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                                                                               Dept. of Cellular and Molecular Biology

                                                                               Cincinnati  Ohio  USA

**M.D. (1987)**        Ankara Üniversitesi

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**Araştırma İlgi Alanları:**

    Mezenkimal kök hücre biyolojisi,

    Karaciğer Gelişimi, Karaciğer Rejenerasyonu,

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**Ödüller:**

                2010                       Novartis Bilim Ödülü

                2004                       VEHBİ KOÇ Sağlık Ödülü (MBG Bölümüne)

2002                               Scholarship from Frontiers of Reproduction

1996                       Gordon Research Conference Ödülü

                1992-1998           University of Cincinnati Bursu

**Yürütülen/ Bitirilen Araştırma Projeleri:**

1999-2001           TUBİTAK Sağlık Bilimleri Araştırma Projesi (SBAG 2239)

2000-2001           Bilkent Üniversitesi Araştırma Gelişme Fonu Projesi

2002-2003           Bilkent Üniversitesi Araştırma Gelişme Fonu Projesi

2003-2005                  TUBİTAK Temel Bilimler Araştırma Projesi (TBAG 2284)

2004-2006                TUBİTAK Sağlık Bilimleri Araştırma Projesi (SBAG 2735)

2004-2006            Ankara Üniversitesi Bilimsel Araştırma Projesi (Mezenkimal Kök Hücre Çoğaltılması ve ,Deneysel Modellerde Kullanımı)

2006-2009              TUBİTAK Sağlık Bilimleri Araştırma Projesi (SBAG 3200)

           2006-2009           TÜBİTAK “Bilkent initiative in the excellence of cancer research (BEST-CR)

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                2010-2012            TUBİTAK Sağlık Bilimleri Araştırma Projesi (SBAG 110S460)

                2010- 2013            COST BMBS Action TD0901 Araştırma projesi

                2012- 2015            TUBİTAK Sağlık Bilimleri Araştırma Projesi (SBAG 112S238)

**Yayınlar:**

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**5.** Moulton BC, Motz J, Serdoncillo C, **Akcali KC,** Khan SA. (1997) Progesterone withdrawal and RU-486 treatment stimulate apoptosis in specific uterine cells. Cell Death & Differentiation 4: 76-81.

6. Suzuki I, Im S, Tada A, Scott C, **Akcali KC**, Davis MB, Barsh G, Hearing V, Abdel-Malek Z (1999) Participation of the melanocortin-1 receptor in the UV control of pigmentation. J Investig Dermatol Symp Proc. 1999 Sep;4(1):29-34.

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**11.** Ben Hadj K, **Akcali KC**, Ozturk M. (2006) Redundant expression of canonicl Wnt ligands in human breast cancer cell lines. Oncology Reports 15(3):701-708

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**16**. Tokcaer-Keskin Z, Akar AR, Ayaloglu-Butun F, Terzioglu-Kara E, Durdu S, Ozyurda U, Ugur M, **Akcali KC**.(2009) Timing of induction of cardiomyocyte differentiation for in vitro cultured mesenchymal stem cells: a perspective for emergencies.Canadian Journal of Physiology and Pharmacology. 87(2):143-50

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**23**. Bayramoglu G, Gultekin S, Arica Y, **Akcali KC**.(2011) “Preparation and characterization of poly(hydroxyethylmethacrylate-co-poly (ethyleneglycol-methacrylate)/ hydroxypropyl-chitosan hydrogel films: Adhesion of rat mesenchymal stem cells.” Macromolecular Research. Vol. 19, No. 4,385-395.

**24**. Ayaloglu-Butun F, Terzioglu-Kara E, Tokcaer-Keskin Z, **Akcali KC** (2012) “The effect of estrogen on bone marrow-derived rat mesenchymal stem cell maintenance: Inhibiting apoptosis through the expression of Bcl-xL and Bcl-2.” Stem Cell Reviews and Reports 8(2):393-401.

**25***.* Durdu S, Deniz GC, Balci D, Zaim C, Dogan A, Can A, **Akcali KC**, Akar AR (2012) “Apoptotic Vascular Smooth Muscle Cell Depletion via BCL2 Family of Proteins in Human Ascending Aortic Aneurysm and Dissection.” Cardiovasc Ther 30(6):308-16.

