

## **Murat BASAR, Ph.D. (current as of 5/31/17)**

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### **EDUCATION**

- 2006-2010** Ph.D., Integrated Reproductive Biology and Embryology PhD program. Institute of Health Science, Histology and Embryology, Ph.D. Program and Department of Obstetrics & Gynecology, Yale University, School of Medicine.
- 2003-2006** M.S. in Histology & Embryology  
University of Istanbul, Cerrahpasa Medical Faculty, Turkey  
Thesis title: *Morphological effect of different superovulation protocols to the mouse ovary.*
- 1997-2002** B.S. in Medical Biology and Genetics  
University of Istanbul, Cerrahpasa Medical Faculty, Turkey

### **ACADEMIC APPOINTMENTS**

- 2015-PRESENT** ***Laboratory Director***  
Anadolu Medical Center, Women's Health Center  
IVF Laboratory
- 2013-PRESENT** ***Assistant Professor***  
Biruni University Medical Faculty  
Department of Histology & Embryology
- 2014- 2015** ***Associate Research Scientist & Scientific Director***  
Yale University School of Medicine, Department of Obstetrics and Gynecology,  
Reproductive Endocrinology & Infertility  
IVF Laboratory
- 2012- 2014** ***Senior Research Associate***  
The Ohio State University, Wexner Medical Center, Dept. of Obstetrics & Gynecology, Columbus, OH

**Project 1:** Enhance gastrointestinal microbiome composition to prevent pregnancy bacteriuria.

**Project 2:** Progestin Effects on Uterine Hemostasis and Angiogenesis.

**Project 3:** Soluble Fms-Like Tyrosine Kinase 1 production by endogenous activation of decidual

cell Toll-Like Receptor-4 and Preeclampsia.

**Project 4:** Long-Acting Contraceptives Containing Progestins (LACPs) Induce Endometrial Microvascular Apoptosis.

**2010-2011** *Senior Research Scientist and Teaching Assistant*

University of Istanbul, Cerrahpasa Medical Faculty, Istanbul, Turkey

**Project 1:** Effects of L-arginine and antioxidant CAPE on kidney mesangial cell apoptosis.

**Project 2:** Role of PARP-1 in oligoasthenoteratospermia pathogenesis.

**Project 3:** Postnatal oogenesis in bone marrow transplanted patients.

**Project 4:** Evaluation of neurotrophic factors following to cavernous nerve crush injury.

**2008- 2010** *Research Assistant*

Yale University School of Medicine, Dept. of Obstetrics & Gynecology, New Haven, CT

**Project 1:** The role of unfolded protein response during oocyte maturation and pre implantation embryo development.

**Project 2:** Preeclampsia pathogenesis and cytokines.

**Project 3:** In vitro differentiations of human endometrial mesenchymal stem cells to neuron like cells.

**Project 4:** Estrogenic and anti-estrogenic effects of Norgestimate, Levonorgestrel and Drospirenone in endometrial cells in vivo and in vitro.

**Project 5:** Expression of PAK1 and LIMK1 in endometrial cells in vivo and in vitro.

**Project 6:** Expression of WNK3 and WNK4 in human placenta: Implications in preeclampsia-related endothelial dysfunction.

**Project 7:** Bi-directional regulation of unfolded protein response in human endometrium and endometriosis.

**Project 8:** Statins Inhibit Monocyte Chemotactic Protein-1 Expression in Endometriosis.

**2005- 2006** *Research Affiliate*

Yale University School of Medicine, Dept. of Obstetrics & Gynecology, New Haven, CT

**Project 1:** Endometriosis and immune-privilege

**Project 2:** Pathogenesis of endometriosis and MAPKs.

**Project 3:** FAS Ligand Expression in Human Endometrial Cells.

**2003- 2006** *Research Asistant*

University of Istanbul, Cerrahpasa School of Medicine, Turkey

**Project 1:** Effects of superovulation protocols on oocyte quality, quantity and maturation.

**Project 2:** Experimental mouse IVF protocols and their effects on blastocyst development.

**Academic Awards:**

- 2013** University of Istanbul Scientific Research Award
- 2011** Best Research and Presentation Award (Principal Investigator), 2<sup>nd</sup> International Congress of Society of Clinical Embryology
- 2010** Support for International Scientific Research (Principal Investigator), The Scientific and Technological Council of Turkey
- 2009** Research Fellowships for PhD Students (Long Term), The Scientific and Technological Council of Turkey
- 2008** Support for International Scientific Research (Co-Investigator), The Scientific and Technological Council of Turkey

