

CURRICULUM VITAE AND PUBLICATIONS LIST

Name and surname: Sibel AKYOL

Education status: Assoc. Prof.

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WORK EXPERIENCE

Job Title	Instutions	Years
Proficient	University of Istanbul, Cerrahpasa Medical Faculty Department of Physiology	1993-2003
Researcher Dr.	University of Istanbul, Cerrahpasa Medical Faculty Department of Physiology	2003-2004
Visitor Researcher Dr.	University of Louisville, Department of Obstetrics, Gynecology & Immunology	2004-2006
Researcher Dr. and Director of the Immunology Research Laboratory	University of Istanbul, Cerrahpasa Medical Faculty Department of Physiology	2007-2014
Associated Professor Dr. and Director of the Immunology Research Laboratory	University of Istanbul, Cerrahpasa Medical Faculty Department of Physiology	25.12.2014
Visitor Professor	The University of Technology Sydney, Faculty of Science, NSW Australia	09.2016- 01.2017
Researcher Professor	The University of Technology Sydney, Faculty of Science, NSW Australia	10.2017- 02.2018

Membership in scientific organizations:

- 1- American Society for Reproductive Immunology(ASRI)
- 2- The Australasian Society for Immunology(ASI)
- 3- Turkish Society of Physiological Sciences

Awards :

- 1- 14 th Turkish Society of Physiological Sciences in 1996, Second Prize in the Young Researchers)
- 2- The Society for Free Radical Research in 1999, First Prize in the Young Researchers (Between 120 researches).
- 3- 38 th National Congress of Physiological Sciences in 2012, Second Prize in the Young Researchers (Between 196 researches).
- 4- National BSE-Science-Art Awards, University of Istanbul Scientific Research Award 2016

International publications:

- A1. Akyol S, Taylor GC, Reynolds LC , Taylor DD.** HSP-10' in ovarian cancer: Expression and suppression of T-cell signaling. *Gynecol Oncol.* 101(3):481-486, 2006 JUN. doi:10.1016/j.ygyno.2005.11.014.ISSN: 0090-8258
- A2. Taylor DD, Akyol S, Taylor GC.** Pregnancy-associated exosomes and their modulation of Tcell signaling. *J Immunol.*176 (3):1534 -1542,February 1, 2006.doi: 10.4049/jimmunol.176.3.1534
- A3. Akyol S, Eraslan BS, Etyemez H, Tanriverdi T, Hancı M.**Catabolic cytokine expressions in patients with degenerative disc disease. *Turk Neurosurg.* 20(4): 492-499, Oct. 2010. doi: 10.5137/1019-5149.JTN.3394-10.1.

- A4. Akyol S, Cınar SA, Purisa S, Aydınlı K.** Relationship between lymphocytes, IL-2 and the hormones E2, LH, PRG and FSH in menopausal and postmenopausal Women. *Am J Reprod Immunol.* 66(4): 304–309, 2011.
- A5. Türeci E, Kızılkılıç O, Akyol S, Pekel F, Tanrıverdi T, Hancı M, Bahar M.** The effects of analgesia-sedation on the immune system before and after cerebral digital subtraction angiography. *Turk Neurosurg.* 21(3):340-346, 2011.
- A6. Akyol S, Tanrıverdi T, Hancı M.** Do immunologic events in degenerative disc tissue alter the peripheral immune tolerance? *World Spinal Column Journal.* WSCJ 3(2):45-49, 2012.
- A7. Akyol S, Hancı M.** TH1 and TH2 cytokines production and NK Cell level assessment in peripheral blood of patients with DDH. *Indian J Surg.* July–August 2013, 75(4):294–297 DOI 10.1007/s12262-012-0488-6 (Print ISSN0972-2068).
- A8. Akyol S, Hancı M.** What is the role of the CD4+CD25+Foxp3+ Tregs and IL-17 cytokine in patient with degenerative disc herniation (DDH)? *Turkish journal of physical medicine and rehabilitation.* Vol.59, Issue.11. DOI 10.4274/tftr.04382. ISSN: 1302- 0234, 24. Jan. 2012.
- A9. Akyol S, Türeci E, Tanrıverdi T, Hancı M.** How analgesia-sedation alters monocyte mCD14 and HLA-DR levels in patients undergoing cerebral angiography? *Turkish Neurosurgery.* May 2013, Vol: 23, No: 6, 791-795. DOI: 10.5137/1019-5149.JTN.8218-13.0
- A10. Akyol S, Tanrıverdi T, Hancı M.** Do Co-stimulator Pathways Change in Degenerative Disc Disease? *Neurosurgery Quarterly .* Vol.24 (1), pp.75-80 doi:10.1097/WNQ.0b013e318275de31, February 2014 .

