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A short biography of Prof. Erdal Karaoz

He was born in 1963 in Izmir/TURKEY. After graduating from Dicle University in 1986, He received Ph.D. degree in the Department of Histology&Embryology at Medical School of Gazi University in 1994. He was in Joslin Diabetes Center of Harvard Medical School as a visiting scientist in 2005. After returning back, He established Turkey's first Stem Cell Research Center in 2006 at Kocaeli University. He was on duty as the director of this research center and the head of the Stem Cell Department between 2007 and 2014. During these years, he published more than 70 original research papers on stem cells and cell biology in various international scientific journals. He is the author of 4 books and co-author of 6 books on Histology&Embryology and Stem Cells. He organized over 23 national and international workshops on basic stem cell technologies and IPS. He participated in over 40 research projects as a project manager or researcher in both national and international projects. Dr. Karaoz is an active member of many academic and professional institutions including TERMİS, European Hematology Association, European Association for Cancer Research, Euroscience, Turkish Society for Electron Microscopy, Turkish Society of Hematology, Society of International Cellular Medicine Society. He was also the head of Stem Cell and Cell Therapies Society between 2013-2016 years. At the end of September of 2014, he started working at Liv Hospital as the head of the GMP facility. In this facility, It has been produced the cellular products such as fibroblast, chondrocytes and MSCs under FDA and GMP regulations. These cells are

used in the treatment of many kind of diseases. For example, in cosmetic operations, skin anti-ageing, facial grafting, breast reconstruction, burn scars, chronic non-healing scars; for peripheral arterial disorders, our cellular products are used in diseases like diabetic foot, for orthopedic disorders like articular cartilage damages, osteoarthritis and shoulder problems and also in GVHD which is a disease comprising after the transplantation of hematopoietic stem cells in some cases. More recently, he and colleagues have been focused on the clinical studies for the treatment of incurable diseases, especially including neuro-muscular degenerative disorders (Duchenne Muscular Dystrophy; DMD, Cerebral Palsy, Spinocerebellar/Frederich Ataxia, Hypoxic encephalopathy, Spinal Cord Injury etc) , via application of MSCs derived from umbilical cord derived MSCs.

Selected Manuscripts SCI (Science Citation Index)

- 1) **Karaoz E**, Aksoy A, Ayhan S, Sarıboyacı AE, Kaymaz F, Kasap K. Characterization of Mesenchymal Stem Cells from Rat Bone Marrow: Ultrastructural Properties, Differentiation Potential and Immunophenotypic Markers. **Histochemistry and Cell Biology**, **132(5):533-546, 2009.**
- 2) **Karaoz E**, Doğan BN, Aksoy A, Gacar G, Akyüz S, Ayhan S, Genç ZS, Yürüker S, Duruksu G, Demircan PC, Sarıboyacı AE. Isolation and in vitro characterisation of dental pulp stem cells from natal teeth. **Histochemistry and Cell Biology**, **133(1):95-112, 2010.**
- 3) **Karaoz E**, Ayhan S, Gacar G, Aksoy A, Duruksu G, Okçu A, Demircan PÇ, Sarıboyacı AE, Kaymaz F, Kasap M. Isolation and characterization of stem cells from pancreatic islet: pluripotency, differentiation potential and ultrastructural characteristics. **Cytotherapy** **12(3): 288-302, 2010.**
- 4) **Karaoz E**, Genç ZS, Demircan PÇ, Aksoy A, Duruksu G. Protection of Rat Pancreatic Islet Function and Viability by Coculture with Rat Bone-Marrow Derived Mesenchymal Stem Cells. **Cell Death Dis.**, **2010 Apr 22;1(4):e36.**
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- 6) **Karaoz E**, Ayhan S, Okçu A, Aksoy A, Bayazıt G, Gürol AO, Duruksu G. Bone Marrow-Derived Mesenchymal Stem Cells Co-Cultured With Pancreatic Islets Display Beta Cell Plasticity. **Journal of Tissue Engineering and Regenerative Medicine**, **5(6):491-500,2011.**
- 7) **Karaöz E**, Okçu A, Gacar G, Sağlam Ö, Yürüker S, Kenar H. A Comprehensive Characterization Study of Human Bone Marrow MSCs with an Emphasis on

