CURRICULUM VITAE AND PUBLICATIONS LIST



CURRICULUM VITAE

Name and Surname:	Mustafa SOLAK
Academic Title:	Professor Dr.
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Foreign Languages Known (Score and Year):	English, B2 Upper Intermediate, 1989
Certificates Received:	Temel Genetik Kursu Fluoresans in Situ Hibridizasyon Uygulamalı Kursu" 7-8 Kasım 1996, İstanbul Üniversitesi Tıp Fakültesi Çocuk Sağlığı Enstitüsü Tıbbi Genetik Bilim Dalı (PRETAM), İstanbul. Kromozomal ve Viral DNA insitu hibridizasyon uygulaması Tanıda Rekombinant DNA Teknolojisi Uygulamalı Kursu The Application of Recombinant DNA Technology, Ocak- Mayıs 1989, Glasgow/ İskoçya 1983 Moleküler Biyoloji ve Gen Mühendisliği Lisansüstü Yaz Okulu, 5-23 Eylül 1983, İntepe / Çanakkale
Area of Expertise:	Health Sciences

Degree	Department/Program	University	Year
Doctorate	Tıbbi Genetik (Doktora)	Anadolu University	1985
Bachelor's Degree	Biyoloji Bölümü	Atatürk University	1976

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Genital Organ Anomalisi Gösteren Olgularda Kromozom ve X Kromatini Analizi

Position Title	Workplace	Year
Professor Dr.	Afyon Kocatepe University	1999-2019
Academic Staff	Manisa Celal Bayar University	1993-1999
Associate Professor	Anadolu University	1992-1999
Assistant Professor	Anadolu University	1986-1992
Lecturer	Anadolu University	1985-1986

Supervised Master's Theses:

1. Kronik obstrüktif akciğer hastalarında alfa-1 antitripsin genine ilişkin genotipleme çalışması (2006)

2. Konjenital işitme kayıplı olguların Cx26 ve Cx30 genleri açısından genotiplendirilmesi (2006)

3. Ailevi Akdeniz ateşi (FMF) tanılı olgularda MEFV mutasyonlarının incelenmesi (2005)
4. Mesane kanseri tanılı olgularda p53 geni mutasyon analizi (2005)
5. Kronik myeloid lösemi ve akut lenfoblastik ön tanılı olgularda konvensiyonel sitogenetik ve floresan in situ hibridizasyon ile analizler (1999)
6. İki ve daha fazla spontan abortuslu çiftlerde frajil bölge analizleri (1993)
7. Akut lösemi tanılı olgularda kromozom ve kardeş kromatid değişimi (KKD) analizi (1992)
8. Yenidoğan kord kanından direkt yöntemle ve kord kanı ile periferik kandan kültür yöntemiyle kromozom analizleri ve uygulanan yöntemlerin karşılaştırılması (1992)

Supervised Doctoral Theses/Proficiency Studies in Arts:

1. Farklı evre kolorektal tümörlerde bazı genlerin ifadelenme düzeylerinin araştırılması (2020)
2. İnfertil Olgularda Sitogenetik Ve Y Kromozomu Mikrodelesyon Analizlerinin Değerlendirilmesi (2017)
3. Vitamin d düzeyi ve cyp27b1 gen polimorfizminin multiple skleroz ile ilişkisi (2014)
4. RORA, ROBO1, CFH ve HTR1A gen polimorfizmlerinin yaşa bağlı makula dejenerasyonu ile ilişkisinin araştırılması (2014)
5. Lomber dejeneratif disk hastalığı ile Vitamin D reseptör ve Aggrecan gen polimorfizmleri arasındaki ilişkinin incelenmesi (2009)
6. Postmenopozal kadınlarda kemik mineral yoğunluğu ile östrojen reseptör alfa ve kollajen tip 1 alfa 1 gen polimorfizmlerinin ilişkisi (2008)
7. Olası alzheimer tanısı almış olgularda Apolipoprotein E (APO E) ve İnterlökin-1 Alfa C889T (IL-1A C889T) gen polimorfizmlerinin hastalık ile ilişkisinin araştırılması (2008)
8. İntrasitoplazmik sperm injeksiyonu ile elde edilen gebeliklerde amniyotik hücre kültürü ile fetal kromozom analizi (2001)