- A11. Akyol S, Hancı M.** Comparative analysis of complement components and immunoglobulins in female and male patients with degenerative dischernia. WScJ 3: 100-106, 2015 (World Spinal Column Journal, Volume 6 / No: 3 / September 2015)
- A12. Yüksel EC, Iskeleli G, Talaz S, Akyol S.** Comparative analysis of tear film levels of inflammatory mediators in contact lens users. *Curr Eye Res.* 2016 Apr;41(4):441-7. doi: 10.3109/02713683.2015.1037001.
- A13. Akyol S, Bozkuş H, Adın CS, Hancı M.** Which is better Stainless Steel or Titanium alloy? *Turk Neurosurg.* 2017 Jun 14. doi: 10.5137/1019-5149.JTN.19061-17.1
- A14. Karacan I, Gunduz O, Ozyegin LS., Gökce H., Ben-Nissan B., Akyol S., Oktar FN.** "The Natural Nano-Bioceramic Powders Production from Organ Pipe Red Coral (*Tubipora musica*) by a Simple Chemical Conversion Method", *Journal of the Australian Ceramic Society* June 2018, Volume 54, Issue 2, pp 317–329 DOI: <https://doi.org/10.1007/s41779-017-0156-1>
- A15. Ozbek B., Erdogan B., Ekren N., Oktar FN., Akyol S., Ben-Nissan B., Turkoglu Sasmazel H., Kalkandelen C., Mergen A., Kuruca SE., Ozen G., Gunduz O.** "Production of the novel fibrous structure of poly (ϵ -caprolactone)/tricalcium phosphate/hexagonal boron nitride composites for bone tissue engineering *Journal of the Australian Ceramic Society*, June 2018, Volume 54, Issue 2, pp 251–260 DOI: <https://doi.org/10.1007/s41779-017-0149-0>
- A16. Kalkandelen C, Ozbek B., Ergul N M, Akyol S, Moukbil Y, Oktar FN., Ekren N., Kılıc O, Kılıc B, Gunduz O.** Effect of temperature, viscosity and surface tension on gelatine structures produced by modified 3D printer . *IOP Conf.*

Series: Materials Science and Engineering 293 (2017) 012001 doi:10.1088/1757-899X/293/1/012001

A17. Ince E., Curabeyoğlu FA., Akyol S. Oxidative Stress in Lymphoid Tissues and Complement Activation in Alcoholic Mother Rats and Their Newborns. *General Physiology and Biophysics*. Accepted 2018 May 2018, DOI. 10.4149/gpb_2018018

A18. Altun E, Akyol S, Ekren N, Kilic O, Gunduz O. “Electrohydrodynamic (EHD) Bioprinting of Polycaprolactone Scaffolds”, *Materials Science Forum* ISSN: 1662-9752, Vol. 923, pp 93-97 doi:10.4028/www.scientific.net/MSF.923.93 © 2018 Trans Tech Publications, Switzerland Submitted: 2017-11-26 Accepted: 2017-12-04 Online: 2018-05-21

A19. Akyol S., Ben Nissan B., Karacan I., Yetmez M., Gokce H., Suggett D.J., Oktar F.N. Morphology, Characterisation and Conversion of the corals *Goniopora* spp. and *Porites cylindrica* to Hydroxyapatite. *Journal of the Australian Ceramic Society* <https://doi.org/10.1007/s41779-018-00304-4>

A20. Akyol S., Akgun Y., Hanci M., Oktar FN., Ben-Nissan B. Reciprocal analysis of NF- κ B profiles after implantation of Titanium alloy and Stainless steel and the role of Regulatory T cells. *Journal of Materials Science: Materials in Medicine (GONDERILDI)*

A21. Aksu U., Yaman O. M., Guner I., Guntas G., Sonmez OF., Tanriverdi G., Eser M., Cakiris A., Akyol S., Seckin I., Uzun H., Yelmen N., Sahin G. Thymosin- β -4 protects against acute kidney injury in rat by mediating tissue

remodelling and suppressing apoptosis. Archives Of Physiology And Biochemistry. (GONDERILDI)

B. Papers Presented and published in international scientific meetings:

B1. Şimşek G, Akyol S, Yigit G. Investigation of the relationship between iron deficiency and blood cell volume distribution in pregnant women. XIII th Meeting of the International Society of Haematology (European&African Division) Turkish J. Haematology, Vol.14 Supplement 1, September 1995.

B2.Polat E, Akyol S.The chemical and microbiological examination of water samples taken from the place that was contaminated with various wastes in Küçükçekmece Lake. Türk Devletleri arasında 2. İلمي İşbirliđi Konferansı, Çevre 93, Tebliđler Kitabı, sayfa 349-352, Alma-Ata , Kazakistan, 26-29 Haziran1993

B3. Akyol S, Yigit G, KahramanI.The study of neutrophil phagocytic activity related to iron status in pregnancy. 3 rd Balkan Congress of Immunology.Programme and book abstracts. Page:100, October 30-November 1,2001 Athens, Greece

B4.Akyol S, Tunalı H, Ilter Ö, Kiran B. Complement system activation in pregnant rats treated with ethanol in high doses and their offspring. 3 rd Balkan Congress of Immunology.Programme and book abstracts. Page: 100, October 30-November 1,2001 Athens, Greece

B5. Akyol S, G. Taylor C, Taylor DD. Modulation of T cell signaling in ovarian cancer by HSP- 10. October 31- Nov 4, 2005. Research! Louisville 2005

B6. Akyol S, G. Taylor C, Taylor DD. Pregnancy mediated alterations in Natural Killer signalling pathways. American Society Reproductive Immunology25th Anniversary Meeting providence. American Journal of

Reproductive Immunology (AJRI).Vol:53, Number. 6, Page 282, June 16-18, 2005
Rhode Island

B7. Akyol S, Şahmay S, Dirican A. Peripheral immune profiles during menstrual cycles. 1 st World Congress for Sexual Health. The 18th Congress of the World Association for Sexual Health. Book of abstracts, page: 163, April 15-19, 2007 Sydney, Australia

B8. Akyol S, Purisa S, Adın Cınar S, Şahmay S, Yigit G. Comparative analysis of T lymphocyte activation and NK cells during menstrual cycle phases and early pregnancy. 28th Annual Meeting at Congress American Society for Reproductive Immunology. American Journal of Reproductive Immunology (AJRI). 59; 504, June 11-14, 2008 Chicago, IL, USA.

