

Pinar Tulay, Ph.D.
E-mail: pintulay@gmail.com
Mobile phone: + +90 533 862 3309
Nationality: Cypriot

Current Position

08/2015- Present **Assistant Professor in Medical Genetics, Faculty of Medicine**
Assistant Professor in Molecular Biology and Genetics, Faculty of Arts
and Sciences
Near East University, Cyprus

Education

09/2009- 09/2013 **Ph.D. in Human Genetics**
University College London, UK
Doctoral fellow under supervision of Sioban SenGupta, Ph.D. and Joyce Harper, Ph.D.
Research experience in preimplantation genetics in human gametes and embryos: DNA and RNA extraction from embryos, whole genome amplification, microarrays, gene expression, functional assay, methylation analysis, primer design, (mini) sequencing and analysis, haplotype and linkage analyses, real time PCR, whole genome amplification and array comparative genomic hybridisation (aCGH)

09/2008- 06/2009 **M.Sc. in Prenatal Genetics and Fetal Medicine**
University College London, UK
Research experience in preimplantation genetics: whole genome amplification and microarrays, haplotype and linkage analyses

09/2007- 09/2008 **M.Res. in Biomedical Physical Chemistry**
Imperial College London, UK
Research experience in biochemistry and chemistry: cell culturing of mammalian cells (Jurkat and NIH3T3), yeast cells and bacterial cells (*E.coli*), *E.coli* transformation, Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE), Coomassie staining, immunoblotting, in vitro and in vivo metallic labelling

08/2005-05/2006 **B.Sc. in Chemistry**
University of Missouri- Kansas City, USA
Research experience in organic chemistry: synthesis of polycyanoarenes to be complexed with silver in the area of molecular assembly

08/2005-05/2006 **B.Sc. in Mathematics and Statistics**
University of Missouri- Kansas City, USA

Previous Scientific Positions and Teaching Experience

- 05/2014- 08/2015 **Lecturer in Medical Genetics, Faculty of Medicine**
Lecturer in Molecular Biology and Genetics, Faculty of Arts and Sciences
Near East University, Cyprus
- 10/2012- 04/2014 **Post-Doctoral Fellow in Molecular Biology and Genetics**
Bahceci IVF Clinic, Istanbul, Turkey
Research in preimplantation genetics and expert in preimplantation genetic diagnosis, supervision of B.Sc. and M.Sc. projects, embryology training
- 09/2009-09/2012 **Honorary Scientist in Preimplantation Genetic Diagnosis (PGD)**
UCL Centre for PGD, London, UK
Developing and optimising PGD protocols for inherited cancer predispositions, PGD for translocations and preimplantation genetic screening. DNA extraction and lymphocyte separation from whole blood for PCR analysis, cell culturing and harvesting from whole blood for fluorescent in situ hybridisation (FISH) analysis, single cell/ embryo tubing and spreading, whole genome amplification and array comparative genomic hybridisation (aCGH).
- 09/2010-04/2011 **Student Supervision for B.Sc. Degree Project**
University College London, UK
Research in preimplantation genetics: development of quantitative fluorescent PCR protocol to detect aneuploidies in human embryos derived from translocation carriers
- 07/2010-08/2010 **Supervision and Demonstration for a Visiting Scientist**
UCL Centre for PGD, London, UK
Techniques used in preimplantation genetic diagnosis: single cell tubing and PCR, FISH.
- 04/2010-09/2010 **Student Supervision for MSc Degree Project**
University College London, UK
Research in genetics: development of a functional assay to assess mismatch repair activity and preliminary study of gene expression patterns in the preimplantation embryos
- 08/2006- 07/2007 **Teaching Assistant in Chemistry Laboratory**
University of Miami, Florida, USA
Conducting general chemistry laboratory demonstrations and lectures
- 08/2003- 05/2006 **Supplemental Instruction Leader for General Chemistry 1 and 2**
University of Missouri- Kansas City, USA
Leader for group study sessions to lecture, solve study problems for general chemistry courses organised by the university twice a week

- 08/2003- 05/2006 **Supplemental Instruction Leader for Organic Chemistry 1 and 2**
University of Missouri- Kansas City, USA
 Leader for group study sessions to lecture, solve study problems for organic chemistry courses organised by the university twice a week
- 08/2003- 05/2006 **Mathematics Tutor**
University of Missouri- Kansas City, USA
 Tutoring for mathematics courses including college algebra and all levels of calculus
- 08/2003- 05/2006 **Mentor**
University of Missouri- Kansas City, USA
 Mentoring new supplemental instruction leaders and tutors
- 05/2005- 08/2005 **Biochemistry/ Microbiology Laboratory Intern**
Dr. Burhan Nalbantoglu State Hospital, Nicosia, Cyprus
 Conducting blood tests and other related tests in various biology and biochemistry laboratories