Administrative Duties:

1. Vice Rector - Biruni University (2021 - Continues)
2. Head of Main Science/Science Department - Afyon Kocatepe University (2017 - 2020)
3. Rector - Afyon Kocatepe University (2014 - 2018)
4. Rector - Afyon Kocatepe University (2011 - 2014)
5. Chairman of the YÖK Supervisory Board - Afyon Kocatepe University (2008 - 2011)
6. Member of the YÖK Executive Board - Afyon Kocatepe University (2008 - 2011)
7. Head of Department - Afyon Kocatepe University (2007 - 2008)
8. Head of Main Science/Science Department - Afyon Kocatepe University (2004 - 2007)
9. Dean - Afyon Kocatepe University (2003 - 2007)
10. Head of Department - Afyon Kocatepe University (2001 - 2004)
11. Dean - Afyon Kocatepe University (2000 - 2003)
12. Vice Rector - Afyon Kocatepe University (1999 - 2003)
13. Vice Dean - Canik Başarı University (1994 - 1994)
14. Deputy Institute Director - Anadolu University (1990 - 1993)
15. Deputy Institute Director - Anadolu University (1987 - 1990)

Awards:

1. Fetal chromosomal analysis of pregnancies following intracytoplasmic sperm injection with amniotic tissue culture (2003)
2. Fetal chromosomal analysis of pregnancies following ıntracytoplasmic sperm injection with amniotic tissue culture (2003)
3. Evaluation of noninvasive clinical samples in chronic chlamydial prostatitis by using in situ hybridization (1997)
4. Chromosome analyses in pleural effusions (1994)

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Eslamkhah S., Aslan E. S., Yavaş C., Akçalı N., Karcıoğlu Batur L., Abuaısha A. M., Yildirim E. E., Solak M., White K. N., "Mpox virus (MPXV): comprehensive analysis of pandemic risks, pathophysiology, treatments, and mRNA vaccine development", *Naunyn-Schmiedeberg's Archives of Pharmacology*, 2025.

A2. Çolak-geniş E., Özdemir Erdoğan M., Çam F. S., Aydemir Ö., Akin F., Gerik-celebi H. B., Solak M., "Investigation of Genetic Changes in Three Families with Bipolar Disease", *Molecular Syndromology*, vol. 15, no. 6, pp. 464-473, 2024.

A3. Yildiz S. H., Karaosmanoğlu C., Duman R., Varol N., Özdemir Erdoğan M., Solak M., Duman R., Elmas M., "Relationship between expression levels of TDRD7 and CRYBB3 and development of age-related cortico-nuclear cataracts", *Egyptian Journal of Medical Human Genetics*, vol. 24, no. 1, 2023.

A4. Yildiz S. H., Karaosmanoğlu C., Duman R., Varol N., Erdoğan M. Ö., Solak M., Duman R., Elmas M., "Correction: Relationship between expression levels of TDRD7 and CRYBB3 and development of age-related cortico-nuclear cataracts (Egyptian Journal of Medical Human Genetics, (2023), 24, 1, (16), 10.1186/s43042-023-00396-z)", *Egyptian Journal of Medical Human Genetics*, vol. 24, no. 1, 2023.

A5. Korkmaz S., Soylemez E. S. A., Soylemez Z., Solak M., "Determination of PDK1, SLC2A1, EGFR, PTEN, CD276 Gene Expression Levels and IDH1 Gene R132H Polymorphism in Brain Tumor Tissues", *Turkish Neurosurgery*, vol. 33, no. 6, pp. 1086-1092, 2023.

A6. Dundar M., Fahrioglu U., Yildiz S. H., Bakir-gungor B., Temel S. G., Akin H., Artan S., Cora T., Sahin F. I., Dursun A. vd., "Clinical and molecular evaluation of MEFV gene variants in the Turkish population: a study by the National Genetics Consortium", *Functional and Integrative Genomics*, vol. 22, no. 3, pp. 291-315, 2022.

