

CURRICULUM VITAE



Prof. Dr. Murat AYAZ

ADRESS

Selcuk University Medical Faculty Department of Biophysics,
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EDUCATION

2004 PhD. Biophysics
Ankara University Medical Faculty
Dissertation: Effects of Selenium on Electrical and Mechanical Activities of Experimental
Diabetic Rat Heart Ventricular Muscle

HONORS AND AWARDS

2015 International Journal of Cardiology; Outstanding Contribution in Reviewing
2015 International Journal of Cardiology; Recognized Reviewer
2015 Journal of Neuroscience Methods; Outstanding Contribution in Reviewing
2011 Elite reviewer of the year Anatolian Cardiology Journal
2009 Highest research paper owner of the year among the Associative Professors Meram
Medical Faculty
2008 Highest research paper owner of the year among the Assistant Professors Meram
Medical Faculty
1999-2000 Senior scientist scholarship Inserm U390 Cardiovascular Pathologies Research
Center Montpellier Fransa

TEACHING AND RESEARCH INTERESTS

Biophysics

Cardiac Electrophysiology

Neuroscience

Animal Models of Pathological Conditions

TEACHING EXPERIENCE

2005- Biophysics lectures for medical students of first and second year

2005- MsC and PhD lectures

2008- Biophysics lectures for dentistry students of first year

ACADEMIC AND ADMINISTRATIVE EXPERIENCE

Selcuk University Meram Meram medical Faculty 2nd Education Coordinator

Selcuk University a Member of the Board of Health Sciences Directors

Selcuk University Experimental Research and Application Center Executive Vice President

Selcuk University a Member of the Board of Scientific Research and Project Development
Directors

Selcuk University Head of Biophysics Department in Medical Faculty

Selcuk University a Member of Noninvasive Clinical Research Ethical Evaluation Committee

Selcuk University Postgraduation Evaluation and Quality Improvement Committee

Selcuk University a Member of Erasmus and Farabi Committee

Selcuk University a Member and Vice President of Noninterventional Ethical Committee

Selcuk University a Member of the Board of Health Sciences Directors

PUBLICATIONS

Books

Chapter

Ayaz M., Turan B. Diabetic Cardiomyopathy. A Critical Balance Between Oxidative Stress and Antioxidant Defense in Cardiovascular System Under Hyperglycemia: A Summary of Experimental Studies. Pages 123-143. Springer Science. Turan, Belma, Dhalla, Naranjan S. (Eds.) 2014, XIX, 416 p. 64 illus., 38 illus. in color.

Translation Editor

Biyofizik Sırları Çözülmüş. 2013 Nobel Tıp Kitapevleri. ISBN 978-975-6266.

Chapter Translation Editor

Bölüm 1: Giriş, Biyofizik Sırları Çözölmüş, Nobel Tıp kitapevleri, s.: 1-8, 2013.

Bölüm 2: Biyofizik konu başlıkları, Nobel Tıp kitapevleri, s.: 11-33, 2013.

Bölüm 3: Biyofiziğe ait teknik ve uygulamalar, Nobel Tıp kitapevleri, s.: 335-52, 2013.

Bölüm 6: Biyolojik moleküller için konformasyonu etkileyen kuvvetler, Nobel Tıp kitapevleri, s.: 105-136, 2013.

Bölüm 8: Hücre, Nobel Tıp kitapevleri, s.: 173-195, 2013.

Bölüm 11: Zar biyofiziği, Nobel Tıp kitapevleri, s.: 265-291, 2013.

Journal Editorial Board

2007- Türkiye Klinikleri Tıp Bilimleri Dergisi. ISSN: 1300-0292

2009-2012. Neural Regeneration Research. ISSN: 1673-5374.

2013- Scientific World Journal. Section of Pharmacology. ISSN: 1537-744x.

