

Hakan DARICI

Ph.D. (Histology & Embryology)

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Profile

Current Job: Assistant Professor. Istinye University. Istanbul, TURKEY (2016-Present)

Current Job: CEO of HD Bioink Biotechnology Corp. (2018-Present) www.hdbioink.com

Current Job: Director at 3D Medical & Industrial Design Research & Practice Center (ISU3D)

Previous Job: Assistant Professor, Sanko University Gaziantep, TURKEY (2014-2016)

Birth: January 1983, TURKEY

Linked  <https://www.linkedin.com/in/hakan-darici-20598164/>

ORCID ID: <https://orcid.org/0000-0001-9393-554X>

Web of Science Researcher ID: [AAG-4316-2019](#)

Research Areas

Stem Cells, 3D Bioprinting, Bioinks, Artificial Organs, Artificial Intelligence, Robotics, Embryonic Development, Human Enhancement,

Skills

- Fluent in Turkish and English.
- Years of experience as group leader and PI.
- Experienced on laboratory and department establishment.
- Experienced on stem cell, cancer, and germ cell culture.
- Experienced on 3D Printing and 3D Bioprinting
- Very good in laboratory animal handling.
- Experienced on graduate and undergraduate student education.
- Experienced on Erasmus and International Relations.
- Good worker under stress or limited conditions. Problem solver.
- Good analytic and strategic thinking. Very good practical intelligence.
- Very good computer skills (MS Windows, MS Office, Graphical Design, Web design,).

Education, Publications & Activities

2016-2022 Asst. Prof. at Istinye University School of Medicine, Dept of Histology & Embryology

2014-2016 Asst. Prof. at SANKO University School of Medicine, Dept. of Histology & Embryology

2007-2014 PhD Education at SDU, Medical Faculty, Department of Histology & Embryology

2004-2007 Master's Education at SDU, Medical Faculty, Department of Histology & Embryology

2000-2004 Undergraduate Education at SDU, Faculty of Science & Lecture, Dept. of Biology

Detailed Education, Publications & Activities

2016 – 2022

Assistant Professor at Istinye University School of Medicine, Department of Histology & Embryology

- **Publication:** Zorba Yildiz, A. P., **Darici, H.**, Yavuz, B., Abamor, E. Ş., Topuzoğullari, M., Bağirova, M., Allahverdiyev, A., Karaoz, E. “Preparation and Characterization of Graphene-Based 3D Biohybrid Hydrogel Bioink For Peripheral Neuroengineering” *J. Vis. Exp. (JoVE)*, 10.3791/63622. May 6, 2022
- **Workshop Participation (Online):** “Future of Biotech & New Innovation Areas” İzmir Bakırçay University University Center of Technology (TEKMER). 26 April 2022.
- **Online Talk:** “Stem Cells & Artificial Organs” Okan University, Medical Faculty, Scientific Research Community. 25 April 2022.
- **Project Coordinator:** TUBİTAK 1001 Project. “Investigation Of Effectiveness of Tepotinib-Temozolomide Combination in iPSC-Derived Cerebral Organoids by Mimicking Stage Four Glioblastoma Multiforme-Like Cancer Model in 3D Environment” “IPSC Türevli Serebral Organoidlerde, Dördüncü Evre Gliyoblastoma Multiforme Benzeri Kanser Modeli Oluşturarak Tepotinib-Temozolomid Kombinasyonunun Etkinliğinin 3 Boyutlu Ortamda İncelenmesi” Project No: 221S914. 15.04.2022-15.04.2024. Budget:701.000 TL
- **Publication:** Yavuz, B., **Darici, H.**, Zorba Yildiz, A. P., Abamor, E. Ş., Topuzoğullari, M., Bağirova, M., Allahverdiyev, A., Karaoz, E. Formulating and Characterizing an Exosome-based Dopamine Carrier System. *J. Vis. Exp. (JoVE)* (182), e63624, doi: [10.3791/63624](https://doi.org/10.3791/63624) March 26, 2022.
- **Invited Talk:** “Artificial Organs” Bahçeşehir University, 2nd National GENMET Congress 2 April 2022.
- **Invited Talk:** “How AI will Effect Medicine” İstanbul University, Medical Faculty, Artificial Intelligence Community. 16 March 2022.
- **Online Talk:** “Bioprinters & Artificial Organs” Marmara University, 2nd National GENMET Congress. 4 February 2022.
- **Project Completed:** “Analysis of the Effects of Resveratrol on Lysosomes of Young and Old Mesenchymal Stem Cells using Artificial Intelligence” “Resveratrolün Genç ve Yaşlı Mezenkimal Kök Hücrelerin Lizozomlarına Etkisinin Yapay Zeka ile Analizi” Director: Berfin Ergin. Industry Advisor Hakan Darici. TUBİTAK 2209/B. 2021-2022.
- **Online Talk:** “3D Bioprinters” Üsküdar University, Medical Faculty, Uskudar TÖB, 1 February 2022.
- **Master Student Graduated:** Aslı N. OYUNLU. Thesis Subject: “Development of a New Three-Dimensional Culture Material to Trigger Spheroid Formation in Mesenchymal Stem Cells.” İstinye University, Health Sciences Institute. Stem Cell & Tissue Engineering Master’s Program. 19 January 2021 İstanbul.
- **Master Student Graduated:** Büşra BAŞER. Thesis Subject: “Comparison of Mesenchymal Stem Cell Gene Expression in Tissues Created Using a 3D Bioprinter.” İstinye University, Health Sciences Institute. Stem Cell & Tissue Engineering Master’s Program. 19 January 2021 İstanbul.
- **Panel:** “Medicine in the Information Era” İstinye University, Medical Faculty. 18 November 2021.
- **Workshop (Online):** “3D Bioprinters & Artificial Organs in Future Medicine” Eczacıbaşı & Başlangıç Noktası “Future Leaders Workshop”, 8 August 2021.
- **Master Student Graduated:** Ceren OZDEMİR. Thesis Subject: “Analysis of GFP Gene Transduced Mesenchymal Stem Cell Behaviors Using Artificial Intelligence in 4D Cultures.” İstinye University, Health Sciences Institute. Stem Cell & Tissue Engineering Master’s Program. 6 July 2021 İstanbul.
- **Online Talk:** “Artificial Organs” Uludağ University, Medical Faculty, UBİAT, “22nd National Medical Student Congress” 30 May 2021.
- **Invited Speaker:** “3D Bioprinting for Dentistry Applications” Gazi University, Faculty of Dentistry, International Virtual Symposium, “Contemporary Approaches in Dental Clinical Practice”. 29-30 April 2021.
- **Live Radio Program:** Invited guest at TRT Radio 1 on Tomorrow’s Future (Yarının Dünyası) Program by Hakan Ozalpuk. 30 April 2021 15:30.
- **Online Talk:** “DNA, Stem Cells and a Better Version of Humans” İSÜ MBG Club. 24 March 2021.
- **Online Talk:** “Future of Artificial Organs” Yıldız Technical University BIOSEM. 17 April 2021.
- **Online Talk:** “3D Tissue Modelling” IEEE TRSB WIE SUMMIT. 10 April 2021.

