
CURRICULUM VITAE

NANETTE F. SANTORO, M.D

NAME: Nanette F. Santoro, M.D.

HOME ADDRESS: 436 Madison Street
Denver, Colorado 80206

1) CURRENT POSITION: Professor and E. Stewart Taylor Chair
Department of Obstetrics & Gynecology
University of Colorado Denver
Mail Stop #B198-1
Academic Office Building-1
12631 East 17th Avenue, Room 4010
Aurora, CO 80045

Faculty Practice Address: University Physicians Incorporated
Aurora, Colorado 80045

2) EDUCATION

a. Undergraduate
1973-1975

B.S. Biology (conferred 1979)
Rensselaer Polytechnic Institute
Troy, New York

b. Graduate and Professional
1975-1979

B.S. M.D.
Albany Medical College of Union University
Albany, New York

c. Postdoctoral
i. Residency
1979-1983

Department of Obstetrics and Gynecology
Beth Israel Medical Center
New York, New York 10003

ii. Fellowship
1983-1986

Clinical and Research Fellow
Departments of Gynecology and Medicine
Massachusetts General Hospital & Harvard Medical School
Boston, Massachusetts
Program Director: George S. Richardson, M.D.

3) ACADEMIC APPOINTMENTS

1983-1986

Clinical and Research Fellow in Medicine and Gynecology,
Harvard Medical School

1986-1988

Instructor in Gynecology, Harvard Medical School

1988-1994

Assistant Professor of Obstetrics and Gynecology,
UMDNJ - New Jersey Medical School

1991-1998	Director, Division of Reproductive Endocrinology and Infertility, UMDNJ - New Jersey Medical School
1994-1998	Associate Professor of Obstetrics and Gynecology, UMDNJ - New Jersey Medical School
1998-1999	Associate Professor of Obstetrics, Gynecology and Women's Health Director of the Division of Reproductive Endocrinology & Infertility Albert Einstein College of Medicine
1999-2009	Professor of Obstetrics, Gynecology and Women's Health and Associate Professor of Medicine, Albert Einstein College of Medicine
2009-Present	Professor of Ob/Gyn, E Stewart Taylor Chair of Obstetrics and Gynecology, University of Colorado Anschutz Medical Campus

4) HOSPITAL, GOVERNMENT OR OTHER PROFESSIONAL POSITIONS

a. Hospital

1983-1988	Assistant in Gynecology, Massachusetts General Hospital, Boston, MA
1988-1995	Head, Oocyte Donation Program, UMDNJ University Hospital, Newark, NJ
1988-1998	Director, Clinical Reproductive Endocrine Labs, UMDNJ University Hospital, Newark, NJ
1988-1998	Attending Physician, UMDNJ-University Hospital, Newark, NJ
1995-1998	Attending Physician, Hackensack Medical Center, Hackensack, NJ
1998-2009	Attending in Gynecology, Community Hospital at Dobbs Ferry, Dobbs Ferry, NY
1998-2009	Attending in Gynecology, Montefiore Medical Center, Bronx, NY
1998-2004	Director, Clinical Reproductive Endocrinology Laboratory, Montefiore's Institute for Reproductive Medicine and Health, Hartsdale, NY
2002-2009	Director, Division of Reproductive Endocrinology and Infertility, Montefiore Medical Center, Bronx, NY
2007-2009	Attending in Gynecology, Phelps Memorial Hospital, Sleepy Hollow, NY
2009-present	Attending Physician, University Hospital, Aurora, CO

b. Government or Other—None

5) HONORS AND AWARDS

1975	Magna cum laude Rensselaer Polytechnic Institute; Troy, New York
1993	Excellence in Teaching Award, UMDNJ Foundation
1995	Elected to Faculty Alpha Omega Alpha Honor Society
1997	Good Housekeeping Magazine: Best Doctors for Women
1999-2010	Castle Connolly Guide to Top Doctors
1998, 1999	Best Doctors: New Jersey Magazine

2000	International Who's Who of Professionals, Who's Who Historical Society, Jacksonville, NC
2003, 2006, 2008, 2009	Best Doctors: Westchester Magazine, Honor Roll
2001, 2003-2006	Best Doctors: New York Magazine
2005	North American Menopause Society Award for Research in the Perimenopause
2006	Mentor of the Year, Clinical Research Training Program, Albert Einstein College of Medicine
2009	Consumer's Research Council of America's 'Guide to America's Top Obstetricians and Gynecologists'
2008-present	Best Doctors in America

6) MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2002-2011	American Institute for Ultrasound in Medicine
2009-present	American Association of Obstetricians & Gynecologists Foundation Secretary-Treasurer
1999-present	North American Menopause Society 2004-Chair, Position Statement on the Treatment of Menopause-Associated Vasomotor Symptoms 2014-present Member, Board of Directors
1999-present	Physicians for Reproductive Choice and Health
1997-present	American Gynecologic and Obstetrical Society 2005-present AAOGF Foundation Committee Member 2004-2007 Membership Committee 2014 Nominations Committee
1996-present	American Medical Association
1996-present	American Board of Obstetricians & Gynecologists 1996-1999 Fellowship Director, REI 1999-2002 Subspecialty Committee (Chair 2002-2003) 2002-2005 Member, Board of Directors 2005-2009 Secretary-Treasurer
1992-present	Society for Gynecologic Investigation 2002-2004 Council 2004-2006 Membership Committee Chair 2006-2009 FASEB Special Programs Committee Representative Member of Subcommittee on Clinical Research
1991-2009	New York Gynecologic Society
1991-2009	New York Obstetrical Society
1990-present	American Fertility Society/ASRM 2008-2011 Board of Directors
1988-present	American College of OB & GYN – Fellow 2003 Co-Chair, Task Force on Hormone Therapy 2003-2006 Documents Review Panel-Gynecology 1998-2002 Practice Bulletins Committee Gynecology (Chair 2002) 2001-2002 Committee on Gynecologic Practice

1988-present	Society for Reproductive Endocrinology & Infertility 2009 President 2009 and 1997 Postgraduate Program Course Chair 1999-2001 Board of Directors 1994-1997 Fellowship Director
1988-2008 1988-present	Harvey Society Women in Endocrinology 2006-2008 Nominating Committee 1997-1998 President 1996-1998 Program Chair
1986-present	Endocrine Society 2009-2012 Vice-President for Clinical Affairs 2007-present, and 1999-2002 Government Relations (APOCC- Advocacy and Public Outreach Core Committee) Member Past member, Annual Meeting Steering Committee (1999-2002) Chair, Annual Meeting Steering Committee (2001) 1995-1999 Special Programs Committee Member 2014, Chair, Writing Group for Scientific Statement on Bioidentical Hormones 2014 Member, Obesity Task Force
1985-2010 1982 1980-present 1980-1985	American Federation for Clinical Research Physicians for Social Responsibility American Medical Women's Association American College of Surgeons, Junior Fellow

7) MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

a. Departmental

2009-present	University of Colorado School of Medicine, Department of OBGYN Executive Faculty Committee Residency Selection Committee REI Fellow Selection Committee
2004	Co-Chair, Autumn in New York, Albert Einstein College of Medicine Annual Ob/Gyn Postgraduate Course
2001-2009	Resident Selection Committee, AECOM
2001-2009	Department of Ob/Gyn Committee on Faculty Promotions, AECOM
1991-1998	Executive Faculty, UMDNJ-NJMS
1989-1998	Program Director, Annual Semmelweis-Waters Ob Gyn Conference, UMDNJ- NJMS
1988-1998	Resident Selection Committee, UMDNJ-NJMS
1985-1986	Program Chair, An Intensive Review of Reproductive Endocrinology and Infertility, Massachusetts General Hospital
1985-1986	Program Chair, Basic Science Seminar Series in Reproductive Endocrinology and Infertility, Massachusetts General Hospital

b. School of Medicine/University

2014 UCSOM Strategy Committee
UCSOM Search Committee for Anesthesiology Chair

2013 UCSOM Strategic Planning Committee
UCSOM Clinical Task Force
UCSOM Clinical Leadership Council

2012 UCSOM Strategic Planning Committee
UCSOM Clinical Task Force
UCSOM Clinical Leadership Council

2010 UPI Director Search Committee

2009-present UCSOM Executive Committee

2009-present UPI Board of Directors

2010-2012 UCSOM Dean's Quality Improvement Committee

2007-2009 Chair, Embryonic Stem Cell Organization (ESCRO) Committee

2007-2008 Member, Genetics Chair Search Committee, AECOM

2007-2009 Member, Institute for Clinical and Translational Medicine's Scientific Advisory Committee

2007-2009 Member, Committee on Appointments and Promotions (Professor), AECOM

2006-2009 Member, Patents Committee

2003-2008 Member, Medical Students Project Committee

2003-2006 Member, Faculty Senate

2003-2008 Member, Scientific Foundations of Medicine Committee

2001-2008 Co-Director, AECOM Center for Reproductive Biology

1999-2001 Member, Dean's Committee on Grants Management, AECOM

1999-2003 Member, Committee on Appointments and Promotions (Associate Professor), AECOM

1999-2002 Member, Dean's Committee on Clinical Research, AECOM

1997-1998 Dean's Ad Hoc Committee on Research, AECOM

1996-1997 Member, Faculty Committee on Appointments and Promotions (FCAP)
UMDNJ-New Jersey Medical School

1996 Member, Faculty Advisory Committee on Research, UMDNJ

1995-1998 Member, By-Laws Committee, UMDNJ

1993-1995 At-Large Faculty Council Representative, UMDNJ

1993 Member, Ad Hoc Committee on Clinical Faculty Promotions, UMDNJ
Member, Institutional Review Board, UMDNJ-New Jersey Medical School

c. Hospital

2009-present UCH Medical Board

2002-2009 Director, Division of Reproductive Endocrinology & Infertility, Montefiore Medical Center

1998-2004 Director, Clinical Reproductive Endocrinology & Infertility- Andrology & Endocrine Labs

1998-2009 Director, Fellowship Program in Reproductive Endocrinology & Infertility, Montefiore Medical Center/AECOM

1991-1998 Director, Fellowship Program in Reproductive Endocrinology & Infertility, UMDNJ-NJMS

1990 UMDNJ-NJMS representative for Ob/Gyn, Chairman, Search Committee, Hackensack Medical Center

d. National/Regional

2015	Board Member, North American Menopause Society
2013-present	Advisory Board member, MSHEART (Rebecca Thurston, PhD: Weight loss Intervention for the Treatment of Hot Flashes in Menopausal Women)
2011-present	Data and Safety Monitoring Board member, CEMCOR (J Pryor, MD, Use of Progesterone to Treat Menopausal Hot Flashes in Women)
2007-present	Chair, Steering Committee, Reproductive Medicine Network, NICCHD
2002-2006	Chair, Data and Safety Monitoring Board, Columbia University NCCAM Center for Alternative Medicine
2008	Consultant, NIH R24 Primate Modeling the Menopausal Transition and Menopause, Wake Forest University Primate Research Center, February 20-22, 2008 (Drs. Jay Kaplan, Tom Clarkson, and Susan Appt)
2008-2009	Chair, Special Emphasis Panel: Leiomyoma Center P50 Review
2007-2008	Organizing Committee NIH Conference on New Interventions for Menopausal Symptoms
2006-2009	FASEB Subcommittee on Clinical Research
2004-present	Reviewer, American Federation for Aging Research Grants Program
2004	Organizing Committee, NIH conference on premenopausal protective factors against postmenopausal disease
2003	Organizing Committee, NIH conference on vasomotor symptoms
2003-present	Chair, Ad hoc Review Panels, NIH
2001-2005	Chair, NICCHD Reproductive Medicine Network Advisory Committee
2007	The RAND Corporation Systematic Review of Bariatric Surgery in Women of Reproductive Age, panel member
2000-2006	AAMC Panel on Research