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- 9) Kasap M, **Karaoz E**, Akpınar G, Aksoy A, Erman G. Unique Golgi Apparatus Distribution In Stem Cells. **Cell Biochemistry & Function**, **29(6):489-95,2011.**
- 10) **Karaoz E**, Demircan PÇ, sağlam Ö, Aksoy A, Kaymaz F, Duruksu G. Human Dental Pulp Stem Cells Demonstrate Better Neural and Epithelial Stem Cell Properties than Bone Marrow Derived Mesenchymal Stem Cells. **Histochemistry and Cell Biology**, **136(4):455-73,2011.**
- 11) Demircan PÇ, Sarıboyacı AE, Ünal ZS, Gacar G, Subaşı C, **Karaoz E**. Immunoregulatory Effects of Human Dental Pulp-Derived Stem Cells on T Cells: Comparison of Transwell Co-Culture and Mixed Lymphocyte Reaction. **Cytotherapy**, **13(10):1205-20, 2011.**
- 12) **Karaoz E**, Kabataş S, Ay B, Okçu A, Subaşı C, Duruksu G, Müslüman M, Civelek E. Reduction of Lesion in Injured Rat Spinal Cord and Partial Functional Recovery of Motility after Bone Marrow Derived Mesenchymal Stem Cell Transplantation, **Turkish Neurosurgery**, **22(2):207-17, 2012.**
- 13) Ertas G, Ural E, Ural D, Aksoy A, Kozdag G, Gacar G, **Karaoz E**. Comparative Analysis of Apoptotic Resistance of Mesenchymal Stem Cells Isolated From Human Bone Marrow and Adipose Tissue. **The Scientific World Journal**, **2012:105698, 2012.** (Epub 2012 Apr 24).
- 14) Agacayak S, Gulsun B, Ucan MC, **Karaoz E**, Nergiz Y. Effects of Mesenchymal Stem Cells in Critical Size Bone Defect. **European Review for Medical and Pharmacological Sciences**, **16.679-686, 2012.**
- 15) Yılmaz S, Inandiklioglu N, Yildizdas D, Subasi C, Acikalin A, Kuyucu Y, Bayram İ, Topak A, Tanyeli A, Duruksu G, **Karaoz E**. Mesenchymal stem cell: Does it work in an experimental model with acute respiratory distress syndrome? **Stem Cell Rev and Reports**, **9(1):80-92, 2013.**
- 16) Cakici C, Buyrukcu B, Duruksu G, Haliloglu AH, Aksoy A, Isik A, Uludag O, Ustun H, **Karaoz E**. Recovery of Fertility in Azoospermia Rats After Injection of Adipose Tissue Derived Mesenchymal Stem Cells: Sperm Generation. **BioMed Research International**, **2013;2013:529589. doi: 10.1155/2013/529589. Epub 2013 Feb 18.**
- 17) **Karaoz E**, Okcu A, Ünal ZS, Subasi C, Sağlam O, Duruksu G. Adipose tissue derived mesenchymal stem cells efficiently differentiate into insulin producing cells in pancreatic islet microenvironment both *in vitro* and *in vivo*. **Cytotherapy**, **15.557-570, 2013.**
- 18) **Karaoz E**, Arıkan S, Aksoy A, Ünal ZS, Adas M, Adas G, Duruksu G. Stromal Stem Cells from Parathyroid Glands of Patients With Secondary Hyperparathyroidism Demonstrate Higher Telomerase Activity and Osteogenic Differentiation Ability than

Normal Bone Marrow Derived Stromal Stem Cells. **British Journal of Medicine And Medical Research**, 3(3):634-680, 2013.