- **Online Talk (COVID-19):** “3D Printers & Artificial Organs” Marmara University GENMET & MÜKÖK. 13 March 2021.
- **Online Talk (COVID-19):** “Artificial Organs” İst. Yeni Yuzyıl University. BIOHUB. 13 March 2021.
- **Online Talk (COVID-19):** “Stem Cells & 3D Tissue Engineering” Okan University Sci-Day. OUBAT&ULUBAT. 11 March 2021.
- **Workshop Organization:** Tissue Engineering & 3D Bioprinting (Doku Mühendisliği ve 3D Bioprinting)
- **Oral Presentation:** “The Future of Tissue Engineering: Towards Artificial Organs” “Doku Mühendisliğinin Geleceği: Yapay Organlara Doğru” Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.
- **Moderator:** “Panel of Current Approaches in Tissue Engineering” “Doku Mühendisliğinde Güncel Yaklaşımlar Paneli”. *Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.*
- **Oral Presentation:** “Analyses of Scratch Assay Model on Young and Aged Mesenchymal Stem Cells via Artificial Intelligent”. Karakiraz O., Ozdemir C., Saglam B., **Darici H.**, Karaoz E. *Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.*
- **Oral Presentation:** “Development of a 3D Artificial Stomach Model to Model Helicobacter Pylori Infection” “Helicobacter Pylori Enfeksiyonunu Modellemek için 3B Yapay Mide Modeli Geliştirilmesi”. Papatya C., **Darici H.**, Abamor ES., Allahverdiyev A. *Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.*
- **Poster Presentation:** “Can AI Overcome Our Shortcomings in 3D Bioprinting?” Torkay G., **Darici H.**, Karaoz E. *Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.*
- **International Symposium Organized:** Istinie University Stem Cell and Tissue Engineering Symposium with International Participation 27-28th of February 2021.
- **International Book Chapter:** **Darici H.**, Sun E., Koyuncu-Irmak D., Karaöz E. (2021) “Mesenchymal Stem Cells for the Treatment of COVID-19: Why and When They Should Be Used?”. In: Khan M. (eds) “Human Mesenchymal Stem Cells”. Nova Sci. 1-51. Feb 9 2021. ISBN: 978-1-53619-155-4. <https://novapublishers.com/shop/human-mesenchymal-stem-cells/>
- **Publication:** Ursavas S, **Darici H.**, Karaoz E. Olfactory ensheathing cells: Unique glial cells promising for treatments of spinal cord injury. *Journal of Neuroscience Research*. 2021 February; 00: 1– 19. doi: <https://doi.org/10.1002/jnr.24817>
- **Online Talk (COVID-19):** “How AI Will Change Medical Education: A Simulation of the Future” “Yapay Zeka Tıp Eğitimini Nasıl Değiştirecek: Bir Gelecek Simülasyonu” Istinie University Medical Artificial Intelligence Club 10th of January 2021. <https://www.youtube.com/watch?v=HRAVS0vIgBQ>
- **Online Talk (COVID-19):** “Transhumanism” Gazi University GENMET & EMSA Istinie Co-Op Meeting 8th of December 2020.
- **Oral Presentation:** Zorba Yıldız AP, Yavuz B, Abamor E.Ş, **Darici H.**, Bagirova M, Allahverdiyev A. *3D Therapeutic Approaches for Peripheral Nerve Damage*. 9th International Molecular Biology and Biotechnology Congress. Van, Turkey. 6-10 December 2020.
- **Panelist:** “Medicine in Information Era” Section: ‘AI and Artificial Organs’ İstinie University, Faculty of Medicine. 26-27 November 2020
- **Online Talk (COVID-19):** “3D Printers and Bioprinters on Healthcare” “Sağlıkta Yazıcılar ve Biyoyazıcılar. Hack’nBreak Open Innovation Camp on Healthcare 25th of June 2020. 05:20:00-06:20:00. Link: <https://www.youtube.com/watch?v=ns1v-aVTd6A>
- **Online Talk (COVID-19):** “Bioprinters and 3D Tissue Engineering” “Biyoyazıcılar ve 3B Doku Mühendisliği” Yesil Society Talk 21st of June 2020. Link: <https://www.youtube.com/watch?v=K8TvdgJgHUE>
- **Publication:** Koyuncu-Irmak D, **Darici H.**, Karaoz E. Stem Cell Based Therapy Option in COVID-19: Is It Really Promising? *Aging and Disease*. 2020 August;11(4) doi: <http://dx.doi.org/10.14336/AD.2020.0608>.
- **Online Talk (COVID-19):** “Stem Cells and COVID-19” “Kök Hücreler ve COVID-19” Afyonkarahisar Sağlık Bilimleri Üniversitesi – Science Talks during Quarantine. 9 June 2020.
- **Online Talk (COVID-19):** “Use of Stem Cells for the Treatment of COVID-19” “COVID19 Tedavisinde Mezenkimal Kök Hücre Kullanımı” Altınbas University 1st International Multidisciplinary Studies Congress. 3-5 June 2020.

