

Sean S. Daneshmand, MD

Clinical Director
San Diego Perinatal Center
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EDUCATION:

Fellowship in maternal-fetal-medicine
University of California, San Diego
Department of Reproductive Medicine
June 2002

Residency, University of California, Los Angeles
Department of obstetrics and Gynecology
June 1999

M.D., New York Medical College, Valhalla,
June 1995

B.S., University of California, Los Angeles
March 1991
Major: Kinesiology

**RESEARCH/
ABSTRACTS/
PUBLICATIONS:**

University of California, Los Angeles, Health Sciences,
Department of Hematology and Oncology, "Structure of p53
Rearrangements in Chronic Myelegenous Leukemia;
Mechanisms of differential expression", 1989; Adviser:
Dr. H.P. Koefler.

University of California, Los Angeles School of Medicine
Department of Obstetrics and Gynecology and Immunology,
"The Effects of Beta-Human Chorionic Gonadotropin on
The In Vitro Growth of Cervical Cancer Cells", 1998; Adviser
Dr. M.T. Johnson. Poster Presentation at the Society for
Gynecologic Investigation; Atlanta, Georgia, March 1998.

University of California, Los Angeles
Department of Obstetrics and Gynecology in Conjunction
with Parke-Davis Pharmaceuticals, "Study Comparing the
Effect of Loestrin Fe 1/20 versus Alesse-28 on Serum Lipids",
1998; Adviser: Dr. Alan Decherney.

University of California, San Diego
Department of Reproductive Medicine and Radiology, “Patients undergoing three-dimensional ultrasound: review of referrals for 111 patients”, D. H. Pretorius, AD. Hull, T.R Nelson, M. Coffler and S. Daneshmand, 2000; Presented at the 10th World Congress on Ultrasound in Obstetrics and Gynecology; Zagreb, Croatia; October, 2000.

University of California, San Diego
Department of Reproductive Medicine, “Rate of Platelet count Decline In HELLP Syndrome”, Ramen H. Chmait, Matthew J. Kim, **Sean S. Daneshmand**, and Thomas R. Moore, 2000

University of California, San Diego
Department of Reproductive Medicine, “Three-Dimensional Color and Power Doppler Ultrasound Provides Improved Certainty of Diagnosis of Vasa Previa”, 2000; Adviser: Dr. Dolores Pretorius. Society for Maternal Fetal Medicine 21st Annual Meeting; Reno, Nevada, February 2001.
(Poster presentation)

University of California, San Diego
Department of Reproductive Medicine, “Is There an Advantage to Early Delivery in Monoamniotic Twin Gestations?” , 1999; Adviser: Dr. Thomas Moore. Oral presentation at the Mead Johnson Nutritional Western Perinatal Research Conference, January 2001;
Poster presentation at the Society of Maternal Fetal Medicine 21st Annual Meeting; Reno, Nevada, February 2001.

University of California, San Diego
Department of Reproductive Medicine, “Amniotic Fluid Volume and Intramembranous Permeability Changes During Long-Term Intravascular Infusion of Saline in the Ovine Fetus”, 1999; Adviser: Dr. Robert A. Brace. Society of Maternal Fetal Medicine 21st Annual Meeting; Reno, Nevada, February 2001.
(Poster presentation)

University of California, San Diego
Department of Reproductive Medicine, “The Differential Expression of VEGF and its Receptor in the Decidua of Preeclamptic Patients”. Ramen H Chamit, Mathew J. Kim, **Sean S Daneshmand**, Thomas R Moore, Ljubica Bogic, 2001. Society of Gynecologic Investigation; Toronto, Canada, March 2001.
(Poster presentation)

University of California, San Diego
Department of Reproductive Medicine, “Effect of Acarbose, an Oral Glucosidase Inhibitor, on 24-Hour Diurnal Rhythm of Glucose and Insulin in Non-Diabetic Pregnant Women in the Third Trimester”, 2000; Adviser: Dr. Thamas R. Moore. The Society of Gynecologic Investigation; Toronto, Canada, March 2001.
(Poster presentation)