2013- Journal of Cardiology and Therapy. ISSN: 2309-6861

2014- Journal of Advanced Neuroscience Research. ISSN: 2409-3564

2015- Journal of Diabetes and Related Diseases

2015- Jacobs Journal of Regenerative Medicine

2015- Jacobs Journal of Physical Rehabilitation Medicine

Research Articles

1. M Ayaz, H Karabagli, SB Yanardag. Can Hypo/Hyponatremic Conditions be a Factor for Na Ion Channel Kinetics: Model Study. Turkish neurosurgery. 2017 (in press)
2. M Ayaz, SB Yanardag. Potassium Channels: A Transistor Model. 2017, Journal of Advanced Neuroscience Research 4, 14-18
3. Kaptan H, Ayaz M. New Haemostatic Agent and Application Tool for Neurosurgery. Journal of Spine & Neurosurgery. 2016, 5:5 <http://dx.doi.org/10.4172/2325-9701.1000233>
4. Ayaz E., YanardagSB., Karabagli H., Ayaz M. Effects of the Experiment Conditions on the Nerve Action Potential: A Model Study. Journal of Advanced Neuroscience Research, 2016, 3(2), -.

5. Yanardag SB., Ayaz M. Naive Attempt of Quantum Mechanics: Axonal Membrane. *Journal of Advanced Neuroscience Research*, 2016, 3(1), 19-23.
6. Kaptan H, Ekmekci H, Ayaz M. Deep Brain Stimulation in Parkinson's Disease. *Nigerian Journal of Health Sciences*. 2015, 15(2), 109-115
7. Ayaz M, Baba F, Akgun N, Bas AL, Uney K, Dik B. Protective effect of distilled nerium oleander on functional and structural alterations in heart from type 2 diabetic rats. *Bratisl Lek Listy* 2015; 116(7): 451-456.
8. Ayaz M., Akand M., Kucukbagriacik Y., Dursunoglu D. The effects of estradiol on cardiac muscle electrophysiology in orchietomized rat model: a new insight to side effects caused by castration. *Eur Rev Med Pharmacol Sci* 2015; 19: 2866-2874.
9. Çiçek F., and Ayaz M. The Isoform Specific Roles of Rho-Kinases in Vascular Diseases. *Journal of Cardiol Ther* 2015; December 2(6): 465-468
10. Ayaz M., Yanardag S.M., Ugurlutan R. Experimental Diabetic Neuropathy: Electrophysiological Changes & Antioxidant Supplementations. *Journal of Advanced Neuroscience Research*. 2015; 2, 23-27.
11. Yanardag SB, Akkoca A, Çiçek F., Ayaz M. Restorative Effect of Distillated Nerium Oleander Extract on Diabetic Neuropathy: Animal Model Study. *J. Adv. Neurosci. Res.* 2015, 2, 16-21.
12. Kaptan H., Ayaz M., Ekmekçi H. Effect Transformation of the Micro Electrode Recording (MER) Data to Fast Fourier Transform (FFT) for the Main Target Nucleus Determination for STN-DBS. *Acta Inform Med.* 2014; 22(6): 411-412
13. Kaptan H., Kasımcıan O., Ayaz M., Bozdoğan O., Karabağlı H. Controlled Trial of Efficacy of Dexketoprofen in Sciatic Nerve Crush Injury in Rats. *Journal of Neurological Sciences (Turkish)*. 2014, Volume 31(1): 126-135
14. Kökçam SS, Tekin S, Kartal A, Ayaz M, Sahin M, Acar F, Cakir M, Küçükbağrıaçık Y. Effect of sex steroids on soleus muscle response in hypocalcemic medium (in vitro). *J Surg Res.* 185: 883-888, 2013.
15. Kaptan H., Kasımcıan Ö., Birler S., Ayaz M. Early results of non-fusion dynamic stabilization with InterS. *Minerva Ortopedica e Traumatologica* April;62(2):83-7, 2011