- **Publication:** Taşdemir M, Özgürses ME, **Darici H**, Ordueri NE. *Cytotoxic Effects Of N-(4-Chlorophenyl)-1H-Indole-2-Carboxamide On Bone Cancer Cells*. *Acta Oncologica Turcica*. 51(1):173-180. 01.06.2020. DOI: [10.5505/aot.2020.20591](https://doi.org/10.5505/aot.2020.20591)
- **Online Talk (COVID-19):** 3D Bioprinting Applications for Tissue Engineering. IEEE-EMBS Webinars 4. 8 April 2020. Link: <https://www.youtube.com/watch?v=QR2gpCtz8S4>
- **Publication:** Celik, S, Ozkok, F, Ozel, AE., Sahin MY, Akyuz, S, Diren Sigirci B, Kahraman BB, **Darici, H**, Karaoz, E. *Synthesis, FT-IR and NMR Characterization, Antimicrobial Activity, Cytotoxicity and DNA Docking Analysis of a New Anthraquinone Derivate Compound*. *Journal of Biomolecular Structure and Dynamics*. 2020 Feb;38(3):756-770. doi:10.1080/07391102.2019.1587513. Epub 2019 Apr 2.. doi: [10.1080/07391102.2019.1587513](https://doi.org/10.1080/07391102.2019.1587513)
- **International Project (Turkey&Azerbaijan):** Pirinç Kepeği Türevi Pentapeptidinin Konformasyon Davranışının ve D-Amino Asit Süstitüsyonlarının Antikanser Aktivitesi Üzerindeki Etkisinin Değerlendirilmesi: Antikanser İlaç Keşfine Yönelik Çıkarımlar. TUBİTAK 118F445. 15/02/2020-15/02/2022.
- **Invited Talk:** “Future of Medicine and Artificial Organs” Kutahya Medical Sciences University (KSBU), Medical School Scientific Research Club, First National Congress. February 9th 2020, Kutahya, Turkey.
- **Course Organized:** “2nd 3D Tissue Engineering and Gene Transfer Applications on Stem Cells Course” 20-24 January 2020 (5 days). İstinye Uni. R&D Center. İstanbul.
- **Invited Talk:** “Future of Medicine” İstinye University, TURKMSIC Conference. December 6th 2019, İstanbul, Turkey.
- **Publication:** Zorlu FY, **Darici H**, Turkkahraman H.. *Histomorphometric and Histopathologic Evaluation of the Effects of Systemic Fluoride Intake on Orthodontic Tooth Movement*. *H. Eur J Dent*. 2019 Jul;13(3):361-369. doi: [10.1055/s-0039-1700192](https://doi.org/10.1055/s-0039-1700192). Epub 2019 Dec 3.
- **Invited Talk:** “Stem Cell Culture & Laboratory Environment” Başkent University, Stem Cell & Tissue Engineering Applications in Dentistry Congress. October 28-29th 2019, Ankara, Turkey.
- **Debate:** “Will Artificial Intelligence Bring the End of the World?” İstinye EMSA Event. October 26th 2019, İstanbul. Turkey.
- **Invited Talk:** “Future of Medicine for Engineers”. (Mühendisler için Geleceğin Tıbbı). Kültür University, IEEE EMBS Committee. Presidents Meeting 12 October 2019. Istanbul Turkey.
- **Course Organized:** “3D Tissue Engineering and Gene Transfer Applications on Stem Cells Course” 9-13 September 2019 (5 days). İstinye Uni. R&D Center. İstanbul, Turkey.
- **Project Completed:** “Creating A Customized Bioink Mixture To Create Dermis Tissue” “Dermis dokusu oluşturmak için özelleşmiş biyomürekkep karışımı oluşturulması” Director: A. Selin Uzel. Advisor Hakan Darici. TUBİTAK 2209/A. 2018-2019. 1919B011702218
- **Project Advisor:** “Utilization of Fibroblast and Mesenchymal Stem Cell Combinations in Vascular Modeling in a 3D Bioprinter” “Fibroblast ve Mezenkimal Kök Hücre Kombinasyonlarının 3B Biyoyazıcıda Damar Modellenmesinde Kullanılması” Director: Merve Özcan. TUBİTAK 2209/A. P. No: 1919B011802424
- **Project Advisor:** “Artificial Intelligence supported analyses of cell proliferation on early and late passage cultures” “Erken ve Geç Pasaj Kültürlerde Hücre Proliferasyonu ve Yara İyileşmesinin Yapay Zeka ile Analizi” Director: Özge Karakiraz. TUBİTAK 2209/A. P. No: 1919B011802443
- **Invited Talk:** “Future of Medicine: How Can Be Prepared”. (Geleceğin Tıbbı: Nasıl Hazır Olmalıyız). Robert Collage, Remixopolis Event. May 18th, 2019. Istanbul Turkey.
- **Invited Talk:** “Future of Medicine: Artificial Organs”. (Gelecekte Tıp: Yapay Organlar). Medipol University, Faculty of Medicine May 7th, 2019. Istanbul Turkey.
- **Invited Talk:** “Third Dimension in Tissue Engineering: 3D Bioprinting” Kutahya Medical Sciences University (KSBU). Faculty of Medicine. May 5th 2019, Kutahya, Turkey.
- **Invited Talk:** “Designing a 3D Bioprinted Blood Vessel with Stem Cells” 2nd International Congress on Stem Cell and Cellular Therapies (ICSCCT). April 13th, 2019. Istanbul Turkey.
- **Course Given:** “Stem Cell Culture and Aseptic Techniques” 2nd International Congress on Stem Cell and Cellular Therapies (ICSCCT). Course on Stem Cells Techniques. April 12th, 2019. Istanbul Turkey.
- **Project Industrial Advisor:** “Effect of Hydroxyapatite Compounds Obtained From Different Sources on Stem Cell Differentiation in 3D Culture” “Farklı Kaynaklardan Elde Edilmiş Hidroksiapatit Bileşiklerinin 3 Boyutlu Kültürde Kök Hücre Farklılaşmasına Etkisi” Director: Başak I. Açıkyıldız. TUBİTAK 2209/B.

