

CIRRICULIM VITAE

SINAN TANYOLAC

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SUMMARY

As an experienced and accomplished physician with a background in Internal Medicine, Endocrinology, and Metabolism and Diabetes, I have extensive research experience, including genotyping on genes associated with Type II Diabetes and insulin resistance. I am currently a senior consultant at Medscale Research, a company that conducts international medical research and conducts medication surveys on a variety of diseases, including cancer, cardiovascular disease, renal disease, and endocrine diseases. These surveys primarily focus on chemotherapeutics and biologics. I also have strong teaching experience, including teaching medical students, residents, and postdoctoral fellows in endocrinology, diabetes, and metabolic disorders.

WORK EXPERIENCE

2022-present	<u>President & CEO</u> , Cancer Information & Support Network.
2014-present	<u>Senior Consultant</u> , to manage clinical epidemiologic studies and medication surveys for United States and United Kingdom's pharmaceutical companies in Turkey
2019-2020	<u>Consultant</u> , Istanbul Biruni University, Istanbul, Turkey.
2017-2018	<u>Consultant</u> , Istanbul Aydin University, VM Medical Park Hospital, Istanbul, Turkey
2016-2017	<u>Consultant</u> , Turkish Diabetes Association, Diabetes Hospital, Istanbul, Turkey
2014-2015	<u>Director</u> , Department of Internal Medicine, Kanuni Sultan Suleyman State Hospital, Istanbul, Turkey
2013-2014	<u>Director</u> , Departments of Medicine, Endocrinology, Metabolism and Diabetes, Istanbul Science University, Istanbul, Turkey
2010-2012	<u>Physician</u> , School of Medicine, Koç University and VKV American Hospital, Istanbul, Turkey

EDUCATION

MD Istanbul Faculty of Medicine, Istanbul University, Istanbul, Turkey
 Doctor of Medicine degree, 1995

POSTGRADUATE TRAINING

Visiting Scholar

2006-2010 Departments of Medicine, Diabetes and Endocrinology,
 University of California San Francisco, San Francisco, California, USA
 Working in Dr. Ira Goldfine's lab doing genotyping on genes associated
 with type II diabetes and insulin resistance on large human population from
 UCSF and around the world. In addition, population studies were done
 using hospital record to look at the prevalence of type 2 diabetes.

2006 UCSF Comprehensive Cancer Center, University of California San
 Francisco, San Francisco California, USA
 Working in Dr. McCormick's lab with Dr. Luika Timmermen and Chira
 Chen-Tanyolac on glucose metabolism and breast Cancer. At that time, I
 had grown more than thirty breast cancer cell lines at the same time. I did
 western blots, FISH, treating cells with siRNA, run FAC on the up take of
 glucose and immunohistochemistry staining.

Endocrinology Fellowship

2002-2005 Departments of Internal Medicine, Division of Endocrinology and
 Metabolism, Istanbul Faculty of Medicine, Istanbul University, Istanbul,
 Turkey

2003-2004 Gladstone Institutes of Cardiovascular Disease, University of California
 San Francisco, San Francisco, California, USA
 Working in Dr. Robert Mahley's lab on Dr. Robert Mahley's Turkish
 Health Study project and I genotyped samples from Turkish population for
 genes that might attribute to higher incident for cardiovascular risk. I also
 worked on transgenic mouse model that is associated with high incident of
 cardiovascular risk.

Internal Medicine Residency

1995-2000 Departments of Internal Medicine, Istanbul Faculty of Medicine, Istanbul
 University, Istanbul, Turkey

ACHIEVEMENTS AND AWARDS

2009 First place at 7th Annual World Congress on Insulin Resistance, San
 Francisco, California, USA.

TEACHING EXPERIENCE

2014-2015	Teach Clinical Endocrinology, Diabetes and Metabolic Disorders to medical students, <u>Istanbul YeniYuzyl University, School of Medicine</u> , Istanbul, Turkey
2013-2014	Teach Clinical Endocrinology, Diabetes and Metabolic Disorders to medical students, <u>Istanbul Bilim University, School of Medicine</u> , Istanbul, Turkey
2010-2012	Teach Physiology of Endocrine System to medical students in English, <u>Koc University, School of Medicine</u> , Istanbul, Turkey
2006-2010	Clinical endocrinology training of residents, interns and postdoctoral fellows with Dr. Ira Goldfine, <u>University of California, San Francisco Department of Endocrinology</u> , San Francisco, California, USA
1998-2000	Coordinate and provide instruction in internal medicine residents, interns, and medical students, Istanbul Faculty of Medicine, Departments of Internal Medicine, <u>Istanbul Faculty of Medicine, Internal Medicine Chief Resident</u> , Istanbul, Turkey