16. Ayaz, M., Kaptan H. Effects of selenium on electrophysiological changes associated with diabetic peripheral neuropathy. *Neural Regeneration Research* 6(8): 617-622, 2011.
17. Ayaz, M., Guney O., Erdi F., Kucukbagriacik Y. Electrophysiology of papillary muscle in sah: changes and n-acetylcysteine protection. *Journal Of Interventional Cardiac Electrophysiology* 26(2): 95-100, 2009.
18. Ayaz, M., N. Okudan. Effects of melatonin supplementation on exercise-induced changes in conduction velocity distributions. *Methods Find Exp Clin Pharmacol.* Apr;31(3):151-6 2009.
19. Ayaz M, Tuncer S, Okudan N, Gokbel H. Coenzyme Q(10) and alpha-lipoic acid supplementation in diabetic rats: conduction velocity distributions. *Methods Find Exp Clin Pharmacol.* 2008 Jun;30(5):367-74.
20. Ayaz M, Dalkilic N, Tuncer S, Bariskaner H. Selenium-induced changes on rat sciatic nerve fibers: compound action potentials. *Methods Find Exp Clin Pharmacol.* 2008 May;30(4):271-5.
21. Ayaz, M. Expectation from science/Prevention of calcification with TPEN in pericardial bio-prosthetic heart valve material *Anadolu Kardiyoloji Dergisi-The Anatolian Journal Of Cardiology* 8 (1):83-83 2008.
22. Ayaz M, Dalkilic N, Bariskaner H, Tuncer S, Demirel I. Gender-dependent effects of selenite on the perfused rat heart: a toxicological study. *Biol Trace Elem Res.* 2007 Jun;116(3):301-10.
23. Bariskaner H, Ayaz M, Guney FB, Dalkilic N, Guney O. Bupivacaine and ropivacaine: comparative effects on nerve conduction block. *Methods Find Exp Clin Pharmacol.* 2007 Jun;29(5):337-41.
24. Buluc M, Ayaz M, Turan B, Demirel-Yilmaz E. Resveratrol-induced depression of the mechanical and electrical activities of the rat heart is reversed by glyburide: evidence for possible K(ATP) channels activation. *Arch Pharm Res.* 2007 May;30(5):603-7.
25. Ayaz M, Kiziltan E, Tuncer S, Dalkilic N, Demirel I, Bariskaner H, Pehlivan F. Sexual dependency of rat sciatic nerve fiber conduction velocity distributions. *Int J Neurosci.* 2007 Nov;117(11):1537-49.

26. Ayaz M, Celik HA, Aydin HH, Turan B. Sodium selenite protects against diabetes-induced alterations in the antioxidant defense system of the liver. *Diabetes Metab Res Rev.* 2006 Jul-Aug;22(4):295-9.
27. Ayaz M., Turan B. Selenium Prevents Diabetes-Induced Alterations in $[Zn^{2+}]_i$ and Metallothionein Level of Rat Heart via Restoration of Cell Redox Cycle. *American Journal of Physiology.* 2005.
28. Ayaz M., Ozdemir S., Ugur M., Vassort G., Turan B. Effects of selenium on altered mechanical and electrical cardiac activities of diabetic rat. *Archives of Biochemistry and Biophysics.* 426: 83-90. 2004.
29. Ayaz M., Ozdemir S., Yaras N., Vassort G., Turan B. Selenium-Induced Alterations In Ionic Currents Of Rat Cardiomyocytes. *Biochemistry and Biophysics Research Communications.* 327(1): 163-173. 2005.
30. Ayaz M., Can B., Ozdemir S., Turan B. Protective effect of selenium treatment on diabetes-induced myocardial structural alterations, *Biological Trace Element Research.* 89(3): 215-26. 2002.
31. Ozdemir S., Ayaz M., Can B., Turan B. Effects Of Selenite Treatment Treatment On Ultrastructural Changes In Experimental Diabetic Rat Bone. *Biological Trace Element Research* 107 (2): 167-180, 2005.
32. Ozdemir S., Ayaz M., Tuncer T., Ugur M., Turan B. Vegetable Oils used as Vitamin E vehicle effects the Electrical Activity of Rat Heart. *Physiological Research.* 52(6): 767- 771. 2003.
33. Uğur M., Ayaz M., Ozdemir S., Turan B. Toxic concentration of selenite shortens repolarization phase of action potential in rat papillary muscle. *Biological Trace Element Research.* 89(3): 227-38, 2002.
34. Delilbaşı Ç, Ayaz M, Nazikoğlu A, Müftüoğlu S.F, Orhan K. Ultrastructure of the masseter muscle in diabetic and selenium given diabetic rats. *Annals of the Ovidius University.* III (1): 79-84. 2004.
35. Ayaz M, Barışkaner H., Baysal H., Küçükbağrıacık Y. Ari zehirinin kardiyotoksik etkisi:invitro çalışma. *Selçuk Tıp Dergisi* 25(1): 1-5, 2009.