- **Project Industrial Advisor:** “Printing and Differentiation of Mesenchymal Stem Cells with Graphene Added Bioinks in 3D Bioprinters” “Mezenkimal Kök Hücrelerin Grafen Eklenmiş Biyomürekkeplerle 3B Biyoyazıcılarda Basımı ve Farklılaştırılması” Director: Müge E. Yaşın. TUBİTAK 2209/B. 1139B411802273
- **Project Advisor:** “Development of an Air Pressure Controlled Lightweight Human Prosthetic Hand with Silicon Material in 3D Bioprinters” “3 Boyutlu Biyoyazıcılarda Silikon Materyal ile Hava Basıncı Kontrollü İnsana özgü Hafif Protez El Geliştirilmesi” Director: Nevzat K. Terzioğlu. TUBİTAK 2209/B.
- **Publication:** Investigation of the Cellular Behavior of Polycaprolactone-Hydroxyapatite Tissue Materials Produced with Bioprinter. Bulus E., Sahin YM., **Darici H.**, Turker Sener L. *International Journal of Scientific and Technological Research*. Vol 5, No.1, 2019.
- **Invited Lectures:** “Future of 3D Printing Technologies” Istanbul University, Faculty of Medicine. 7th and 15th of January 2019, Istanbul.
- **BBC Documentary:** A Documentary on BBC Arabic Channel. “Animal stem cells printed in 3D using bioink” 10th of Jan. 2019 Link: <https://www.youtube.com/watch?v=hdSCfnzDYPk&list=WL&index=29&t=0s>
- **Invited Talk:** “Cellular Therapies on Wound Healing” “Yara İyileşmesinde Hücre Tedavileri”. 13. National Wound Congress. Antalya. 2018.
- **Invited Talk:** “Transhumanism” Bioform VI. Yıldız Technical University, 2018, Istanbul.
- **Invited Talk:** “Future of Bioink Technologies” “Bioink Teknolojilerinin Geleceği”. II. Biyoteknoloji Zirvesi, November 2018, Gebze, Kocaeli.
- **Poster Presentation:** “Decellularized Matrix Enhanced Bioink for 3D Bioprinting” ZP Akguner, **H. Darici**, E Karaoz. *International Symposium of 3D Printing in Medicine*. November 2018, Ankara.
- **Poster Presentation:** “Production of biocompatible and biodegradable tissue support materials with bioprinter and investigation of cell behavior.” Bulus E., Sahin YM., **Darici H.**, Turker Sener. *International Marmara Science and Social Sciences Congress*. November 2018, Kocaeli, Turkey
- **Invited Talk:** “Transhumanism and Human Enhancement: Role of Stem Cells and Exosomes” Darici H., Karaoz E. Human Health .5th International and Interdisciplinary Conference on Health, Culture and the Human Body. Istanbul, October 5th 2018.
- **Poster Presentation:** “Production of Bioceramic Reinforced Polycaprolactone Tissue Scaffolds Isolated from Nature with 3-D Bioprinter Technology for Medical Applications.” Bulus E., Sahin YM., **Darici H.**, Turker Sener. VII. Polymer Science and Technology Congress. September 2018. Eskisehir, Turkey.
- **Oral Presentation:** “Cellular Analysis of 3D Printed Tissues and Similarities with Real Tissues” “3 Boyutlu Biyoyazıcılarda Basılan Dokuların Hücre Analizleri ve Gerçek Dokular ile Benzerliği”. **Darici H.**, Akguner ZP., Yilmaz M., Bal-Ozturk A., Karaoz E. XIV. Ulusal Histoloji ve Embriyoloji Kongresi. Antalya, May 2018.
- **Invited Talk:** “Bioprinting, Stem Cells and the Future of Medicine”. Yesil Science. April 2018.
- **Publication:** Kocamer-Simsek B, Baydilek Y, Sahin AZ, **Darici H**, Anesthetic Management with Total Intravenous Anesthesia in Hereditary Spherocytosis: A Case Report. *Eur J Ther*. 2018 24:64-66. DOI: 10.5152/EurJTher.2017.33.
- **Started Project (Coordinator):** TÜBİTAK 1512 BIGG – Production of Tissue Specific Bioinks for 3D Bioprinters. February 2018 to January 2019.
- **Start-Up Founded:** HD Bioink Biotechnology Corp. Founder and CEO. January 2018.
- **Started Project (Researcher):** TUBİTAK 3001 Project No: 117Z732 – “Development of Amphiphilic Branched Polymeric Nanoparticle Systems for Targeted Cancer Therapy.” “Hedeflendirilmiş kanser tedavisine yönelik amfifilik dallanmış polimerik nanopartiküler sistemlerin geliştirilmesi”. 2018-2020.
- **International Book Chapter:** Şener L.T., **Darici H.**, Albeniz I., Karaöz E. (2017) “Wound Treatment by Stem Cells”. In: Pham P. (eds) Pancreas, Kidney and Skin Regeneration. Stem Cells in Clinical Applications. Springer, Cham. 227-248. ISBN: 978-3-319-55687-1. DOI: https://doi.org/10.1007/978-3-319-55687-1_10.
- **Book Chapter:** Embryology at a Glance. Chapter 1: Early Development. 1-45. Translation from 2nd Ed. Into Turkish 1st Ed. 2017
- **Publication:** Ergün O, Koşar PA, Onaran İ, **Darici H**, Koşar A. Lysozyme gene treatment in testosterone induced benign prostate hyperplasia rat model and comparasion of its' effectiveness with botulinum toxin injection. *Int Braz J Urol*. 2017 Jul 20;43. doi: [10.1590/S1677-5538.IBJU.2016.0677](https://doi.org/10.1590/S1677-5538.IBJU.2016.0677)
- **Founder & Director:** 3D Medical & Industrial Design Research & Practice Center. 2017-Present.