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- 23) Adas G, Kemik O, Eryasar B, Okçu A, Adas M, Arikan S, Erman G, Kemik AS, Kamali G, Dogan Y, **Karaoz E**. Treatment of Ischemic Colonic Anastomoses with Systemic Transplanted Bone Marrow Derived Mesenchymal Stem Cells (Experimental Study). **Eur Rev Med Pharmacol Sci**, 2013 Sep;17(17):2275-85.
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- 32) Sariboyacı AE, Demircan PC, Gacar G, Ünal ZS, Erman G, Karaoz E. Immunomodulatory Properties of Rat Pancreatic Islet-Derived Stem Cells Co-Cultured with Spleen T cells: Does It Contribute to the Pathogenesis of Type 1 Diabetes? **Experimental and Clinical Endocrinology & Diabetes**, **122(3):179-89**.
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Oral Presentations (International Congress)

- 1) **Karaöz E**, Patır A, Eker Sarıboyacı A., Okcu A., Köktürk S., Gacar G., Cetinalp P. Demırcan, Kasap M., Seymen F. Characterization and Differentiation of Dental Pulp and PDL Stem Cells. **Continental European Division (CED) of the International Association for Dental Research (IADR) for 4th Meeting of the Pan European Federation in London, 0915(111018), p228, September 10-12, 2008, England.**
- 2) Ozkoc G, Quaedflieg M, **Karaoz E**, Sarıboyacı A, Okçu A, Aksoy A, Ayhan S. *Application of microcompounding in tissue engineering: A new route to prepare scaffolds.* **Interactive Workshop by DSM Xplore and Rheolabo, Tokyo/Japan (2008).**
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- 6) Duruksu G, Aksoy A, Okcu A, Gacar G, **Karaöz E**. Telomerase Activity: Indicator for Stable Transformation Efficiency in Mesenchymal Stem Cells. **5th World Congress on Preventive & Regenerative Medicine, October 5-7, 2010, Hannover, Germany.**
- 7) Selek Ö, Buluç L, Muezzinoglu B, Ayhan S, Ergün RE, **Karaöz E**. Mesenchymal Stem Cell Application in the Late Stage of Achilles Tendon Repair (Animal Study). **8th Biennial ISAKOS 2011 Congress, May 15-19, 2011, Rio De Janeiro, Brazil.**
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- 10) Duruksu G, Kabatas S, Okcu A, Subasi C, Turac G, Yılmaz I, Civelek E, **Karaoz E**. Therapeutic effect of genetically modified mesenchymal stem cells with improved VEGF production on spinal cord injury in rats. **15th European Congress on Biotechnology, September 23-26, 2012, İstanbul, Turkey, New Biotechnology, 29: S16, (2012).**

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- 12) Aktas C, Kenar H, Miro MM, Anschütz D, Löw K, Schütt J, Brück S, Haidar A, **Karaöz E**, Abdul-Khaliq H. Hemocompatible Carbon Based Biosurfaces for Cardiovascular Implants. **46th Annual Meeting of the Association for European Paediatric and Congenital Cardiology, Istanbul May 23 - 26 2012.**
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- 14) **Karaoz E**, Kabatas S, Okcu A, Subasi S, Yilmaz I, Duruksu G. Infiltrated pancreatic islet stem cells in the injured rat spinal cord reduces lesion and functionality recovery. **Tissue Engineering and Regenerative Medicine International Society (TERMIS-EU), June 17-20, 2013, Istanbul, Turkey.**
- 15) Kenar H, Ay B, Kesemenli CC, Hasirci V, **Karaoz E**. Skeletal muscle tissue formation potential of acellular skeletal muscle originated native and semi-synthetic scaffolds loaded with human myoblasts and mesenchymal stem cells. **Tissue Engineering and Regenerative Medicine International Society (TERMIS-EU), June 17-20, 2013, Istanbul, Turkey.**
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INVETED LECTURES