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**27.** Bitirim VC, Kucukayan G, Bengu E, **Akcali KC** (2013) “Patterned carbon nanotubes as a new three-dimensional scaffold for mesenchymal stem cells.” Materials Science and Engineering C 33:3054-60

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2. Abdel-Malek Z., Suzuki I, Tada A., Im S., **Akcali KC.** (1999) The Melanocortin-1 Receptor and Human Pigmentation Cutaneous Neuroimmunomodulation: The Proopiomelanocortin System. Annals of the New York Academy of Sciences. Edits: Luger TA, Paus R, Lipton JM, Slominski AT. Vol: 885: 117-133.

3. Tokcaer-Keskin Z., Kocak H, Gursel I., **Akcali KC.** (2012) “Mesenchymal Stem Cells: Possibilities of New Treatment Options” in Adult and Embryonic Stem Cells, edited by K. Turksen, Humana Press, 59-68.

**Conference Proceedings:**

1. Nephew KP. **Akcali KC,** Polek TC, Khan SA. (1993) The antiestrogen tamoxifen highly induces c-fos and jun-B but not c-jun or jun-D protooncogenes in the rat uterus. Biol. Reprod. 48 (Suppl.1):406

2. Nephew KP, Polek T, **Akcali KC,** Khan SA. (1993) Induction of immediate early genes by estrogen and antiestrogens in the rat uterus. Gordon Conference on the Female Reproductive Tract. Plymouth, New Hampshire

3. Abdel-Malek Z, **Akcali KC,** Swope V (1993) α-melanocyte stimulating hormone and ACTH are mitogenic and melagenic for normal human melanocyte *in vitro.* XV th International Pigment Cell Research.

4. **Akcali KC,** Motz J, Khan SA, Moulton BC (1995) Tissue specific expression of Bcl-2 family accompanies decidualization of rat uterine endometrium. 35th Annual Meeting of the *American Society for Cell Biology* Washington, DC.

5. **Akcali KC,** Khan SA, Moulton BC. (1996) The expression of regulators of apoptosis, Bax, Bcl-2 and Bcl-xL during decidualization in the rat uterine endometrium. Gordon conference on the Female Reproductive Tract. Plymouth, New Hampshire.

6. **Akcali KC,** Walters CA, Moulton BC, Khan SA. (1997) Involvement of Bcl-2 family genes and Hsp-25 during decidualization. *79th Annual meeting of the Endocrine Society,* Minneapolis, Minnesota.

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8. **Akcali KC**., Khan SA. The Involvement of Apoptotic Regulators During *in vitro* decidualization. (2002) Immune Mechanisms in Pregnancy. *Frontiers in Reproduction 5th Annual Symposium*. Boston, Massachusetts.

9**. Akcali KC**, Dalgic A, Ucar A, Ben-Hadj K. (2003) Quantitative changes of Bcl-2 family of genes during liver regeneration. *38th Annual Meeting of the European Association for the Study of the Liver*. Genova, Switzerland. Journal of Hepatology, Vol. 38 (S2) (2003) pp. 87-88

10. **Akcali KC**, Gibori G, Khan SA (2003) The involvement of apoptotic regulators during in vitro decidualization. *36th Annual Meeting of the Society for the Study of Reproduction.* Cincinnati, Ohio

11. **Akcali KC**, Sahiner MA, Sahiner T. (2004) The Role of Bcl-2 family of genes during murine model of epileptogenesis, kindling. in the *Proceedings of 58th Annual Meeting of The American Epilepsy Society*,New Orleans, Louisiana, USA, 3 - 7 December 2004 Epilepsia 45(S7): 13

12. **Akçalı KC**, M Uğur, S Durdu, F Ayaloğlu, E Özçınar, E Terzioğlu, AR

Akar, Ü Özyurda. “Shortening the isolation time of bone marrow-derived mesencyhmal stem cells prior to cardiomyocyte differentiation” in the Proceedings of the Keystone Conference on Stem cells, Senescence and Cancer p.44 Singapore, 25-30 October 2005.

