

ÖZGEÇMİŞ

1. **Adı Soyadı:** TUĞÇE KARADERİ

2. **Ünvanı:** YARDIMCI DOÇENT

3. **Öğrenim Durumu:**

Derece	Alan	Üniversite	Yıl
Lisans	Biyoloji (anadal), Kimya (yandal)	University of Missouri – Kansas City	2004
Y.Lisans	Çevre Sağlığı	Cyprus International Institute for the Environment and Public Health in Association with Harvard School of Public Health	2007
Doktora	İnsan Genetiği (Genetics of Ankylosing Spondylitis)	University of Oxford	2013

4. **Akademik Ünvanlar**

Yardımcı Doçentlik Tarihi : 19 Eylül 2016

5. **Yayınlar**

5.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

2019

Karaderi T*, Justice AE*, Highland HM*, Young KL*, Graff M*, Lu Y*, Turcot V*, GIANT Consortium. *Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body fat distribution*. Nature Genetics. Accepted for publication. *Contributed equally to this work.

2018

Karaderi T*, Day F*, JonesMR*, Meun C*, International PCOS Consortium. *Large-Scale Genome-Wide Meta Analysis of Polycystic Ovary Syndrome Suggests Shared Genetic Architecture for Different Diagnosis Criteria*. PLOS Genetics. 2018 Dec 19;14(12). PMID: 30566500 *Contributed equally to this work.

Watts L, **Karaderi T**, Roberts A, Appleton L, Wordsworth T, Cohen C, Wordsworth BP and Vecellio M. *The severity of ankylosing spondylitis and responses to anti-tumour necrosis factor biologics are not influenced by the tumour necrosis factor receptor polymorphism incriminated in multiple sclerosis*. Genes Immun. 2018 Mar 10. PMID: 29535371

Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, **Karaderi T**, Lempradl A, Locke AE, GIANT Consortium. *Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity*. Nat Genet. 2018 Jan;50(1):26-41. PMID: 29273807

2017

Marouli E, Graff M, Medina-Gomez C, Lo KS, Wood AR, Kjaer TR, Fine RS, Lu Y, Schurmann C, Highland HM, Rieger S, Thorleifsson G, Justice AE, Lamparter D, Stirrups KE, Turcot V, Young KL, Winkler TW, Esko T, **Karaderi T**, Locke AE, Masca NG, *et al.* *Rare and low-frequency coding variants alter human adult height*. Nature. 2017 Feb 9;542(7640):186-190. PMID: 28146470

Pulit SL, **Karaderi T**, Lindgren CM. *Sexual dimorphisms in genetic loci linked to body fat distribution*. Biosci Rep. 2017 Feb 3;37(1). PMID: 28073971 (Review article)

2016

Lessard S, Manning AK, Low-Kam C, Auer PL, Giri A, Graff M, Schurmann C, Yaghootkar H, Luan J, Esko T, **Karaderi T**, NHLBI GO Exome Sequence Project, GOT2D, T2D-GENES, GIANT Consortium, Bottinger EP, Lu Y, Carlson C, Caulfield M, Dubé MP, Jackson RD, Kooperberg C, McKnight B, Mongrain I, Peters U, Reiner AP, Rhainds D, Sotoodehnia N, Hirschhorn JN, Scott RA, Munroe PB, Frayling TM, Loos RJ, North KE, Edwards TL, Tardif JC, Lindgren CM, Lettre G. *Testing the role of predicted gene knockouts in human anthropometric trait variation*. Hum Mol Genet. 2016 Feb 21. PMID: 26908616

2015

Karaderi T, Drong AW, Lindgren CM. *Insights into the Genetic Susceptibility to Type 2 Diabetes from Genome-Wide Association Studies of Obesity-Related Traits*. Curr Diab Rep. 2015 Oct;15(10):83. PMID: 26363598 (Review article)

Hayes MG, Urbanek M, Ehrmann DA, Armstrong LL, Lee JY, Sisk R, **Karaderi T**, Barber TM, McCarthy MI, Franks S, Lindgren CM, Welt CK, Diamanti-Kandarakis E, Panidis D, Goodarzi MO, Azziz R, Zhang Y, James RG, Olivier M, Kissebah AH; Reproductive Medicine Network, Stener-Victorin E, Legro RS, Dunaif A. *Genome-wide association of polycystic ovary syndrome implicates alterations in gonadotropin secretion in European ancestry populations*. Nat Commun. 2015 Aug 18;6:7502. PMID: 26284813

Joshi *et al.*, *Directional dominance on stature and cognition in diverse human populations*. Nature. 2015 Jul 23;523(7561):459-62. PMID: 26131930