- 1. Karaöz E.** Progress in Stem Cell Research at Kocaeli University. KORANET Nano4Stent Projesi 2. Toplantısı ve “Research for Life-Long Health” Çalıştayı, 14-16 Nisan, 2011, Kocaeli Üniversitesi, KOCAELİ.
- 2. Karaöz E.** Progress in Stem Cell Research at Kocaeli University., KORANET Nano4Stent Projesi 3. Toplantısı ve Çalıştayı, 22-25 Ağustos 2011, Korean University of Technology and Education, Chanon, GÜNEY KORE CUMHURİYETİ
- 3. Karaöz E.** Progress in Stem Cell Research at Kocaeli University. Odense University Hospital, Department of Endocrinology, Molecular Research Lab (KMEB) Meeting. 24 Kasım 2011, Odense, Danimarka.
- 4. Karaöz E.** Anti-apoptotic, anti-inflammatory and immunosuppressive effects of mesenchymal stem cells: novel concept for future therapies”, 1st International Conference/Workshop on Stem Cell Research and Application Conference, 7-9 October 2011, Kayseri.
- 5. Karaöz E.** Progress in Stem Cell Research at Kocaeli University., NewINDIGO HeartSEN Projesi 2. Toplantısı ve Çalıştayı, 11-12 Ocak 2012, Indian Institute of Technology, Chennai/Madras, INDIA/HİNDİSTAN,
- 6. Karaöz E.** Anti-apoptotic, anti-inflammatory and immunosuppressive effects of mesenchymal stem cells: novel concept for future therapies”, Qatar International Conference on Stem Cell Science and Policy 2012, 27 Feb.- 1 March, 2012 Doha-Qatar.
- 7. Karaöz E.** Progress in Stem Cell Research at Kocaeli University., NovoNordisk Projesi 1. Toplantısı ve Çalıştayı, 16 Ocak 2012, KOU-Tıp Fakültesi Dekanlığı, Kocaeli-Türkiye.
- 8. Karaöz E.** Progress in Stem Cell Research at Kocaeli University., NovoNordisk Projesi Kopenhag Üniversitesi 3. Toplantısı ve Çalıştayı, 16 Nisan 2012, KOU-KÖGEM, Kocaeli-Türkiye.
- 9. Karaöz E.** Immunosuppressive Properties of Rat Pancreatic Islet Derived Stem Cells. Islet Society Meeting, Stockholm, Sweden, July 15-16, 2012.

10. **Karaöz E.** Anti-apoptotic, anti-inflammatory and immunosuppressive effects of mesenchymal stem cells: novel concept for future therapies”, International Conference on Regenerative & Functional Medicine, November 12-14, 2012 Hilton San Antonio Airport, San Antonio, USA.
11. **Karaöz E.** Progresses in Stem Cell Research at Kocaeli University, Nanomaterials in Medicine Workshop, January 28-29, 2013, Kocaeli.
12. **Karaöz E.** Mesenchymal Stem Cells. 3rd GENECELL Summerschool (Advanced Stem Cell Technologies and Therapies), 9-15 September 2013, Kocaeli.
13. **Karaöz E.** Immunosuppressive Properties of Stem Cells in the Transplantation Process. III. Bakû International Humanitarian Forum, Roundtable: Achievements in molecular biology and biotechnology: from theory to practice, November 2-3, 2013.
14. **Karaöz E.** Immunoregulatory properties of mesenchymal stem cells. Biological and Clinical Aspects of the Use of Somatic Stem Cells in Regenerative Medicine Wroclaw, 16-17.12.2013, Poland.
15. **Karaöz E.** Immunosuppressive and Anti Apoptotic Properties Of Pancreatic Islet Derived Stem Cells, Frontiers In Medical Sciences: Diabetes, Cancer and Their Connection, July 6-8th 2014, Marmara Convention Center, Maltepe University, Istanbul/Turkey.
16. **Karaöz E.** Immunosuppressive and anti-apoptotic properties of mesenchymal stem cells. Kazakhstan National Medical Research Center, March 3, 2015, Astana-Kazakhstan.
17. **Karaöz E.** Basic Cell Culture Techniques. Kazakhstan National Medical Research Center, March 4, 2015, Astana-Kazakhstan.
18. **Karaöz E.** Progresses in Stem Cell Research and Clinical Application at Liv Hospital, Medical Travel Exhibition and Conference, IEC, 30 September 2015, Kyiv, Ukraine.
19. **Karaöz E.** Stem cells application in neuromuscular diseases at children. VII International Conference of Child Neurologists from Central Asian countries, Astana, Kazakhstan, November, 19-20, 2015.
20. **Karaöz E.** Human Mesenchymal Stromal Cells: Biological Properties and Clinical Application. Regenerative potential of bone marrow derived cells used fresh or propagated in clinical settings, Wroclaw Poland, 14 – 16 December 2015.
21. **Karaöz E.** Human Mesenchymal Stromal Cells: Biological Properties and Clinical Application. 8th Balkans Symposium, 30th January 2016, Belgrad, Serbia.
22. **Karaöz E.** Human Mesenchymal Stromal Cells: Biological Properties and Clinical Application. Tashkent Medical Academia, 5 March 2016, Tashkent, Uzbekistan.
23. **Karaöz E.** Frontiers in Stem Cell Treatment. 3rd Symposium of Regenerative Orthopedics. Stem Cells in Regenerative Orthopedics. 01-02 April 2016, Novi Sad, Serbia.
24. **Karaöz E.** Frontiers in Stem Cell Treatment. Ministry of Health of Turkmenistan, International Scientific Practical Conference, 22 July 2016, Aşgabat, Turkmenistan.