University of California, San Diego
Department of Reproductive Medicine, “Increased Expression of Vascular Endothelial Growth Factor (VEGF) in the Placenta and Fetal Membranes During Long-Term Intravascular Infusion of Saline in the Ovine Fetus”, 2001: Adviser; Dr. Robert A Brace. The Society of Gynecologic Investigation; Toronto, Canada, March 2001.
(Oral Presentation)

University of California, San Diego
Department of Reproductive Medicine, “Increased VEGF and FLT-1 Gene Expression at the Rupture Site in Patients with PPRM and it’s relation to the duration of time between Rupture and Delivery”, 2001; Adviser: Dr. Ljubica Bogic. Society for Study of Reproduction, Ottawa, Canada.
(Poster presentation)

University of California, San Diego
Department of Reproductive Medicine, “Preterm Premature Rupture of Membranes (PPROM): Vascular Endothelial Growth Factor (VEGF) and its Association with Infection” ; Advisor: Dr. Ljubica Bogic. Society of Maternal-Fetal-Medicine; New Orleans, 2002.
(Oral presentation)

University of California, San Diego
Department of Reproductive Medicine,
Chmait, R.H., Kim, M.J., **Daneshmand, S.**, Moore, T.R., and **Bogic, L.** (2001). The differential expression of VEGF and its receptor in the decidua of preeclamptic patients. Supplement to Journal of the Society for Gynecologic Investigation, volume 1, Number 1 (supplement) January-February 2001, A352.

University of California, San Diego
Department of Reproductive Medicine,
Kim MJ., Chmait RH., **Daneshmand SS.**, Moore TR, Bogic L. Severe preeclampsia: The role for VEGF in the toxic cytokine hypothesis. Presented at Mead Johnson Nutritionals Western Perinatal Research Conference, January 17-19, 2001, Marriott’s Rancho Las Palmas Resort (oral presentation).

University of California, San Diego
Department of Reproductive Medicine,
Chmait RH., Kim MJ., **Daneshmand S.**, Moore TR., Bogic L. The differential expression of VEGF and its receptor in the decidua of preeclamptic patients. Presented at the SGI Year 2001 Annual Meeting, March 2001, Toronto, Canada.

University of California, San Diego
Department of Reproductive Medicine,
Daneshmand S, Kim M, Moore TR, Bogic LV. (2001) Increased VEGF and Flt-1 gene expression at the rupture site in PPROM and its relation with the duration of rupture to delivery. Presented at the Society for the Study of Reproduction, June 2001, Quebec, Canada (oral presentation).

University of California, San Diego
Department of Reproductive Medicine,
Daneshmand S, Moore TR, Bogic LV. (2002) Preterm premature rupture of membranes (PPROM): vascular endothelial growth factor (VEGF) and its association with the duration of rupture to delivery and infection. Excepted for oral presentation at the SMFM's 2002 Annual Meeting in New Orleans, January 18, 2002. (oral presentation)

University of California, San Diego
Department of Reproductive Medicine,
Daneshmand SS, Chmait RH, Moore TR and Bogic LV (2002) Preterm premature rupture of membranes (PPROM): vascular endothelial growth factor (VEGF) and its Association with Histologic Chorioamnionitis. (2002) Am J Obstet & Gynecol. 187: 1131-1136

University of California, San Diego
Department of Reproductive Medicine,
Redpath S, Chmait RH, **Daneshmand S**, Moore TR, Bogic LV (2002). New technology for an old disease: Using ProteinChip Arrays to investigate pre-eclampsia. 2nd Annual Conference, Molecular Analysis for R&D Diagnostics, February 13-14, San Diego (oral presentation).

Sharp Hospital
Course Speaker: "Nightmares in Obstetrics". Topic: "Hemorrhage in Obstetrics"; San Deigo, CA. November, 2002

University of California, San Diego
Department of Reproductive Medicine, "Increased Expression of Vascular Endothelial Growth Factor (VEGF) in the Placenta and Fetal Membranes during Long-Term Intravascular Infusion of Saline in the Ovine Fetus", 2002; Adviser; Dr. Robert A Brace. In print (American Journal of Obstetrics and Gynecology).

