

TOMI T. KANNINEN, MD

August 3th, 2014

A. PERSONAL DATA

Tel: +1 (646) 379-6983
Email: ttkanninen@gmail.com

B. EDUCATION

University of Perugia Medical School Department of Obstetrics and Gynecology Resident Perugia, Italy	6/09-7/14
University of Perugia Medical School Degree of Medicine Summa Cum Laude Perugia, Italy	9/03-10/08
Karolinska Institutet International Course in Surgery Socrates/Erasmus Scholarship Stockholm, Sweden	8/06-1/07
University for Foreigners Perugia Courses in Intensive Italian Language and Culture Perugia, Italy	1/03-3/03
University of Wisconsin-Madison BA in Psychology Madison, WI, USA	1/99-12/02

C. PROFESSIONAL ACTIVITY

Clinical Research Fellow Weill-Cornell Medical College New York, NY	1/11-present
Department of Obstetrics and Gynecology	

Division of Immunology and Infectious Diseases
Supervisor Dr. Steven S. Witkin

Conducted various clinical, translational and laboratory research projects in multiple subjects in obstetrics, gynecology and reproduction. In particular, examined the distinct immunological effects of cerclage in pregnancy, the role of genetic polymorphisms and immunological mediators in adverse pregnancy outcome, and the specific role of autophagy, a novel intracellular pathway scarcely examined in pregnancy, in preeclampsia and many other distinct processes during pregnancy and reproduction. Expanded technical abilities in laboratory methods, qPCR, Western Blot, SDS-paging, enzyme-linked immunosorbent assay (ELISA), microbiological culturing and human cell culture techniques.

Italian Medical Licensing Internship 11/08-1/09

Internship 2/09-5/09
Department of Obstetrics and Gynecology
Supervisor Dr. Gian Carlo Di Renzo
University of Perugia Medical School
Perugia, Italy

Sub-Internship 8/08
Department of Orthopaedics
Orthopaedic Oncology
Supervisor Dr. James Wittig
Mount Sinai School of Medicine
New York, NY

Sub-Internship 10/07-10/08
Department of Orthopaedics
Supervisor Dr. Giuliano Cerulli
University of Perugia Medical School
Perugia, Italy

Socrates/Erasmus Scholarship for Karolinska Institutet 8/06-1/07

University of Wisconsin-Madison Dean's List Fall 2002

E. PUBLICATIONS AND PRESENTATIONS

Publications:

Kanninen T, Jayaram A, Jaffe Lifshitz S, Witkin S. Altered autophagy induction by sera from pregnant women with pre-eclampsia: a case-control study. BJOG 2014 Apr 1.

Kanninen TT, de Andrade Ramos BR, Jaffe S, Bongiovanni AM, Linhares IM, Di Renzo GC, Witkin SS. Inhibition of Autophagy by Sera from Pregnant Women. Reprod Sci 2013 Apr 12 [Epub ahead of print].

Kanninen TT, Herway C, Skupski DW, Eglinton GS, Witkin SS. Endocervical Immune Mediator Production Following Successful Rescue or Ultrasound Indicated Cerclage Placement. J Perinat Med 2011 Nov 25;40(2):159-63.

Kanninen TT, de Andrade Ramos BR, Witkin SS. The role of autophagy in reproduction from gametogenesis to parturition. Eur J Obstet Gynecol Reprod Biol 2013 Aug 6 [Epub ahead of print].

Sisti G, **Kanninen TT**, Ascitti S, Sorbi F, Fambrini M. Rate of second primary tumors following diagnosed choriocarcinoma: a SEER analysis (1973-2010). Gynecol Oncol 2014 (Accepted).

Herway C, **Kanninen T**, Witkin SS, Saade G, Fortunato SJ, Menon R. Ethnic disparity in amniotic fluid levels of hyaluronan, histone H2B and superoxide dismutase in spontaneous preterm birth. J Perinat Med. 2013 May 1;41(3):277-82. [Epub ahead of print]

Ascitti S, **Kanninen TT**, Clerici G, Nardi E, Castellani D, Di Renzo GC, Clerici C. Acute pancreatitis with a mucinous cystadenoma of the pancreas in pregnancy. Anticancer Res 2010 Mar;30(3):1025-8.

Linhares IM, **Kanninen TT**, Orfanelli T, Jayaram A, Doulaveris G, Witkin SS. The Vaginal Microbiome: New Findings Bring New Opportunities. Drug Dev Res 2013 July 11 [Epub ahead of print].

Clerici G, Porcaro G, **Kanninen T**, Di Renzo GC. The role of serial amnioinfusions in the management of previable pre-term premature rupture of membranes. J Obstet Gynaecol 2011 May;31(4):345-7.

Clerici G, Slavescu C, Fiengo S, **Kanninen TT**, Romanelli M, Biondi R, Di Renzo GC. Oxidative stress in pathological pregnancies. J Obstet Gynaecol 2012 Feb;32(2):124-7.

Di Renzo GC, Brillo E, Romanelli M, Porcaro G, Capanna F, **Kanninen TT**, Gerli S, Clerici G. Potential effects of chocolate on human pregnancy: a randomized controlled trial. J Matern Fetal Neonatal Med 2012 Apr 26 (Epub ahead of print).

Clerici G, Antonelli C, Rizzo G, **Kanninen TT**, Di Renzo GC. Atypical hemodynamic pattern in fetuses with hypercoiled umbilical cord and growth restriction. J Matern Fetal Neonatal Med 2013 Apr;26(6):558-62.

Jaffe S, Normand N, Jayaram A, Orfanelli T, Doulaveris G, Passos M, **Kanninen TT**, Bongiovanni AM, Linhares IM, Witkin SS. Unique Variation in Genetic Selection Among Black North American Women and its Potential Influence on Pregnancy Outcome. Med Hypoth 2013 (In press).