8) LICENSURE & CERTIFICATION

a. Licensure

Colorado	# 48447	
New York State	# 142596	(inactive)
1982 New Jersey	MA52332	(inactive)
1983 Massachusetts	# 50663	(Inactive)

b. Board certification

Primary Specialty Board: American Board of Ob/Gyn	Date Certified: 1987	Re-Certified: 1997
Sub-Specialty Board: Repro/Endo/Infertility	Date Certified: 1988	Re-Certified: 1997
Maintenance of Certification	Current 8/14	

c. Narcotics Certifications

DEA # AS2241280
N.J. CDS DO49095 (expired)

9) INVENTIONS, INTELLECTUAL PROPERTY AND PATENTS—None

10) REVIEW AND REFEREE WORK

a. Editorial Board Member

2007-2010	<i>Editor-in-Chief, Menopausal Management</i>
1996-present	<i>Editorial Board, Journal of Clinical Endocrinology and Metabolism</i>
1999-2008	<i>Editorial Board, Fertility and Sterility</i>
2002-2009	<i>Pause, Medical Advisory Board (lay publication)</i>
2002-2009	<i>Contemporary Ob/Gyn</i>
2002-present	<i>Editorial Board, Menopause</i>
2005-present	<i>Editorial Board, Journal of the Society of Gynecologic Investigation/Reproductive Sciences</i>
2004-present	<i>Editorial Board, American Journal of Obstetrics and Gynecology</i>

b. Grant Reviewer

1992-1994	<i>NIH: S.B.I.R. - Small Business Innovative Research Grants Program - Study Section Member</i>
1992	<i>Women's Health Initiative – West, NHLBI Special Emphasis Panel</i>
1992-1994	<i>Data and Safety Monitoring Board for "Trophic Factors in the Elderly" Grants, National Institutes on Aging (NIA)</i>
1993	<i>Special Reviewer: Reproductive Endocrinology Study Section, NIH</i>
1995-1999	<i>Member, Reproductive Endocrinology Study Section NIH</i>
2001	<i>Member of the Biology of Development and Aging IRG Study Section Boundaries Team, July 15-16, 2001</i>
2002-2006	<i>American Federation for Aging Research, grant reviewer Chair- Specialized Cooperative Centers Program For Research in Reproduction (SCCPRIR) Initial Review Panel, December 11-13, 2006, NIH</i>
2008	<i>Chair, ZAT1 LD 29, NCCAM Review Panel, NIH</i>
2008-2009	<i>Chair, Special Emphasis Panel: Leiomyoma Center P50 Review</i>
2008-2012	<i>Member Integrative Clinical Endocrinology and Reproduction (ICER) Study Section, NIH</i>
2014	<i>Member, Special Emphasis Panel: MSFLASH U01 AG 032699 (K Guthrie, MD, PI)</i>
2014	<i>Member, Special Emphasis Panel, P01 AG029531: The Aging Pituitary-Gonadal Axis (G Bousfield, PhD, PI)</i>

a. Ad hoc reviewer, journals

1999-present	Biology of Reproduction
2000-present	Endocrinology
2002-2003	Steroids
2005-present	Climacteric
2007-present	Maturitas
2007-present	Journal of the American Medical Association
2006-present	New England Journal of Medicine
2014-present	Journal of Clinical Investigation

b. Abstract review, meeting planning

1997-1999	Women in Endocrinology Program Chair
1998-2000	Endocrine Society, Annual Meeting Steering Committee (Chair, 2000) 1998-present, abstract reviewer for annual meeting
1995-2001	American Society for Reproductive Medicine Program Committee 1995- present ASRM Abstract Reviewer 2009-SREI Program Director
2003-2005	Society for Gynecologic Investigation Program Committee 1999-present, abstract reviewer for annual meeting
2004	NIH State of the Science Conference on the Management and Study of Menopausal Symptoms and Their Treatment: Planned two SOS conferences to address these issues, 9months apart

11) INVITED EXTRAMURAL LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS (PARTIAL LIST)

a. Course Director:

- i. American Society for Reproductive Medicine 53rd Annual Meeting, 30th Postgraduate Program, Cincinnati, OH. 'Reproductive Issues Throughout the Life Cycle' October 18, 1997:
- ii. ACOG District III Annual Meeting, San Juan, Puerto Rico, "Management of the Perimenopause": October 22-24, 1998
- iii. NICCHD/NIA: The Ovary: Genesis, Function and Failure, Bethesda, MD, March 17-18, 2001
- iv. ACOG Postgraduate Course: From Perimenopause to the Elderly Years: Meeting the Needs of the Menopausal Woman, New York, NY, December 11-14, 2002
- v. NIH/AHQR/ORWH: State of the Science Conference on Menopausal Symptoms, Bethesda, MD, March 21-23, 2005
- vi. NIH Workshop: New Interventions for Menopausal Symptoms, Bethesda, MD, July 11-12, 2006
- vii. NIH Consensus Conference: New Interventions for Menopausal Symptoms: July 11-12, 2006 and November 20-21, 2006
- viii. The Endocrine Society CME Symposium on Menopausal Hormone Therapy, June, 2008
- ix. ACOG's The Mature Woman, Postgraduate Program Chair: 'Concepts and Controversies During the Menopausal Transition and Beyond', May 4, 2008, New Orleans, LA
- x. Contemporary Ob/Gyn Women's Health Summit, New York, NY, May 16-18, 2008
- xi. NIH Consensus Conference: Orphan Mechanisms of Primary Ovarian Insufficiency: Passion for Participatory Research: Building a Research Consortium on Primary Ovarian Insufficiency, October 2-3, 2008, Bethesda, MD
- xii. ASRM 42nd annual SREI Postgraduate Program: PCOS: Origins and Destiny, October 18, 2009
- xiii. ACOG's The Mature Woman, Postgraduate Program Chair: 'Menopause and Hormone Therapy: A User's Guide', May 4, 2009, Chicago, IL

b. Program Faculty:

- i. January 20, 1990: "Efficacy and safety of intravenous pulsatile gonadotropin-releasing hormone: Lutrepulse for injection"; Pulsatile GnRH in Clinical Medicine, Fort Myers, FL
- ii. September 3, 1993 "Impact of hormonal changes on sexual physiology and function": North American Menopause Society, 4th Annual Meeting, San Diego, CA,.
- iii. February 6-9, 1995: American Society for Reproductive Medicine, Cancun, Mexico: 'Diagnostic and therapeutic options for infertility: tools of the trade'.

- iv. March, 1995: Endometriosis 2000 NIH Workshop, Bethesda, MD, speaker: 'Long-term effects of endometriosis and its therapies'
- v. October 7, 1995: American Society for Reproductive Medicine 51st Annual Meeting, 28th Postgraduate Program, Seattle, Washington. 'Advanced Reproductive Medicine for the Clinician.'
- vi. November 17-20, 1995: Serono Symposia, Palm Beach Gardens, FL: 'Perimenopause.'
- vii. September 26-28, 1996 "Hormonal dynamics of the perimenopause", North American Menopause Society's 7th Annual Meeting, Chicago, Illinois,.
- viii. November 2-3, 1996: American Society for Reproductive Medicine, Boston, MA: 'Advanced Reproductive Medicine for the Clinician'.
- ix. May 29-30, 1998: The 12th Annual Texas Tech University Ob/Gyn Symposium, Amarillo, TX: Management of the Peri and Postmenopausal Patient.
- x. October 3, 1998: American Society for Reproductive Medicine 54th Annual Meeting, 31st Postgraduate Program, San Francisco, CA. 'Advances in Menopause: Diagnostic and Therapeutic Considerations.'
- xi. October 7, 1998: Co-Chair: Recent Advances in Menotropin Ovulation Induction, CME Symposium in conjunction with ASRM, San Francisco, CA
- xii. December 2, 1998: SERMs in the Long-Term Management of Postmenopausal Women, San Francisco, CA
- xiii. February 11-13, 1999, ACOG Postgraduate Course: 'Reproductive Endocrinology and Infertility for the Clinician', St. Thomas, VI.
- xiv. March 17-21, 1999, Serono Symposia USA, Washington, DC: 'International Symposium on Frontiers in Reproductive Endocrinology.'
- xv. May 14, 1999: ACOG 47th Annual Clinical Meeting, Philadelphia, PA: 'Current Reproductive Endocrinology for the Clinician.'
- xvi. May 23, 2000: 'HRT-Finding the Right Combination for Best Results', ACOG Annual Clinical Meeting, San Francisco, CA
- xvii. September 2000 Staging Reproductive Aging Workshop (STRAW): Park City, Utah,.
- xviii. October 21, 2000: American Society for Reproductive Medicine Postgraduate Program, San Diego, CA: 'Therapeutic Controversies: Perimenopause and Beyond.'
- xix. January 18-20, 2001: ACOG Postgraduate Program, Tucson, AZ: Solving Diagnostic and Management Dilemmas in Ambulatory Gynecology
- xx. November 2002: Treatment Options in the Perimenopause,' the North American Menopause Society's 12th Annual Meeting, . Plenary session.
- xxi. January, 2004: University of Hawaii/Kaapiolani Medical Center Postgraduate Course Visiting Faculty
- xxii. October 16, 2004: American Society for Reproductive Medicine Postgraduate Program, Philadelphia, PA: 'Evidence-Based Approaches to Menopausal Medicine'
- xxiii. April 2007: Florida Obstetrical and Gynecological Society Annual Meeting, Orlando Florida, : 'Fertility Preservation for Women with Cancer' plenary speaker
- xxiv. May 16, 2008: 'Overcoming Obstacles to Hormone Therapy: Sorting Out the Facts', CME Satellite Symposium, held during Women's Health Summit, 2008, NY NY
- xxv. September 19, 2008: ACOG District XI Annual Meeting, Odessa, TX 'The Menopausal Transition: New Insights'; and 'Breast Cancer Screening: What's the Ob/Gyn to Do?'
- xxvi. September 24-27, 2008 'Differences in Menopause Symptoms Across Different Ethnic Groups', North American Menopause Society's 19th Annual Meeting, , Orlando FL. Symposium.
- xxvii. October 24, 2008: Hormone Therapy 2008: An update; ACOG District II Meeting, New York, NY
- xxviii. November 12, 2008: CME Symposium at the American Society for Reproductive Medicine Annual Meeting, San Francisco, CA: 'Hormone Therapy for Menopausal Women'