LICENSURE / BOARD CERTIFICATES

Internal Medicine Associate Professorship License, Turkey, 2012
 United States ECFMG-certified, 2009
 Endocrinology and Metabolic Disorders Medical License, Turkey, 2005
 Internal Medicine Medical License, Turkey, 2001

PATENTS

Brunetti A, Chiefari E.D., Foti D, Paonessa F, Iiritano S, Goldfine I.D., Kane J.P., Malloy M, Pullinger C, Tanyolac S. "HMGA1 gene polymorphisms, diagnostic genetic method in insulin resistant and Type 2 Diabetic individuals." University of California San Francisco, California, USA, patent no: UCSF-412 (SF09-114)

Brunetti A, Chiefari E.D., Foti D, Paonessa F, Iiritano S, Goldfine I.D., Kane J.P., Malloy M, Pullinger C, Tanyolac S. "Polimorfismo del gene hmgal, metodo di individuazione e metodo di diagnosi genetica di insulino-resistenza e/o diabete mellito di tipo 2". Catanzaro, Italy, patent no: CZ2009A000009, 06/06/2009

SCIENTIFIC PUBLICATIONS

Chiefari E, Mirabelli M, La Vignera S, Tanyolac S, Foti DP, Aversa A, Brunetti A. "Insulin Resistance and Cancer: In Search for a Causal Link." Int J Mol Sci. 2021 Oct 15;22(20):11137.

doi: 10.3390/ijms222011137.

Mirabelli M, Chiefari E, Caroleo P, Arcidiacono B, Corigliano DM, Giuliano S, Brunetti FS, Tanyolaç S, Foti DP, Puccio L, Brunetti A. “Long-Term Effectiveness of Liraglutide for Weight Management and Glycemic Control in Type 2 Diabetes”. 2019 Int J Environ Res Public Health. 2019 Dec 27;17(1). pii: E207. doi: 10.3390/ijerph17010207

Pullinger CR, Goldfine ID, Tanyolaç S, et.al. “Evidence that an HMGA1 gene variant associates with type 2 diabetes, BMI, and HDL cholesterol in a Hispanic American population”. Metab Syndr Relat Disord. 2014 Feb;12(1):25-30. doi: 10.1089/met.2013.0086.

Chiefari E, Tanyolaç S, Iiritano S, Sciacqua A, Capula C, Arcidiacono B, Nocer a A, Possidente K, Baudi F, Ventura V, Brunetti G, Brunetti FS, Vero R, Maio R, Greco M, Pavia M, Hodoglul U, Durlach V, Pullinger CR, Goldfine ID, Perticone F, Foti D, Brunetti A. “A polymorphism of HMGA1 is associated with increased risk of metabolic syndrome and related components”. Sci Rep. 2013 Mar 20;3:1491

Brunetti A, Chiefari E, Pullinger CR, Tanyolaç S, Foti D, Durlach V, Goldfine ID. “Comment on: Marquez et al. Low-frequency variants in HMGA1 are not associated with type 2 diabetes risk”. Diabetes 2012; 61:524-530. doi: 10.2337/db12-0051.

Bonnefond A, Lomberg G, Buttar N, Busiah K, Vaillant E, Lobbens S, Yengo L, Dechaume A, Mignot B, Simon A, Scharfmann R, Neve B, Tanyolaç S, Hodoglul U, Pattou F, Cavé H, Iovanna J, Stein R, Polak M, Vaxillaire M, Froguel P, Urrutia R. “Disruption of a novel Kruppel-like transcription factor p300-regulated pathway for insulin biosynthesis revealed by studies of the c.-331 INS mutation found in neonatal diabetes mellitus”. J Biol Chem. 2011 Aug 12;286(32):28414-24. doi: 10.1074/jbc.M110.215822.

Chiefari E, Tanyolaç S, Paonessa F, Pullinger CR, Capula C, Iiritano S, Mazza T, Forlin M, Fusco A, Durlach V, Durlach A, Malloy MJ, Kane JP, Heiner SW, Filocamo M, Foti DP, Goldfine ID, Brunetti A. “Functional variants of the HMGA1 gene and type 2 diabetes mellitus”. JAMA. 2011 Mar 2;305(9):903-12. doi: 10.1001/jama.2011.207.

Tanyolaç S, Bremer AA, Hodoglul U, Movsesyan I, Pullinger CR, Heiner SW, Malloy MJ, Kane JP, Goldfine ID. “Genetic Variants of the ENPP1/PC-1 Gene Are Associated with Hypertriglyceridemia in Male Subjects.” Metab Syndr Relat Disord. 2009 Aug 5. DOI: 10.1089/met.2009.0027.