B9. Akyol S, Adın Çınar S, Purisa S, Karataş K, Aydın K. The relationship between lymphocyte subgroups and hormones during adolescent, menopausal and post-menopausal periods. 28th Annual Meeting at Congress American Society for Reproductive Immunology. American Journal of Reproductive Immunology (AJRI). 59; 504-505, June 11-14, 2008 Chicago, IL, USA

B10. Akyol S, Purisa S, Aydın K. NK, Lymphocyte and cytokine levels in alcohol fed pregnant rats. The American Society for Reproductive Immunology 29th Annual Meeting. American Journal of Reproductive Immunology (AJRI). Vol. 61, Number; 6, page; 397. June 5 - 9, 2009 Orlando, FL, USA.

B11. Akyol S, Purisa S. Influence of alcohol consumption during pregnancy on TH1 (TNF- α , IL-2, IFN- γ) and TH2 (IL-4, IL-10) levels in neonatal and juvenile rats. The American Society for Reproductive Immunology 30th Annual Meeting. American Journal of Reproductive Immunology (AJRI). Vol:63, Supplement 1, Page ;29, 17-20 May 2010 Pennsylvania PA, USA.

B12. Talaz S, İskeleli G, Akyol S. Comparative analysis of tear film inflammatory cytokines among hydrogel, silicone hydrogel and rigid gas permeable contact lens users. 40th ECLSO-European Contact Lens Society of Ophthalmologists (September 10th to 11 th, 2010, pp.3-3) Congress in Warsaw, Poland.

B13. Akyol S, Aydınli K. Relationships between cytokines and hormones during pregnancy and postpartum. The American Society for Reproductive Immunology 31 th Annual Meeting. American Journal of Reproductive Immunology (AJRI). Vol. 65, Supplement: 1 , page. 40-41. May 19 - 21, 2011 Salt Lake City, Utah, USA.

B14. Akyol S, İnce E, Ulutin T, Tunali H. Complement system activation and antioxidant system changes in pregnant rats' offspring treated with gavage ethanol. FEPS and Turkish Physiological Society Scientific congress 2011, PC(304), September 3-7, 2011, İstanbul

B15. Akyol S, Aydınli K. Changes of progesterone and the multifarious role of IL-10 during pregnancy and early postpartum. FEPS and Turkish Physiological Society Scientific congress 2011, PC(196), September 3-7, 2011, İstanbul

B16. Akyol S, Hancı M. IL-12 and IFN- γ production and NK cell level comparative assessment in ischemia tissues and Peripheral blood. FEPS and Turkish Physiological Society Scientific Congress 2011, PC(317), September 3-7, 2011, İstanbul

B17. Akyol S, Karataş K. The relationship between amniotic fluid and serum cytokines levels with CD146 in women with preterm labor risk. The American

Society for Reproductive Immunology 2012. Volume 94, Issue 1 , Pages 115-116, May 2012

(Joint International Congress of the American Society for Reproductive Immunology (ASRI) and the European Society for Reproductive Immunology (ESRI) Hamburg/Germany on 31 May - 2 June 2012.)

B18. Akyol S, Ince E, Ulutin T, Tunalı H. Changing of alcohol-induced oxidative stress and cytokine levels in alcoholic pregnant rats and their offspring. American Journal of Reproductive Immunology Vol 67(2), 1–157, 2012. (Joint International Congress of the American Society for Reproductive Immunology (ASRI) and the European Society for Reproductive Immunology (ESRI) Hamburg/Germany on 31 May - 2 June 2012.)

B19. Matur E, Dariyerli N, Akyol S, Toplan S, Özdemir S. Examination of changes in the immune system in rats exposed to different doses of lithium for a long-term period. The FASEB Journal (Federation of American Societies for Experimental Biology. Vol. 28 no. 1 Supplement 876, 4. (26-30 April, 2014. San Diego, USA)

B20. Akyol S, Aydinli K. Comparative analysis of Th1, Th2 and Th17 cytokine levels in postmenopausal women. The American Society for Reproductive Immunology. Volume 71, suppl 1, page 31-31. (2-5 June, 2014, (34th Annual Meeting of the ASRI, Long Beach, NY).

B21. Akyol S, Karataş K, Tunalı H. Relationship of iron supplementation during pregnancy with the opsonization and complement components. The American Society for Reproductive Immunology. Volume 71, suppl 1, page 31, 2-5 June, 2014 (34th Annual Meeting of the ASRI, Long Beach, NY).

B22. Dariyerli N, Akyol S. Relationships among complement components, immunoglobulins and progesterone in the first trimester pregnancy. 1st PanAmerican Congress of Physiological Sciences, Iguassu Falls, Brazil, August 2-6, 2014.

B23. Akyol S, Karataş K. Is there an effect of the mode of delivery on the immune system of the mother and baby? The American Society for Reproductive Immunology. Volume 73, suppl S2, page 72.(G69) (2-5 June 2015, 35th Annual Meeting of the ASRI, Kingstom, ON, Canada.)

B24. Akyol S, Gezer M. Early immune responses in Type 1 female genital mutilation (FGM). The American Society for Reproductive Immunology. Volume 73, suppl S2, page 71.(G68) (2-5 June 2015, 35 th Annual Meeting of the ASRI, Kingstom, ON, Canada.)