- xxix. June 10-13, 2009, Interactive CME Session on Menopause Management, The Endocrine Society's 90th Annual Meeting, Washington, DC.
- xxx. May 16, 2010: ACOG Postgraduate Program: A Life Cycle Approach to Preventing Later Life Disease, San Francisco, CA
- xxxi. August 6, 2010: SREI Fellows Retreat: Lecture: Mentorship,
- xxxii. August 6, 2010: SREI Fellows Retreat: Lecture: Promotion and Tenure
- xxxiii. August 10, 2010 SREI Fellows Retreat: Lecture: ABOG & You.
- xxxiv. October 21, 2012: ASRM Post Grad Course: Predicting the Onset of Menopause; San Diego, CA
- xxxv. October 21, 2012: ASRM Post Grad Course: The Pharmacology of Menopausal Therapies: Oral vs Non-oral; San Diego, CA
- xxxvi. October 21, 2012: ASRM Post Grad Panel: Are Medoxyprogesterone's Days Coming to an End?; San Diego, CA
- xxxvii. October 13, 2013: ASRM: Primer on Preventive Care; Boston, MA
- xxxviii. October 13, 2013: ASRM: Lessons Learnt – summation of journey from HERS to KEEPS; Boston, MA
- xxxix. October 13, 2013: ASRM: Contraceptive Options in Perimenopausal Woman; Boston, MA
- xl. October 14, 2013: ASRM: Focus on Psychological Well-being in Aging Women; Boston, MA
- xli. October 15, 2013: ASRM: Premature Ovarian Failure and Perimenopause; Boston, MA

c. Grand Rounds, Invited Lectures and Visiting Professorships

- i. February, 1992: University of Illinois at Chicago, IL, Grand Rounds: "Premature Ovarian Failure"
- ii. March 9-10, 1993: NIH Conference on Kallmann's Syndrome: talk on pulsatile GnRH for ovulation induction
- iii. April, 1993: Interdepartmental lecture to the Dept of Physiology, UMDNJ, New Jersey Medical School: 'The Physiology of Gonadotropin Releasing Hormone Secretion in Women'
- iv. January, 1995: Magee-Women's Hospital, Pittsburgh, PA, Grand Rounds: 'Perimenopause'
- v. January, 1995: University of North Carolina, Chapel Hill, NC: 'Pulsatile GnRH for Ovulation Induction'
- vi. January 25-27, 1996: speaker at: 'The Ovary: Regulation, Dysfunction and Treatment'
- vii. November, 1996: invited speaker at the New England Obstetrical & Gynecological Society
- viii. April, 1998: invited speaker at 'Becoming a Mother in the Late Reproductive Years' NIH Workshop.
- ix. June, 1999: Invited Symposium at The Endocrine Society's 81st Annual Meeting, San Diego, CA: 'SWAN: Baseline Measures of Ovarian Function/The Daily Hormone Study/Bone Mineral Density and Body Composition in a National Cohort of Midlife Women' (co-authors: B Lasley, J Randolph, S Korenman, J Finkelstein, S Crawford, J Luborsky, AR Midgley, D McConnell, P McGaffigan, MF Sowers, L Powell, S Harlow, B Ettinger, G Greendale, J Cauley, M Danielson, S Sherman)
- x. January 10, 2000: 'Hormone Therapy' Grand Rounds lecture, Danbury Hospital, Danbury, CT
- xi. January 28, 2000: 'Hormone Therapy' CME program, Marriott Hotel, New York, NY
- xii. February 2, 2000: invited speaker at the Fairfield County Gynecologic and Obstetrical Society, Fairfield, CT
- xiii. February 11, 2000: invited program speaker at the 53rd Annual Meeting of the Obstetrical and Gynecological Assembly of Southern California, Los Angeles, CA
- xiv. February 23, 2000: CME speaker at Ob/Gyn meeting, Wilmington, DE: 'Transdermal Hormone Replacement Therapy'
- xv. February 24, 2000: CME speaker at Ob/Gyn meeting, Allentown, NJ: 'Transdermal Hormone Replacement Therapy'

- xvi. March 16, 2000: Grand Rounds and Visiting Professor, University of Pennsylvania, Philadelphia, PA: 'Perimenopause'
- xvii. April 5, 2000: 'Perimenopause' CME lecture, Pittsburgh, PA
- xviii. April 14, 2000: 'New Insights into the Perimenopausal Woman' Medical Grand Rounds, Long Island Jewish Medical Center, New Hyde Park, NY
- xix. April 26, 2000: 'A New Option in Hormone Replacement Therapy' CME lecture to Ob/Gyns, Pensacola, FL
- xx. May 3, 2000: 'Perimenopause', CME lecture to Ob/Gyns, Buffalo, NY
- xxi. May 8, 2000: 'Transdermal Hormone Replacement Therapy', CME lecture to Ob/Gyns, Pittsburgh, PA
- xxii. June 14, 2000: 'Hormone Replacement Therapy', Grand Rounds, Beth Israel Medical Center, New York, NY
- xxiii. September 27, 2000: 'Menopause' Grand Rounds lecture, Reading Hospital, Reading, PA and Abington Memorial Hospital, Abington, PA
- xxiv. October 2, 2000: Clinical Endocrine Update: 'Menopause', Philadelphia, PA
- xxv. November 23-24, 2000: "Hormonal Control of the Menstrual Cycle", Recent Progress in Ovulation Induction, Buenos Aires, Argentina
- xxvi. December, 2000: Reproductive Endocrine Unit, Massachusetts General Hospital, Boston, MA: invited speaker 'Perimenopause'
- xxvii. January 10, 2001: invited speaker at NIA conference: Primate Models of Menopause, Bethesda, MD: 'Traditional Hormone Replacement: Still Appropriate?' and 'Premature Ovarian Failure: How to Evaluate? How to Manage?'
- xxviii. March 7, 2001: 'Hormone Replacement Therapy' Grand Rounds, Mount Sinai Medical Center, New York, NY
- xxix. March 23-24, 2001: invited speaker at Women's Health 2001: Clinical Insights for the Practitioner, Virginia Commonwealth University, Richmond, VA
- xxx. June 20-23, 2001: ENDO 2001, Denver, CO: 'Perimenopause' (Meet the Professor)
- xxxi. October 2, 2001: 'Perimenopause' Grand Rounds lecture, St Luke's-Roosevelt Medical Center, New York, NY
- xxxii. November 7, 2001: invited speaker: 'Menopause and Metabolism: Critical Issues' CME program, Garden City, NY
- xxxiii. December 4, 2001: 'Perimenopause' Grand Rounds lecture, Englewood Hospital Medical Center, Englewood, NJ
- xxxiv. December 6, 2001: invited speaker at NIH Workshop on 'Successful Aging': 'Divergent Effects of Aging on the Endocrine System', Bethesda, MD
- xxxv. January 15, 2002: 'Menopause', Grand Rounds lecture, Good Samaritan Medical Center, Palm Beach, FL
- xxxvi. January 29, 2002: 'Latest Trends in the Surgical and Medical Treatment of Endometriosis', CME program, Providence, RI
- xxxvii. June 18-22, 2002: The Endocrine Society's 84th Annual Meeting, , San Francisco, CA. Invited symposium speaker: 'Reproductive aging and the menopause transition: lessons from the Study of Women's Health Across the Nation'; symposium speaker June 22: 'Perimenopause' and 'Contraception' (Meet the Professor)
- xxxviii. October 3-5, 2002: The North American Menopause Society's 13th Annual Meeting, Chicago, IL, invited plenary speaker: 'Treatment Options in Perimenopause'
- xxxix. April 24-25, 2003: invited speaker 'Endocrinology of the Menopause and Andropause', Paris, France. Lecture: 'Mechanisms of Premature Ovarian Failure'
- xl. June, 2004: Residents Research Day Lectureship, Downstate Medical Center, Brooklyn, NY

- xli. October 5, 2005: BIRCVH Hormone Replacement Therapy Seminar Series: 'Controversies and Dilemmas in Hormone Replacement': Downstate Medical Center, Brooklyn, NY
- xlii. October 19, 2005: American Society of Reproductive Medicine Annual Meeting: Invited symposium speaker: 'Symptoms of the Menopausal Transition'
- xliii. November 15, 2005: the 21st Annual Ernest W. Page Lectureship and 21st Annual Residents Research Day, University of California at San Francisco Department of Ob/Gyn & Reproductive Sciences
- xliv. January 23, 2007: 'The Menopausal Transition' Grand Rounds, Wayne State University Department of Ob/Gyn, Detroit, MI
- xlv. October 12, 2007: Crozier Chester Medical Center Grand Rounds, Upland, PA: 'Hormone Therapy: A Viable Option in 2007'
- xlvi. January 18, 2008: Long Island College Hospital Grand Rounds, Brooklyn, NY: 'The Menopausal Transition'
- xlvii. June 18, 2008: The Endocrine Society's 90th Annual Meeting, , San Francisco, CA. Postmenopausal Hormone Therapy: Issues & Strategies' (Meet the Professor)
- xlviii. September 25, 2008; 'Controversies in the Menopausal Transition: Clinical Implications and New Management Strategies': 3rd Annual Antonio Scommegna Symposium, University of Illinois at Chicago, Chicago, IL
- xlix. November 15, 2008: American Society for Reproductive Medicine. San Francisco, CA. Managing the Menopausal Transition and beyond: What does the Evidence Show? Symposium speaker with Robert Wild, MD, PhD, and Lubna Pal, MD, MSc.
 - I. December 1, 2008: 'Mood, aging, and sex steroid hormones': Mayo Clinic, Rochester, MN Society for Gynecologic Investigation Symposium on Hormones and the Brain
 - li. December 11, 2008: 'The Menopausal Transition: Physiology and Management', University of Miami Miller School of Medicine, Miami, FL
 - lii. January 30, 2009: The Endocrine Society Science Writer's Conference
 - liii. February 3, 2009: 'The Menopausal Transition: Physiology and Management'; In-Vitro Fertilization: What the Generalist Should Know'; and 'Breast Cancer Screening for Ob/Gyns: University of Colorado Denver School of Medicine, Denver, CO, Vail Postgraduate Course, Grand Rounds and Colorado Ob/Gyn Society lectures
- liv. June 10, 2009: The Endocrine Society 91st Annual Meeting, Washington, DC. Clinical Case Discussions on Menopause Symposium (with Kathryn Martin, MD)
- lv. June 2009: Rod Mortel Lectureship and Resident's Research Day, Hershey Medical Center Department of Ob/Gyn
- lvi. October 21, 2009: ASRM Annual Meeting, Atlanta, GA. Resident Reporter Program lecture: 'Physiology and Management of the Menopausal Transition'
- lvii. October 21, 2009: ASRM Annual Meeting, Atlanta, GA. Symposium on Chronic Disease and Fertility: 'The Role of Obesity in Male and Female Infertility'
- lviii. November 11, 2009: 'How Science Can Help Us Manage Our Menopausal Patients', Finnish Society for Ob/Gyn, Helsinki
- lix. March 25, 2010: SGI Annual Meeting. Lecture: High Molecular Weight Adiponectin as a Marker of Polycystic Ovary Syndrome in Adolescent Girls
- lx. May 27, 2010: National Institute of Child Health & Human Development. Pediatric & Adolescent Gynecology Research Think Tank Panel Meeting. Lecture: Menstrual Cycle and Central Role of Ovarian Function
- lxi. May 27, 2010: National Institute of Child Health & Human Development. Pediatric & Adolescent Gynecology Research Think Tank Panel Meeting. Lecture: The LH Surge is Not the "Last Hired, First Fired".
- lxii. June 16, 2010: 92rd Annual Meeting & Expo: Media Conference on Meeting Highlights