36. Koç E., Ayaz M., Saran Y., Turan B. Relationship between structural alterations of ileal smooth muscle and altered responses to acetylcholine in streptozotocin-induced diabetic rats. *Journal of Medical Research*. 20(2): 65-71, 2002.

Oral and Poster Presentations

1. Ayaz M. Protective Effect of Nerium Oleander on Type 2 Diabetic Rat Heart Electrophysiology Balkan States Anesthesia Days III. OP-59 18-21 May 2016, Skopje Macedonia
2. . Yanardag S.B, Ayaz M., Duman A. Sodium Selenate Restores Potassium Currents Of Diabetic Cardiomyopathy: Rat Model Study. *Clinical Therapeutics*. P2.12 2016 38 (10S) 330
3. Yanardag S. B., Ayaz M. Electron Tunnelling: A Novel Approach to Old Paradigm. International Conference on Natural Science and Engineering. P-25, March 19 – 20, 2016 Kilis Turkey.
4. Ugurlutan R., Yanardag S. B., Ayaz M. A Different Solution for Digitalizing ECG Papers. International Conference on Natural Science and Engineering. P-65, March 19 – 20, 2016 Kilis Turkey.
5. Ayaz M., Yanardag S. B., Ugurlutan R. Experimental Diabetic Neuropathy: Electrophysiological Changes & Antioxidant Supplementations. International Conference on Natural Science and Engineering. P-64, March 19 – 20, 2016 Kilis Turkey.
6. Ayaz M., Baba F., Akgün N., Baş A. L., Üney K., Dik B. Protective Effect of Nerium Oleander on Diabetic Cardiomyopathy. International Conference on Natural Science and Engineering. P-47, March 19 – 20, 2016 Kilis Turkey.
7. Yanardag S. B., Akkoca A., Çiçek F., Ayaz M. Restorative Effect of Oleanderine on Diabetic Neuropathy. International Conference on Natural Science and Engineering. P-34, March 19 – 20, 2016 Kilis Turkey.
8. Kaptan H., Ayaz M., Ekmekci H., Akdemir G. Effect transformation of the micro electrode recording (MER) data to fast fourier transform (FFT) for the main target nucleus determination for STN-DBS. International Conference on Deep Brain Stimulation. May 30th - May 31st, 2013 Düsseldorf Germany.

9. Kaptan H., Ekmekci H., Ayaz M., Akdemir G. Unilateral Deep Brain Stimulation of Subthalamic Nucleus for Parkinson Disease. XXth Congress of the European Society for Stereotactic and Functional Neurosurgery. European Society for Stereotactic and Functional Neurosurgery Vol. 90, Suppl. 1, 2012
10. Ayaz, M.; Kulaksizoglu, H. Effect of Testosterone Ablation on Cardiac Muscle Electrophysiology: A New Insight to Side Effects Caused by Castration UP-01.014 Urology , Volume 78 (3): Sep 1, 2011
11. Tekin S, Kokcam S, Sahin M, Ayaz M, Acar F. The role of gender and sex steroids on the respond of muscle tissue to hypocalcemia. Source: BRITISH JOURNAL OF SURGERY 97 (Suppl. 4): S93-S93 JUN 2010. 45th Congress of the European-Society-for-Surgical-Research Geneva, SWITZERLAND, JUN 09-12, 2010 European Soc Surg Res.
12. M Ayaz, N. Okudan. Antioxidant treatment in exercised induced conduction velocity distributions. COST B30 - Training School CELLULAR NEUROPATHOLOGY: IN VITRO MODELS Kiev, Ukraine, 3 – 7 June 2010
13. Ayaz, M., S. Tuncer, N. Okudan, H. Gokbel, “Coenzyme Q(10) and alpha-lipoic acid supplementation in diabetic rats: conduction velocity distributions Finland 15-17 August 2008. Acta Physiologica vol:193 supp:664
14. Turan B., Ayaz M., Tuncer T., Sakinci N., Uğur M, Changes in electrophysiological and mechanical responses of the rat heart to selenite in streptozotocin-induced diabetes. 2. Federation of European Physiological Society (FEPS) Congress, 29 June-4 July, 1999, Prague, Czech Republic, Abstract in: Physiological Research. 48 (suppl.1), pp S131, 1999.
15. Toyran N., Ayaz M., Turan B., Severcan F, Comparison of streptozotocin-induced diabetic and control rat liver tissues by Fourier Transform Infrared Spectroscopy, 2nd Federation of European Physiological Society (FEPS) Congress, 29 June-4 July. 1999. Prague, Czech Republic, Abstract in: Physiological Research, 48 (suppl.1). pp, S131, 1999.
16. Kaptan N., Toyran N., Ayaz M., Turan B., Severcan F, Fourier Transform Infrared study of the effect of diabetes on rat heart and liver tissues. Colloquium Spectroscopicum Internationale XXXI., Ankara, Turkey, Book of Abstracts, pp, 296, September 5-10 1999.