25. **Karaöz E.** Stem Cell Applications on Neuro-Muscular Degenerative Disorders: Bench to Bedside. 6th International Conference for Pain Treatment. Prizren, Republic of Kosova, 28-29 October 2016.
26. **Karaöz E.** Stem Cell Studies in LivMedCell. Health-NCP-Net 2.0&European Enterprise Network. Health European Brokerage Event. Zagreb, Croatia, 19 January 2017.
27. **Karaöz E.** Stem Cell Applications on Neuro-Muscular Degenerative Disorders: Bench to Beside. 2nd International Congress on Stem Cells and Regenerative Medicine, Mashhad, Iran, 19-21 April 2017.
28. **Karaöz E.** Human Mesenchymal Stromal Cells: Biological Properties and Clinical Application. IV. Medical Conference, Becici-Podgorica, 15-17 May 2017, Montenegro.
29. **Karaöz E.** Stem Cell Applications on Neuro-Muscular Degenerative Disorders: Bench to Beside. 15 th International Congress of Histochemistry and Cytochemistry, 18-21 May 2017, Antalya-Turkey.
30. **Karaöz E.** Stem Cell Applications on Neuro-Muscular Degenerative Disorders: Bench to Beside. Igalo Health Institute, 30 June 2017, Igalo-Montenegro.
31. **Karaöz E.** Muscular Dystrophies: How Could Stem Cells Help? 13th International Congress on Stem Cell Biology & Technology, *Milad Tower International Conference Center, August 30-1 September, 2017.*
32. **Karaöz E.** Cellular and Acellular Therapies in Neurodegenerative Diseases. 13th International Congress on Stem Cell Biology & Technology, *Milad Tower International Conference Center, August 30-1 September, 2017.*
33. **Karaöz E.** Human Mesenchymal Stromal Cells: Biological Properties and Clinical Application. Fourth Symposium of Regenerative Medicine 14th to 16th of September 2017, Hotel Hyatt, Belgrade, Serbia.
34. **Karaöz E.** “Stem cell based therapies for neuromuscular degenerative disorders: today and tomorrow”, Tirana University, Faculty of Medicine, 30 November 2017, Tirana, Albania.
35. **Karaöz E.** “Stem Cell Applications on Neuro-Muscular Degenerative Disorders: Bench to Bedside 1st Balkan Health Science Congress, 23 November 2017, Edirne, Turkey