- lxiii. June 20, 2010: 57th Family Medicine. Lecture: Managing Menopause
- lxiv. June 25, 2010: ACOG Aspen Meeting. Lecture: Women's Health Initiative
- lxv. October 25, 2010: ASRM 2010 Annual Meeting. Interactive Session - Testosterone Replacement in Hypoactive Sexual Desire Disorder: An Interactive Debate
- lxvi. October 26, 2010: ASRM 2010 Annual Meeting. Menopause Day Keynote Lecture: What Can a SWAN Teach Us About Menopause
- lxvii. November 5, 2010: Family Planning Leadership Workshop. Lecture: Working with your Department Chair
- lxviii. November 9, 2010: The Center for Human Reproduction (Grand Rounds). Lecture: Diminished ovarian Reserve
- lxix. January 7, 2011:UCD Pathology Grand Rounds : Menopause Transition
- lxx. January 17, 2011: Clinical Diabetes & Endocrinology Conference. Lecture: Implications of the Transition into Menopause.
- lxxi. January 17, 2011: Clinical Diabetes & Endocrinology Conference. Lecture: Controversies in Hormone Replacement Therapy
- lxxii. January 18, 2011: Clinical Diabetes & Endocrinology Conference. Lecture: Hair, Hair, Everywhere: Cases of Hyperandrogenism in Women
- lxxiii. February 16, 2011: Menopause Update: Kaiser Permanente, Denver, CO
- lxxiv. February 17, 2011: Rocky Mountain Reproductive Association: Menopause Transition; Longmont, CO
- lxxv. February 20, 2011: Vail Obstetrics & Gynecology Conference. Lecture: Obesity in Women's Health
- lxxvi. February 23, 2011: Vail Obstetrics & Gynecology Conference. Lecture: The Menopausal Transition
- lxxvii. March 3, 2011: Oregon National Primate Research Center, Division of Reproductive Sciences. Lecture: Ovarian Aging an Menopause: Epidemiology and Physiology
- lxxviii. April 15, 2011: Southern California OBGYN Conference: Managing Menopausal Transition
- lxxix. April 15, 2011: Southern California OBGYN Conference: Obesity & Infertility
- lxxx. April 15, 2011: Southern California OBGYN Conference: Rethinking the Mechanics that Drive Puberty in Girls.
- lxxxi. April 19, 2011:UCD Integrative Medicine Grand Rounds: Managing Menopause; Aurora, CO
- lxxxii. April 22, 2011: Rocky Mountain Reproductive Research Symposium Keynote Speaker: Endocrinology of Reproductive Aging, Fort Collins, CO
- lxxxiii. May 3, 2011: The Menopause Transition: the 14 year old SWAN – Einstein Grand Rounds, New York, NY
- lxxxiv. June 23, 2011: UT San Antonio Residents' Day: The Menopause Transition: 14 years of SWAN
- lxxxv. June 23, 2011: UT San Antonio Residents' Day: Reproductive Hormonal Effects of Obesity
- lxxxvi. August 4, 2011: University of Pittsburgh Epidemiology and Data Center: Longitudinal Tracking of the Human Menstrual Cycle Through Menopause: the SWAN Daily Hormone Study
- lxxxvii. August 10, 2011:CU Geriatrics: Average Age of Menopause
- lxxxviii. August 12, 2011: Northern Colorado Medical Center: Estrogen/Progesterone Use in Menopause, Greeley, CO
- lxxxix. September 8, 2011: Women's Group: Ultrasound Issues in Fertility Treatment, Denver, CO
- xc. September 22, 2011: Women's Health Research Day Keynote Lecture: The Menopausal Transition, Aurora, CO
- xci. November 1, 2011: Rush University Grand Rounds: SWAN: The Study of Women Across the Nation: Chicago, IL
- xcii. February 10, 2012:Northern Colorado Medical Center: CME talk: Menopause; Greeley, CO
- xciii. March 22, 2012: SGI Conference: Menopause: San Diego, CA

- xciv. March 23, 2012: SGI Mini-Symposium II: Reproductive Endocrinology & Menopause: San Diego, CA
- xcv. May 24, 2012: Wichita State University Grand Rounds: Reproductive Endocrinology & Menopause, Wichita, KS
- xcvi. June 1, 2012: Northwestern University Grand Rounds: Staging Reproductive Aging: Chicago, IL
- xcvii. July 20, 2012: Children's Hospital Colorado: PCOS; Aurora, CO
- xcviii. August 10, 2012: Scientific & Therapeutic Approaches to Assisted Reproductive Technology: Impact of Obesity on Fertility: Las Vegas, NV
- xcix. August 16, 2012: NICHD Young Investigators' Conference: Anti-Inflammatory Therapy for Obesity Related Reproductive Dysfunction; Chicago, IL
 - c. September 25, 2012: Boston University Visiting Professorship: Bioidentical Hormones & CAM for Menopause: Show Me the Data; Boston, MA
 - ci. September 25, 2012: Boston University Visiting Professorship: The Reproductive Endocrinology of Ovarian Failure; Boston, MA
 - cii. September 25, 2012: Boston University Visiting Professorship: Menopausal Hormone Therapy: The WHI Turns 10; Boston, MA
 - ciii. October 3, 2012: NAMS Conference: Obesity, Hormones & Health at Midlife; Orlando, FL
 - civ. October 23, 2012: October 21, 2012: ASRM Menopause Day: Hormone Therapy in Early Menopause; San Diego, CA
 - cv. November 28, 2012: SMNE Conference: Premature Ovarian Insufficiency: Guanajato, MEXICO
 - cvi. February 11, 2013: UC San Diego Visiting Professorship: Reproductive Endocrinology of Obesity; San Diego, CA
 - cvi. March 23, 2013: SGI: The Study of Women Across the Nation; Washington, DC
 - cxviii. April 24, 2013: University of Nebraska Grand Rounds: SWAN: What Have We Learned: Omaha, NE
 - cix. April 24, 2013: University of Nebraska Resident Lecture: Aging, Metabolism & PCOS; Omaha, NE
 - cx. April 25, 2013: St. Louis University Visiting Professorship: Staging Reproductive Aging in Women: St. Louis, MO
 - cx. April 25, 2013: St. Louis University Visiting Professorship: Sex, Lies & Bioidentical Hormones: St. Louis, MO
 - cxii. June 13, 2013: UCSOM Department of Medicine Grand Rounds:HRT, Aurora, CO
 - cxiii. June 17, 2013: ENDO Conference: Fertility Preservation: Who and When to Refer?, San Francisco, CA
 - cxiv. July 12, 2013:Colorado Integrative Medicine Conference: Hormones & Stress Management; Estes Park, CO
 - cxv. July 26, 2013: Living Well Conference: Hormonal Health
 - cxvi. October 8, 2013: UCD General Internal Medicine Grand Rounds: Menopause; Aurora, CO
 - cxvii. October 13, 2013: ASRM: Managing Menopause..with fingers on the pulse and the eyes on the future; Boston, MA
 - cxviii. November 11, 2013: UCH Let's Talk Series: Menopause & Mood: It's Complicated, Aurora, CO
 - cxix. November 20, 2013: UCD Department of Medicine Grand Rounds: The Women's Health Initiative: 10 Years Later
 - cxx. May 2, 2014: IMS Congress: The Implications of Menopause for Health in Later Life; Cancun, MEXICO
 - cxxi. May 16, 2014: Baylor Resident's Research Day Distinguished Speaker: Developing a Career in Research: Houston, TX
 - cxvii. June 13, 2014, Wesley Medical Center, Visiting Professorship: Hormones & Heart Disease: From HERS to WHI to KEEPS; Wichita, KS

- cxxiii. June 13, 2014, Wesley Medical Center, Visiting Professorship: Obesity & Reproduction; Wichita, KS
- cxxiv. June 13, 2014, Wesley Medical Center, Visiting Professorship: Roundtable discussion; Non-hormonal alternatives for menopausal symptoms; Wichita, KS
- cxxv. June 13, 2014, Wesley Medical Center, Visiting Professorship: Peri-Menopause: What it is and how can it be Managed?; Wichita, KS
- cxxvi. June 21, 2014: ENDO conference: Impact of AMH Level on Chances of Ovulation in Pregnancy in PCOS II, a multi-center Randomized Clinical Trial; Chicago, IL
- cxxvii. June 23, 2014 ENDO: New Insights & Treatment in Menopause;; Chicago, IL
- cxxviii. October 14, 2014 NAMS: Natural History of Vasomotor Symptoms, Washington, DC
- cxxix. October 15, 2014 NAMS: Impact on Quality of Life, Sleep & Mood, Washington, DC
- cxxx. December 10, 2014 UCSOM Endo Grand Rounds, HT/progesterone (research & updates)

d. Media/Public Speaking:(Partial List):

- i. May, 1996: American Federation for Aging Research Media Briefing
- ii. June, 1998: 'Perimenopause: Flashes, Facts and Fiction' lecture to New Jersey Medical School staff
- iii. August 2000: WebMD: Easing Into Menopause
<http://www.webmd.com/menopause/news/20000830/easing-into-menopause>
- iv. November 13, 2002: Presentation to the National Women's Division of the Albert Einstein College of Medicine: 'Menopausal Hormone Therapy'
- v. November 2003: WebMD: Menopause and Midlife Weight Gain
<http://www.webmd.com/menopause/news/20031112/menopause-midlife-weight-gain?page=2>
- vi. September, 7, 2008: The Hormone Foundation Media Tour: 'Misconceptions about Menopausal Hormone Therapy'
- vii. November 2008: WebMD: Hormones Changes, Mood Swings, and Physical Effects
<http://www.webmd.com/women/features/escape-hormone-horrors-what-you-can-do>
- viii. January 30, 2009: The Endocrine Society Science Writer's Conference
- ix. June 8, 2009: Newsweek: 'Crazy Talk: Oprah, wacky cures & you' by Pat Wingert (recipient of The Endocrine Society's Media Award in 2009)
- x. September 2009: 'Lifetime Management of Polycystic Ovary Syndrome': ATIME, a Jewish Fertility Organization, Monsey, NY
- xi. January 2011: WebMD: Predicting Your Menopause Age
- xii. November 2011: YourCentralValley.com: Predicting Your Menopause Age
<http://www.yourcentralvalley.com/webmd/menopause/story/Predicting-Your-Menopause-Age-What-Factors-Matter/d/story/7LMnjfPZFUjYW6SgOSSLW>
- ii. May 2011: Endocrine Today: Significance of Obesity in Menopausal Women
<http://goo.gl/TB4TjT>
- iii. June 2011: Denver Channel 9 KUSA: Menopause Line 9
- iv. October 2011: Lunch & Learn: Options in HRT during Menopause
- v. November 2011: MORE Magazine: Outsmart Perimenopause
- vi. February 2012: Menopause Journal: HRT
- vii. March 2012: HEALTH magazine: Memory & Attention in Menopausal Women
- viii. November 2012: SHAPE magazine: Hormones and Visceral Fat
- ix. February 2013: WebMD: Treating Low Sex Drive:
<http://www.webmd.com/menopause/news/20000830/easing-into-menopause>
- x. March 2013: Medscape: Estradiol Testing
- xi. May 2013: Denver CH 31 (KDVR) Women Seek Right Treatment for Menopause

- xii. July 2013: BP Magazine: Influence of Hormones during menopause on bipolar disorder
- xiii. December 2013: Recording for ACOG Update: PCOS
- xiv. February 2014: Medscape: Valentine's Day Endo Society Seminar: Endocrinology of Love
- xv. June 2014: Seleni.org: Perimenopause & Infertility
- xvi. July 2014: Philadelphia Inquirer: Menopausal Hormone Therapy and Heart Disease
- xvii. July 2014: VOGUE Magazine: The Ageless Body
- xviii. August 2014: Lifescript.com: Menopause and Belly Fat

12) TEACHING RECORD

- | | |
|--------------|---|
| 2006-present | Patient, Doctors, and Communities Faculty Facilitator |
| 2004-present | Thesis supervisor for Medical Endocrinology Fellows:
Dana Rochester, MD
Rachna Relwani, MD |
| 1998-present | Masters' Thesis Supervisor for K30 Trainees:
Lubna Pal, MD, MSc
Alex Polotsky, MD, MSc
Marsha Guess, MD, MSc
Kavitha Ram, MD, MSc
Jessica Rieder MD, MSc (Adolescent Medicine; Pediatrics)
Unab Khan, MD, MSc (Adolescent Medicine; Pediatrics) |
| 1988-1998 | Medical Student Research Supervisor: Students supervised:
Dena Elzhar
Lynn Gretkowski
Frank Curwin
Renee Johanensen-Novello
Kristine Chu |
| 1998-present | Medical Student Honors Thesis Project Supervisor: Students supervised:
Alex Polotsky
H Irene Su
Cary Dicken
Katie Zhang
Sofia Feng
Julia Keltz
Alexander Kucherov |
| 1998-present | Summer Student Preceptor: Students supervised:
Aimee Nussbaum
Laura Weingart
Alex Polotsky
Katie Zhang
Megan Fannon
Maria Fan
Bat-Sheva Maslow
Ali Ghods
Antoinette Sakaris |