17. Turan B., Ayaz M., Uğur M., Selenium treatment effects action potential parameters of streptozotocin-induced diabetic cardiomyopathy in rat. Experimental Biology 2000. San Diego, California, USA, April 15-18, 2000. Abstract in: The FASEB Journal, 2000, 14(4), A537.
18. Ayaz M., Uğur M., Turan B., Sodium selenite treatment prevents prolongation of the cardiomyocyte action potential in streptozotocin induced diabetes rat. Fouthyfive Annual Meeting, February 12-16, 2001. Boston USA, Biophysical Journal, 80(1), A538, 2001.
19. Turan B., Ayaz M., Özdemir S., Uğur M., Selenium shortens the prolonged action potentials in experimental diabetic rat hearts. ISHR Montreal, Diseases of the Cardiovascular System and Immunity, 12-15 July, 2001, Montreal, Canada.
20. Turan B., Ayaz M., Özdemir S., Uğur M., Vassort G., Selenite restores diminished K currents in diabetic rat heart. 22. European Section meeting of the International Society for Heart Research, 3-6 July, 2002 – Szeged, Hungary, Abstract in: J, Mol, Cell, Cardiol, 2002, 34(6); A65.
21. Ayaz M., Buluç M., Turan B., Demirel-Yılmaz E. The effects of resveratrol om mechanical and elecrtical activities of the isolated rat heart. 22. European Section meeting of the International Society for Heart Research, 3-6 July, 2002 – Szeged, Hungary, Abstract in: J. Mol. Cell. Cardiol. 2002, 34(6); A6.
22. Özdemir S., Ayaz M., Uğur Ö., Uğur M., Turan B. Effect of diabetes and selenite on contractile responses and β -adrenergic signalling in rat heart. 22. European Section meeting of the International Society for Heart Research, 3-6 July, 2002 – Szeged, Hungary, Abstract in: J. Mol. Cell. Cardiol. 2002, 34(6); A47.
23. Yaraş N., Ayaz M., Özdemir S., Uğur M., Turan B. Interpretation of relevance of sodium calcium exchange in action potensial of diabetic rat heart by mathematical model, ISHR meeting, 2-6 June, 2004, Dresden-Germany, Abstract in: J. Mol. Cell. Cardiol. 36(5): 765, 2004.
24. Ayaz M., Tuncer T., Ugur M., Turan B, Deneysel diyabette gözlenen kalp fonksiyon değişiklikleri. X. Ulusal Biyofizik Kongresi. 10-12 Eylül, 1998, İstanbul, Özet: Bildiri Kitapçığı, sayfa: 26.