B25. Akyol S, Hancı M. The Relationship between NKG2D-Ligand and anesthesia before and after digital subtraction angiography. Surgery Curr Res 2015, Volume:5, Issue; 7, page. 60, ISSN:2161 1076, Doi:<http://dx.doi.org/10.4172/2161-1076.C1.020>(Oral)

(4th International Conference and Exhibition on Surgery. October 05-07, 2015 Crowne Plaza, Dubai, UAE)

B26. Akyol S, Bozkus H, Hancı M. Immunologic round: titanium versus stainless steel. Surgery Curr Res 2015, Volume:5, Issue; 7, page. 89, ISSN:2161-1076, Doi: <http://dx.doi.org/10.4172/2161-1076.C1.020>(4th International Conference and Exhibition on Surgery. October 05-07, 2015 Crowne Plaza, Dubai, UAE)

B27. Akyol S, Hancı M. Comparative analysis of Toll Like Receptor (TLR-4) profiles following subcutaneous implantation of titanium and stainless steel in

rat. 'SANKO University Innovation in Medicine Summit and biosciences -2', 5-7 May 2016, Gaziantep

B28. Oruç A, Akyol S, Tunalı H. The interaction of alcohol with maternal Th1/Th2 during pregnancy. 'SANKO University Innovation in Medicine Summit- and biosciences 2', 5-7 May 2016, Gaziantep

B29. Akyol S. Synthesis and Characterization of Natural Hydroxyapatite Production from "Horse Mackerel" (Trachurus mediterraneus) Fish Bones. Bioceramics 29 - 29th Symposium and Annual Meeting of ISCM. the 29th Symposium and Annual Meeting of ISCM, October 25th -27th, 2017, Toulouse , France

B30. Altun E, Akyol S, Ekren N, Kilic O, Gunduz O. "Electrohydrodynamic (EHD) Bioprinting of Polycaprolactone Scaffolds", ICFCM 2017 2017 2nd International Conference on Frontiers of Composite Materials Melbourne, Australia , November 15-17, 2017, Melbourne, Australia.(oral)

B31. Mekki EN, Burak O, Dilek O, Ekren N, Oktar FN, Akyol S, Gunduz O. Preparation, Characterization and Properties of Melatonin-loaded Polycaprolactone Microspheres as a Drug Delivery System. International meeting on education & research in health sciences 3-5.November.2017 Marmara University Sultanahmet Campus, 5.11.2017(oral)

B32. Akyol S., Ince E., Curabeyoglu FA. The effect of iron supplementation on hematological blood parameters in pregnancy.
(Gebelikte demir suplemantasyonunun hematolojik kan parametreleri üzerine etkisi.) 10-11 Mayıs/May 2018 saat/time: 14.00 – 15.45 yer/place: ana salon / hall.

Uluslararası Bilimsel Arařtırmalar Kongresi/ International Scientific Researches Congress (09 – 13 Mayıs 2018 / Mardin)(Poster)

B33. Akyol S, Hancı M. The interaction between NK cell, NKG2D and the key regulator cytokines after titanium implantation. Tarih/Date: 10 Mayıs/ May 2018. Saat/Time: 14.00 – 15.30 Yer/Place: Kudüs Salonu / Kudüs hall. Uluslararası Bilimsel Arařtırmalar Kongresi/ International Scientific Researches Congress (09 – 13 Mayıs 2018 / Mardin)(oral)

B34. Ince E., Akyol S., Curabeyoglu FA. Protective effect of quercetin against alcohol induced liver and lymphoid tissue injury in mice with chronic alcohol consumption. Tarih/Date: 10 Mayıs/ May 2018 Saat/Time: 14.00 – 15.30 Yer/Place: Kudüs Salonu / Kudüs hall. Uluslararası Bilimsel Arařtırmalar Kongresi/ International Scientific Researches Congress (09 – 13 May 2018 / Mardin) (oral)

B34. Akyol S., Ben-Nissan B. Anaphylatoxin responses after Ti and Ti 500 alloy implantation. V. International Multidisciplinary congress of Euroasia. July 24-26, 2018 Barcelona &Spain (Ti ve Ti 500 alloy implantasyonu sonrası anafilotoksin yanıtları.) (oral)

B35. Akyol S., Ben-Nissan B., Oktar F.N. Comparative analysis of various Coral types as implant materials (İmplant malzemeleri olarak çeşitli mercan türlerinin karşılaştırmalı analizi) 3. Uluslararası Bilimsel Arařtırmalar Kongresi (UBAK) (09 – 12 Eylül 2018 / Kozaklı / Nevşehir) International Scientific Researches Congress (UBAK) (09 – 12 September 2018 / Kozaklı / Nevşehir) (oral)

B36. Akyol S. Effect of alcohol consumption during pregnancy on TLR4 cascade in neonatal rat microglia. 3. Uluslararası Bilimsel Araştırmalar Kongresi (UBAK) (09 – 12 Eylül 2018 / Kozaklı / Nevşehir) International Scientific Researches Congress (UBAK) (09 – 12 September 2018 / Kozaklı / Nevşehir) (oral)

D. National publications

D1. Polat E, Akyol S. The chemical and microbiological examination of the water samples; The Küçükçekmece Lake and the streams flowing into the lake . Sendrom, 5(10):44-47, 1993.

D2. İrez T, Cerid A, Akyol S, Öcal P, Öçer F, Alıcı B, Sentürk L, Çepni I, Akkuş E, Aksu F. Leukocyte subpopulations and relationship with sperm functions. Turkish Journal of Immunology. 2(2): 17-20, 1997.

D3. Akyol S, İnce E, Ulutin T, Tunalı H. Antioxidant defense systems in various tissues of 10-day-old and 30-day-old baby rats and the toxic effect of ethanol on their immunological parameters. Osmangazi Üniversitesi Tıp Fakültesi Dergisi, (Serbest Radikaller ve antioksidanlar Özel Sayı), 20(1):211 - 226, 1999.