- **Founder & Researcher:** Stem Cell & Tissue Engineering Research & Practice Center. 2017-Present.
- **Courses Given during 2016-17 Spring Semester:** Histology (Faculty of Medicine, Class I). Sapiens (Faculty of Medicine, Class I).
- **Book Chapter:** “Burton’s Microbiology for Health Sciences. Chapter 3: Cellular Structure and Taxonomy” 25-41. Translation from 10th Ed. Into Turkish 1st Ed. 2017
- **Courses Given during 2016-17 Fall Semester:** Histology (Faculty of Medicine, Class I). Fringe Science in Medicine (Faculty of Medicine, Class I).
- **Administrative Duty:** In charge of İstinye University Multidisciplinary Laboratory.
- **Erasmus:** İstinye University, Medical Faculty Erasmus Coordinator.
- **Foundation:** Co-founder academic staff of İstinye University. Co-founder of Medical Faculty, Histology and Embryology Dept. 2016.

2014 – 2016

Assistant Professor at SANKO University School of Medicine, Department of Histology & Embryology

- **International Symposium Organized:** SANKO University Innovation in Medicine Summit-2, 5th-7th May 2016, Gaziantep, Turkey.
- **Chairman:** Innovation in Medicine Summit-2, 5th May 2016, Oral Presentation Session I.
- **Moderator:** “Apoptosis & Cell Death from All Perspectives” Course given by prof. Dr. Engin Ulukaya. May 2016.
- **Poster Presentation:** “Digital Age of Histology Practice (Histoloji Pratiğinde Dijital Dönem)” **Darici H.** Ursavas S., Guven Bagla A. 13th National Histology and Embryology Congress May 2016.
- **Courses Given during 2015-2016 Spring Semester:** Histology & Embryology (Faculty of Medicine Class II), Elective Project Study (Faculty of Medicine Class I).
- **Erasmus:** Sanko University Erasmus Institutional Coordinator (EIC) (March 2014-Agust 2014).
- **Courses Given during 2015-2016 Fall Semester:** Histology (Faculty of Medicine, Class I) Histology & Embryology (Faculty of Medicine Class II), Histology & Embryology (Physiotherapy & Rehabilitation Class I), Elective Project Study (Faculty of Medicine Class I), Fringe Science in Medicine (Fac. of Med. Class II).
- **Publication:** Aslan Kosar P, Tuncer H, Uguz AC, Espino Palma J, **Darici H**, Onaran I, Cig B, Kosar A, Rodriguez Moratinos AB. The efficiency of Poly (ADP-Ribose) Polymerase (PARP) cleavage on detection of apoptosis in an experimental model of testicular torsion. International Journal of Experimental Pathology 2015;96(5):294-300. DOI: [10.1111/iep.12137](https://doi.org/10.1111/iep.12137)
- **Military Duty:** Lieutenant at GATA Haydarpaşa Military Education Hospital. Department of Microbiology – Molecular Microbiology Laboratory (September 2014 - July 2015).
- **Sabbatical:** Sabbatical leave for military duty (August 2014 - July 2015).
- **Erasmus:** Sanko University Erasmus Institutional Coordinator (EIC) (March 2014-Agust 2014).
- **Honorable Mention:** Best oral presentation award. “Activating pluripotency pathways via small molecules.” 1st Congress on Stem Cell and Cell Therapies. Kocaeli. March 2014.
- **Oral Presentation:** “Activating pluripotency pathways via small molecules.” 1st Congress on Stem Cell and Cell Therapies. Kocaeli. March 2014.
- **Foundation:** Co-founder academic staff of Sanko University. Founder of Medical Faculty, Histology and Embryology Dept.
- **Assignment:** Assigned as Assistant Professor to Sanko University (24 February 2014).
- **Publication:** Sangun O, Dundar B, **Darici H**, Comlekci S, Doguc DK, Celik S. The effects of long-term exposure to a 2450 MHz electromagnetic field on growth and pubertal development in female Wistar rats. *Electromagn Biol Med* 2014; 24:24. DOI: [10.3109/15368378.2013.871619](https://doi.org/10.3109/15368378.2013.871619)