**TEACHING EXPERIENCE** (As teaching assistant and lecturer)

- 2004-2010** **Assistant Lecturer**  
Istanbul University, Cerrahpasa Medical Faculty, Dept. of Histology & Embryology.  
*(Responsibilities included; giving lectures to medical students and prepare materials for teaching purposes)*
- 2006** **Teaching Assistant**  
Frontiers in Molecular and Cellular Biology in Reproduction and Clinical Implications.  
*(Responsibilities included; prepare and present pre-laboratory talks about molecular biology techniques and giving hands on workshop to course attendees)*
- 2007** **Teaching Assistant**  
Frontiers in Molecular and Cellular Biology in Reproduction and Clinical Implications.  
*(Responsibilities included; prepare and present pre-laboratory talks about molecular biology techniques and giving hands on workshop to course attendees)*

**Clinical ART Laboratories Technical Experience:**

- \_ Oocyte Retrieval and Maturation evaluation
- Preparation of Oocytes for ICSI

- Sperm Preparation for IVF and/or ICSI
- Preparation of Testicular Sperm Samples
- IVF Insemination
- Injection of Sperm into Oocytes for ICSI
- Assisted Hatching
- Fertilization Assessments
- Day 1 – Day 6 Embryo Culture and Evaluation
- Selection of Suitable Embryos on Appropriate Day for Transfer
- Semen Assessments
- Vitrification of Oocyte and Embryos
- Preparing Semen for Intrauterine Insemination
- In Vitro Oocyte Maturation
- Trophoectoderm and Blastomere biopsy

## **RESEARCH PROPOSALS AND GRANTS**

### **Completed Research Projects**

**2010**

**Co-Investigator**, Arici Lab

Project Title: *Proposal to assess progestogenic, estrogenic and androgenic effect of norgestimate, levonorgestrel and drospirenone on endometrial cells in vitro and in vivo.*

Company: Johnson & Johnson; Ortho-McNeil Pharmaceuticals

Budget: \$51,200.00

**2010**

**Co-Investigator**, Cerrahpasa Medical Faculty, Dept. of Histology & Embryology

Project Title: *Effects of L-Arginine and Antioxidant Cape on Glomerular Cell Apoptosis*

Foundation: University of Istanbul

Project #: 1642

Budget: \$27,000.00

## **JOURNAL EDITORIAL BOARD**

- Obstetrics and Gynecology International Journal, Editor
- ECronicon Gynecology, Editor

## **RESEARCH INTERESTS**

Embryonic stress related pregnancy complications, Molecular signaling in normal and pregnancy complication, Pre-implantation embryo development and cellular stress.

## **EXPERTISE IN RESEARCH TECHNIQUES**

Immunohistochemistry, RT-PCR, Cell Culture and Primary Cell Isolation, In situ Hybridization, Immunocytochemistry, ELISA, Immune-precipitation, RNA and DNA Isolation, Protein Isolation, Immunofluorescence, Western blot, BrdU and MTT Cell proliferation Assay, Magnetic Cell isolation, Oocyte and Embryo culture.

## **COMPUTER SKILLS**

SigmaStat, Sigmaplot, EndNote, Photoshop, Microsoft Office Tools, Ingenuity Pathway Analysis (IPA)

## **BOOK CHAPTERS:**

1. **Basar M.**, Kocamaz E, Kayisli U.A. "Cellular and molecular regulation of placental vasculogenesis" In preparation.

## **BOOK TRANSLATION**

Editors; David K Gardner, Ariel Weissman, Colin M Howles, ZeevShoham. *Text Book of Assisted Reproductive Techniques: Laboratory and Clinical Perspectives*, from English to Turkish.

Chapter 32: Embryonic regulation in the implantation process (p 413-425).

Chapter 33: The use of biomarkers for the assessment of uterine receptivity ( p 425-442).