D4. Akyol S, Tunalı H, Kıran B, İlter Ö. The NK activation and the interaction of the parameters IL-2, IFN-g and CD19 in the alcoholic pregnant rats and their offspring. Cerrahpaşa J Med 2001; 32 (1): 43-50..

D5. Akyol S, Tunalı H. Effect of dose and duration of ethanol administration on the immune system in pregnancy. Cerrahpaşa J Med 2005; 36: 181-188.

D6. Akyol S, Tunalı H. The interaction of alcohol at various doses with NK and IFN-gamma at each pregnancy stage. Cerrahpaşa J Med, 39(4); 121-127, 2008.

D7.Akyol S, Aydınlı K. The basic stages of the menstrual cycle and the study of the changes in NK(CD56) ,Th1(IFN- γ) and Th2 (IL-4, IL-10) in early pregnancy. Cerrahpaşa J Med, 2010; 41(2):52-57 ISSN:1300-5227

D8.İnce E, Akyol S, Ulutin T, Tunalı H. Ethanol induced oxidative stress and cytokine responses in rat lymphoid tissues.Cerrahpaşa J Med,2010;41(3):86-93.

D9.Akyol S, Aydınlı K. The changes in Th1,Th2 and Th17 cytokine levels in postmenopausal women. Cerrahpaşa J Med,2011.

E. Papers Presented and published in national scientific meetings:

E1.Akyol S, İlter Ö. Histopathologic examinations on castrated Wistar albino male rats. XXIII. Meeting of the International Society of Haematology Programme and book abstracts.77, 30 Eylül-5 Ekim 1993, İstanbul

E2.Akyol S, İlter Ö.The examination of leukocyte functions on castrated Wistar albino male rats.Türk Fizyolojik Bilimler Derneği 19. Ulusal Kongresi Bildiri Özetleri Kitabı sayfa: 66-67, 9-13 Kasım 1993, Antalya

E3.Akyol S, Kahraman I, İlter Ö.Immunologic examinations on castrated Wistar albino male rats.Trakya Üniversitesi Fen –Edebiyat Fakültesi Biyoloji Bölümü, XII. Ulusal Biyoloji Kongresi Bildiri ve Poster Özetleri (Zooloji Seksiyonu) , sayfa: 61, 6-8Temmuz 1994, Edirne

E4. Akyol S, Kahraman I, Yigit G. Examination of iron, Ig G and Ig M levels in the serum, as well as leukocyte activation and phagocytic activity in pregnant

women. Türk Fizyolojik Bilimler Derneği 21. Ulusal Kongresi Bildiri Özetleri Kitabı, sayfa: 53, 24-28 Eylül 1995, Ankara

E5. Akyol S, Şahmay S, Yigit G. Examination of iron and ferritin levels in serum during pregnancy. Türk Fizyolojik Bilimler Derneği 21. Ulusal Fizyoloji Kongresi Bildiri Özetleri Kitabı , sayfa: 61, 24-28 Eylül 1995, Ankara

E6. Akyol S, Yigit G.The interaction of PRG changes with IL-1 and IL-2 during pregnancy. Türk Fizyolojik Bilimler Derneği 22. Ulusal Kongresi Bildiri Özetleri Kitabı, sayfa: 55, 8-12 Eylül 1996, Bursa

E7. Akyol S, Kahraman I, Yigit G. Examination of cytokine (IL-1, IL-2) and antibody (IgG, IgM, IgA) levels in the serum of pregnant women. Türk Fizyolojik Bilimler Derneği 23. Ulusal Kongresi Bildiri Özetleri Kitabı, sayfa: 91, 29 Eylül-4 Ekim 1997, Adana

E8. Akyol S, Kahraman İ, Şahmay S, Yigit G.The effects of PRL and PRG to cell-mediated immunity during pregnancy. İmmunoloji Derneği 14. Ulusal İmmunoloji Kongresi Bildiri Özetleri Kitabı sayfa: 174, 5-7 Mayıs 1997, İstanbul

E9. Akyol S, Kıran B, Araslı M, Güler Z, İlter Ö, Tunalı H. Examination of immune system changes in alcoholic pregnant rats. Türk Fizyolojik Bilimler Derneği 24. Ulusal Kongresi Bildiri Özetleri Kitabı sayfa: 67, 14-19 Eylül 1998, Samsun

E10. Akyol S, İnce E, Ulutin T, Tunalı H. The antioxidant defense system in various tissues of 10-day-old and 30-day-old baby rats and the toxic effect of ethanol on their immunologic parameters. The 2nd National Congress of Free Radicals and Antioxidants Research Community. Book of abstracts, page:71, 19-22 May 1999, Eskişehir

- E11. İnce E, Akyol S, Ulutin T, Tunalı H.** The effect of ethanol on various tissues and immunologic parameters. The 2nd National Congress of Free Radicals and Antioxidants Research Community. Book of abstracts, page:70, 19-22 May 1999, Eskişehir
- E12. Akyol S, Kahraman I, Şahmay S, Yigit G.** The importance of the cell-mediated immune system and cytokines (IL-1 and IL-2) on phagocytic activity during pregnancy. Türk Fizyolojik Bilimler Derneği 25. Ulusal Kongresi (Uluslararası Katılımlı) Bildiri Özetleri Kitabı sayfa: 243, 6-10 Eylül 1999, Elazığ.
- E13. Akyol S, İnce E, Ulutin T, Tunalı H.** The changes in the specific and nonspecific immune systems and the antioxidant systems of babies of alcoholic rat. Türk Fizyolojik Bilimler Derneği 25. Ulusal Kongresi (Uluslararası Katılımlı) Bildiri Özetleri Kitabı sayfa: 243, 6-10 Eylül 1999, Elazığ.
- E14. İrez T, Cerid A, Akyol S, Alıcı B.** The examination of leucocyte subgroups and sperm functions in semen specimens of infertile men. Türk Fizyolojik Bilimler Derneği 26. Ulusal Kongresi (with international participation) Abstract Book of the Congress page: 30, 4-8 Eylül 2000, Eskişehir
- E15. Akyol S, Tunalı H, İlter Ö.** The interaction of NK activation with IL-2, IFN- γ and CD19 in alcoholic pregnant rats and their babies. Abstract Book of the 26 th National Congress of the Turkish Physiological Science Association (International Participation) page: 98, 4-8 Eylül 2000, Eskişehir
- E16. Akyol S, Yigit G.** CD19 and NK changes in the early stages of pregnancy influenced by the interaction of IL-1, IL-2. The 29th National Congress Abstract Book of the Turkish Society of Physiological Sciences. page: 45, 1-5 Eylül 2003, GATA/Ankara