A7. Arikan Söylemez E. S., Söylemez Z., Çilekar M., Arikan Y., Tokyol Ç., Kenger İ. H., Solak M., "Investigation of the expression levels of CDH1, FHIT, PTEN, and TTPAL genes in colorectal tumors", *Turkish Journal of Medical Sciences*, vol. 52, no. 1, pp. 124-130, 2022.

A8. Söylemez Z., Arikan E. S., Solak M., Arikan Y., Tokyol Ç., Şeker H., "Investigation of the expression levels of CPEB4, APC, TRIP13, EIF2S3, EIF4A1, IFNg, PIK3CA and CTNNB1 genes in different stage colorectal tumors", *Turkish Journal of Medical Sciences*, vol. 51, no. 2, pp. 661-674, 2021.

A9. Elmas M., Gogus B., Değirmenci B., Solak M., Gleeson J., "A case of spastic paraplegia type 11 with a variation in the SPG11 gene", *Egyptian Journal of Medical Human Genetics*, vol. 21, no. 1, 2020.

A10. Elmas M., Gogus B., Solak M., "Understanding What You Have Found: A Family With a Mutation in the LAMA1 Gene With Literature Review", *Clinical Medicine Insights: Case Reports*, vol. 13, 2020.

A11. Yildiz M., Terzi H., Yildiz S. H., Varol N., Özdemir Erdoğan M., Kasap M., Akçalı N., Solak M., "Proteomic analysis of the anticancer effect of various extracts of endemic thermopsis turcica in human cervical cancer cells", *Turkish Journal of Medical Sciences*, vol. 50, no. 8, pp. 1993-2004, 2020.

A12. Değirmenci B., Solak M., Yildiz S. H., Erdogan M. O., Elmas M., Fistik T., "Evaluation of cytogenetic and y chromosome microdeletion analyzes in infertile cases", *Meta Gene*, vol. 19, pp. 78-81, 2019.

A13. Elmas M., Yıldız H., Erdoğan M., Gogus B., Avcı K., Solak M., "Comparison of clinical parameters with whole exome sequencing analysis results of autosomal recessive patients; a center experience", *Molecular Biology Reports*, vol. 46, no. 1, pp. 287-299, 2019.

A14. Ağaoğlu N. B., Varol N., Yildiz S. H., Karaosmanoğlu C., Duman R., Özdemir Erdoğan M., Solak M., "Relationship between SIRT1 gene expression level and disease in age-related cataract cases", *Turkish Journal of Medical Sciences*, vol. 49, no. 4, pp. 1068-1072, 2019.

A15. Ozdemir Erdoğan M., Avci K., Yildiz S. H., Arikan Terzi E. S., Söylemez Z., Varol N., Solak M., "Effect of gene polymorphisms in transmembrane protein 18 (TMEM18) and neuronal growth regulator 1 (NEGR1) on body mass index in obese subjects", *Biotechnology and Biotechnological Equipment*, vol. 32, no. 6, pp. 1567-1574, 2018.

A16. Yildiz S., Ozdemir Erdogan M., Solak M., Eser O., Arıkan Terzi E., Eser B., Kocabaş V., Aslan A., "Lack of association between the methylenetetrahydropholate reductase gene A1298C polymorphism and neural tube defects in a Turkish study group", *Genetics and Molecular Research*, vol. 15, no. 2, 2016.

A17. Karatas O. F., Yuceturk B., Suer I., Yilmaz M., Cansiz H., Solak M., Ittmann M., Ozen M., "Role of miR-145 in human laryngeal squamous cell carcinoma", *Head and Neck*, vol. 38, no. 2, pp. 260-266, 2016.

A18. Yildiz S. H., Erdogan M. O., Artan S., Solak M., Yaman M., Ozbabalik B. D., Terzi E. S. A., "Association of Alzheimer's Disease with APOE and IL-1α Gene Polymorphisms", *American Journal of Alzheimer's Disease and other Dementias*, vol. 30, no. 8, pp. 756-761, 2015.

A19. Ozen M., Karatas O. F., Gulluoglu S., Bayrak O. F., Sevli S., Guzel E., Ekici I. D., Caskurlu T., Solak M., Creighton C. J. vd., "Overexpression of miR-145-5p inhibits proliferation of prostate cancer cells and reduces SOX2 expression", *Cancer Investigation*, vol. 33, no. 6, pp. 251-258, 2015.