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## PUBLICATIONS

1. O Guzeloglu-Kayisli, UA Kayisli, N Semerci, **Murat Basar**, LF Buchwalder, CS Buhimschi, IA Buhimschi, F Arcuri, K Larsen, JS Huang, F Schatz, CJ Lockwood. Mechanisms of chorioamnionitis-associated preterm birth: interleukin-1 $\beta$  inhibits progesterone receptor expression in decidual cells. *The Journal of pathology* 237 (4), 423-434.
2. OG Kayisli, UA Kayisli, **Murat Basar**, N Semerci, F Schatz, CJ Lockwood. Progestins Upregulate FKBP51 Expression in Human Endometrial Stromal Cells to Induce Functional Progesterone and Glucocorticoid Withdrawal: Implications for Contraceptive-Associated Abnormal Uterine Bleeding. *PLoS one* 10 (10).
3. F Schatz, O Guzeloglu-Kayisli, **Murat Basar**, L Buchwalder, N Ocak, E Guzel, S Guller, N Semerci, U Kayisli, CJ Lockwood. Enhanced Human Decidual Cell-Expressed FKBP51 May Promote Labor-Related Functional Progesterone Withdrawal. *American Journal of Pathology* 2015; 185 (9), 2402-2411.
4. L Piao, C-P Chen, C-C Yeh, **Murat Basar**, R Masch, Y-C Cheng, CJ Lockwood, F Schatz, SJ Huang. Chinese herbal medicine for miscarriage affects decidual micro-environment and fetal growth. *Placenta* 2015;36:559-566.
5. Umit A Kayisli, **Murat Basar**, Ozlem Guzeloglu-Kayisli, Nihan Semerci, Helen C Atkinson, John Shapiro, Taryn Summerfield, S Joseph Huang, Katja Prella, Frederick Schatz, Charles J Lockwood. Long-acting progestin-only contraceptives impair endometrial vasculature by inhibiting uterine vascular smooth muscle cell survival. *Proceedings of the National Academy of Sciences (PNAS)* 2015;112: 5153-5158.
6. Elif Guzel, Lynn Buchwalder, **Murat Basar**, Umit Kayisli, Nehir Ocak, Idil Bozkurt, Charles J Lockwood, Frederick Schatz. Effects of tibolone and its metabolites on prolactin and insulin-like growth factor binding protein-1 expression in human endometrial stromal cells. *Gynecological Endocrinology* 2015;p1-5.
7. **Murat Basar**, Idil Bozkurt, Ozlem Guzeloglu-Kayisli, Berna Sozen, Isil Tekmen, Frederick Schatz, Aydin Arici, Charles J Lockwood, Umit A Kayisli. Unfolded protein response prevents blastocyst formation during preimplantation embryo development in vitro. *Fertility and Sterility* 2014;102: 1777-1784.
8. John P Shapiro, **Murat Basar**, Umit A Kayisli, Ozlem Guzeloglu-Kayisli, S Joseph Huang, Adrian A Suarez, Hatice Gulcin Ozer, Frederick Schatz, Charles J Lockwood. Mass spectrometry identification of potential mediators of progestin-only contraceptive-induced abnormal uterine bleeding in human endometrial stromal cells. *Contraception* 2014.
9. Charles J Lockwood, **Murat Basar**, Umit A Kayisli, Ozlem Guzeloglu-Kayisli, William Murk, Jenny Wang, Nicole De Paz, John P Shapiro, Rachel J Masch, Nihan Semerci, S Joseph Huang, Frederick Schatz. Interferon- $\gamma$  Protects First-Trimester Decidual Cells against Aberrant Matrix Metalloproteinases 1, 3, and 9 Expression in Preeclampsia. *The American Journal of Pathology* 184:2549-2559.
10. Erturkuner SP, **Murat Basar**, Tuncdemir M, Seckin I. The comparative effects of perindopril and catechin on mesangial matrix and podocytes in the streptozotocin induced diabetic rats. *Pharmacological Reports* 2014;66:279-87.
11. O Guzeloglu-Kayisli, **Murat Basar**, JP Shapiro, N Semerci, JS Huang, F Schatz, CJ Lockwood, UA Kayisli. Long-Acting Progestin-Only Contraceptives Enhance Human Endometrial Stromal Cell Expressed Neuronal Pentraxin-1 and Reactive Oxygen Species to Promote Endothelial Cell Apoptosis. *The Journal of Clinical Endocrinology & Metabolism* 2014;99: E1957-E1966.
12. Zulfikar Arlier, **Murat Basar**, Erdogan Kocamaz, Kemal Kiraz, Gamze Tanriover, Gunnur Kocer, Sefa Arlier, Semih Giray, Seher Nasircilar, Filiz Gunduz, Umit K Senturk, Necdet Demir. Hypertension alters phosphorylation of VASP in brain endothelial cells. *International Journal of Neuroscience* 2014.
13. Saeed Famarzi, Umit A Kayisli, Ozlem Kayisli, **Murat Basar**, John Shapiro, Nihan Semerci, Joseph Huang, Longzhu Piao, Frederick Schatz, Charles J Lockwood. Decidual cell expressed tissue factor