Divya Gupta
Stacea Bowen
Ellen Diament
Ele Yousefzadeh
Netta Schneller
Cary Dicken
Katie Berenbaum

- 1998-present Medical student and resident core REI lecture series speaker
- 1995-1996 Introduction to Clinical Sciences lecturer to medical students
- 1994-present National Postgraduate Course Speaker, SREI, ASRM, Pacific Coast Fertility Society, ACOG (national and District II, III and IX speaker), North American Menopause Society, various regional and national symposia
- 1991-present 2-hour, weekly small-group teaching sessions with REI Fellows, thesis supervision, personal mentoring:
Peter McGovern, MD
Maria Saketos, MD
Taonei Mushayandebvu, MBBCh
Jessica Rosenberg Brown, MD
Rahul Sachdev, MD
Daniel Stein, MD
Judi Lee Chervenak, MD
Drew Tortoriello, MD
Gil Wilshire, MD
Kevin Lederer, MD
Linda Corenthal, MD
Peter Kovacs, MD
Greg Zapantis, MD
Sophia Ouhilal, MD
Mira Aubuchon, MD
Nora Miller, MD
Lubna Pal, MD, MSc
Genevieve Neal-Perry, MD, PhD
Alex Polotsky, MD, MSc
Josh Hurwitz, MD
Satu Kuokkanen, MD, PhD
Keri Greenseid, MD
Alison Silverberg Peck, MD
Allison Styne, MD
Michael Traub, MD
Matt Lederman, MD
Erkan Buyuk, MD
Eli Rybak, MD
Cary Dicken, MD
Marie Menke, MD, MSc
Isiah Harris, MD, MSc

Lauren Roth, MD
Sahar Stephens, MD
Zain Al-Safi, MD
Malgorzata (Gosia) Skaznik-WikleL, MD
Natalia Grindler, MD

- 1991-1998 First Year Medical Student Lecturer for Physiology Course-Ovarian Physiology Block-lecture (2) and Case presentations (2) - 6 hours, UMDNJ-NJMS
- 1989-present Faculty Sponsor, Resident Research Projects: Residents supervised:
Christine Lloyd, MD
Nisha Malik, MD
Tony Huang, MD
Stephanie Lester, MD
Rhonda Hearn, MD
Satu Kuokkanen, MD, PhD
Lauren Ross, MD
Polina Rovner, MD
- 1988-present Clinical bedside instruction to medical students, residents and fellows in Obstetrics and Gynecology and Reproductive Endocrinology

13) GRANT SUPPORT

a. Principal Investigator of NIH grant—CURRENT SUPPORT

NIH-1R25HD075737-01 (PI: N. Santoro)
The Clinical Research/Reproductive Scientist Training Program (CREST)
04/15/13-03/31/18
Total:

NIH-U01AG12535 (PI: C. Derby)
SWAN—the Study of Women’s Health Across the Nation: NJ Site
9/01/14-8/31-19
Total: \$2,563,257

NIH-2K12HD001271-11 (Santoro, PI)
Colorado WRHR Career Development Center
07/30/99 – 03/31/15
Amount: \$440,000

b. co-Investigator of NIH grant—CURRENT SUPPORT

NIH HD U54 HD058155 (PI: J. Pollard) Center for the Study of Reproductive Biology, part of the Specialized Centers Program for Research in Reproduction
Project 1: Progesterone action in the uterus of mice and women (J. Pollard, PI):
N. Santoro, co-Investigator
Project 2: Reproductive Hormonal Alterations in Obesity (N. Santoro, PI)

5/01/09-4/30/15 (no cost extension)
Amount: \$1,031,000

NIH/NICHD1K12HD057022-06 (Regensteiner/Santoro MPI)
Building Interdisciplinary Careers in Women's Health
6/30/~~2007~~-7/31/2017
Total: \$449,906

NIH-1R01HL105647-01A1 Revised (Thurston, PI)
Mechanisms linking hot flashes to cardiovascular risk
09/01/~~2011~~-07/31/2016
Total: \$447,906

c. Principal Investigator of Foundation or Pharmaceutical grant—PAST SUPPORT

2012-present Effectiveness of Perimenopausal Hormone Therapy in Suppression of Ovulation,
Stabilization of Reproductive Hormones
Bayer HealthCare
Amount: \$325,000

2013-present Subcutaneous administration of pulsatile gonadotropin releasing hormone for primary
hypogonadotropic hypogonadism
Ferring Pharmaceuticals
Amount: \$75,000

d. PAST SUPPORT

1. Principal Investigator of an NIH Grant

NIH –U01 AG12535 (PI: N. Santoro)
SWAN, the Study of Women's Health Across the Nation: NJ Site
11/1/03-4/30/09
Amount: \$2,563,257

NIH R21-DK069349-01 (PI: N. Santoro)
Reproductive Hormonal Effects of Weight Loss in Women
10/1/04-9/30/08 (no cost extension)
Amount: \$167,000

NIH K24 HD041978 (PI: N. Santoro) Establishment of Regular Ovulation in Normal Menarche
3/01/02-2/28/07
Amount: \$415,487

NIDA R01-DA13564 (PI: E. Schoenbaum, co-PI: N. Santoro)
Natural History of Menopause in HIV Infected Drug Users
9/1/00 - 8/30/05
Amount: \$ 4,484,698

NIH AG-12222 (PI: N. Santoro) The Reproductive Physiology of Ovarian Failure
4/1/00-3/31/04
Amount: \$2,276,717

NIH 9-526-2698 (PI: N. Santoro) Diabetes Research and Training Center Feasibility Study: Insulin Resistance and SHBG in Polycystic Ovary Syndrome
12/1/98-11/30/00
Amount: \$52,000

NIH1-AG1222 (PI: N. Santoro) The Reproductive Physiology of Ovarian Failure
12/1/94 - 11/30/98
Amount: \$1,194,508

NICHHD K08 Clinical Investigator Award (PI: N. Santoro)
The Reproductive Physiology of Ovarian Failure
8/1/90-7/31/93
Amount: \$250,000

2. co-Investigator of an NIH Grant

2002-2004 National Institute for Child Health and Human Development (NICHD) R03:
HD042017 (M.Charron, PI) Glucose metabolism in the human ovary
12/1/02-11/30-04
Amount: \$167,000
5% effort

1999-2008 NIH - 1K30HL04110-01 (P. Marantz, PI)
Clinical Research Training Center: Post-graduate Training Program in Clinical
Research Methodology
Total cost for Dr. Santoro: \$ 8,335 (5% effort)

1998-2005 (S. Smoller, PI) WH-93-30-E/W Clinical Center for the Clinical Trial and
Observational Study of the Womens Health Initiative, NIH/NHLBI
No effort: Dr. Santoro's role: Adjudicator and Unblinding Officer

1993-1998 (N. Lasser, PI) NO1-WH-3-2110 Vanguard Clinical Centers for Clinical Trial and
Observational Study of the Women's Health Initiative
3/15/93 - 9/14/05 Total Amount: \$13,068,798
Variable effort: Dr. Santoro's Role: Clinic Gynecologist,
Unblinding Officer

1984-1986 National Institutes of Health (NIH) 5T32 AMO 7028-12 (J. Potts, PI)
NIH Fellowship Training Grant, Department of Medicine
Massachusetts General Hospital/Harvard Medical School
7/1/84-6/30/87
75% effort

1984-1986 National Cancer Institute (NCI) CA 30687 (D. MacLaughlin, PhD, and George S
Richardson, PIs).

Protein Production by the Human Uterus
7/1/84 - 6/30/86
Amount of Grant: \$250,000
Variable effort for Dr. Santoro

1987-1988 National Institute for Child Health and Human Development HD 15080 (WF
Crowley, Jr, PI) Pulsatile LHRH Therapy in Anovulatory Infertility
4/1/87 - 3/31/92
Amount of Grant: \$1,291,000
Variable effort for Dr. Santoro

3. Past Support: Pharmaceutical/Foundation Grants

2004-2013 Kronos Longevity Research Institute (KLRI)
KEEPS- The Kronos Early Estrogen Prevention Study
Amount: \$990,000

2007 A Multicenter Study of Subcutaneous GnRH Compared to Clomiphene Citrate in
Women with Anovulatory Infertility. Ferring Pharmaceuticals
Amount: \$15,000

1996 Solvay Pharmaceuticals, Evaluation of the relative amounts of circulating
androgens in perimenopausal women.
1996 - 1998
Amount: \$35,000

1994 Serono Laboratories - Protocol #6905 An open, randomized, dose-finding,
multicenter study to determine the minimal effective dose and to assess the
safety of recombinant human luteinizing hormone (r-hLH) to support
recombinant human follicle stimulating hormone (r-hFSH)-induced follicular
development in anovulatory women with hypogonadotropic hypogonadism.
1995 -1997
Amount: \$4,998

1994 MERCK-ECLIPS Study, MK-733, PN 089, Evaluation of gonadal function in
premenopausal females on simvastatin therapy.
1994-1998
Amount: \$75,000

1992 Serono Laboratories - Protocol GF5727: A Phase III, open, randomized, parallel
group, multicenter study to compare the safety and efficacy of recombinant
human follicle stimulating hormone (Gonal-F) administered subcutaneously with
urinary human follicle stimulating hormone (Metrodin) given intramuscularly to
induce ovulation.
1992 - 1993
Amount: \$27,360

- 1990 Sub-contract: Effect of pheromones on reproductive hormone secretion in women. In collaboration with the Monell Chemical Senses Center, Philadelphia, PA (P.I.: Dr. George Preti)
Amount: \$80,000
- 1989 UMDNJ Foundation: Effect of Glucocorticoids on the Hypothalamic-Pituitary-Ovarian Axis in Women
1989-1991
Amount: \$25,000
- 1987 The Mellon Foundation (PI: William F. Crowley, Jr., M.D.)
Alterations in the Biological Activity of Follicle Stimulating Hormone
1987-1989
Amount: \$170,000

14) BIBLIOGRAPHY

a. Peer-Reviewed Publications

1. **Santoro N**, Wierman M, Filicori M, Waldstreicher J and Crowley W. Intravenous administration of pulsatile gonadotropin-releasing hormone (GnRH) in hypothalamic amenorrhea: effects of dosage. *J Clin Endocrinol Metab* 1986; 62:109-116.
2. MacLaughlin DT, **Santoro NF**, Bauer HH, Lawrence D and Richardson GS. Two-dimensional gel electrophoresis of endometrial protein in human uterine fluids: qualitative and quantitative analysis. *Biology of Reproduction*, 1986; 34:579-585.
3. Filicori M, **Santoro N**, Meriam GR and Crowley WF. Characterization of the physiological pattern of episodic gonadotropin secretion throughout the human menstrual cycle. *J Clin Endocrinol Metab* 1986; 62:1136-1144.
4. **Santoro NF**, Filicori M and Crowley WF. Hypogonadotropic disorders in men and women: Diagnosis and therapy with pulsatile GnRH. *Endocr Reviews* 1986; 7:1-23.
5. **Santoro NF**, Filicori M, Spratt DI and Crowley WF. Gonadotropin-releasing hormone (GnRH) physiology in men and women. *ACTA Medica Hungarica* 1986; 43:201-221.
6. **Santoro NF**, and Hayes MC. Case Records of the Massachusetts General Hospital: A 31-year-old woman with secondary amenorrhea. *N Engl J Med* 1987; 317:1270-1278.
7. Crowley WF Jr, Filicori M, **Santoro N**, Spratt D: Approaches to the study of GnRH in Humans: Implications for Design of Effective Therapies. *Ann NY Acad Sci* 519:269-286, 1987.
8. Waldstreicher J, **Santoro N**, Hall JE, Filicori M and Crowley WF. Hyperfunction of the hypothalamic-pituitary axis in women with polycystic ovarian disease (PCOD). *J Clin Endocrinol Metab* 1988; 66:165-172.
9. **Santoro N**, Butler JP, Filicori M, Crowley WF Jr. Alterations of the hypothalamic GnRH interpulse interval sequence over the normal menstrual cycle. *Am J Physiol* 1988; 255 (Endocrinol Metab 18):E696-E701.
10. **Santoro N**, MacLaughlin DT, Bauer HH, Hargraves AA and Richardson GS. In vitro protein production by the human endometrium. *Biol Reprod* 40:1047-1055, 1989.
11. Hopkins CC, **Santoro NF**, Hall JE, Martin KA, Filicori M, Crowley WF Jr. Closed intravenous administration of gonadotropin-releasing hormone (GnRH): safety of extended peripheral intravenous catheterization. *Obstet Gynecol* 74:267-270, 1989.