A20. Guzel E., Karatas O. F., Duz M. B., Solak M., Ittmann M., Ozen M., "Differential expression of stem cell markers and ABCG2 in recurrent prostate cancer", *Prostate*, vol. 74, no. 15, pp. 1498-1505, 2014.

A21. Solak M., Ozdemir Erdogan M., Yildiz S. H., Ucok K., Yuksel S., Arıkan Terzi E. S., Bestepe A., "Association of obesity with rs1421085 and rs9939609 polymorphisms of FTO gene", *Molecular Biology Reports*, vol. 41, no. 11, pp. 7381-7386, 2014.

A22. Bucak A., Ulu Ş., Bükülmez A., Tekin M. S., Ayçiçek A., Köken R., Solak M., "Inner ear involvement in children with familial mediterranean fever", *Journal of International Advanced Otology*, vol. 10, no. 2, pp. 124-127, 2014.

A23. Solak Ö., Erdoğan M. Ö., Yildiz H., Ulaşli A. M., Yaman F., Terzi E. S. A., Ulu S., Dündar Ü., Solak M., "Assessment of opioid receptor μ1 gene A118G polymorphism and its association with pain intensity in patients with fibromyalgia", *Rheumatology International*, vol. 34, no. 9, pp. 1257-1261, 2014.

A24. Turkoz F. P., Solak M., Kilickap S., Ulas A., Esbah O., Oksuzoglu B., Yalcin S., "Bone metastasis from gastric cancer: The incidence, clinicopathological features, and influence on survival", *Journal of Gastric Cancer*, vol. 14, no. 3, pp. 164-172, 2014.

A25. Turkoz F. P., Solak M., Petekkaya I., Keskin O., Kertmen N., Sarici F., Arik Z., Babacan T., Ozisik Y., Altundag K., "Association between common risk factors and molecular subtypes in breast cancer patients", *Breast*, vol. 22, no. 3, pp. 344-350, 2013.

A26. Uçar F., Çapkin E., Karkucak M., Yücel B., Sönmez M., Alver A., Kaklikkaya N., Tosun M., Alemdaroğlu E., Solak M., "Associations of HLA-DRB1 alleles with anti-citrullinated protein antibody-positive and anti-citrullinated protein antibody-negative rheumatoid arthritis in northern east part of Turkey", *International Journal of Rheumatic Diseases*, vol. 15, no. 6, pp. 538-545, 2012.

A27. Eser O., Eser B., Cosar M., Erdogan M., Aslan A., Yildiz H., Solak M., Haktanir A., "Short aggrecan gene repetitive alleles associated with lumbar degenerative disc disease in Turkish patients", *Genetics and Molecular Research*, vol. 10, no. 3, pp. 1923-1930, 2011.

A28. Berdeli A., Mir S., Nalbantoglu S., Kutukculer N., Sozeri B., Kabasakal Y., Cam S., Solak M., "Comprehensive analysis of a large-scale screen for MEFV gene mutations: Do they truly provide a "heterozygote advantage" in Turkey?", *Genetic Testing and Molecular Biomarkers*, vol. 15, pp. 475-482, 2011.

A29. Erdogan M., Yıldız H., Artan S., Solak M., Taşcioğlu F., Dündar Ü., Eser B., Çolak E., "Association of estrogen receptor alpha and collagen type i alpha 1 gene polymorphisms with bone mineral density in postmenopausal women", *Osteoporosis International*, vol. 22, no. 4, pp. 1219-1225, 2011.

A30. Ayçiçek A., Sağlam H., Koçoğullari C. U., Haktanir N. T., Dereköy F. S., Solak M., "Mitral valve prolapse as a new finding in branchio-oto-renal syndrome", *Clinical Dysmorphology*, vol. 19, no. 4, pp. 181-184, 2010.

A31. Sevli S., Uzumcu A., Solak M., Ittmann M., Ozen M., "The function of microRNAs, small but potent molecules, in human prostate cancer", *Prostate Cancer and Prostatic Diseases*, vol. 13, no. 3, pp. 208-217, 2010.