PhD Education at SDU, Medical Faculty, Department of Histology & Embryology

- **Defended Ph.D. Thesis:** “Evaluation of Chemical Inducers Influencing on Pluripotent Stem Cell Signaling Pathways” Supervisor: Prof. Dr. Meral ONCU. Co-Supervisor: Prof. Dr. Erdal KARAÖZ. December 2013.
- **Travel Fellowship Award:** Stem Cell Society Singapore Symposium 2013. November 2013.
- **Poster Presentation:** “A Small Molecule Cocktail Increased Pluripotent Stem Cell Markers in Human Fibroblasts” Darici H., Öncü M., Duruksu G., Sağlam O., Karaoz E. *Singapore Stem Cell Society Symposium 2013: Early Human Development & Fetal-Maternal Medicine*. Singapore. November 2013.
- **Conference:** “Today and Future of the Stem Cell (Kök Hücrenin Bugünü ve Yarını)” Invited talk at SDU Medical Faculty Conference Room for *SDU Scientific Research Community (SDU-BAT); Career Days Organizations*. April 2, 2013.
- **Study at Stem Cell Center:** Thesis studies conducted at Kocaeli University, Center for Stem Cell and Gene Therapy Research and Practice (KOU, KOGEM) from 26 November to 4 March 2013 for three months.
- **Publication:** Armagan, A., F. Dogan, et al. (2012). "The effect of micronized purified flavonoid fraction on the prevention of testicular pathologies in adolescent rats with experimentally induced varicocele." *The Journal of urology* 188(5): 2007-2013.
- **Supervised Project:** “Effect of Resveratrol and Akt Inhibitors on Cancer Cell Metastasis (Resveratrol ve Akt İnhibitörlerinin Kanser Hücre Metastazına Etkisi)” TUBITAK (The Scientific and Technological Research Council of Turkey) 2209 Student Projects. September 2011 – June 2012.
- **Best Poster Award:** “DNA-PK is Regulated By PKC- Δ in Non-Tumorigenic and Androgen-Independent Tumorigenic Prostate Epithelial Cells” Gürbüz N., **Darici H.** Baykal A. *4th International Congress on Cell membranes and Oxidative Stress: Focus on Calcium Signalling and TRP Channels*. 26-29 June 2012. Published as abstract in *Cell Membranes and Free Radical Research* Volume 4, No:1, P:87 2012.
- **Poster Presentation:** “PKC-Epsilon Downregulates DNA-PK Gene Expression in Tumorigenic and Non-Tumorigenic Prostate Cell Lines” Gürbüz N., **Darici H.** Baykal A. *4th International Congress on Cell membranes and Oxidative Stress: Focus on Calcium Signalling and TRP Channels*. 26-29 June 2012. Published as abstract in *Cell Membranes and Free Radical Research* Volume 4, No:1, P:89 2012.
- **Poster Presentation:** “Effect of High Fructose Diet on Visfatin and IL-6 Levels in Liver and Fat Tissues” M. Özgöçmen¹, A. Gokcimen², **H. Darici**¹, I.A. Candan¹, M. ONCU¹ *4th International Congress on Cell membranes and Oxidative Stress: Focus on Calcium Signalling and TRP Channels*. 26-29 June 2012. Published as abstract in *Cell Membranes and Free Radical Research* Volume 4, No:1, p 66-67. 2012
- **Oral Presentation:** “Histological Evaluation of the Effects of Systemic Fluoride Intake on Orthodontic Tooth Movement” Yalcin Zorlu F. Turkkahraman H. Darici H. Avunduk MC. Koskan O. *88th Congres of European Orthodontic Society*. Santiago de Compostela, Spain. 18-23 June 2012.
- **Best Oral Presentation Award:** “Effect of Long-Term Exposure to Wireless Internet Frequencies on Growth and Pubertal Development on Female Wistar Rats (Kablosuz İnternet Frekansında Elektromanyetik Alana Uzun Süreli Maruziyetin Dişi Wistar Ratlarda Büyüme ve Pubertal Gelişim Üzerine Etkileri)” Sangun O., Dundar B.M., **Darici H.** Comlekci S. Kumbul Doguc D. Celik S. *15th National Pediatric Endocrine and Diabetes Congress*. November. 2011.
- **Poster Presentation:** “Developmental Stages in Early Embryonal Period and Related signal Pathways (Erken Embriyonal Dönem Gelişim Aşamaları ve Etkili Sinyal Yolakları)” **Darici H.** Candan İ.A. Özgöçmen M. Oncu M. *11th National Histology and Embryology Congress* May 2012. Published as abstract in *Cell and Tissue Biology Research* Volume 3 Supplement. p 115. 2012
- **Poster Presentation:** “Effects of Non-Steroid Antiinflammatory Drugs on Adhesion Molecules of Smooth Muscle Cells (Non-Steroid Antiinflatuar İlaçların Çizgili Kas Dokusundaki Adhezyon molekülüleri Üzerine Etkisi)” Candan İ.A. Oncu M. Özgöçmen M. **Darici H.** *11th National Histology and Embryology Congress* May 2012. Published as abstract in *Cell and Tissue Biology Research* Volume 3 Supplement. p 115. 2012
- **Poster Presentation:** “Effect of Lithium and Valproic Acid on NF- κ B and p38 MAPK Expression on Rat Mesenchymal Stem Cells”. **Darici H.**, Armagan I., Okcu A, Oncu M., Karaoz E. *1st Annual Congress on Stem Cell Research*. October 2011.