12. **Santoro N.**: Medical Management of Uterine Leiomyomata. Clin Consultations in Obstet and Gynecol, Vol 2, No 1 (March), 1990: pp 29-34.
13. **Santoro N**, Schmidt CL: Pregnancy after an unsuccessful oocyte donation cycle. Fertil Steril 53:174, 1990.
14. **Santoro N**: Efficacy and safety of intravenous pulsatile gonadotropin-releasing hormone (GnRH) Lutrepulse for injection. Am J Obstet Gynecol 163:1759, 1990.
15. Martin K, **Santoro N**, Hall JE, Filicori M, Wierman M and Crowley WF Jr. Management of ovulatory disorders with pulsatile gonadotropin-releasing hormone. J Clin Endocrinol Metab 71:1081A, 1990.
16. **Santoro NF**, Gagliardi CL, Colon JM, Loughlin J, Wolf S, Weiss G, Schmidt CL: New Reproductive Technologies. N Eng J Med 325:1043-1044, 1991 (Letter)
17. **Santoro N**, Schneyer AL, Ibrahim J, Schmidt C: Gonadotropin and inhibin concentrations in early pregnancy in women with and without corpora lutea. Obstet Gynecol 79:579-585, 1992.
18. Brown JR, Skurnick J, Sharma N, Adel T, **Santoro N**: Frequent Intermittent ovarian function in women with premature menopause: A longitudinal study. Endocrine Journal 1:467-474, 1993.
19. Saketos M, Sharma N, **Santoro N**: Suppression of the hypothalamic-pituitary ovarian axis in women by glucocorticoids. Biol Reprod 49:1270-1276, 1993.
20. Saketos M, Sharma N, **Santoro N**: Utility of time-resolved fluorescent immunoassay techniques for urinary gonadotropin measurement. Clinical Chemistry 40:(5)749-753, 1994.
21. Colon J, **Santoro N**, Goldsmith LT, Whitcomb R, Musket D, Weiss G: Relaxin secretion into human semen is independent of gonadotropin stimulation. Biol Reprod 50:187-192, 1994.
22. Corenthal L, Von Hagen S, Larkins D, Ibrahim J, **Santoro N**: Benefit of continuous physiologic pulsatile gonadotropin releasing hormone (GnRH) therapy in women with polycystic ovarian syndrome (PCOS). Fertil Steril 61:1027-1033, 1994.
23. Wilshire GB, Loughlin JS, Brown JR, Adel TE, **Santoro N**: Diminished function of the somatotrophic axis in older reproductive-aged women. J Clin Endocrinol Metab 80:608-613, 1995.
24. Naz RK, Thurston D, **Santoro N**: Circulating tumors necrosis factor (TNF)- α in normally cycling women and patients with premature ovarian failure and polycystic ovaries. Am J Reprod Immunology 34:172-175, 1995.
25. **Santoro N**, Brown JR, Adel T, Skurnick J. Characterization of Reproductive Hormonal Dynamics in the Perimenopause. J Clin Endocrinol Metab 81:1495-1501, 1996.
26. Mushayandebvu T, Castracane VD, Gimpel T, Adel T, **Santoro N**: Evidence for diminished midcycle ovarian androgen production in older reproductive aged women. Fertil Steril 65(4):721-723, 1996.
27. **Santoro NF**: Hormonal changes in perimenopause. Clinical Consultations in Obstetrics and Gynecology 8(1):2-8, 1996.
28. Mushayandebvu T, **Santoro N**, Colon JM. A Case of Pendred's Syndrome Presenting with Amenorrhea. Gynecol Obstet Invest 42:277-278, 1996.
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82. **Santoro N**, Torrens I. J, Crawford L. S, Allsworth A. J, Finkelstein S. J, Gold B. E, Koreman B.S, Lasley L. W, Luborsky L. J, Sowers F. M. Correlates of Circulating Androgens in Mid-Life Women: The Study of Women's Health Across the Nation (SWAN). Society for Gynecologic Investigation 52nd Annual Meeting, Los Angeles, CA, March 23-26, 2005, Abstract #280
83. Aubuchon M, Niklaus L. A, Zapantis G, Isaac B, Adel G, **Santoro N**, Pollard J. Human Endometrium From Mid Reproductive Age to Menopausal Transition MRNA and Protein Expression of Cell Cycle Markers and Steroid Hormone Receptors in Laser Captured Luminal and Glandular Epithelia. Society for Gynecologic Investigation 52nd Annual Meeting, Los Angeles, CA, March 23-26, 2005, Abstract #306
84. Neal-Perry G, Santoro F. N, Etgen A. Reduced Excitatory Glutamatergic Neurotransmission: A Neuroendocrine Basis for Female Reproductive Senescence. Society for Gynecologic Investigation 52nd Annual Meeting, Los Angeles, CA March 23-26, 2005, Abstract #662.
85. Ghods A, Pollack S, Adel G, Isaac B, Zhang K, **Santoro N**. Rapid Onset of Ovulation After Menarche. Society for Gynecologic Investigation 52nd Annual Meeting, Los Angeles, CA March 23-26, 2005, Abstract #705
86. Weiss G, Skurnick JH, Goldsmith LT, **Santoro NF**, Park SJ: Human Menopause Involves Decreased Hypothalamic-Pituitary Sensitivity To Estrogen: The Study of Women's Health Across the Nation (SWAN). Society for Gynecologic Investigation 52nd Annual Meeting, Los Angeles, CA March 23-26 2005, Abstract #913
87. **Santoro N**. The Menopause Transition. Presented at the State-of-the-Science Conference on Management of Menopause-Related Symptoms, National Institutes of Health, Bethesda, Maryland, March 2005.
88. Jindal SK, Zapantis A, Nihsen M, Lieman HJ, Barad D, **Santoro N** Comparison of Embryo Quality From Sibling Zygotes Cultured in G1v3 or QHTF Media. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # O-44.
89. **Santoro N**. Decreased luteal activity is associated with entry into the menopausal transition as well as high body mass index. The Endocrine Society's 87th Annual Meeting, June 4-7, 2005, San Diego, CA.
90. Pal L, Bevilacqua K, Norian J, Bowen S, Skorupski J, **Santoro NF**: Dysthymic mood parameters associate with underlying cause for infertility. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # O-47
91. Hurwitz JM, Jindal S, Pal L, **Santoro N**: Pregnancy outcome of IVF cycles is unrelated to ovarian granulosa cell characteristics, but is predicted by progesterone (P) elevations post-hCG. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # O-224.
92. Bowen SN, Norian J, Skorupski JC, Akoma UN, **Santoro NF**, Pal L: Single ovarian measurements (length and width) are independent predictors of ovarian reserve. American Society For

- Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # O-227.
93. Pal L, Bowen S, Bevilacqua K, Soskin L, Lederman M, **Santoro NF**: Higher reporting of sexual dissatisfaction by female partners in couples with male factor infertility. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # O-326.
 94. Polotsky AJ, Daif J, Jindal S, Lieman HJ, **Santoro N**, Pal L: Successful outcome of a fresh embryo transfer cycle is the most important predictor of success with sibling frozen embryos. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # P-72.
 95. Hurwitz JM, Lederman MA, Jindal SK, Lieman HJ, **Santoro N**: Embryo Donation (ED): an increasingly popular option in the United States. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract #P-241.
 96. Jain A, Esquenazi B, Jindal SK, Pal L, Pollack SE, **Santoro NF**: 1-Pronuclear embryos are independent predictors of clinical pregnancy in oocyte donor recipients. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # P-328.
 97. Jindal SK, Zapantis K, Zapantis A, Lieman HJ, Barad D, **Santoro N**: Does injection of immature oocytes during ICSI increase the number of embryos for transfer? American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # 822.
 98. Traub M, Jindal SK, Hickmon CA, Barad D, **Santoro N**: Forward progression of sperm is predictive of successful fertilization with ICSI. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # P-843.
 99. Niklaus AL, Aubuchon M, Zapantis G, **Santoro NF**, Pollard JW: From mice to women: the use of LCM to identify novel epithelial specific genes and pathways that constitute a receptive endometrium. American Society For Reproductive Medicine and Canadian Fertility and Andrology Society Annual Meeting, October 15-19, 2005, Montreal, Quebec, Abstract # 603.
 100. Peck AC, Pal L, **Santoro N**, Etgen AM: Central pathway mediating suppressive effects of Estradiol on feeding behavior in female rats do not involve IGF receptors. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 294.
 101. Ouhilal S, Karporsky C, Fields J, Heyman K, **Santoro N**, Charron MJ, Witters L. An embryo transfer model to evaluate the impact of maternal hypoglycemia on fetal programming: A novel way to differentiate nurture from nature. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 365.
 102. Hurwitz JM, Jindal S, Pal L, Chandrasekaran A, Goodwin L, **Santoro N**. Reproductive aging alters luteinized granulosa cell gene expression. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 589.
 103. **Santoro N**. Increased body size, prior menstrual irregularity and Hispanic ethnicity are associated with decreased luteal function in women traversing the menopause. Society for Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006.
 104. Niklaus AL, Aubuchon M, Zapantis G, **Santoro NF**, Pollard JW: From mice to women: the use of LCM to identify novel epithelial specific genes and pathways that constitute a receptive endometrium. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 603.