Presentations:

Oral Presentations

Jaffe S, **Kanninen T**, Jayaram A, Korneeva K, Normand N, Rudge MVC, Witkin SS. Oral Presentation, Society of Gynecologic Investigation, Annual Scientific Meeting, March 21-24, 2012, San Diego, CA, USA. A polymorphism in the cias 1 gene coding for an inflammasome component influences gestational diabetes mellitus (GDM) – related parameters in pregnant hispanic women. Reprod Sci 2012 March;19(3):113A.

Di Renzo GC, Clerici G, **Kanninen T**, Panunzio M, Burnelli L, Gerli S. Oral Presentation, 1st World Congress on Twin Pregnancy, 16-18 April 2009, Venice, Italy. Delayed interval delivery in multiple pregnancy. J Matern Fetal Neonatal Med 2009;22(1):25.

Clerici G, Porcaro G, **Kanninen T**, Di Renzo GC. Oral Presentation, Conference: Numana Madre&Feto, May 15, 2009, Numana, Italy: The Role of Serial Amnioinfusions in the Management of Previabile Pre-term Premature Rupture of the Membranes: Case Report.

Poster Presentations

Kanninen TT, Herway C, Skupski DW, Bongiovanni AM, Eglinton GS, Witkin SS. Poster Presentation, Society of Gynecologic Investigation, Annual Scientific Meeting, March 21-24, 2012, San Diego, CA, USA. Endocervical Immune Mediator Production Following Successful Rescue or Ultrasound Indicated Cerclage Placement. Reprod Sci 2012 March;19(3):297.

Menon R, **Kanninen T**, Herway C, Saade G, Fortunato SJ, Witkin SS. Poster Presentation,

Society of Gynecologic Investigation, Annual Scientific Meeting, March 21-24, 2012, San Diego, CA, USA. Amniotic Fluid Antimicrobials and Antioxidants Show Racial Disparities in Preterm Birth. *Reprod Sci* 2012 March;19(3):361A.

Kanninen TT, Ramos BRA, Jaffe S, Bongiovanni AM, Linhares IM, Di Renzo GC, Witkin SS. Poster Presentation, Society of Maternal Fetal Medicine, 33rd Annual Meeting, February 11-16, 2013, San Francisco, CA, USA. Inhibition of Autophagy by Sera from Pregnant Women. *Am J Obstet Gyn* 2013 Jan;208(1):S107.

Jaffe S, Normand N, Jayaram A, Orfanelli T, Doulaveris G, Passos M, **Kanninen TT**, Bongiovanni AM, Linhares IM, Witkin SS. Poster Presentation, Society of Maternal Fetal Medicine, 33rd Annual Meeting, February 11-16, 2013, San Francisco, CA, USA. Evidence of Genetic Selection Between Black, White and Hispanic North American Women and its Potential Influence on Pregnancy Outcome. *Am J Obstet Gyn* 2013 Jan;208(1):S256.

Kanninen TT, Smith MJ, Doulaveris G, Rosenwaks Z, Witkin SS, Palermo GD. Poster Presentation, Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, October 12-17, 2013, Boston, MA, USA. Apoptotic Signaling to Interpret Samples with Normal Semen Parameters. (Accepted for poster presentation)

Smith MJ, Neri Q, **Kanninen TT**, Rosenwaks Z, Palermo GC. Poster Presentation, Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, October 12-17, 2013, Boston, MA, USA. Dynamic Assessment of Antioxidant Capacity of Male Gametes. (Accepted for poster presentation)

Doulaveris G, Orfanelli F, **Kanninen TT**, Shulman B, Witkin SS, Spandorfer S. Poster Presentation, Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, October 12-17, 2013, Boston, MA, USA. The Insulin like Growth Factor Axis as an Early Predictor of IVF Outcome. (Accepted for poster presentation)

Kanninen TT, Jayaram A, Sisti G, Linhares IM, Witkin SS. Poster Presentation, Society of Gynecologic Investigation, Annual Scientific Meeting, March 26-29, 2014, Florence, Italy. Atypical Autophagy Induction by Sera from Pregnant Women With Preeclampsia. *Reprod Sci* 2014 March.

Lectures

Lecture, Ultrasound Basics - Course for Midwives, October 6th and November 9th 2009, College of Midwives of the Province of Perugia, Perugia, Italy: The Ultrasonic Exam: Techniques and Equipment.

F. COMMITTEES

Secretary, European consensus conference on “*Strategies for GBS screening, prevention and treatment in the perinatal period*” PREIS school, Permanent International and European School in Perinatal, Neonatal and Reproductive Medicine. In association with the European Association of Perinatal Medicine (EAPM), the European Society of Perinatal Research (ESPR) and the European Society of Neonatology (ESN). Florence, Italy, June 6th-8th, 2013.

G. PEER-REVIEWER

The Journal of Maternal-Fetal & Neonatal Medicine
Molecular & Cellular Oncology

H. SOCIETIES

Society for Reproductive Investigation (SRI) (formerly known as SGI) (In-Training Member)
Società Italiana Ecografia Ostetrica e Ginecologica (SIEOG)
International Society for Ultrasound in Obstetrics and Gynecology (ISUOG)

I. LICENSING AND CERTIFICATIONS

Italian Medical License – Ordine dei Medici Chirurghi e degli Odontoiatri di Perugia
Fetal Medicine Foundation Nuchal Translucency Theoretical Certification

J. LANGUAGES

English (Mother Tongue), Italian (Fluent), Finnish (Fluent), Spanish (Elementary)

Signature: Tomi T Kanninen