Published as abstract in *Cell and Tissue Biology Research* Volume 3 Supplement, p 197-198. 2012.

- **Poster Presentation:** “Effect of Lithium and Valproic Acid on NF-κB and p38 MAPK Expression on Rat Mesenchymal Stem Cells”. **Darici H.**, Armagan I., OKCU A, Oncu M., Karaoz E. 1st Annual Congress on Stem Cell Research. October 2011.
- **Poster Presentation:** “Visualization of Embryonic Period” **Darici H.** Oncu M. 2nd International Congress of the Turkish Society of Clinical Embryology. September 2011.
- **Publication:** “The efficacy of single-dose 5-fluorouracil therapy in experimental caustic esophageal burn” Duman L., Buyukyavuz BI., Altuntas I., Gokcimen A., Ceyhan L., **Darici H.**, Aylak F., Tomruk O. *Journal of Pediatric Surgery*. 46 (10), 1893-1897.
- **Poster Presentation:** “Effect of Diosmin-Hesperidin on Apoptosis and Johnsen Score on Experimental Rat Varicose Model”. Dogan F., Armagan A., Oksay T., **Darici H.** 9th National Andrology Congress, June 2011.
- **Poster Presentation:** “Evaluation of Ischemia-Reperfusion Damage Level with Apoptosis and JTBS” Tuncer H., Aslan-Kosar P, Tuncer O., Oksay T, **Darici H.**, Bas E., Dogan F., Kosar A. 9th National Andrology Congress, June 2011.
- **Best Poster Award:** “Effect of Long-Term Exposure to 2450 Hz Electromagnetic Field on Growth and Pubertal Development.” Sangun O., Dundar BM., **Darici H.** 47th Turkish Pediatric Congress. May. 2011
- **Education and Lecturing Lessons Taken:** ‘Instructional Planning and Evaluation’, ‘Learning and Development’. September 2010 to January 2011.
- **Editorship:** 2011-2015 Strategic Plan of Suleyman Demirel University. December 2010.
- **Workshop Organized:** 2011-2015 Strategic Plan and 2023 Vision Studies Second Workshop. March 2010.
- **Workshop Organized:** 2011-2015 Strategic Plan and 2023 Vision Studies First Workshop. Dec.2009.
- **Qualifying Exam Passed:** Written and oral exams on whole Histology and Embryology. October 2009.
- **Ph.D. Courses Completed:** Advanced cell biology, Mutation analyze methods, Cytogenetics, Cytogenetic banding methods, Histology and development of Endocrine system; Cardiovascular system, Respiratory system and Nervous system, Development and congenital anomalies of Muscle and skeletal system; Head-neck and face, Chosen subjects on histology and embryology, Seminars I and II. Total 14 courses, 104 ECTS credits. June 2009.
- **Poster Presentation:** “Effect of Adrenomedullin and its Binding Protein on Hepatic Ischemia and Reperfusion” Bozkurt S., Cerci S., Kaymakcioglu N., **Darici H.** 2nd International Liver Symposium. May 2009.
- **International Symposium Organized:** 2nd International Liver Symposium. May 2009.
- **Oral Presentation:** “Role of Nitric Oxide on Oocyte Maturation” **Darici H.**, Oncu M., Gokcimen A. 9th National Histology & Embryology Congress. May 2008.
- **Started Ph.D. Education:** September 2007

2004-2007

Master’s Education at SDU, Medical Faculty, Dept. of Histology & Embryology

- **Defended Master Thesis:** “Role of Nitric Oxide on Oocyte Maturation” Supervisor: Associate Prof. Dr. Meral ONCU. (Former Supervisor: Associate Prof. Dr. Meltem OZGUNER). August 2007.
- **Publication:** “Effect of Long-term Fluoride Exposure on Lipid Peroxidation and Histology of Testes in First- and Second-generation Rats” Oncu M., Kocak A., Karaoz E., **Darici H.**, Savik E., Gultekin F. *Biol Trace Elem Res*. 2007 Sep;118(3):260-8. DOI: [10.1007/s12011-007-0036-6](https://doi.org/10.1007/s12011-007-0036-6)
- **Poster Presentation:** Gokcimen A., **Darici H.**, Kocak A., Gulle K., Cim A. Effect of Etomidate on the Mother and Pups Administered to Confined Rats. 8th National Histology & Embryology Congress. June 2006.