13. K BenHaj, B Gur, B Bozkurt, I Yulug, **Akcali KC**, M Ozturk “Expression profiling of Wnt pathway genes in breast cancer” The Third International Symposium on the Molecular Biology of Breast Cancer Norway, 22–26 June 2005 Breast Cancer Research 2005, 7(Suppl 2):P4.18

14. R Akar, **Akçalı KC**, S Durdu, IT Aydın, F Çivril, R Taşöz, B Kaya, Ü Özyurda. “Tip-a aortik disseksiyonlu hastaların damar düz kas hücrelerinde apoptozu regüle edici proteinlerin rolü.” XII Ulusal Vasküler Cerrahi Kongresi , Antalya, 18-22 May 2005

15. Y Eraç, B Kosova, **Akçalı KC**, M Tosun. “Torasik aortunda TRPC genlerinin ayrımsal ekspresyonu” 18. Ulusal Farmakoloji Kongresi İzmir, 28-30 Eylül 2005.

16. E. Terzioglu, F. Ayaloglu F, **KC. Akcali**. “Effect of estrogen on apoptotic regulatory mechanisms in mesencyhmal stem cell maintenance” in the Proceedings of the 31st FEBS Congress, 127, Istanbul, Turkey 24-29 June 2006. FEBS Journal Vol: 273 supplement 1, June 2006 page 127.

17. F. Ayaloğlu, E. Terzioglu, M. Ugur, S. Durdu, E. Ozcinar, A.R. Akar, U. Ozyurda, **K.C. Akcali**. “Differentiation of mesencyhmal stem cells to functional cardiomyocytes in shorter time” in the Proceedings of the 31st FEBS Congress, 129, Istanbul, Turkey 24-29 June 2006. FEBS Journal Vol: 273 supplement 1, June 2006 page 129.

18. Y. Erac, C. Selli C, B. Kosova , **K.C. Akcali**, M. Tosun.” Expressional and functional profile of TRPC gene family in aging rat aorta” in the Proceedings of the 31st FEBS Congress, 108, Istanbul, Turkey 24-29 June 2006. FEBS Journal Vol: 273 supplement 1, June 2006 page 108.

19. N. Ozturk, E. Erdal, M. Mumcuoglu, **K.C. Akcali**, O. Yalcin, S. Senturk, A. Arslan-Ergul, M. Tez, M. Ozturk “Induction of replicative senescence in hepatocellular carcinoma cells” in the Proceedings of the 31st FEBS Congress, 224, Istanbul, Turkey 24-29 June 2006. FEBS Journal Vol: 273 supplement 1, June 2006 page 224.

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21. Y. Erac, C. Selli, B. Kosova, **K.C. Akcali**, M. Tosun, “Differential Expression of TRPC Gene Family in Aging Rat Aorta” in the proceedings of the The Biochemical Society's Focused Meeting on Cell and Molecular Biology of TRP channels, Sept. 7-8 2006, University of Bath, Bath, UK.

22.Ayaloğlu F., Terzioğlu E, Tokcaer Keskin Z., **Akçalı KC.** “Effect of Estrogen on Mesenchymal Stem Cell Apoptotic Pathway.” Hydra III: European Summer School. Hydra Greece 14-21 September 2007

23. Tokcaer Keskin Z., Ayaloğlu F., **Akçalı KC.** “Effect of Estrogen on the Cell Cycle Regulators in Mesenchymal Stem Cells.” Hydra III: European Summer School. Hydra Greece 14-21 September 2007

24. Koçak H., **Akçalı KC**, Gursel I. “The Role of TLR Expression in Mouse Mesenchymal Stem Cells: Potential Mechanism of Immunomodulation”. BIOMED 2007. İstanbul, Turkey 26-28 August 2007

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26. **Akcali KC**, Ayaloglu F, Tokcaer-Keskin Z. “Role of Estrogen in Mesenchymal Stem Cell Biology” in the Proceedings of the 6th ISSCR Annual Meeting, 208-209, Philadelphia, PA, USA. 11-14 June, 2008.

27. Selli Ç, Eraç E, Kosova B, **Akcalı KC,** Tosun M.” Gen Susturma ile TRPC Gen Ekspresyonu ve İşlevi Arasındaki İlişkinin Araştırılması” XX. in the Proceedings of the Ulusal Biyokimya Kongresi, Turkish Journal of Biochemistry, Kapadokya 29 Ekim-1 Kasım 2008

28. Tokcaer-Keskin Z, Dikmen ZG, Gryaznov S, **Akcali KC**. (2009) The in vitro effects of telomerasse inhibition on bone marrow derived rat mesenchymal stem cell. 7th ISSCR Annual Meeting, (8-11 July, 2009), Barcelona, Spain.