Tanyolaç S, Mahley RW, Hodoglul U, Goldfine ID. “Gender differences in the relationship of ENPP1/PC-1 variants to obesity in a Turkish population.” Obesity (Silver Spring). 2008 Nov;16(11):2468-71.

Hodoglul U, Tanyolaç S, Williamson DW, Huang Y, Mahley RW. “Apolipoprotein A-V: a potential modulator of plasma triglyceride levels in Turks.” J Lipid Res. 2006 Jan; 47(1):144-53.

Tanyolaç S, Sertkaya Cikim A, Doğan Azezli A, Orhan Y “Correlation between educational status and cardiovascular risk factors in an overweight and obese Turkish female population.” Anatolian J. of Cardiology. 2008 Oct; 8(5):336-41.

Tanyolaç S., Cikim Sertkaya A., Azezli A.D., Orhan Y. “The alarm and action levels of waist circumference in overweight and obese Turkish women”. Obesity Research & Clinical Practice, 2007 Dec; 4(1):253-259.

Ozbey N, Sencer A, Tanyolaç S., Kurt R, Sencer S, Bilgic B, Turantan I, Molvalilar S. “An intrasellar germinoma with normal cerebrospinal fluid beta-HCG concentrations misdiagnosed as hypophysitis.” Hormones (Athens). 2006 Jan-Mar;5 (1):67-71.

CHAPTERS in BOOKS

Tanyolaç, S., Goldfine, I.D., Karoon, L., “Insulin Pharmacology, Types of Regimens and Adjustments”, Endotext.org., De Groot, L., J. (Editor), Publisher: MDText.com, Inc.

Tanyolaç, S., Orhan Y. “The regulation of Energy Consumption” Medical and Surgical Treatment of Obesity. Bozbora A. (Editor), Publisher: Istanbul Medikal Yayıncılık Ltd. Şti. Istanbul, 2007 (Written in Turkish).

Tanyolaç, S. “Definition, Diagnosis and Classification of Glucose Homeostasis and Diabetes Mellitus”

Chapter 19. [Joslin’s Diabetes Mellitus. Eds. Kahn CR, Weir GC, King GL, Jacobson AM, Moses C, Smith RJ, 2004] V. Yumuk (Translation editor). Istanbul Medikal Yayıncılık Ltd. Şti. İstanbul, 2007. (Translate from English to Turkish)

Tanyolaç, S. “Epidemiology of Diabetes Mellitus.” Chapter 20. [Joslin’s Diabetes Mellitus. Eds. Kahn CR, Weir GC, King GL, Jacobson AM, Moses C, Smith RJ, 2004] V. Yumuk (Translation editor). İstanbul Medikal Yayıncılık Ltd. Şti. Istanbul, 2007. (Translate from English to Turkish)

Tanyolaç, S. “Genetics of Type 1 Diabetes Mellitus”. Chapter 21. [Joslin’s Diabetes Mellitus. Eds. Kahn CR, Weir GC, King GL, Jacobson AM, Moses C, Smith RJ, 2004] V. Yumuk (Translation editor). İstanbul Medikal Yayıncılık Ltd. Şti. Istanbul, 2007. (Translate from English to Turkish)

Tanyolaç, S. “Genetics of Type 2 Diabetes Mellitus”. Chapter 22. [Joslin’s Diabetes Mellitus. Eds. Kahn CR, Weir GC, King GL, Jacobson AM, Moses C, Smith RJ, 2004] V. Yumuk (Translation editor). İstanbul Medikal Yayıncılık Ltd. Şti. Istanbul, 2007. (Translate from English to Turkish)

SCIENTIFIC and CLINICAL MEETINGS / PRESENTATIONS

Chiefari E, Tanyolaç S., Paonessa F, Pullinger C.R, Capula C, Iiritano S, Mazza T, Forlin M, Fusco A, Durlach V, Durlach A, Malloy MJ, Kane JP, Heiner SW, Foti D, Goldfine I.D., Brunetti A. “Functional Variants of the HMGA1 Gene Cause a Major Decrease in Insulin Receptor Expression and Confer a High Risk for Type 2 Diabetes Mellitus”. 7th Annual World Congress on Insulin Resistance, San Francisco, USA, 2009.