105. Peck AC, Bowen SN, Skorupski JC, Gauhar Z, **Santoro NF**, Pal L: Serum insulin levels independently predict ovarian size. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 619.
106. Pal L, Hailpern S, **Santoro N**, Barad D, Freeman R, Bamabei V, Kipersztok S, Smoller S: Pelvic organ prolapse: A 'sinister marker' for fragility fractures: baseline data from the women's health initiative estrogen and progesterone (E&P) trial. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 659.
107. **Santoro NF**, Sulton-Tyrrell K, Brockwell S, Johnston J, Harlow S, Gold EB, Matthews KS: 'Doctor, when is this going to end?' Helping women predict the onset of their final menses. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 847.
108. **Santoro NF**, Crawsford SL, Swan DHS Writing Group: Age, increased body size, menstrual irregularity and Hispanic ethnicity are associated with decreased luteal function in women traversing the menopause. Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 848.
109. Pal L, Zhang K, Zeltian G, Adel G, **Santoro N**: Central (Pituitary) and peripheral (ovarian) levels of the HPO axis altered in premenopausal women with diminished ovarian reserve (DOR). Society of Gynecologic Investigation 53rd Annual Meeting, Toronto, Canada, March 22-25, 2006, Abstract # 849.
110. Pal L, Hailpern, Norian J, Bowen S, Zeitlian G, Adel G, Freeman R, **Santoro NF**: Ovarian parameters are predictive of bone density and metabolism in young infertile women. The Endocrine Society's Annual Meeting, Boston, MA, June 24-27, 2006, Abstract# P3-519.
111. Jain A, Polotsky AJ, Gibbs K, Loucks, Berga SL, Issac B, Adel G, Zeitlian G, Polotsky H, **Santoro N**. The reproductive phenotype of obesity: Hypogonadotropic hypogonadism due to a selective deficiency in LH pulse amplitude. The Endocrine Society Annual Meeting, Boston, MA, June 24-27, 2006, Abstract# OR53-2.
112. Norian J, Zeitlian G, Adel G, Freeman RG, **Santoro N**, Pal L. Serum osteoprotegerin levels are predictive of bone mineral density in premenopausal infertile women. Presented at the American Society for Bone and Mineral Research, September 2006, J Bone Min Res 2006; 21:S354-S355.
113. Ram KT, Bobby PD, Hailpern SM, Lo J, **Santoro N**, Schocken M, Skurnick JH. Lactation is associated with reduced risk of the metabolic syndrome in midlife: SWAN, the Study of Women's Health Across the Nation. North American Menopause Society Annual Meeting, October 12-15, 2006.
114. Pal L, Norian J, Freeman R, **Santoro NF**: Vasomotor symptoms in regularly cycling premenopausal infertile women: Heretofore unappreciated indicators of low bone density. American Society of Reproductive Medicine 62nd Annual Meeting, October 21-25, 2006, New Orleans, LA, Abstract # O-104.
115. Greenseid K, Merhi Z, Jindal S, Lieman H, **Santoro N**, Pal L: Race and infertility diagnosis predict clinical pregnancy among IVF patients with elevated FSH levels. American Society of Reproductive Medicine 62nd Annual Meeting, October 21-25, 2006, New Orleans, LA, Abstract # O-284.
116. Daif JL, Polotsky AJ, Jindal S, Lieman HL, **Santoro N**, Pal L. Post HCG progesterone levels predict success of future FET cycles. American Society of Reproductive Medicine 62nd Annual Meeting, October 21-25, 2006, New Orleans, LA, Abstract # P-200.
117. Kuokkanen S, Hurwitz J, **Santoro N**, Jindal S, Pal L: Intra-ovarian mechanisms in diminished ovarian reserve (DOR): Exploring apoptotic pathways using gene expression analysis in human luteinized granulosecells. American Society of Reproductive Medicine 62nd Annual Meeting, October 21-25, 2006, New Orleans, LA, Abstract # P-731.

118. Jain A, Tomuta V, Pal L, Amin H, Freeman R, Stein D, **Santoro N**. The mixed meal tolerance test (MMTT)—towards superior prediction of glucose intolerance in newly menopausal women: an ancillary to the Kronos Early Estrogen Prevention Study (KEEPS) Society for Gynecologic Investigation 54th Annual Meeting, March 15-17, 2007, Reno NV, #P76.
119. Polotsky AJ, Hailpern S, Skurnick J, Sternfeld B, **Santoro N**. Adolescent obesity exerts a detrimental effect on lifetime parity independent of adult body mass: baseline data from the Study of Women's Health Across the Nation (SWAN). Society for Gynecologic Investigation 54th Annual Meeting, March 15-17, 2007, Reno NV, #O595.
120. Rochester D, Jain A, Polotsky AJ, Polotsky HN, Gibbs K, Isaac B, Feng S, **Santoro N**. Partial recovery of luteal function after bariatric surgery induced weight loss in women. The Endocrine Society's 89th Annual Meeting, Toronto, CA, June 12-16, 2007.
121. Polotsky AJ, Hailpern SM, Neal-Perry G, **Santoro N**. Ethnicity affects involuntary childlessness and etiology of infertility: data from the Study of Women's Health Across the Nation (SWAN). The Endocrine Society's 89th Annual Meeting, Toronto, CA June 12-16, 2007.
122. Polotsky AJ, Rochester D, Jain A, Zeitlian G, Gibbs K, **Santoro N**. Normalization of reproductive hormones, insulin resistance and adipokines after bariatric surgery occurs in the absence of a rise in reverse T3. American Society for Reproductive Medicine 63rd Annual Meeting, Washington, DC, October 13-17, 2007, Abstract P-238.
123. Neal-Perry G, Shu J, **Santoro N**, Etgen A. Kisspeptin: the alpha and omega of reproduction. American Society for Reproductive Medicine 63rd Annual Meeting, Washington, DC, October 13-17, 2007, Abstract O-192.
124. Liu Z, Niklaus A, Pollack S, **Santoro N**, Pollard J, Pal L. Genetic heterogeneity underlies pathogenic mechanisms in endometrial polyps. American Society for Reproductive Medicine 63rd Annual Meeting, Washington, DC, October 13-17, 2007, Abstract P-275.
125. Pal L, Zeitlian G, Shu, J, Hickmon C, Bevilaqua K, **Santoro N**. Diminished ovarian reserve (DOR)...it is not just about fertility. American Society for Reproductive Medicine 63rd Annual Meeting, Washington, DC, October 13-17, 2007, Abstract P-510.
126. Derby CA, Wildman RP, McGinn AP, Green RR, Polotsky AJ, Ray L, Ram KT, Weiss G, **Santoro N**. Cardiovascular risk factor variation within a Hispanic cohort: SWAN, the Study of Women's Health Across the Nation. American Heart Association 48th Cardiovascular Disease Epidemiology and Prevention Annual Conference, Colorado Springs, CO, March 2008.
127. McGinn AP, Green RR, Polotsky AJ, Derby CA, Wildman RP, Ray L, Ram KT, Weiss G, **Santoro N**. The relationship between psychosocial status, acculturation and country of origin in mid life Hispanic women: data from the Study of Women's Health Across the Nation. American Psychosomatic Society Annual Meeting Baltimore, MD, March 2008.
128. Polotsky AJ, Zhu L, **Santoro N**, Pollard JW. Translating mouse to human: a dynamic model of xenografted human endometrium. Society for Gynecologic Investigation March 2008. San Diego, CA.
129. Saunders-Pullman R, Katz M, Zimmerman M, **Santoro N**, McConnell D, Zeitlian G, Baseley D, Stanley K, Lipton R, Derby C. Endogenous sex hormones, testosterone, dehydroepiandrosterone-sulfate (DHEAS) and estradiol, and cognition: results from the Einstein Aging Study. *Neurology* 2008; 70 (Suppl 1): A278.
130. Van Voorhis BJ, **Santoro N**, Harlow S, Crawford SL, Randolph JF. The relationship of bleeding patterns to daily reproductive hormones in women approaching menopause. *Reprod Sci* 2008; 15:310A, Abstract #888.
131. Green RR, Polotsky AJ, McGinn AP, Deby CA, Wildman RP, Ray L, Ram KT, Weiss G, **Santoro N**. Variation in menopausal symptoms within a sample of Hispanic women: SWAN, the Study of

- Women's Health Across the Nation. Society for Gynecologic Investigation, March 2008, San Diego, CA.
132. Madankumar R, Pal L, Freeman R, Amin H, Isaac B, Magnani M, Figueroa A, Alemany L, **Santoro NF**. Comprehension of risks and benefits of hormone replacement therapy responses to informed consent questionnaires from the Kronos Early Estrogen Prevention Study (KEEPS). Society for Gynecologic Investigation, March 2008, San Diego, CA.
 133. McGinn AP, Green RR, Polotsky AJ, Derby CA, Wildman RP, Ray L, Ram KT, Weiss G, **Santoro N**. The relationship between psychosocial status, acculturation and country of origin in mid life Hispanic women: data from SWAN. American Psychosomatic Society Annual Meeting, Baltimore, MD, March 2008.
 134. Polotsky AJ, Rochester D, Jain A, Gibbs K, Zeitlian G, Polotsky H, Isaac B, **Santoro N**. Improved adipokine profiles, but persistent vitamin D deficiency after bariatric surgery induced weight loss in women. The Endocrine Society's 89th Annual Meeting, June 2008, San Francisco, CA.
 135. Traub M, Jain A, Maslow B, Pal L, Stein D, **Santoro N**, Freeman R. The 'muffin test'—an acceptable alternative to an OGTT to detect impaired glucose tolerance (IGT)-preliminary findings from the KEEPS Study. The Endocrine Society's 89th Annual Meeting, June 2008, San Francisco, CA.
 136. **Santoro N**, Komi J. High prevalence and impact of vaginal symptoms among postmenopausal women. The North American Menopause Society's 19th Annual Meeting. September 2008, Orlando, FL. Abstract P-51.
 137. Pal L, Hailpern SM, **Santoro NF**, Freeman R, Barad D, Kipersztok S, Barnabei VM, Wasserthiel-Smoller S. Increased risk of hip fractures in postmenopausal women with moderate-severe pelvic organ prolapse: analysis of data from the Women's Health Initiative Estrogen Plus Progestin (WHI E plus P) Trial. The North American Menopause Society's 19th Annual Meeting. September 2008, Orlando FL. Abstract S-9.
 138. Polotsky AJ, Rochester D, Jain A, Gibbs K, Zeitlian G, Polotsky, Isaac B, **Santoro N**. Reduced FSH restraint by markedly depressed inhibin B secretion reverses after surgically induced weight loss in morbidly obese women. American Society for Reproductive Medicine's 64th Annual Meeting, November 8-12, 2008, San Francisco, CA.
 139. Buyuk E, **Santoro N**, Charron M, Jindal S. Expression of distinct isoforms of nerve growth factor receptor TrkA in the human ovary. Society for Gynecologic Investigation Annual Meeting, Glasgow, Scotland, March 17-21, 2009, Abstract #1011.
 140. Buyuk E, **Santoro N**, Charron M, Jindal S. Neurotrophin receptor p75(NTR) is differentially expressed in human mural and cumulus granulosa cells. Society for Gynecologic Investigation's 56th Annual Meeting, Glasgow, Scotland, March 17-21, 2009, Abstract #1012.
 141. Kuokkanen S, Benard L, Chen B, **Santoro N**, Pollard JW. Interactions of microRNAs and cell cycle regulators in hormonal action in human endometrium. Society for Gynecologic Investigation's 56th Annual Meeting, Glasgow, Scotland, March 17-21, 2009, Abstract #1033.
 142. Crawford, SL, Laughlin G, McConnell DS, **Santoro N**, Sowers, MF, Sutton-Tyrrell K, Vuga M, Weiss G. An inflection of circulating DHEAS is related to ovarian status during the menopausal transition. The Endocrine Society's 90th Annual Meeting, June 10-13, 2009, Washington, DC.
 143. Zhang K, Zeitlian G, **Santoro N**, Pal L. Reproductive hormone dynamics identify distinctions between diminished ovarian reserve (DOR) and chronological aging. American Society for Reproductive Medicine's 65th Annual Meeting, October 19-21, 2009, Atlanta GA, Abstract O-95.
 144. Saunders-Pullman R, Derby C, **Santoro N**, Bressman S, Chiu B, Lipton RB, Wasserthiel-Smoller S. Role of endogenous and exogenous hormone exposure in the risk of Parkinson Disease: results from the Women's Health Initiative Observational Study. *Neurology* 2009; 72:A257.