Awards and Honours

- 2009 One-year European Commission scholarship; “Scholarships for the Turkish Cypriot community Programme for the Academic Year 2009/10”
- 2007 One-year EPSRC scholarship, Imperial College London, UK
- 2006 Cum Laude for Chemistry, University of Missouri- Kansas City, Missouri, USA
- 2006 Cum Laude for Mathematics and Statistics, University of Missouri- Kansas City, Missouri, USA
- 2005/2006 Dean’s List, University of Missouri- Kansas City, Missouri, USA
- 2002-2006 University of Missouri- Kansas City
 Four- year Chancellor’s Non-Resident Award by University of Missouri Missouri, USA

Conference and Workshop Organisations

- 2012 University College London, UK, Institute for Women’s Health
 A member of organising committee of Institute for Women’s Health, UCL
 4th Annual Research Student Day

2010, 2011, 2012 UCL Centre for PGD, London, UK
Laboratory demonstration organisations for techniques used in PGD

Professional Society Memberships

2012- Present European Society of Human Reproduction and Embryology (ESHRE)

2011- Present Preimplantation Genetic Diagnosis International Society (PGDIS)

Conference Attendance and Proceedings

1st International Meeting on Controversies in Preconception, Preimplantation and Prenatal Genetic Diagnosis (COGEN), Paris, France,

Tulay, P.; Kizilkanat, M.; Serakinci, N.

Poster başlığı: “Thrombophilia: is it the cause of miscarriages?”

13th Annual Meeting of the Preimplantation Genetic Diagnosis International Society (PGDIS), Canterbury, UK, May 2014

Tulay, P.; Findikli, N; Musul, B.; Aksoy, T. and Bahceci, M.

Comparison of progression of embryo development and rate of anuploidy cultured in a time-lapse system and a conventional incubator. P42.

69th American Society for Reproductive Medicine (ASRM) Annual Meeting 2013, Boston, USA, October 2013

Tulay, P.; Gultomruk, M.; Findikli, N; and Bahceci, M.

Number of embryos to be biopsied is a strong predictive indicator for a successful preimplantation genetic diagnosis outcome in translocation cases. P-180

69th American Society for Reproductive Medicine (ASRM) Annual Meeting 2013, Boston, USA, October 2013

Tulay, P.; Gultomruk, M.; Findikli, N; and Bahceci, M.

There is no inter-chromosomal effect in the embryos derived from young carriers of reciprocal and Robertsonian translocations. P-187

12th International Conference on Preimplantation Genetic Diagnosis (PGDIS), Istanbul, Turkey, 09-11 May 2013

Tulay, P.; Gultomruk, M.; Findikli, N; and Bahceci, M.

There is no inter-chromosomal effect in the embryos derived from young carriers of reciprocal and Robertsonian translocations. Fertility and Sterility. Volume 100, Issue 3, Supplement, Page S202, September 2013.

12th International Conference on Preimplantation Genetic Diagnosis (PGDIS), Istanbul, Turkey, 09-11 May 2013

Gultomruk, M.; **Tulay, P.**; Findikli, N; and Bahceci, M.

Poor preimplantation genetic diagnosis outcomes of translocations involving chromosome 10: Do we blame on genetics? Human Reproduction (2013) 28 (suppl 1):i291-i311.

29th Annual Meeting of European Society of Human Reproduction and Embryology (ESHRE), London, UK, 8-10 July 2013

Tulay, P.; Gultomruk, M.; Findikli, N; and Bahceci, M. July 2013

Segregation pattern of embryos from reciprocal translocation carriers involving chromosome 10. P-453. RBMOnline, volume 26, supplement 1, pS47.

28th Annual Meeting of European Society of Human Reproduction and Embryology (ESHRE), Istanbul, Turkey, 1-4 July 2012

P. Tulay., R.P. Naja, O. Cascales-Roman, S. Cawood, A. Doshi, P. Serhal, S.B. SenGupta (2012) Investigation of microRNA expression with DNA repair in human oocytes and preimplantation embryos. P-459. Hum. Reprod. (2012) 27 (suppl 2):ii286-ii302.