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31. BayınNS, Tokcaer-Keskin Z, Acun T, Yakicier C, **Akcali KC**. (2010) Flt3 may function as a link between liver regeneration and hepatocellular carcinogenesis EASL Monothematic Conference: Signaling in the liver, Amsterdam, The Netherlands, February 18 - February 20, 2010.

32. Tas IF, Ayhan F, Gursel M, **Akcali KC**, Gursel I (2010) TLR Ligands Facilitate Rapid Differentiation of Murine MSC into Adipocytes and Osteocytes.” EMBL Conference: Stem Cells, Tissue Homeostasis and Cancer, Heilderberg, Germany, (May 12 – 15 2010)

33. Kucukayan G, Bitirim VC, **Akcali KC**, Tuncel D, Bengu E. (2010) The Effect of Patterned and Functionalized Vertically Aligned Carbon Nanotube Arrays on the Growth and Differentiation Potential of Mesenchymal Stem Cells.” Nanotec10, Oxford, UK, (September 1-4, 2010)

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**Davetli konuşmalar:**

1. The role of apoptosis during pregnancy in rats Methods for the Analysis of Animal Development, University of Sheffield, England, 28 July 1999.)
2. The involvement of apoptotic regulators in pregnancy Bogazici University, Istanbul, 28 April 2000.
3. Tumor models, carcinogenesis” I. National Experimental Surgery Congress, Ankara, 6 January 2002.
4. Apoptosis: A gift from basic science to clinical science, Cukurova University, Adana. 20 December 2002.
5. Use of Experimental Animals in Cancer Research, Ege University, Izmir. 10 May 2003.
6. Apoptosis and Immune System, Selcuk University, Konya, 5 September 2003.
7. Apoptosis and Cancer, Hematoloji Dernegi, Antalya, 21 March 2003,
8. Stem Cells: From Science Fiction to Reality, Cukurova University, Adana, 28 January 2005.
9. Experimental Adult Stem Cell Studies at Bilkent University Current Perspectives on Stem Cell Biology and Challenges in Clinical Applications. Türkiye Bilimler Akademisi, TÜBA –Istanbul, 27 September 2005.
10. Applications of Molecular Biology in Life, Yeditepe University, İstanbul, 24 November 2006.
11. The Role of Estrogen in Mesenchymal Stem Cell Biology: Possible Mechanisms, Current Perspectives on Stem Cell Biology and Challenges in Clinical Implications Symposium. Türkiye Bilimler Akademisi, TÜBA –İstanbul, 7 September 2006.
12. The Role of Estrogen in Adult Stem Cell Biology, Frontiers in Reproduction Ninth Annual Symposium, Woods Hole, MA, USA, 17 June 2006
13. Importance of Immune-affinity Techniques in the Isolation of Stem Cells, II. National Affinity Techniques Congress, Zonguldak, 7 June 2006.
14. Isolation, Expansion and Differentiation of Mesenchymal Stem Cells, 5th Ankara Biotechnology Days- Stem Cell Technologies: From Laboratories to Clinics, Ankara, 16 November 2006.
15. Introduction to Molecular Genetics: Basic Mechanisms, Ankara University Medical School, Ankara, 11 January 2007.
16. Effects of Hormones on Mesenchymal Stem Cell Biology, Ankara University Medical School, Ankara, 9 May 2007.
17. Stem Cells: Evaluation for Clinicians, Rheumatology Days, Ankara, 23 November 2007,
18. Apoptosis and Cancer, II. National Oncology Congress, Antalya, 26 March 2008.
19. Science Fiction or Reality: Mesenchymal Stem Cells in Medicine NATO-ICGEB, Istanbul 12 May 2008.
20. Liver Regeneration: Hepatocyte, Progenitor Cell and Stem Cell 25th National Gastroenterology Congress, Adana, 12 November 2008
21. Hedefe Yönelik İlaç Keşfi: Kanıltek 18th National Oncology Congress, Antalya, 24 April 2009. (Invited Talk)
22. Mezenkimal kök hücre çoğalması, farklılaşması ve hasarlı dokuya ulaşmasına etki eden faktörler. TÜBA Current Perspectives on Stem Cell Biology and Challenges in Clinical Implications, IV.KÖK HÜCRE SEMPOZYUMU. Ankara 27/June/2009.
23. Prognoz ve metastaz oluşumunda epitel-mezenkimal geçiş (EMT) belirteçlerinin karşılaştırılmalı analizi.” 5th Turkish Oncology Workshop, 12-15 November 2009, Antalya.
24. Application of biomaterials in stem cell research, **Winter School** on Frontiers in **Nanomedicine and Nanobiotechnology. January 10-13 2010, Ankara Turkey.**
25. Mezenkimal Kök Hücreler ile İmmün Sistem Etkileşimleri: Yeni Tedavi İmkanları, TÜBA Current Perspectives on Stem Cell Biology and Challenges in Clinical Implications, V.KÖK HÜCRE SEMPOZYUMU. Ankara 26 June 2010.
26. Mezenkimal kök hücrelerle yeni tedavi olanakları, 1. Uluslararası Kök Hücre Sempozyumu. 29 Eylül- 1 Ekim 2010. Samsun
27. Mezenkimal Kök Hücreler ve Nanobiyoteknoloji, NanoTıp Günleri, Acıbadem Üniversitesi, December 13 2010, Istanbul, Turkey.
28. Combination of Mesenchymal Stem Cells with Nano-Biomaterials: New Opportunities for Regenerative Medicine. BIOMED 2011, Ankara, Turkey.
29. Mezenkimal Kök Hücreler: Arastirmalarin Klinige Uygulanmasi, 8 Nisan 2012 Bogazici Universitesi, İstanbul.
30. Mesenchymal Stem Cells: Possibilities of New Therapy Options, 30 October 2012 Middle East Technical University, Ankara.
31. IPS Hücreler, 24 Mayıs 2013, Ege Üniversitesi, 2nd International Students' Stem Cell Congress, İzmir.
32. Yara Tedavisinde Futuristik Yaklaşımlat: IPS Hücreler, 5 Aralık 2015, 10. UlusalYara BAkım Kongresi, Antalya.