- **Poster Presentation:** “Protective Effect of Carnitine against Liver Damage Caused by Midazolam” Bayram D., Ulusoy D., Oncu M., Gokcimen A., **Darici H.** 8th National Histology & Embryology Congress. June 2006.
- **Completed Master Courses:** Cell biology, Molecular biology, Recombinant DNA technology, Tissue Histology, General human embryology, Histochemical techniques, Electron microscopy techniques, General systematic anatomy I and II, Seminar, Histology and development of Immune system; Urogenital system, Reproductive biology and artificial reproduction techniques. Total 13 courses, 97 ECTS credits. June 2006.
- **Started Master’s Education:** September 2004.

2000-2004

University Education at SDU, Faculty of Science & Lecture, Department of Biology

- Voluntary work at SDU Central Laboratory after graduation. Summer 2004.
- Graduation Project: Enviromental Problems Caused by Petroleum and Biological Purification Methods
- Preparation of Biology ‘04 yearbook.
- Student President of Biology 2003-2004.
- Vice Student President of Biology 2002-2003.
- Voluntary work at Isparta SSK Hospital in Hematology, Microbiology and Biochemistry labs and Blood draw stations for 45 days. Summer 2002.

Courses Taken

- Day of Microscopy. Oberkochen, Germany. May 2018.
- Structure-Specification Relations of Polymers. August 2017.
- R Programming on Cancer Data Mining. May 2017.
- Educator Education Course. November 2015.
- Chinese Course. Starter level. May 2012-July 2012.
- Spanish Course. Starter level. September 2010 to January 2011.
- Basic Stem Cell Techniques and Molecular Biology Applications. December 2010.
- Flow Cytometry Certificate. December 2010.
- Animal Practices and Handling of Laboratory Animals – November 2008.
- Calcium Signalling Course – June 2008.
- Research Planning & Medical Statistics Course – June 2008.
- Assisted Reproductive Techniques and Production of Transgenic Animals. TUBITAK – Genetic Engineering and Biotechnology Research Institute – September 2005.
- Stereological Methods and Applications Course. September 2004.

Attended Congresses & Symposiums

- II. Biyoteknoloji Zirvesi, Kasım 2018, Gebze, Kocaeli.
- International Symposium of 3D Printing in Medicine. November 2018, Ankara.
- 5th International and Interdisciplinary Conference on Health, Culture and the Human Body.
- 14th National Histology & Embryology Congress. May 2018.
- 13th Congress on Stem Cell Biology and Technology. Tehran IRAN. 2017
- 18th Congress on Reproductive Biomedicine. Tehran IRAN. 2017
- SANKO University Innovation in Medicine Summit-2, 5th -7th May 2016
- 13th National Histology & Embryology Congress. May 2016.
- International Cofactor Life Sciences Congress. November 2015.
- 2nd International Congress on Stem Cell and Cellular Therapies (ICSCCT). October 18th , 2015
- Stem Cell Therapies on Central Nervous System Disorders Symposium. September 2014.
- 1st Congress on Stem Cell and Cell Therapies. March 2014

- Singapore Stem Cell Society Symposium 2013: Early Human Development & Fetal-Maternal Medicine. Singapore. November 2013.
- 3rd Stem Cell Symposium. Marmara University. November-December 2012.
- 4rd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels. June 2012.
- 11th National Histology & Embryology Congress. May 2012.
- 1st Annual Congress on Stem Cell Research. October 2011.
- 2nd International Congress of the Turkish Society of Clinical Embryology. September 2011.
- 3rd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels. June 2010.
- 10th National Histology & Embryology Congress. May 2010.
- 2nd International Liver Symposium. 2009.
- 2nd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels. June 2008.
- 9th National Histology & Embryology Congress. May 2008.
- X. National Medical Biology & Genetics Congress. September 2007.
- Stem Cell Technologies. From Laboratories to Clinics. October 2006.
- 1st Ion Channels and Oxidative Stress Congress. June 2006.
- 8th National Histology & Embryology Congress. June 2006.

Memberships

- Turkish Histology & Embryology Society (THED). December 2015-Present
- Singapore Stem Cell Society (SSCS). June 2013-2019
- Stem Cell and Cellular Therapies Society. 2013-Present.
- Gamete Biology Journal Club (GABIMAK). November 2009-Present.
- European Association of Cancer Research (EACR). October 2009-Present.
- Molecular Cancer Research Association (MOKAD). August 2009-Present.

Personal Interests

- Astrophysics, Astronomy, Artificial Intelligence, Robotics
- Biotechnology, Bioengineering, Fantasy and Science-fiction novels.
- Latin dances (Tango, salsa)
- Nature Sports (Scuba diving, biking, trekking, climbing and swimming).
- Playing piano, violin and *baglama*.

References

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