- promotes endometrial hemostasis while mediating abruption associated preterm birth. *Advances in Reproductive Sciences* 2013.
14. Hakan Cakmak, **Murat Basar**, Yasemin Seval-Celik, Kevin G Osteen, Antoni J Duleba, Hugh S Taylor, Charles J Lockwood, Aydin Arici. Statins inhibit monocyte chemotactic protein 1 expression in endometriosis. *Reproductive Sciences* 2012;19: 572-579.
  15. Guzel E, **Murat Basar**, Ocak N, Arici A, Kayisli UA. Bidirectional interaction between unfolded-protein-response key protein HSPA5 and estrogen signaling in human endometrium. *Biol Reprod* 2011;85:121-7.
  16. S Joseph Huang, Ana C Zenclussen, Chie-Pein Chen, **Murat Basar**, Hui Yang, Felice Arcuri, Min Li, Erdogan Kocamaz, Lynn Buchwalder, Mizanur Rahman, Umit Kayisli, Frederick Schatz, Paolo Toti, Charles J Lockwood. The implication of aberrant GM-CSF expression in decidual cells in the pathogenesis of preeclampsia. *The American Journal of Pathology* 2010;177: 2472-2482.
  17. **Murat Basar**, Chih-Feng Yen, Lynn F Buchwalder, William Murk, S Joseph Huang, Karl Godlewski, Erdogan Kocamaz, Oktay Arda, Frederick Schatz, Charles J Lockwood, Umit A Kayisli. Preeclampsia-related increase of interleukin-11 expression in human decidual cells. *Reproduction* 2010;140:605-612.
  18. E Guzel, NS Ocak, **Murat Basar**, I Bozkurt, A Arici, UA Kayisli. Bidirectional regulation of unfolding protein response in human endometrium and endometriosis. *Fertility and Sterility* 2010;94:S216.
  19. Charles J Lockwood, Chih-Feng Yen, **Murat Basar**, Umit A Kayisli, Maritza Martel, Irina Buhimschi, Catalin Buhimschi, S Joseph Huang, Graciela Krikun, Frederick Schatz. Preeclampsia-related inflammatory cytokines regulate interleukin-6 expression in human decidual cells. *The American Journal of Pathology* 2010;172: 1571-1579.
  20. **Murat Basar**, H Cakmak, G Kizilay, U Kayisli, A Arici. Increased apoptosis in macrophages in endometriosis implants: Implication for immune-privileged environment in endometriosis. *Fertility and Sterility* 2006;86:S28.
  21. Belgin Selam, Umit A Kayisli, G Eda Akbas, **Murat Basar**, Aydin Arici. Regulation of FAS ligand expression by chemokine ligand 2 in human endometrial cells. *Biology of Reproduction* 2006;75:203-209.

## **PRESENTATIONS**

1. "Whole Genome Analysis of Long-Acting Progestin Only Contraceptive Treated Vascular Smooth Muscle Cells Identifies Suppression of CCL2 Mediated STAT1 Signaling in Inducing Abnormal Uterine Bleeding" Nihan Semerci, **Murat Basar**, Ozlem Guzeloglu Kayisli, Frederick Schatz, Umit A Kayisli, Charles J Lockwood. Presented at **62<sup>nd</sup> Annual Scientific Meeting of Society for Reproductive Investigation**, March 25-28, 2015 San Francisco, USA, Published in *Reproductive Sciences*, Vol: 22, No: 3, Suppl., March 2015 (P113A).
2. "Mass spectrometry analysis of the Human Endometrial Stromal Cell secretome identifies Stanniocalcin-1 as a Long-Acting Progesterone Contraceptive- Associated Biomarker That increases Human Endometrial Endothelial cell proliferation" Shapiro J., Guzeloglu-Kayisli O., **Murat Basar**, Suarez A., Ozer G., Huang J., Schatz J., Lockwood CJ. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in *Reproductive Sciences*, Vol: 21, No: 3, Suppl., March 2014 (P88A-O-037).
3. "Pro-inflammatory cytokines initiate functional Progesterone Withdrawal and Chorioamnionitis-Induced Preterm Birth by decreasing Progesterone Receptor expression and increasing Prostaglandin production in decidual cells" Guzeloglu-Kayisli O., **Murat Basar**, Semerci N., Kayisli UA., Buhimschi I., Huang J., Mesiano S., Schatz F., Lockwood CJ. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in *Reproductive Sciences*, Vol: 21, No: 3, Suppl., March 2014 (P142A-T-041).