25. Tuncer T., Ayaz M., Sakinci N., Uğur M., Turan B, Sıçanların atriyal aktiviteleri üzerine E vitaminin etkisinin elektrofizyolojik yöntemlerle incelenmesi. Türk Biyofizik Derneği XI. Ulusal Kongresi, 31 Ekim-2 Kasım 1999. Antalya, Bildiri Özetleri s: 23.
26. Ayaz M., Tuncer T., Sakinci N., Uğur M., Turan B, In vivo selenyum uygulamasının diyabetik sıçanların papiller kası aksiyon potansiyeli üzerindeki pozitif etkisi. Türk Biyofizik Derneği XI. Ulusal Kongresi, 31 Ekim-2 Kasım 1999, Antalya. Bildiri Özetleri s: 18.
27. Özdemir S., Ayaz M., Uğur M., Turan B., In vivo selenit uygulamasının diyabetik kardiyomiyopatiye pozitif etkilerinin patch-clamp tekniği ile incelenmesi, XIII. Ulusal Biyofizik Kongresi, 5-7 Eylül 2001, Eskişehir, Bildiri Özetleri Kitapçığı, sayfa: S1.
28. Ayaz M., Özdemir S., Uğur M., Turan B. In vivo selenit uygulamasının normal sıçan kalbi elektriksel aktivitesine etkilerinin elektrofizyolojik tekniklerle incelenmesi. XIII. Ulusal Biyofizik Kongresi, 5-7 Eylül 2001, Eskişehir, Bildiri Özetleri Kitapçığı, sayfa: S4.
29. Ayaz M, Özdemir S., Uğur M., Turan B. Diyabetik kardiyomiyopatide hücre içi serbest Ca derişimi. Ulusal Biyofizik Kongresi, 8-12 Ekim 2003, Pamukkale, Özet kitabı, s:35.
30. Ayaz M., Turan B. Sodyum Selenitin Diyabetle Bozulmuş Hücre İçi Serbest İyon Regülasyonu Üzerine Pozitif Etkileri. 17, Ulusal Biyofizik Kongresi, 7-9 Eylül 2005, İzmir, Özet Kitapçığı (Sözlü Bildiri) S:26.
31. Guney, O., S. Tuncer, MK. Ilik, N. Dalkılıç, Ayaz, M. Effects of Hypothermia on Conduction Velocity Distribution of Isolated Rat Sciatic Nerve VI. Ulusal Sinirbilimleri Kongresi, Neuroanatomy 6(1), 7, Zonguldak, 2007.
32. Tuncer, S., M. Ayaz, Dalkılıç, N. Deneysel Diyabetik Nöropatinin Periferel Sinir İletim Parametreleri Üzerine Etkileri XIX. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S02, Konya, 2007.
33. Güney Ö., Tuncer S., İlik K., Dalkılıç N., Ayaz M., Hipoterminin izole sıçan siyatik siniri iletim hız dağılımı üzerine etkisi. XIX. Ulusal Biyofizik Kongresi. 5-7 Eylül, 2007, Konya, Özet: Bildiri Kitapçığı, sayfa: 8.