- E17. Akyol S, Yigit G.** The effect of PRG and HCG on phagocytic activity in the stages of pregnancy. The Turkish Society of Physiological Sciences, the 29th National Congress Abstract Book. page: 46, 1-5 Eylül 2003, GATA/Ankara
- E18. Akyol S, Taylor DD.** The suppressive effects of HSP-10 in ovarian cancer. The Turkish Society of Physiological Sciences, the 32nd National Congress (International Participation) Abstract Book. page: 63, 18-22 Eylül 2006, Pamukkale Üniversitesi-Denizli
- E19. Akyol S, Tunalı H.** IL-1, IL-2, and NK interactions at different stages of pregnancy in alcoholic female rats. The Turkish Society of Physiological Sciences 32nd National Congress Abstracts Book (with international participation) page: 64, 18-22 Eylül 2006, Pamukkale Üniversitesi-Denizli
- E20. Talaz S, İskeleli G, Akyol S.** A comparative analysis of inflammatory cytokines in eye secretions of groups of patients using a variety of contact lenses. TOD 44. ulusal Kongresi Özet Kitabı. Sayfa 124, 29 Eylül-3 Ekim 2010, Antalya
- E21. Akyol S, İnce E, Ulutin T, Tunalı H.** Cytokine changes in TH1 (TNF- α , IL-2, IFN- γ) after oxidative stress in lymphoid organs of baby rats treated with gavage ethanol during pregnancy. Abstract Book of the 36th National Congress of the Turkish Physiological Society. page: 119, 14-17 Eylül 2010, Trakya Tıp Fakültesi Edirne
- E22. Akyol S, Karataş K, Aydın K.** Comparative analysis of T cells with IL-17 and TGF- β interactions in amniotic fluid and blood serum at preterm birth. Abstract Book of the 38th National Congress of Physiology. page: 89, 25-29 Eylül 2012, Karadeniz Teknik Üniversitesi Tıp Fakültesi, Trabzon (S. 40)
- E23. Akyol S, Hancı M.** Do Costimulatory pathways change in Degenerative Disc (DDD) patients? 38. Ulusal Fizyoloji Kongresi, Fizyoloji Kongresi Bildiri Özetleri

Kitabı sayfa:186, 25-29 Eylül 2012, Karadeniz Teknik Üniversitesi Tıp Fakültesi, Trabzon(P 088)

E24.Özerkan KN, Akyol S. Acupuncture applications in immunology.

38. Ulusal Fizyoloji Kongresi, Fizyoloji Kongresi Bildiri Özetleri Kitabı sayfa:88, 25-29 Eylül 2012, Karadeniz Teknik Üniversitesi Tıp Fakültesi, Trabzon (S. 39)

E25. Akyol S, Hancı M. Analysis of susceptibility of infection after surgical trauma in comparing male and female patients with degenerative dischernia.XIV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi,27-30 Ekim 2015 LibertyHotelsLykia World Hotel Fethiye Ölüdeniz.

E26.Akyol S, Gezer M. Kız sünnetinde (FGM), komplementanafilotoksinler ve MAC (Complement anaphylatoxins and MAC in Type 1 Female genital mutilation (FGM)). XIV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, 27-30 Ekim 2015 Liberty Hotels Lykia World Hotel Fethiye Ölüdeniz.

E27. Muhittin Onur Yaman, İbrahim Güner, Gülcan Güntaş, Osman Fuat Sönmez, Gamze Tanrıverdi, Aris Çakırıs, Uğur Aksu, Sibel Akyol, Elif Güzel, Hafize Uzun, Nermin Yelmen, Gülderen Şahin. “Sıçanlarda infrarenal abdominal aorta iskemi-reperfüzyonu ile oluşturulan akut akciğer Hasarına karşı timozin beta 4’ün koruyucu etkisi”. Türkiye Solunum Araştırmaları Derneği (TÜSAD) 40. Ulusal Kongresi Antalya-Kemer, SS-128, 2018.

F. Book Chapter

F1. Akyol S ."Bone Immunology". Osteoporosis and bone quality in Bone Joint decade” Bölüm III, Sayfa; 25 – 34, İstanbul 2003.