Chiefari E, Paonessa F, Tanyolaç S., Capula C, Mazza T, Forlin M, Iiritano S, Fusco A, Foti D, Goldfine I.D., Brunetti A. “Functional Variants of the Gene for the Architectural Transcription Factor HMGA1 are Frequent and Confer a High Risk for Type 2 Diabetes Mellitus”. ADA 69th

Scientific Sessions. New Orleans, USA, 2009. 186-OR, 2009.

Kutluturk, F., Tanyolac, S., Azezli, A., Orhan, Y., "Association between platelet count and metabolic risk factors in overweight and obese women". European Congress of Endocrinology Nisan 2009 Istanbul, Endocrine Abstracts (2009) 20 P473.

Tanyolac S, Cikim A.S., Azezli A.D., Orhan Y. "Thyroid Stimulating Hormone Levels are Associated with Euthyroid Overweight and Obese Turkish Population." Endo 2008 90th Annual Meeting, San Francisco, USA, 2008. P1-217.

Tanyolac, S, Cikim, A, Ozbey, N, Sencer, A, Kurt, R, Sencer, S, Turantan, I & Molvalilar, S. "An intrasellar germinoma with normal cerebrospinal fluid β -HCG concentration misdiagnosed as hypophysitis." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006. Endocrine Abstracts 2006; 11: p463.

Azezli, A., Bayraktaroglu, T., Kutluturk, F., Cikim, A., Tanyolac, S. & Orhan, Y. "Effects of Ezetimibe on Serum Lipoproteins in Patients with Homozygous Familial Hypercholesterolemia Undergoing LDL Cholesterol Apheresis and High Dose Atorvastatin Therapy." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006, Endocrine Abstracts 2006; 11 P319.

Azezli, A., Bayraktaroglu, T., Kutluturk, F., Cikim, A., Tanyolac, S. & Orhan, Y. "Effect of Micronised Fenofibrate on Plasma Levels of C-reactive Protein Combined Hyperlipidemia." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006. Endocrine Abstracts 2006; 11: P320.

Azezli, A., A., Telci, A., Bayraktaroglu, T., Cikim, Uzum, A., Kutluturk, F. Tanyolac, S. & Orhan, Y. "Long Term Safety of Atorvastatin and Fenofibrate Therapy in Patients with Combined Hyperlipidemia." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006. Endocrine Abstracts 2006; 11: P321

Azezli, A., Telci, A., Bayraktaroglu, T., Kutluturk, F., Uzum, A., Cikim, A., Tanyolac, S. & Orhan, Y. "Oxidized Low-Density Lipoprotein Autoantibodies in Patients with Polycystic Ovary Syndrome." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006. Endocrine Abstracts 2006; 11: P673.

Bayraktaroglu, T., Kutluturk, F., Azezli, A., Orhan, Y. & Tanyolac, S. "The Use of Konjac Glucomannan to Lower Serum Thyroid Hormones in Hyperthyroidism." 8th European Congress of Endocrinology incorporating the British Endocrine Societies, Glasgow-UK, 2006. Endocrine Abstracts 2006; 11: p861

Cikim, A.S., Tanyolac, S, Ozbey, N., Orhan, Y. "The Clinical Value of HOMA in Overweight and Obese Women". Obesity Reviews vol.6 suppl 1 2005.

Cikim, A.S., Tanyolac, S., Ozbey, N., Orhan Y. "The Value of Hip Circumference Measurement and its Relationship with Metabolic Risk Markers in Overweight Obese Women". Obesity Reviews vol. 6 suppl 1 2005.

Cikim, A.S., Tanyolac, S, Ozbey, N., Orhan, Y. "Platelet Count and Its Relationship with Insulin Resistance in Overweight and Obese Women". Obesity Reviews vol. 6 suppl 1 2005.

Cikim, A.S., Tanyolac, S, Ozbey, N., Orhan, Y. "New Metabolic Parameters for Determining Insulin Resistance in Obesity". Obesity Reviews vol. 6 suppl 1 2005.

Tanyolac, S, Ozbey, N, Orhan, Y. “Hypertriglycerides Waist in Obese Women”. Obesity Reviews vol 3 suppl 1. 2003.

FELLOWSHIPS / SCHOLARSHIPS

CDS International Medical Science Training Program, 2003
Roche Clinical Scientific Training Scholarship, 2003
Sanofi-Aventis Clinical Training Scholarship, 2003
Ugur Honor Scientific Educational Scholarship, 1990

PROFESSIONAL ORGANIZATIONS

American Association of Clinical Endocrinologist
The Endocrine Society
Society of Endocrinology and Metabolism of Turkey
Turkish Diabetes Association
Turkish Internal Medicine Association
Turkish Medical Association
Turkish Obesity Association
Endocrinology Dialog Association