34. K kam S., Ayaz M., K ukbađrıaık Y., Tekin Ő., Őahin M., Kas dokusunun hipokalsemiye yanıtı  zerine cinsiyetin ve seks steroidlerinin rol . XXII. Ulusal Biyofizik Kongresi . 28 Eyl l-1 Ekim, 2010, Aydın,  zet: Bildiri Kitapığı, sayfa: 30.
35. Ayaz M., G ney  ., N-asetilsisteinin subaraknoid kanama modelinde papiller kas elektrofizyolojisi  zerine koruyucu etkisi. XXIII. Ulusal Biyofizik Kongresi. 13-16 Eyl l, 2011, Edirne,  zet: Bildiri Kitapığı, sayfa: 19.
36. Ayaz M., K ukbađrıaık Y., 17 beta estradiol n erkek sıan kalbi elektrofizyolojik yanıtları  zerine etkileri. XXIII. Ulusal Biyofizik Kongresi. 13-16 Eyl l, 2011, Edirne,  zet: Bildiri Kitapığı, sayfa: 20.
37. Ayaz M., Akg n N., BaŐ L., Nerium oleander'in liyofilize sıvı distilatının tip 2 deneysel diyabetik kardiyomiyopati  zerine etkileri. XXIV Ulusal Biyofizik Kongresi. 25-28 Eyl l, 2012, İstanbul,  zet: Bildiri Kitapığı, sayfa: 39.
38. Ayaz M., Tuncer T., Uđur M., Turan B, Sıan kalp kası elektrofizyolojik ve mekaniksel  zellikleri  zerine selenyumun in vitro etkileri. X. Ulusal Biyofizik Kongresi. 10-12 Eyl l, 1998, İstanbul.  zet: Bildiri Kitapığı (Poster), sayfa: 30.
39. Ayaz M., Can B,  zdemir S., Uđur M., Turan B. In vivo selenit uygulamasının diyabetik kardiyomiyopatiye pozitif etkisin elektron mikroskobu ile incelenmesi. XIII. Ulusal Biyofizik Kongresi, 5-7 Eyl l 2001, EskiŐehir, Bildiri  zetleri Kitapığı, sayfa: P1.
40. Ayaz M.,  zdemir S., Uđur M., Uđur  ., Turan B., Diyabetik sıan kalbi  -adrenosept r yanıtlarının molek ler mekanizması, 14, Ulusal Biyofizik Kongresi, 4-6 Eyl l 2002, Ankara,  zet Kitapığı (Poster) S: 34.
41.  zdemir S., Ayaz M., Uđur M., Turan B., Anjiyotensin resept r (AT1) antagonistinin diyabetik kardiyomiyopatiye etkisi, 14, Ulusal Biyofizik Kongresi, 4-6 Eyl l 2002, Ankara,  zet Kitapığı (Poster) S:36.
42. Ayaz M., Dalkılı N., BarıŐkaner H., Tuncer S., Demirel  . Selenit Toksisitesinin DiŐi Ve Erkek Sıan Kalp Dokusundaki Etkilerinin KarŐılaŐtırılması. 17, Ulusal Biyofizik Kongresi, 7-9 Eyl l 2005, İzmir,  zet Kitapığı (Poster) S:46.
43. Ayaz, M., E. Kiziltan, H. BarıŐkaner, S. Tuncer N. Dalkılı, The effects of selenium toxicity on the conduction velocity distribution of isolated rat sciatic nerve V. Ulusal Sinirbilimleri Kongresi, Neuroanatomy Vol5(1), 39, Zonguldak, 2006.

44. Ayaz, M., E. Kızıltan, S. Tuncer, H. Barışkaner, N. Dalkılıç, İ. Demirel, F. Pehlivan, Cinsiyet Farklılığının Sıçan Siyatik Siniri Hız Dağılımı Üzerine Etkisi XVIII. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S11, Ankara, 2006
45. Ayaz, M., N. Dalkılıç, S. Tuncer, H. Barışkaner, Effect of Selenium on the Compound Action Potentials of Rat Sciatic Nerve VI. Ulusal Sinirbilimleri Kongresi, Neuroanatomy, 6(1), 10, Zonguldak, 2007.
46. Küçükbağrıaçık Y, A. Zamani, G. Durakbaşı, Ayaz M., Kronik Sodyum Selenit Uygulamasının Diyabetle Bozulmuş Kv Protein Ekspresyonu Üzerine Etkileri XX. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S02, Mersin, 2008.
47. Ayaz M., N. Okudan Ön Melatonin Uygulamasının Akut Ağır Egzersiz Nedenli Sinir İletim Hız Dağılımı Değişimleri Üzerine Etkileri XX. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S02, Mersin, 2008
48. Ayaz M., S. Tuncer, N. Okudan, H. Göbel Diyabetik Sıçanlara Koenzim Q10 ve Alfa Lipoik Asit Uygulamasının Sinir İletim Hız Dağılımı Üzerine Etkileri XX. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S02, Mersin, 2008.
49. Ayaz M., A.Ö. Güney, M.F. Erdi, Y. Küçükbağrıaçık. Subaraknoid Kanama Modellerinde Gözlenen Kardiyak Değişimlerin Elektrofizyolojik Yöntemlerle İncelenmesi XX. Ulusal Biyofizik Kongresi, Bildiri Kitapçığı, S02, Mersin, 2008.
50. Ayaz M., Baştuğ M., Karaorman G., Uğur M., Turan B. Electrophysiological parameters of rat papillary muscle exposed to hyperbaric oxygen, International EUBS Congress, 28 August- 2 September 1999. Haifa and Eilat, Israel, Proceedings: 4-7.