- F2. Akar S, Akyol S.** Retinal Embryogenesis-Physiology; inspection methods, degeneration of the retina, and basic ophthalmological diseases. 2. Baskı, Güneş Tıp Kitabevi, Kısım:13, Bölüm: 39, Sayfa: 513-535(1098), 2011, ISBN: 9789752773318, Izmir
- F3. Akyol S.** Physiology of muscle and tone. Spasticity. Nobel Tıp Kitabevi, Bölüm 2. Sayfa: 17-34, 03/2011 , ISBN: 978-975-420-827-6, Istanbul (216 sayfa)
- F4. Akyol S.** Physiology of movement. Spine and spinal cord injuries..Baskı, Intertıp Kitabevi. Bölüm : 3, Sayfa:37-51, 06. Ağustos 2012, ISBN:9786058731561(Editor: HancıM, Erhan B.) Izmir.(Sayfa Sayısı 740)
- F5. Akar S, Akyol S.** Retinal Diseases. Retinal Embryogenesis-Physiology, Inspection methods, Degeneration of the Retina. Basic Ophthalmology 3. Baskı, Güneş Tıp Kitabevleri, Kısım:13, Bölüm: 51, Sayfa: 633-653, 2015, ISBN: 978-975-277-592-3, Ankara (Editör Prof. Dr. Pınar AYDIN O'DWYER, Prof. Dr. Yonca AYDIN AKOVA) (Sayfa Sayısı 1288)
- F6. Akyol S.** Senescence Physiology and Immunology. OF (Omurilik Felciyle) Yaşlanmak.(Editor:Belgin Erhan, Murat Hancı).Intertıp, Bölüm:2, Sayfa:33-106, 2016,ISBN: 978-605-5004-32-3, İzmir (Sayfa Sayısı 897)
- F7. Akyol S.** "Kas Fizyolojisi", Kas iskelet sisteminde Spazm, Prof. Dr. Halil KOYUNCU, Ed., Bilmedya, Bölüm:3, ss.29-55, 2017 ISBN. 9789758267125, Istanbul (Sayfa Sayısı 153)

International Chapter and Book

- F1a. Andy H. Choi, Sibel Akyol, Avi Bendavid, Besim Ben-Nissan.** Nanobioceramic Thin Films: Surface Modifications and Cellular Responses on Titanium Implants. Titanium in Medical and Dental Applications. A volume in

woodhead Publishing Series in Biomaterials May 2018, Pages 147-173
<https://doi.org/10.1016/B978-0-12-812456-7.00007-X> (CHAPTER)

F2a. Andy H. Choi, Innocent J. Macha, Sibel Akyol, Sophie Cazalbou, and Besim Ben-Nissan. Nanostructured Calcium Phosphates for Drug, Gene, DNA, and Protein Delivery and as Anticancer Chemotherapeutic Devices. *Clinical Applications of Biomaterials*. pp.227-256, Springer 2017
ISBN 978-3-319-56058-8, ISBN 978-3-319-56059-5 (eBook) DOI 10.1007/978-3-319-56059-5, Library of Congress Control Number: 2017939632 Springer International Publishing AG 2017

F3a. Sibel Akyol. *Biyomateryallerin İmplantasyonu ve Doğal İmmün Yanıtlar . Tıpta İnovasyon ve Renovasyon Mozaïği.* Sayfa.25-48, Berikan Yayınevi 2018, ISBN: 978-605-7501-37-0 Çankaya-Kızılay/ANKARA

F4a. F. Ayşenur Curabeyođlu, Sibel Akyol, Erdal İnce. *Gebelikte Demir Suplemantasyonu. Tıpta İnovasyon ve Renovasyon Mozaïği.* Sayfa. 89-106, Berikan Yayınevi 2018, ISBN: 978-605-7501-37-0 Çankaya-Kızılay/ANKARA

F5a. Erdal İnce, Sibel Akyol, F. Ayşenur Curabeyođlu. *Alkol Uyarılı Oksidatif Stres, Doğal Antioksidanlarla Tedaviye Yaklaşım. Gebelikte Demir Suplemantasyonu. Tıpta İnovasyon ve Renovasyon Mozaïği.* Sayfa. 187-226, Berikan Yayınevi 2018, ISBN: 978-605-7501-37-0 Çankaya-Kızılay/ANKARA

Editör

1.Sibel AKYOL. *Tıpta İnovasyon ve Renovasyon Mozaïği.* Sayfa.1-720, Berikan Yayınevi 2018, ISBN: 978-605-7501-37-0 Çankaya-Kızılay/ANKARA

Compilations

1. **Akyol S, Yigit G.** "Why a special tolerance system for the fetus and the mother? Sendrom Dergisi, 7(3): 76-79,1995.
2. **Akyol S.** The immune defense system in a healthy pregnancy. İ.Ü. Cerrahpaşa Tıp Fakültesi Temel Tıp Bilimleri Bölümü, Açılış Etkinlikleri Kitabı Bölüm11, sayfa:134 -137, 2004.
3. **Akyol S.** Effective immune defence mechanisms and progesterone for the fetus. Endokrinolojide Yönelişler.14(6):194-199, 2005.
4. **Akyol S.** Heat shock proteins (HSP) and progesterone receptors (PR) in ovarian cancer. Bakırköy Tıp Dergisi, 5(3):83-91, 2009.
- 5-**Akyol S.** Maternal immune tolerance mechanisms in successful pregnancies. Cerrahpaşa Tıp Dergisi, 2013

Thesis Advisor:

1. **Kadriye Yağmur Oruç;** İn-vivo titanyum (ti) ve titanyum 500 (ti 500) implantasyonunun sıçan makrofaj sub grupları aktivasyonuna etkisi. (Yüksek Lisans Tezi)

2. **İzel Cemre AKŞAHİN;** İskemik ön-koşullamanın sıçan spinal kord iskemi-reperfüzyon hasarında apoptotik aktivatörler ve supressörler üzerine etkisi. (Yüksek Lisans Tezi)

Co-chairman:

1. **Co-chairs,** Prof. Dr. Erdal AĞAR, Uzm. Dr. Sibel AKYOL, Neuroglial changes and recovery in Neurodegeneration: focus on Alzheimer's

disease (Lecture 11, Prof. Dr. José Julio Rodríguez ARELLANO, University of the Basque Country) (TFBD 38. National Congress Of Physiology,29.09.2012)

2. Chair: Sibel Akyol, Istanbul University, Turkey (Track 6: Cardiovascular and Thoracic Surgery Track 7: Neurosurgery Track 8: Orthopaedic Surgery Track 9: Obstetrics and Gynaecological Surgery Track 10: Urology) (4th International Conference and Exhibition on Surgery. October 05-07, 2015 Crowne Plaza, Dubai, UAE)

3. Chair: Sibel Akyol, Istanbul University, Turkey International Scientific Researches Congress (UBAK)(09 – 13 Mayıs 2018 / Mardin) 2. Oturum /2st session 7 Salon/ Hall, 10 Mayıs/May 2018 , Saat/Time: 15.45 – 17.15 Place: Kudüs Hall.

4. Chair: Sibel Akyol, Istanbul University, Turkey International Scientific Researches Congress (UBAK)(09 – 13 Mayıs 2018 / Mardin) 3. Oturum /3rd session Tarih/Date: 11 Mayıs/May 2018 Saat/Time: 17.30 – 19.00 Yer/Place: Zeytindalı Salonu/ Sultan Zeytindalı Hall.

5. Chair: Sibel Akyol, 3.rd.International Scientific Researches Congress (UBAK) (9 – 12 September 2018 Kozaklı – Nevşehir DATE: 10 /September 2018 Time: 15:45 – 17.15 Place: Hacı Bektas Velı Hall

6. Chair: Sibel Akyol, 3.rd.International Scientific Researches Congress (UBAK) (9 – 12 September 2018 Kozaklı – Nevşehir Date: 11. September 2018, 2st Session, Time: 11.45 – 13.00 Place: Damat Ibrahim Pasa Hall

List of attended courses

- 1-“Tissue Engineering of Bone Scaffolds “** Faculty of Science , School of Life Science , University of Technology, Sydney, Australia. (Professor Bruce Milthorpe, Professor Besim Ben-Nissan, Dr. Matt Padula, Dr. Jerran Santos, Dr. Andy H. Choi) 25.11-12.12.2016
- 2- Ultra Flow Cytometry and X-MAP Technical Course.** (Dr. Matt Padula, Dr. Jerran Santos, Professor Besim Ben-Nissan)14.11-18.11.2016
- 3- X-Ray diffraction and scanning electron microscopy (XRD and SEM)(** Basic SEM training on EVO Zeiss SEM) Faculty of Science , School of Life Science , University of Technology, Sydney, Australia.(Dr. Herbert Yuan, Katie McBean Research Laboratory Manager Physics and Advanced Materials & Microstructural Analysis Unit, UTS) (Prof.Dr. Bruce Milthorpe, Prof. Dr. Besim Ben-Nissan, Dr. Herbert Yuan, Assoc.Dr.Katie McBean) 24.10-28.10.2016
- 4- Analytical Vibrational Spectroscopy - NIR, IR, and Raman Course.** (The mid-infrared (IR), near-IR (NIR), and visible (Raman) regions of the spectrum. Laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS)) 17.10-21.10.2016
- 5- The course of LUMINEX (MAP) Tecnology.** Department of Obstetrics, Gynecology and Women's Health, University of Louisville School, 2005.
- 6- Turkish-Swiss Immunology Days,** İstanbul University, Cerrahpaşa Faculty of Medicine. Organized by the Society of Immunology, 1998.
- 7- Macedonian Medical Association, Society of Basic, Clinical Immunology and Allergiology.** 1st. Macedonian Immunological Congress held in Ohrid, 1996.
- 8- Infertility 1996,** İstanbul University, Cerrahpaşa Faculty of Medicine Organized by: Prof. Dr. Feridun Aksu, 1996, İstanbul
- 9- Turkish-French Immunology Days (Immunology of Infection) 1996-** İstanbul University, Cerrahpaşa Faculty of Medicine. Organized by: Prof. Dr. Birsen Y. Ülkü , Prof.Dr. Yıldız Camcıoğlu
- 10- The course of reproductive endocrinology and infertility 1995**

Organized by Prof.Dr. Erdoğan Etüñgealp, İstanbul

11- The Course of Flow- Cytometry DETAM, 1996- Istanbul

My Lectures

- 1- Transport of ions and molecules across the cell membrane
- 2- Membrane potentials, Genesis of resting membrane potentials
- 3- Excitation of the excitable tissues
- 4- Ionic basis of excitation, types of action potentials
- 5- Physical properties of the blood
- 6- Fluid exchange between intra- and extracellular compartments
- 7- The cell cycle control system
- 8- Hematopoiesis
- 10- Intracellular Communication-I and II
- 11- Pituitary Hormones and The Hypothalamic Control
- 12- Endocrine System Development
- 13- Reproductive immunology
- 14- Male reproductive system disorders
- 15- Female reproductive system disorders

Turkish

- 1- Talamus ve RAS (3. sınıf)
- 2- Kortikal Motor Alanlar, Kortikal yapıtaşları ve dekortikasyon (3. sınıf)
- 3- Medüller yapıtaşları ve deserebrasyon (3. sınıf)
- 4- Membran Dinlenim Potansiyeli ve İyon Kanalları
- 5- Eksitasyon Olayları
- 6- Uyarılmanın İyonik Temelleri ve Aksiyon potansiyelinin tipleri
- 7- Yaşlanma Fizyolojisi: Genel Teoriler
- 8- Gastrointestinal Sistem