

UĞUR AKSU

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-8026-2020

ScopusID: 57189699696

Yoksis Researcher ID: 55377

Learning Knowledge

Associate Degree 2023 - Continues	Istanbul University, Open And Distance Education Faculty, Computer Programming, Turkey
Undergraduate 2019 - 2023	Istanbul University, Open And Distance Education Faculty, Sociology, Turkey
Doctorate 2010 - 2015	Universiteit van Amsterdam, Academic Medical Centre, Clinical Physiology, Netherlands
Doctorate 2003 - 2009	Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey
Postgraduate 2000 - 2003	Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji Anabilim Dalı, Turkey
Undergraduate 1996 - 2000	Istanbul University, Faculty Of Science, Department of Biology, Turkey

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Health&Medicine, Biotek Synergy H1-M, Pera Medikal Ltd, 2012

Health&Medicine, Course on Laboratory Animal Science, Faculty of Veterinary Medicine, Utrecht University, 2009

Health&Medicine, Course on Neurobiology, Ege University, 2007

Health&Medicine, Course on Biostatistics, İzmir, 2005

Health&Medicine, III. Ege Biennial Int. Neuroscience Grd. Summer School, İzmir, 2004

Health&Medicine, PowerLab Training Course, Istanbul, 2004

Health&Medicine, Course on Cognitive Electrophysiology: ERP in the Evaluation of Cognitive Disorders,, İzmir, 2004

Dissertations

Doctorate, Renal perfusion and oxygenation during acute kidney injury, Universiteit van Amsterdam, Medicine, Physiology, 2015

Doctorate, Effects of B-3-agonists on Cardiovascular System and Adhesion Molecules in Hyperglycemic Rats., Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji Anabilim Dalı, 2009

Postgraduate, The Effects of Different Nitric Oxide Synthase Inhibitors upon Hemodynamic of Rats Received Lipopolysaccharide., Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji Anabilim Dalı , 2003

Academic Titles / Tasks

Professor 2019 - Continues	Istanbul University, Faculty of Science, Department of Biology
Associate Professor 2013 - 2019	Istanbul University, Faculty of Science, Department of Biology
Assistant Professor 2010 - 2011	Istanbul University, Faculty of Science, Department of Biology
Research Assistant PhD 2009 - 2010	Istanbul University, Faculty of Science, Department of Biology
Research Assistant 2000 - 2009	Istanbul University, Faculty of Science, Department of Biology

Supported Projects

- AKSU U., ÇAKIR M. U., Project Supported by Higher Education Institutions, Karaciğer İskemi Reperfüzyon Modelinde Optik Yöntemlerle Ölçülen Doku Metabolik Düzeyinin ve Oksijenlenmesinin Değerlendirilmesi, 2023 - Continues
- AKSU U., KARDUZ G., Project Supported by Higher Education Institutions, Sıçan Hemodilüsyon ve İskemi modelinde Böbrek Termal Analizi ve Mitokondri Fonksiyonu, 2022 - Continues
- Aksu U., TUBITAK Project, Mikrodolaşımsal oksijen satürasyonu ve nikotinamid adenin dinükleotit düzeylerinin in vivo hayvan modelinde ve karışık cerrahi hastalarında optik yöntemler kullanılarak ölçülmesi, 2024 - 2026
- Aksu U., Karduz G., Geçin M. N., Project Supported by Higher Education Institutions, Akut Böbrek Hasarında Endojenik Otofloresan Moleküllerin Değerlendirilmesi, 2023 - 2024
- AKSU U., KARDUZ G., Project Supported by Higher Education Institutions, Sıçan Kalp Nakli Modelinde Kardiyopleji Sıvılarının Verici Kalbi Üzerine Etkileri, 2018 - 2019
- AKSU U., ÇAKIR M. U., Project Supported by Higher Education Institutions, Sıçanlarda akut normovolemik ve hipervolemik hemodilüsyonun etkileri, 2018 - 2019
- AKSU U., VARDAR K., Project Supported by Higher Education Institutions, Comparative effects of fluid resuscitation on lung and heart oxidative injury in a rat model of hemorrhagic shock, 2017 - 2018
- AKSU U., VARDAR K., Project Supported by Higher Education Institutions, Sıçan hemorajik şok modelinde sıvı tedavilerinin böbrek üzerine etkileri, 2017 - 2018
- KALELİ DURMAN D., AKSU U., UYDEŞ DOĞAN B. S., YILMAZBAYHAN E. D., Project Supported by Higher Education Institutions, Isoproterenol İle Oluşturulan Deneysel Miyokardiyal İnfarktüs Modelinde S-Nitrosoglutatyonun