Annual Meeting of European Society of Human Genetics (ESHG), Nurnberg, Germany, 22-23 June, 2012

Tulay, P., Jaroudi, S., Harper, J., SenGupta, S. “DNA repair”, June 2012

11th International Conference on Preimplantation Genetic Diagnosis (PGDIS), Bregens, Austria, 16-19 May 2012

Tulay; P., Doshi; A., Serhal, P., SenGupta, SB. (2012) Determining the parental origin of transcripts in human preimplantation embryos Reproductive BioMedicine Online Volume 24, Supplement 2, Pages i-v, S27-S76

12th International Meeting on Human Genome Variation and Complex Genome Analysis, California, USA, 8-10 September 2011

Tulay, P., SenGupta, SB. (2011) Strategy for determining the parental origin of transcripts in preimplantation embryos

British Human Genetics Conference 2011, Warwick, UK, 17-19 September 2011

Tulay, P., Jaroudi, S., Harper, J., & SenGupta, SB. (2011) Functional Assessment of Mismatch Repair. *Journal of Medical Genetics*, 48, S51

10th International Conference on Preimplantation Genetic Diagnosis (PGDIS) May 2010, Montpellier, France

Publications

Tulay; P., Naja; RP., Doshi; A., Serhal, P., SenGupta, SB. (2015) Investigation of miRNA expression with DNA repair in human oocytes and preimplantation embryos. *JARG*. 1-8.

Tulay P, Gultomruk M, Findikli N, Bahceci M. (2015). Number of embryos biopsied as a predictive indicator for the outcome of preimplantation genetic diagnosis by fluorescence in situ hybridisation in translocation cases. *Zygote*, 1-8.

Tulay P, Gultomruk M, Findikli N, Bahceci M. (2015) Poor embryo development and preimplantation genetic diagnosis outcomes of translocations involving chromosome 10: Do we blame genetics? *Zygote*, 5:778-84.

Tulay P, Gultomruk M, Findikli N, Yagmur E, Bahceci M. (2015) Is the interchromosomal effect present in embryos derived from Robertsonian and reciprocal translocation carriers particularly focusing on chromosome 10 rearrangements? *Zygote*, 1-8.

Bakircioglu, M.E., **Tulay; P.**, Findikli; N., Erzik, B., Gultomruk; M.,Bahceci; M. (2014) Successful testicular sperm recovery and IVF treatment in a man with Leydig cell hypoplasia. *JARG*, 7:817-21.

Kakourou; G., Jaroudi; S., **Tulay; P.** ; Heath; C., Harper; JC.; SenGupta, SB (2013) Investigation of gene expression profiles before and after embryonic genome activation and assessment of functional pathways at the human metaphase II oocyte and blastocyst stage. *Fertil Steril*, 99(3):803-814.

Tulay; P., Doshi; A., Serhal, P., SenGupta, SB. (2015) Investigation of gene expression and embryo development. *EJHG*. Submitted.

Tulay; P., SenGupta, SB. (2015) MicroRNA expression and miRNA association with DNA repair in human preimplantation embryos final (Review). *Developmental Biology*. Submitted

Tulay; P., Jaroudi; S., Doshi; A., SenGupta, SB. (2015) Functional Assessment of Mismatch Repair. *Journal of Cellular Biochemistry*. Submitted.

Serakinci; N., Kalkan; R., **Tulay; P.** (2015) Double faced role of human mesenchymal stem cells and their role in cancer therapy and challenges. *Current stem cell research and therapy*. Submitted.

Serakinci; N., **Tulay; P.**, Mocan, G. (2015) HPV: obvious but not necessary cause of cervical cancer. *Healthcare for women international*. Submitted.

Tulay; P., Serakinci; N. (2015) The route to HPV associated neoplastic transformation: a review of the literature (Review). *Journal of Virological Methods*. Submitted

Book Chapters

Serakinci; N., **Tulay; P.**, Kalkan; R. (2015) Role of mesenchymal stem cells in cancer development and their use in cancer therapy. In Pham, Phuc Van (Ed.) *Stem cells: clinical applications*. Springer

Languages

Turkish (Native), English (Fluent), German (O'Level), Greek (Beginner)

Extra-curricular Activities

Voluntary work: involved with American Red Cross

Sports: attended tennis tournaments in Cyprus

Music: played piano for 20 years

Acting: acting courses and taking part in a university play

Referees

Sioban SenGupta, Ph.D.

UCL Centre for Preimplantation Genetic Diagnosis

Institute for Women's Health, University College London

86-96 Chenies Mews, London WC1E 6HX, UK

Telephone: 00 44 (0) 207 679 6071, E-mail: sioban.sengupta@ucl.ac.uk

Joyce Harper, Ph.D.

UCL Centre for Preimplantation Genetic Diagnosis

Institute for Women's Health, University College London

86-96 Chenies Mews, London WC1E 6HX, UK

Telephone: 00 44 (0) 207 679 6072, E-mail: joyce.harper@ucl.ac.uk