4. "Protective Role of E. Coli Nissle 1917-Based Probiotic Against Uropathogenic E. Coli (UPEC) Strain-Mediated Inhibition of Progesterone Receptor Expression and Cell Survival in Decidual Cells." **Murat Basar**, S Justice, O Guzeloglu-Kayisli, F Schatz, CJ Lockwood, UA Kayisli. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (P131A).
5. "Long-Acting Progestin Only Contraceptives Inhibited Differentiation and Proliferation of Vascular Smooth Muscle Cells Induce Abnormal Uterine Bleeding Due to Immature Vascularization." **Murat Basar**, UA Kayisli, N Semerci, H Atkinson, T Summerfield, O Guzeloglu-Kayisli, JS Huang, J Shapiro, F Schatz, CJ Lockwood. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (217A).
6. "Progesterone and Glucocorticoid Receptor enhanced decidual cell expressed FKBP51 may promote human labor associated functional Progesterone Withdrawal" Lockwood CJ., Murk M., Kayisli UA, Guzeloglu-Kayisli O., **Murat Basar**, Shapiro J., Mesiano S., Schatz F. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (P245A-F-028).
7. "Decidual cell-derived Interleukin-6 inhibits IL11-mediated gene expression in macrophages: implications for Preeclampsia" Kayisli UA, Ocak N., Uyar A., Guzeloglu-Kayisli O., **Murat Basar**, Huang J., Schatz F., Lockwood CJ. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (P299A-F-186).
8. "Excess Soluble Fms-Like Tyrosine Kinase 1 production by endogenous activation of decidual cell Toll-Like Receptor-4 triggers Preeclampsia-related vascular dysfunctions" Semerci N., **Murat Basar**, Kayisli UA, Ocak N., Vatandaslar E., Faramarzi S., Guzeloglu-Kayisli O., Schatz F., Lockwood CJ. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (P398A-S-191).
9. "Thrombin treated Human Endometrial Stromal Cells produce increased expression of several Extracellular Matrix Proteins identified by Secretome Mass Spectrometry Analysis" Shapiro J., Ozer G., Guzeloglu-Kayisli O., Kayisli UA, Huang J., **Murat Basar**, Schatz F., Lockwood CJ. Presented at **61<sup>st</sup> Annual Meeting of Society for Gynecologic Investigation**, March 26-29, 2014 Florence-Italy, Published in Reproductive Sciences, Vol: 21, No: 3, Suppl., March 2014 (P411A-S-230).
10. "Cross-Talk between JAK/STAT and NF-κB Signaling Pathways Mediates Cytokine-Enhanced IP-10 Expression in Human First Trimester Decidual Cells." Faramarzi S, Schatz F, Shapiro J, Tabbah S, Kayisli UA, **Murat Basar**, Lockwood CJ. Presented at **60<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 20-23, 2013 Orlando, Florida. Published in Reproductive Sciences, Vol: 20, No: 3, Suppl., March 2013 (230A-P-S172).
11. "Enhanced Endometrial Cell Expressed FKBP51 Accompanies Long-Acting Contraceptives Containing Progestins (LACPs) Use." **Murat Basar**, Umit A Kayisli, Lynn Buchwalder, Graciela Krikun, Ozlem Guzeloglu Kayisli, Frederick Schatz, Charles J Lockwood. Presented at **60<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 20-23, 2013 Orlando, Florida. Published in Reproductive Sciences, Vol: 20, No: 3, Suppl., March 2013 (193A).
12. "Long-Acting Contraceptives Containing Progestins (LACPs) Induce Endometrial Microvascular Apoptosis Via Paracrine Actions of Stromal Cells." Guzeloglu-Kayisli O, **Murat Basar**, Summerfield T, Shapiro J, Kayisli UA, Schatz F, Lockwood CJ. Presented at **60<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 20-23, 2013 Orlando, Florida. Published in Reproductive Sciences, Vol: 20, No: 3, Suppl., March 2013 (78A-O-055).