2014

Karaderi T, Keidel S, Pointon JJ, Appleton LH, Evans DM, Wordsworth BP. *Association of ankylosing spondylitis with variants in the anthrax toxin receptor 2 gene (ANTXR2)*. Ann Rheum Dis. 2014 Nov;73(11):2054-8. PMID: 25169729

2013

International Genetics of Ankylosing Spondylitis Consortium (IGAS), Cortes A, Hadler J, Pointon JP, Robinson PC, **Karaderi T**, Leo P, Cremin K *et al.* *Identification of multiple risk variants for ankylosing spondylitis through high-density genotyping of immune-related loci*. Nat Genet. 2013 Jul;45(7):730-8. PMID: 23749187

2012

Karaderi T, Cohen CJ, Pointon JJ, Wordsworth BP. *A CCR6 variant strongly associated with rheumatoid arthritis in two populations is not associated with ankylosing spondylitis*. Rheumatol Int. 2012 Apr 8. PMID: 22527137

Karaderi T, Pointon JJ, Wordsworth TWH, Harvey D, Appleton LA, Reveille JD, Farrar C, Harin A, Brown MA, Wordsworth BP. *Limited genetic association between TNFRSF1A, encoding the p55 tumour necrosis factor receptor, and ankylosing spondylitis in the UK Caucasian population*. Clinical & Experimental Rheumatology. 2012 Jan-Feb;30(1):110-3. PMID: 22272576

2011

Evans DM, Spencer CC, Pointon JJ, Su Z, Harvey D, Kochan G, Oppermann U, Diltthey A, Pirinen M, Stone MA, Appleton L, Moutsianas L, Leslie S, Wordsworth T, Kenna TJ, **Karaderi T**, Thomas GP, Ward MM *et al*. *Interaction between ERAP1 and HLA-B27 in ankylosing spondylitis implicates peptide handling in the mechanism for HLA-B27 in disease susceptibility*. Nat Genet. 2011 Jul 10;43(8):761-7. PMID: 21743469

Harvey D, Pointon JJ, **Karaderi T**, Appleton LH, Farrar C, Wordsworth BP. *A common functional variant of endoplasmic reticulum aminopeptidase 2 (ERAP2) that reduces major histocompatibility complex class I expression is not associated with ankylosing spondylitis*. Rheumatology (Oxford). 2011 Sep;50(9):1720-1. PMID: 21719416

Pointon JJ, Harvey D, **Karaderi T**, Appleton LH, Farrar C, Wordsworth BP. *The histone demethylase JARID1A is associated with susceptibility to ankylosing spondylitis*. Genes Immun. 2011 Jul;12(5):395-8. PMID: 21562575

2010

Pointon JJ, Harvey D, **Karaderi T**, Appleton L, Farrar C, Stone MA, Sturrock RD, Brown MA, Wordsworth BP. *Elucidating the Chromosome 9 Association with AS; CARD9 is a Candidate Gene*. Genes and Immun. 2010 Sep;11(6):490-6. PMID: 20463747

Australo-Anglo-American Spondyloarthritis Consortium (TASC), Reveille JD, Sims AM, Danoy P, Evans DM, Leo P, Pointon JJ, Jin R, Zhou X, Bradbury LA, Appleton LH, Davis JC, Diekman L, Doan T, Dowling A, Duan R, Duncan EL, Farrar C, Hadler J, Harvey D, **Karaderi T**, Mogg R, Pomeroy E, Pryce K, Taylor J, Savage L, Deloukas P, Kumanduri V, Peltonen L, Ring SM, Whittaker P, Glazov E, Thomas GP, Maksymowych WP, Inman RD, Ward MM, Stone MA, Weisman MH, Wordsworth BP, Brown MA. *Genomewide association study of ankylosing spondylitis identifies multiple non-MHC susceptibility loci*. Nat Genet. 2010 Feb;42(2):123-7. PMID: 20062062

Pointon JJ, Harvey D, **Karaderi T**, Appleton L, Farrar C, Stone MA, Sturrock RD, Reveille JD, Weisman MH, Ward MM, Brown MA, Wordsworth BP. *The chromosome 16q region associated with ankylosing spondylitis includes the candidate gene TRADD (TNF receptor type 1-associated death domain)*. Ann Rheum Dis. 2010 Jun;69(6):1243-6. PMID: 19854717

2009

Harvey D, Pointon JJ, Evans DM, **Karaderi T**, Farrar C, Appleton LA, Sturrock RD, Stone MA, Oppermann U, Brown MA, Wordsworth BP. *Investigating the genetic association between ERAP1 and ankylosing spondylitis*. Hum Mol Genet. 2009 Nov 1;18(21):4204-12. PMID: 19692350

Karaderi T, Harvey D, Farrar C, Appleton L, Stone MA, Sturrock RD, Brown M, Wordsworth BP and Pointon JJ. *Association between the interleukin 23 receptor and ankylosing spondylitis is confirmed by a new UK case-control study and meta-analysis of published series*. Rheumatology (Oxford). 2009 Apr;48(4):386-9. PMID: 19189980