**Master and PhD Danışmanlığı:**

Ahmet Uçar, MSc, “The expression of Bcl-2 family genes during rat liver generation”, graduated 2001

Iraz Toprak Aydin, MSc, “ The role of flt3 gene during liver regeneration”, graduated 2005

Ece Terzioğlu, MSc, “Effect of estrogen on apoptotic regulatory mechanisms in mesenchymal stem cell maintenance”, graduated 2006

Khemeais Ben-Hadj, PhD, “Wnt- beta catenin signaling pathway activation in epithelial cancers”, graduated 2006

Hande Koçak, MSc, “Liver regeneration: Potential roles of mesenchymal stem cells and toll-like receptors”, graduated 2008

Sinan Gültekin, MSc, “Hypoxic responses of mesenchymal stem cells”, graduated 2009.

Sumru Bayın, MSc, “The role of FLT3 in hepatocellular carcinogenesis”, graduated 2010.

Zeynep Tokcaer-Keskin, PhD, “Contribution of mesenchymal stem cells in cell based therapies”, graduated 2010.

Fatma Ayaloğlu-Bütün, PhD, “Role of estrogen in mesenchymal stem cell proliferation and expansion”, graduated 2011.

Damla Gozen, MSc, “Attachment of cancer cell lines to Carbon Nano Tubes for diagnostic purposes” graduated 2013.

Verda C. Bitirim, PhD, “Estrogen`s effect on the epigenetic alterations in mesenchymal stem cells”, graduated 2013.

Merve Aydin, PhD, “Role of mesenchymal stem cells during liver fibrosis”, graduated 2015.

Ece Akhan, PhD, “Use of nanopolymers to track mesenchymal stem cells”, graduated2015.

**Hakemlik:**

* Journal of Cellular Physiology
* Journal of Gastroenterology and Hepatology
* Liver International
* Molecular Biology Reports
* World Journal of Stem Cells
* Turkish Journal of Medical Sciences

**Üyelikler**:

* International Society for Stem Cell Research
* European Association of Liver Studies
* Turkish society of Molecular Biology