13. "Preeclampsia-Related Toll Receptor-4 Expression in Decidual Cells across Pregnancy." UA Kayisli, **Murat Basar**, N Ocak, E Vatandaslar, S Famarzi, F Schatz, CJ Lockwood. Presented at **60<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 20-23, 2013 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 20, No: 3, Suppl., March 2013 (264A-P-F247).
14. "Endoplasmic reticulum stress response during in-vitro spermiogenesis in non-obstructive azospermia." Yaprak E, **Murat Basar**, Guzel E, Arda O, Irez T. Presented at **28<sup>th</sup> Annual Meeting of European Society of Human Reproduction and Embryology**, July 1-4, 2012 Istanbul, Turkey. Published in *Human Reproduction*, Vol: 27, Suppl. 2, July 2012.
15. "The regulation of mitogen-activated protein kinase kinases in endometrial cycle." Gumusel A, **Murat Basar**, Yaprak E, et al. Presented at **28<sup>th</sup> Annual Meeting of European Society of Human Reproduction and Embryology**, July 1-4, 2012 Istanbul, Turkey. Published in *Human Reproduction*, Vol: 27, Suppl. 2, July 2012.
16. "Endoplasmic Reticulum Homeostasis is Crucial for in vitro Blastocyst Development." Bozkurt I, **Murat Basar**, Tekmen I, Arici A, Kayisli UA. Presented at **28<sup>th</sup> Annual Meeting of European Society of Human Reproduction and Embryology**, July 1-4, 2012 Istanbul, Turkey. Published in *Human Reproduction*, Vol: 27, Suppl. 2, July 2012.
17. "Unfolded protein response prevents mouse blastocyst formation but not compaction in vitro." **Murat Basar**, O Guzeloglu-Kayisli, E Guzel, N Ocak, E Kocamaz, A Arici, U Kayisli. Presented at **57<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 25-27, 2010 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 17, No: 3, Suppl., March 2010 (247A).
18. "Expression of WNK4 in Human Placenta: Implications in Preeclampsia-Related Endothelial Dysfunction." Kocamaz E, **Murat Basar**, Zeybek D, Schatz F, Lockwood CJ, Arici A, Kayisli UA. Presented at **57<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 25-27, 2010 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 17, No: 3, Suppl., March 2010 (328A-P-916).
19. "Estrogenic and Anti-Estrogenic Effects of Norgestimate, Levonorgestrel and Drospirenone in Endometrial Cells In Vivo and In Vitro." Kayisli UA, Murk W, Zeybek D, **Murat Basar**, Kocamaz E, Guzel E, Arici A. Presented at **57<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 25-27, 2010 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 17, No: 3, Suppl., March 2010 (242A-P-616).
20. "In Vitro Differentiation of Human Endometrial Stromal Cells to Neuron-Like Cells: Implications for Endometrial Multipotent Stem Cells." Guzel E, **Murat Basar**, Ocak NS, Arici A, Kayisli UA. Presented at **57<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 25-27, 2010 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 17, No: 3, Suppl., March 2010 (135A-P-250).
21. "Human Labor Is Associated with Reduced Decidual Cell Expression of FKBP51 Expression in the Decidua Basalis, but Not Parietalis." Schatz F, Ocak NS, **Murat Basar**, Buchwalder L, Guzel E, Kayisli UA, Lockwood CJ. Presented at **57<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 25-27, 2010 Orlando, Florida. Published in *Reproductive Sciences*, Vol: 17, No: 3, Suppl., March 2010 (70A-P-13).
22. "The Expression of gp130 at Implantation Site: Implication for the Pathogenesis of Preeclampsia." Yen CF, **Murat Basar**, Buchwalder L, Murk W, Kayisli UA, Huang J, Schatz F, Lockwood CJ. Presented at **56<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 27-29, 2008 San Diego, California. Published in *Reproductive Sciences*, Vol: 15, No: 1, Suppl., February 2008 (282A-P-784).

