Birthweight Fetus And Neonate

The major goal of this study is to define a mechanism by which maternal stress, a hyper-corticoid state, influences the development of the fetal hypothalamus pituitary-placental axis causing dysregulation of the neonatal HPA associated with a greater risk of RDS and poor outcome.