Catanzarite Val, Delaney K., Wolfe, S., Dowling D., **Daneshmand S.**, Cousins L., Poeltler K: The midtrimester targeted sonogram: How does fetal anatomic visualization depend upon duration of the scan. In press, Ultrasound in Obstetrics and Gynecology, 2005.

V. Catanzarite, M. Norton, N. Duerbeck, **S. Daneshmand**, D. Dowling, L. Cousins, Management in unexplained fetal anemia: Report of two cases and proposal for a registry. Expectant management in unexplained fetal anemia: Report of two cases and proposal for a registry, September 2005.

GRANTS

CROWN (Center for Research on Women and Newborn Health)

Title: VEGF, PPRM and Preterm Birth: A Novel Pathway

PI: Ljubica V. Bogic, PhD (UCSD)

Period: 01/01/2001 – 31/12/2001

Role: Collaborator

Grant application to CROWN Foundation (Center for Research on Women and Newborn Health) addresses the role of regulatory factors in the control of VEGF dependent collagenolysis in human fetal membranes during normal and pathologic pregnancy.

NIH

Title: "A Novel Mechanism Underlying the Role of VEGF in PPRM"

PI: Ljubica V. Bogic, PhD (UCSD)

Period: 02/14/2001-01/31/2003

Role: **Collaborator**

Preterm premature rupture of fetal membranes (PPROM) is the single most significant pregnancy complication, which is the leading cause of neonatal morbidity and mortality and accounts for hundreds of millions of dollars in health care expenditures.

The focus of the research proposed in this grant application is to investigate the cellular events that occur in PPRM and to elucidate a novel autocrine-paracrine mechanism underlying the role of vascular endothelial growth factor (VEGF) in this pathologic process. We speculate that local activity of VEGF in fetal membranes activates tissue plasminogen activator (tPA) gene expression in decidua, which plays an important role in the regulation of matrix metalloproteinases (MMPs), resulting in collagen breakdown in fetal membrane tissue and eventual membrane rupture. The upstream regulatory factors that lead to this premature activation of matrix metalloproteinases (MMPs) causing breakdown of the extracellular matrix (ECM) and mediating collagenolysis, which decreases the strength of membranes of PPRM patients, are currently unknown but are the subject of studies proposed in the NIH grant application.

CERTIFICATION:

United States Medical Licensure Examination – Parts I, II, and III
Obstetrics and Gynecology written boards, 1999
Board certified for Obstetrics and Gynecology and Maternal-Fetal-Medicine specialties, 2007

WORK EXPERIENCE:

University of California, Los Angeles, Health Sciences,
Department of Molecular Biology; position: Lab Assistant,
1990 – 1991

University of California, Los Angeles, Health Sciences,
Blood Drive, 1987 – 1988
Private Tennis Instructor, 1986 – 1990

Kaiser Permanente, Bellflower
Department of obstetrics and gynecology; position: Per diem work as physician covering labor and delivery and the emergency room; 1998 – 1999

Logan Heights Women’s Health Center, San Diego
Position: Per diem work as physician covering labor and delivery and the emergency room; 1999 –June 2002

Scripps Mercy Hospital, San Diego
Department of obstetrics and gynecology, Position: Per diem work as physician covering labor and delivery and the emergency room; 1999 – June 2002.

Sharp Mary Birch Hospital, San Diego
Department of Perinatology, Position: Per diem work as physician covering the perinatology service; March 2001 –June 2002

Children’s Specialist of San Diego
Clinical Director, Department of Perinatology
June 2002 - Present

ACTIVITIES:

Medical School

Student Tutor; Position: Assistant to fellow classmates, 1992 - 1994

*President, International Student’s Club, 1992 – 1993

College

Emergency Medical Technician, 1989

University of California, Los Angeles, Medical Center
Patient Escort: Volunteer, 1986 – 1987

Unicamp Volunteer; Position: Working with physically Handicapped children, 1987

Intramural tennis, 1986 – 1991

Fit Pregnancy Advisory Board, 2007

SOCIETY MEMBERSHIPS:

American College of Obstetrics and Gynecology
American Medical Association
San Diego County Medical Society 2006-Present