A32. Erdogan M., Yildiz S., Solak M., Eser O., Cosar E., Eser B., Koken R., Buyukbas S., "C677t polymorphism of the methylenetetrahydrofolate reductase gene does not affect folic acid, vitamin B12, and homocysteine serum levels in Turkish children with neural tube defects", *Genetics and Molecular Research*, vol. 9, no. 2, pp. 1197-1203, 2010.

A33. Eser B., Cora T., Eser O., Kalkan E., Haktanir A., Erdogan M. O., Solak M., "Association of the polymorphisms of vitamin d receptor and aggrecan genes with degenerative disc disease", *Genetic Testing and Molecular Biomarkers*, vol. 14, no. 3, pp. 313-317, 2010.

A34. Dundar U., Solak M., Kavuncu V., Ozdemir M., Cakir T., Yildiz H., Evcik D., "Evidence of association of Vitamin D receptor Apa I gene polymorphism with bone mineral density in postmenopausal women with osteoporosis", *Clinical Rheumatology*, vol. 28, no. 10, pp. 1187-1191, 2009.

A35. Yuksel S., Samli H., Colbay M., Dundar U., Acarturk G., Demir S., Koken T., Aktepe O. C., Kavuncu V., Solak M., "Increased serum osteoprotegerin levels associated with decreased bone mineral density familial mediterranean fever", *Tohoku Journal of Experimental Medicine*, vol. 217, no. 4, pp. 321-327, 2009.

A36. Solak M., Yildiz H., Köken R., Erdogan M., Eser B., Şen T., Evirgen N., Erdem S., Arikan E., "Analysis of familial Mediterranean fever gene mutations in 202 patients with familial Mediterranean fever", *Genetic Testing*, vol. 12, no. 3, pp. 341-344, 2008.

A37. Evirgen N., Solak M., Dereköy S., Erdoğan M., Yildiz H., Eser B., Arikan S., Erkoç A., "Genotyping for Cx26 and Cx30 mutations in cases with congenital hearing loss", *Genetic Testing*, vol. 12, no. 2, pp. 253-256, 2008.

A38. Tosun M., Samli H., Arikan Y., Solak M., Sahin A., Söylemez Z., Kalkan S., "The effects of CO 2 pneumoperitoneum on the apoptotic index in the peritoneum", *Advances in Therapy*, vol. 24, no. 4, pp. 883-889, 2007.

A39. Samli H., Samli M. M., Solak M., "Natural transmission of AZFb Y-chromosomal microdeletion from father to his three sons", *Archives of Andrology*, vol. 52, no. 6, pp. 423-426, 2006.

A40. Samli H., Samli M., Azgoz A., Solak M., "Y chromosome microdeletion in a case with Klinefelter's syndrome", *Archives of Andrology*, vol. 52, no. 6, pp. 427-431, 2006.

A41. Samli H., Samli M., Solak M., Imirzalioglu N., "Genetic anomalies detected in patients with non-obstructive azoospermia and oligozoospermia", *Archives of Andrology*, vol. 52, no. 4, pp. 263-267, 2006.

A42. Demir Y., Samli H., Yucel A., Yilmaz M. D., Haktanir N. T., Maralcan G., Solak M., "A new syndrome of microtia with mixed type hearing loss, renal agenesis, and multiple skeletal anomalies", *American Journal of Medical Genetics, Part A*, vol. 140A, no. 7, pp. 747-751, 2006.

A43. Kuru I., Maralcan G., Yucel A., Aktepe F., Turkmen S., Solak M., "Synpolydactyly of the foot in homozygotes", *Journal of the American Podiatric Medical Association*, vol. 96, no. 4, pp. 297-304, 2006.

A44. Yucel A., Kuru I., Bozan M. E., Acar M., Solak M., "Radiographic evaluation and unusual bone formations in different genetic patterns in synpolydactyly", *Skeletal Radiology*, vol. 34, no. 8, pp. 468-476, 2005.