5.2. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler

Sözlü Sunumlar

T. Karaderi, C. Meun, T. Laisk-Podar, F. T. J. Lin, W. Wu, A. Mahajan, B. H. Mullin, M. R. Jones, F. R. Day, on behalf of the PCOS Consortium. *Genome-wide meta-analysis of polycystic ovary syndrome in women of European ancestry identifies novel loci*. American Society of Human Genetics Annual Meeting, 18-22 October 2016, Vancouver, Canada

T. Karaderi, A.E. Justice, KL Young, H.M. Highland, M. Graff, V. Turcot, P. Auer, N.L. Heard-Costa, C. Schurmann, Y. Lu, L.A. Cupples, C.S. Fox, T.W. Winkler, N. Grarup, R.A. Scott, M.I. McCarthy, K. Mohlke, R.J.F. Loos, I. Borecki, K.E. North, C.M. Lindgren, on behalf of the BBMRI, GOT2D, CHARGE, and GIANT Consortia. *Exome chip meta-analysis identifies novel low-frequency variants contributing to central body fat distribution*. The 13th International Congress of Human Genetics, 3-7 April 2016, Kyoto, Japan.

T. Karaderi, C. Cohen, S. Keidel, L.A. Appleton, G. MacFarlane, S. Siebert, D. Evans, B.P. Wordsworth, *Ankylosing spondylitis is strongly associated with variants in the CMG2 gene*. The British Society of Rheumatology Annual Meeting, 23-25 April 2013, Birmingham, UK.

T. Karaderi, D. Harvey, C. Farrar, L.A. Appleton, M.A. Stone, R.D. Sturrock, M. Brown, B. P. Wordsworth and J.J. Pointon, *Association between the interleukin 23 receptor and ankylosing spondylitis is confirmed by an extended UK study and meta-analysis of published series*. The 6th International Congress on Spondyloarthropathies, 2-4 October 2008, Ghent, Belgium.

Poster Sunumları (Sadece ilk yazar olanlar)

T. Karaderi, F.R. Day, M.R. Jones, C. Meun, on behalf of the PCOS Consortium. *Genome-wide meta-analysis of polycystic ovary syndrome in women of European ancestry identifies novel loci*. The Biology of Genomes Meeting, 8-12 May 2018, Cold Spring Harbor Laboratory, USA.

T. Karaderi on behalf of the GIANT, CHARGE, BBMRI-NL, and GoT2D Consortia, *Exome chip meta-analysis identifies novel variants contributing to central body fat distribution*. The Genomics of Common Diseases, 6-9 September 2017, Wellcome Genome Campus, Hinxton, Cambridge, UK.

T. Karaderi, N. Oskolkov, K. Ström, S. Keildson, C. Ladenvall, A. Mahajan, L. Lind, E. Ingelsson, HC. Holmberg, N. Fuku, G. Wang, Y. Pitsiladis, A.P. Morris, R. Scott, L. Groop, P. Franks, C.M. Lindgren, O. Hansson, *Genome-wide meta-analysis of histological phenotypes provides insights into the genetic architecture of human skeletal muscle*. American Society of Human Genetics Annual Meeting, 6-10 October 2015, Baltimore, USA.

T. Karaderi, N. Oskolkov, C. Ladenvall, S. Keildson, A. Mahajan, L. Lind, E. Ingelsson, L. Groop, P. Franks, A.P. Morris, O. Hansson, C.M. Lindgren, *Genome-wide association analysis of skeletal muscle fiber types*. Genomic Medicine in the Mediterranean Conference, 2-5 October 2013, Crete, Greece; American Society of Human Genetics Annual Meeting, 22-26 October 2013, Boston, USA.

T. Karaderi, C.J. Cohen, J.J. Pointon, B.P. Wordsworth, *A CCR6 variant strongly associated with rheumatoid arthritis in two populations is not associated with ankylosing spondylitis*. The British Society for Rheumatology Annual Meeting, 1-3 May 2012, Glasgow, UK.

T. Karaderi, J.J. Pointon, D. Harvey, L.A. Appleton, C. Farrar, M.A. Brown, B.P. Wordsworth, *TNFR1 and Ankylosing Spondylitis*. The 7th International Congress on Spondyloarthropathies, 7-9 October 2010, Ghent, Belgium.

T. Karaderi, J.J. Pointon, D. Harvey, C. Farrar, L.A. Appleton, M.A. Brown, B.P. Wordsworth, *Further investigation of three non-MHC loci associated with ankylosing spondylitis*. The 6th International Congress on Spondyloarthropathies, 2-4 October 2008, Ghent, Belgium.