145. Rybak E, Szmyga MJ, Banks EH, Whitney KD, Polotsky AJ, **Santoro N**, Meier UT. Uniform expression of the nucleolar channel system throughout the endometrial cavity during the implantation window. Society for Gynecologic Investigation, 57th Annual Meeting, Orlando, FL March 24-27, 2010, Abstract #266.
146. Keltz JG, Zapantis A, Jindal S, Lieman HJ, **Santoro N**, Polotsky AJ. Male overweight infertility patients: decreased clinical pregnancy after IVF but not after ICSI. . Society for Gynecologic Investigation, 57th Annual Meeting, Orlando, FL March 24-27, 2010, Abstract #774.
147. Polotsky AJ, Younger J, Chen H, Keltz J, Chuang M, Zeitlian G, Isaac B, Pollack S, Rieder J, **Santoro N**. High molecular weight adiponectin as a marker of polycystic ovary syndrome in adolescent girls. . Society for Gynecologic Investigation, 57th Annual Meeting, Orlando, FL March 24-27, 2010, Abstract #641.
148. Rybak E, Szmyga MJ, Zapantis G, Rausch M, Beshay V, Polotsky AJ, Coutifaris C, Carr BR, **Santoro N**, Meier UT. The nucleolar channel system reliably marks the midluteal endometrium regardless of fertility status: a fresh look at an old organelle. . Society for Gynecologic Investigation, 57th Annual Meeting, Orlando, FL March 24-27, 2010, Abstract #243.
149. Polotsky AJ, Allshouse AA, Crawford SL, Harlow SD, Khalil N, Kazlauskaitė R, **Santoro N**, Legro R. Incident metabolic syndrome is not increased in women with hyperandrogenic oligomenorrhea across menopausal transition: longitudinal follow-up from the Study of Women's Health Across the Nation (SWAN). Abstract SAT-4, Endocrine Society Annual Meeting, June 23–26, 2012.
150. Ross LA, Polotsky AJ, Kucherov A, Bradford AP, Lesh J, Chosich J, **Santoro N**. Aromatase inhibition normalizes luteal function but dramatically reduces estrone conjugate excretion in obese women. Abstract SAT-5, Endocrine Society Annual Meeting, June 23–26, 2012.
151. Roth LW, Polotsky AJ, Bradford AP, Lesh J, Chosich J, Kohrt W, **Santoro N**. Relative hypogonadism in obese women is explained by a blunted pituitary response to GnRH. Abstract OR25-4, Endocrine Society Annual Meeting, June 23-26, 2012. Platform presentation and Clinical Research Fellowship & Mentor Award.
152. Taylor H, Harman SM, Pal L, Minkin MJ, Wolff E, Black D, Brinton E, Budoff M, Cedars M, Hodis H, Lobo R, Manson JE, Merriam G, Miller VM, Naftolin F, Neal-Perry G, **Santoro N**. Effects of oral vs transdermal estrogen vs placebo on sexual function over time in the Kronos Early Estrogen Prevention Study (KEEPS). Abstract S-9, North American Menopause Society Annual Meeting, October 3-6, 2012.
153. Brinton E, Nanjee N, Hopkins PN, **Santoro N**, Neal-Perry G, Taylor H, Naftolin F, Lobo R, Merriam G, Manson JE, Cedars M, Miller VM, Black D, Budoff M, Hodis H, Harman SM. Oral estrogen vs transdermal estrogen effects on lipids and lipoproteins in recently menopausal women: the Kronos Early Estrogen Prevention Study (KEEPS). Abstract P-88, North American Menopause Society Annual Meeting, October 3-6, 2012.
154. Gleason C, Wharton W, Dowling M, Brinton E, **Santoro N**, Neal-Perry G, Taylor H, Naftolin F, Lobo R, Merriam G, Manson JE, Cedars M, Miller VM, Black D, Budoff M, Hodis H, Harman SM, Asthana S. The Kronos Early Estrogen Prevention Study—cognitive and affective sub-study (KEEPS-CA): menopausal hormone therapy effects on mood, quality of life, and memory complaints. Abstract P-89, North American Menopause Society Annual Meeting, October 3-6, 2012.
155. Naftolin F, Harman SM, Black D, Brinton E, Budoff M, Cedars M, Lobo R, Manson JE, Merriam G, Miller VM, Neal-Perry G, Santoro N, Taylor H, Yan M, Hodis H. Adverse events during four years of daily oral conjugated estrogen or transdermal estradiol plus cyclic oral progesterone treatment in recently menopausal women: the Kronos Early Estrogen Prevention Study (KEEPS). Abstract P-90, North American Menopause Society Annual Meeting, October 3-6, 2012.
156. Rexrode K, Manson JE, Kalan K, Lobo R, Freeman R, Cedars M, Brinton E, Merriam G, Naftolin F, Hopkins PN, Black D, Taylor HS, Neal-Perry G, **Santoro N**, Miller VM, Harman SM, Tamimi R.

- Effects of oral conjugated estrogen or transdermal estradiol plus oral progesterone treatment on breast outcomes among menopausal women in the Kronos Early Estrogen Prevention Study (KEEPS). Abstract P-92, North American Menopause Society Annual Meeting, October 3-6, 2012.
157. **Santoro N**, Naftolin F, Black DM, Brinton EA, Budoff MJ, Cedars MI, Dowling M, Gleason CE, Hodis H, Lobo RA, Manson JE, Merriam GR, Miller VM, Neal-Perry G, Pal L, Taylor HS, Wharton W, Wolff E, Harman SM. Change over time in menopausal symptoms in women randomized to oral conjugated estrogen or transdermal estradiol plus micronized progesterone versus placebo: the Kronos Early Estrogen Prevention Study (KEEPS). Abstract P-93, North American Menopause Society Annual Meeting, October 3-6, 2012.
 158. Wharton W, Brinton E, **Santoro N**, Neal-Perry G, Taylor H, Naftolin F, Lobo R, Merriam G, Manson JE, Cedars M, Miller VM, Black D, Budoff M, Hodis H, Gleason C, Dowling M, Asthana S, Harman SM. Effect of low dose oral vs transdermal estrogen combined with cyclic oral progesterone on blood pressure measures in recently menopausal women enrolled in the Kronos Early Estrogen Prevention Study (KEEPS). Abstract P-94, North American Menopause Society Annual Meeting, October 3-6, 2012.
 159. Harman SM. Effects of oral conjugated estrogen or transdermal estradiol plus oral progesterone treatment on common carotid artery intima media thickness (CIMT) and coronary artery calcium (CAC) in menopausal women: initial results from the Kronos Early Estrogen Prevention Study (KEEPS). Plenary Symposium 1: Presidential Symposium, North American Menopause Society Annual Meeting, October 3-6, 2012.
 160. Asthana S, Gleason CE, Wharton W, Dowling NM, Carlsson CM, Brinton E, Cedars M, Lobo R, Manson JE, Merriam G, Miller VM, Neal-Perry G, **Santoro N**, Taylor H, Black D, Budoff M, Hodis H, Naftolin F, Harman SM. The Kronos Early Estrogen Prevention Study: results of the cognitive and affective sub-study (KEEPS Cog). Plenary Symposium 1: Presidential Symposium, North American Menopause Society Annual Meeting, October 3-6, 2012.
 161. Allshouse AA, El Khoudary S, Polotsky AJ, Crawford S, Chen H-Y, **Santoro N**. Consistent ovulation is not enough to make you healthy when approaching menopause: an update from SWAN. Abstract OR19-5, Endocrine Society Annual Meeting June 16-19, 2013.
 162. Polotsky AJ, Liu H, Carlson NE, Bradford AP, Lesh J, Chosich J, **Santoro N**. Exogenous estradiol improves gonadotropin sensitivity in obese women. Abstract MON-544, Endocrine Society Annual Meeting June 16-19, 2013.
 163. Roth LW, Allshouse AA, Lesh J, Polotsky AJ, **Santoro N**. Sex, Lies, and BMI: Colorado Women Tell the Truth About Their Weight. Presented at the annual meeting of the International Federation of Fertility Societies and American Society of Reproductive Medicine, October 2013, Boston, MA.
 164. Merhi Z, Polotsky AJ, Bradford AP, Buyuk E, Chosich J, Phang T, Jindal S, **Santoro N**. Adiposity alters genes important in human granulosa cell growth. Abstract F-281. Society for Gynecologic Investigation Annual Meeting, Florence, Italy, March 26-29, 2014.
 165. Polotsky AJ, Allshouse AA, Casson PR, Coutifaris C, Diamond MP, Christman Gm, Schlaff WD, Alvero R, Trussell JC, Krawetz SA, **Santoro N**, Eisenberg E, Zhang H, Legro RS and the Reproductive Medicine Network (RMN). Impact of male factors and adiposity on pregnancy and live birth in Pregnancy in Polycystic Ovary Syndrome II (PPCOS II) Trial. Abstract SUN-0063, Endocrine Society Annual Meeting, June 21-24, 2014.
 166. Al-Safi Z, Chosich J, Roth LW, Palacios-Helgeson L, Bradford AP, Polotsky AJ, **Santoro N**. Obesity and cortisol rhythm: food for thought? Abstract MON-0651, Endocrine Society Annual Meeting, June 21-24, 2014.
 167. Cedars, MI, Mumford S, Steiner AZ, Casson PR, Coutifaris C, Diamond MP, Christman GM, Schlaff WD, Alvero R, Huang J, **Santoro N**, Eisenberg E, Legro RS, Zhang H, and the Reproductive Medicine Network (RMN). Impact of AMH level on chances for ovulation in Pregnancy in Polycystic

- Ovary Syndrome II, a multi-center randomized clinical trial. Abstract OR04-4, Endocrine Society Annual Meeting, June 21-24, 2014.
168. Teal S, Sheeder J, Gavito C, Cano S, Chosich J, **Santoro N**. Estrogen—a little dab will do you in the perimenopause. Abstract P-97, P-106, North American Menopause Society 2014 Annual Meeting, October 15-18, 2014, Washington, DC.
 169. Pinkerton J, **Santoro N**. Knowledge, use and prescribing of custom-compounded bioidentical hormone for menopausal women: it's not what you think. Abstract P-89, North American Menopause Society 2014 Annual Meeting, October 15-18, 2014, Washington, DC.
 170. Al-Safi Z, Reduction of pro-inflammatory cytokines is associated with improvement in gonadotropin sensitivity in obese women. American Society for Reproductive Medicine Annual Meeting, Abstract O-4, Program Prize Paper Presentation, October 18-22, 2014.
 171. Diamond M, and the NICHD Cooperative Reproductive Medicine Network. Outcomes of the NICHD's comparative effectiveness assessment of multiple intrauterine gestations from ovarian stimulation (AMIGOS) Trial. American Society for Reproductive Medicine Annual Meeting, Abstract O-114, October 18-22, 2014.

15) PRIVATE PRACTICE

2010-present	Advanced Reproductive Medicine, UCH Anschutz Outpatient Pavilion Aurora, CO
2001-2009	Montefiore's Institute for Reproductive Medicine and Health, Hartsdale, NY
1998-2001	Faculty Practice, Institute for Women's Health, Genetics and Human Reproduction, Department of Obstetrics, Gynecology and Women's Health, AECOM
1988-1998	Faculty Practice, Center for Fertility and Reproductive Medicine UMDNJ- University Hospital
1986-1988	Massachusetts General Hospital Boston, Massachusetts (Hospital Based Practice)