A45. Lüleci N., Sakarya M., Topçu I., Lüleci E., Erinçler T., Solak M., "Effects of sevofluran on cell division and levels of sister chromatid exchange Die wirkung von sevofluran auf zellteilung, mitose-index (MI) und austausch der schwesterchromatide (sister chromatide exchange SCE)", *Anasthesiologie Intensivmedizin Notfallmedizin Schmerztherapie*, vol. 40, no. 4, pp. 213-216, 2005.

A46. Kuru I., Samli H., Yucel A., Bozan M. E., Turkmen S., Solak M., "Hypoplastic synpolydactyly as a new clinical subgroup of synpolydactyly", *Journal of Hand Surgery*, vol. 29B, no. 6, pp. 614-620, 2004.

A47. Samli H., Solak M., Imirzalioğlu N., Beyatli Y., Şimşek S., Kahraman S., "Fetal chromosomal analysis of pregnancies following intracytoplasmic sperm injection with amniotic tissue culture", *Prenatal Diagnosis*, vol. 23, no. 10, pp. 847-850, 2003.

A48. Gümüş B., Sengil A. Z., Solak M., Fistik T., Alibey E., Çakmak E. A., Yeter M., "Evaluation of non-invasive clinical samples in chronic Chlamydial prostatitis by using In situ hybridization", *Scandinavian Journal of Urology and Nephrology*, vol. 31, no. 5, pp. 449-451, 1997.

D. Articles published in national peer-reviewed journals:

D1. Akçalı N., Yıldız S. H., Özdemir Erdoğan M., Solak M., Kanat Pektaş M., "Analysis Of Polymorphic Chromosome Variants In Couples With Recurrent Pregnancy Loss", *Sağlık Bilimlerinde İleri Araştırmalar Dergisi*, 2024.

D2. Elmas M., Pektas A., Solak M., "Evaluation of dysmorphic children according to echocardiographic findings: A single center experience", *Egyptian Journal of Medical Human Genetics*, 2018.

D3. Yildiz S. H., Ulaşli A. M., Özdemir Erdoğan M., Dıkıcı Ö., Arikan Terzı E. S., Dündar Ü., Solak M., "Assessment of pain sensitivity in patients with chronic low back pain and association with HTR2A gene polymorphism", *Archives of Rheumatology*, vol. 32, no. 1, pp. 3-9, 2017.

D4. Özdemir Erdoğan M., Çankaya T. Ş., Ulaşli A. M., Yildiz S. H., Arikan Terzi E. S., Çavdar T., Dündar Ü., Solak M., "Association of rs11209032 and rs1004819 polymorphisms in interleukin-23 receptor gene with ankylosing spondylitis", *Archives of Rheumatology*, vol. 31, no. 3, pp. 201-207, 2016.

D5. Sözen M. A., Sevimli Ö. F., Yılmaz M., Keser D. D., Coşkun K. Ş., Bałciołlu E., Özbulut Ö., Solak M., "Exploratory genetic association study between the BDNF Val66Met polymorphism and schizophrenia in a population from Turkey", *Neurology Psychiatry and Brain Research*, 2015.

D6. Petekkaya I., Sahin U., Gezgen G., Solak M., Yuce D., Dizdar O., Arslan C., Ayyildiz V., Altundag K., "Association of breast cancer subtypes and body mass index", *Tumori*, 2013.

D7. Köken R., Bükülmez A., Köken G. N., Eser B., Samli H., Demir T., Solak M., "Double aneuploidy: A case of trisomy 21 with XYY Çift Añploidi: XYY'li Trizomi 21 Olgusu", *European Journal of General Medicine*, 2011.

D8. Sirri Cam F., Gul D., Tunca Y., Fistik T., Ozdemir Erdogan M., Yildiz H., Erdem S., Solak M., "Analysis of the dermatoglyphics in Turkish patients with Klinefelter's syndrome", *Hereditas*, 2008.

D9. Metintas M., Ozdemir N., Solak M., Artan S., Ozdemir M., Basaran N., Ekici M., Erginel S., "Chromosome analysis in pleural effusions: Efficiency of this method in the differential diagnosis of pleural effusions", *Respiration*, 1994.

D10. Başaran N., Şayli B., Başaran A., Solak M., Artan S., Stevenson J., "Consanguineous marriages in the Turkish population", *Clinical Genetics*, 1988.