6. Projeler

6.1 *Post-doctoral Research, Novo Nordisk Foundation Center for Protein Research, University of Copenhagen; Department of Health Technology, Technical University of Denmark, Denmark (October 2018 – present)*

Investigation of genomic as well as multi-omics datasets using computational and statistical methods in large-scale international projects such as DIabetes REsearch on patient stratiFication (DIRECT).

6.2 *Collaborative Research, The Wellcome Centre for Human Genetics, University of Oxford, UK, (March 2017 – present)*

Collaborative work with Dr. Nilufer Rahmioglu in the Cyprus Women's Health Research Society (COHERS) aiming to map the women's health conditions in Cyprus via a cross-sectional epidemiological study including 8000 women (10% of the women living in north Cyprus over the age of 18).

6.3 *Collaborative Research, Big Data Institute, Li Ka Shing Centre for Health Information and Discovery, University of Oxford, UK, (September 2016 – present)*

Collaborative work with the Lindgren Group in a number of international consortia such as the Genetic Investigation of Anthropometric Traits (GIANT) Consortium, the International Polycystic Ovary Syndrome (PCOS) Consortium and the Adiponectin/Leptin/Fat Percent Consortium.

6.4 *Post-Doctoral Research Scientist, University of Oxford, UK (2012 – 2016)*

Applying statistical and epidemiological methods to determine genetic background of common complex diseases and traits. These methods involved hypothesis-driven candidate gene association studies, agnostic genome-wide and exome chip association studies, as well as making use of the publicly available databases and analysis tools to understand the biology behind the observed genetic associations.

6.4.1 April 2013 – September 2016

Genetics of obesity and obesity-related traits such as waist-to-hip ratio, polycystic ovary syndrome, and the genetic make-up of muscle fibre types.

Supervisor: Prof. Cecilia M. Lindgren

The Wellcome Centre for Human Genetics, University of Oxford, UK.

6.4.2 October 2012 – March 2013

Replication and fine-mapping of the association between ankylosing spondylitis and the variants in the anthrax toxin receptor 2 gene (*ANTXR2*).

Supervisor: Prof. B. Paul Wordsworth

Botnar Research Centre, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, UK.

7. İdari Görevler

- Akademik danışmanlık, Moleküler Biyoloji ve Genetik lisans programı, Biyolojik Bilimler Bölümü, Doğu Akdeniz Üniversitesi, Eylül 2016'dan itibaren.
- Bölüm Müfredat Komitesi, Moleküler Biyoloji ve Genetik lisans programı, Biyolojik Bilimler Bölümü, Doğu Akdeniz Üniversitesi, Eylül 2016'dan itibaren.
- Müfredat Komitesi, Fen ve Edebiyat Fakültesi, Doğu Akdeniz Üniversitesi, Haziran 2017'den itibaren.

8. Bilimsel ve Mesleki Kuruluşlara Üyelikler

- Kıbrıs Kadın Sağlığı Araştırma Derneği (Mart 2017'den itibaren)
- American Society of Human Genetics (Ekim 2013'ten itibaren)
- Oxford Union (Ekim 2011'den itibaren)

9. Ödüller

- National Ankylosing Spondylitis Society Research Scholarship, Oxford, UK, 2011-2013.
- Henni Mester Scholarship, University College, University of Oxford, 2007- 2011.
- Full Tuition Scholarship, Cyprus International Institute for the Environment and Public Health in Association with Harvard School of Public Health, Academic Year 2006-2007.
- Golden Key International Honour Society, Kansas City, USA, 2003.
- Dean's List Honor Roll, University of Missouri- Kansas City, 2001-2004.
- Chancellor's Non-Resident Award, University of Missouri- Kansas City, 2000-2004.

10. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık saati		Öğrenci Sayısı
			Teorik	Uygulama	
2017-2018	Güz	BIOL206 Genetik ve Toplum	3	0	29
		BIOL411 Moleküler Evrim	3	1	39
		BIOL417 Mikrobiyoloji	3	3	39
		BIOL420 Genetik ve Kişiyeye Özgü Tıp	3	0	25
	Bahar	BIOL206 Genetik ve Toplum	3	0	28
		BIOL320 Biyokimya	3	3	42
		BIOL312 Biyoinformatik	3	1	45
		BIOL416 Genetik ve Genomik Bilimler Biyoetiği	3	0	34
2016-2017	Güz	BIOL213 İnsan Genetiği	3	3	59
		BIOL411 Moleküler Evrim	3	0	35
		BIOL417 Mikrobiyoloji	3	3	24
	Bahar	BIOL206 Genetik ve Toplum	3	0	29
		BIOL320 Biyokimya	3	3	30
		BIOL312 Biyoinformatik	3	1	37
		BIOL420 Genetik ve Kişiyeye Özgü Tıp	3	0	20

Not: Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.