23. "Regulation of Interleukin 6-Expression in Decidual Cells; Implications in Preeclampsia." Lockwood CJ, Yen CF, **Murat Basar**, Kayisli UA, Arici A, Huang J, Krikun G, Schatz F. Presented at **55<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 15-17, 2007 Reno, Nevada. Published in *Reproductive Sciences*, Vol: 14, No: 1, Suppl., January 2007 (267A-P-745).
24. "The Inflammatory Cytokines Induce Interleukin-11 Expression in Human Decidual Cells; Implications for Preeclampsia." Yen CF, **Murat Basar**, Buchwalder L, Cakmak H, Kayisli UA, Arici A, Schatz F, Lockwood CJ. Presented at **55<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 15-17, 2007 Reno, Nevada. Published in *Reproductive Sciences*, Vol: 14, No: 1, Suppl., January 2007 (219A-O-573).
25. "The Regulation of Leukemia Inhibitory Factor in First-Trimester Decidual Cells: Implication for the Pathogenesis of Preeclampsia." Yen CF, **Murat Basar**, Buchwalder L, Murk W, Kayisli A, Arici A, Schatz F, Lockwood CJ. Presented at **55<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 15-17, 2007 Reno, Nevada. Published in *Reproductive Sciences*, Vol: 14, No: 1, Suppl., January 2007 (119A-P-222).
26. "C-Jun N- Terminal Kinase (JNK) Signaling Regulates Cell Proliferation and Apoptosis in Endometrial Cells." Kizilay G, **Murat Basar**, Cakmak H, Atabekoglu C, Kayisli UA, Arici A. Presented at **62<sup>nd</sup> Annual Meeting of American Society for Reproductive Medicine**, October 21 - 25, 2006 New Orleans, Louisiana. Published in *Fertility and Sterility*, Vol: 86, No: 3, Suppl., September 2006 (S281-P-393).
27. "Implantation markers are decreased in endometrium of women with adenomyosis during the implantation window." Yen CF, **Murat Basar**, Kizilay G, Lee CL, Kayisli UA, Arici A. Presented at **62<sup>nd</sup> Annual Meeting of American Society for Reproductive Medicine**, October 21 - 25, 2006 New Orleans, Louisiana. Published in *Fertility and Sterility*, Vol: 86, No: 3, Suppl., September 2006 (S338-P-550).
28. "p38 MAPK is involved in the pathogenesis of endometriosis by modulating inflammation and but not apoptosis." Cakmak H, Kayisli UA, Atabekoglu C, Yen CF, **Murat Basar**, and Arici A. Presented at **54<sup>th</sup> Annual Meeting of Society for Gynecologic Investigation**, March 15-17, 2006 Reno, Nevada. Published in *Reproductive Sciences*, Vol: 13, No: 2, Suppl., February 2006.

## **OTHER ACADEMIC ACTIVITIES**

*Gamete Biology Journal Club*, October 22<sup>nd</sup> 2008, University of Istanbul, Cerrahpasa Medical Faculty.

## **PROFESSIONAL WORK AND CLINICAL EXPERIENCE**

<b>2011- 2012</b>	<b>Clinical Embryologist</b> Gulhane Military School of Medicine IVF Laboratories, Istanbul, Turkey
<b>2009-2010</b>	<b>Clinical Embryologist</b> Yale University, IVF Unit, New Haven, CT, USA
<b>2003 (Feb- May)</b>	<b>Clinical Embryologist</b> JFK Hospital IVF Unit, Istanbul, Turkey
<b>2002 (June- Dec)</b>	<b>Trainee Embryologist</b> International Hospital IVF Unit, Istanbul, Turkey

## **AFFILIATIONS**

Turkish Histology and Embryology Association  
Turkish Society of Clinical Embryology  
Turkish-American Association of Central Ohio

## **SUPERVISING & MENTORING**

- Elif Yaprak, Ph.D. Candidate
- John Akrofi, Ph.D. Candidate
- Erenkul Tokay, M.Sc.
- Hande Kalem, M.D.
- Selen Birdal, M.Sc.
- Asli Gumusel, Ph.D. Candidate
- Ozgur Demirkiran, M.Sc.