Kardiyak İskemi Üzerindeki Etkisinin İncelenmesi, 2012 - 2017

10. ÖNEM Z., AĞBULUT Y., AKSU U., Project Supported by Higher Education Institutions, Sistemik Arteriyel Kan Basıncının Lyapunov Üstelleri ile İncelenmesi, 2014 - 2016
11. AKSU U., Project Supported by Higher Education Institutions, EKSTRAKORPOREAL DOLAŞIMA GİRECEK HASTALARDA KARDİYOPELJİ TİPİ VE SIVI DENGESİ İLE SİALİK ASİT DÜZEYİ ARASINDAKİ İLİŞKİNİN ARAŞTIRILMASI, 2014 - 2015
12. GÜNER İ., AKYOL S., YAMAN M. O., AKSU U., UZUN H., YELMEN N., ŞAHİN E. G., Project Supported by Higher Education Institutions, Sıçanlarda infrarenal abdominal aorta iskemi/reperfüzyonunun neden olduğu akut akciğer hasarına karşı Timozin $\beta 4$ 'ün koruyucu etkisi, 2012 - 2014
13. AKSU U., Other International Funding Programs, Restoring homeostasis of O₂, NO, ROS, in the prevention of ischemic-induced acute kidney injury, 2009 - 2010
14. Demirci C., Akgün Dar K., Aksu U., Gürel E., Kandil A., Kapucu A., Uyaner İ., Project Supported by Higher Education Institutions, Diyabetik Hayvanların Farklı Dokularında Leptin, Nitrik Oksit İlişkisinin Fizyolojik ve İmmünohistokimyasal Olarak Araştırılması, 2004 - 2007

Awards

1. AKSU U., Sözlü Sunu Yarışmasında Üçüncülük, Göğüs Kalp Damar ve Yoğun Bakım Derneği, April 2019
2. AKSU U., Klinik Sözlü Sunu Yarışmasında İkincilik, Türkiye Anesteziyoloji Ve Reanimasyon Derneği, October 2016
3. AKSU U., Sözlü Sunu Yarışmasında İkincilik, Göğüs Kalp Damar ve Yoğun Bakım Derneği, March 2016
4. AKSU U., Sözlü Sunu Yarışmasında Birincilik, Göğüs Kalp Damar ve Yoğun Bakım Derneği, April 2014
5. AKSU U., Klinik Sözlü Yarışmasında İkincilik, Türkiye Anesteziyoloji Ve Reanimasyon Derneği, November 2013
6. AKSU U., Sözlü Sunu Yarışmasında Üçüncülük, Göğüs Kalp Damar ve Yoğun Bakım Derneği, May 2013
7. GÜNER İ., AKSU U., Prof. Dr. Meliha Terzioğlu 40. yıl bilim ödülü, Türkiye Solunum Araştırmaları Derneği, October 2010
8. AKSU U., IUPS Travel Award, The American Physiological Society, April 2005

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, İstanbul Üniversitesi, March, 2016

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, İstanbul Üniversitesi, May, 2015

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, İstanbul Üniversitesi, March, 2015

Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, May, 2014

Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, May, 2014

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Hypervolemia suppresses dilutional anaemic injury in a rat model of haemodilution**
Cakir M. U., Yavuz B., Aksu U.
JOURNAL OF TRANSLATIONAL INTERNAL MEDICINE, vol.11, no.4, pp.393-400, 2023 (SCI-Expanded)
2. **Intra-renal microcirculatory alterations on non-traumatic hemorrhagic shock induced acute kidney injury in pigs**
Ergin B., van Rooij T., Lima A., Ince Y., Specht P. A., Mik B., AKSU U., Yavuz-Aksu B., Kooiman K., de Jong N., et al.
Journal of Clinical Monitoring and Computing, vol.37, no.5, pp.1193-1205, 2023 (SCI-Expanded)
3. **Effect of different priming fluids on extravascular lung water, cell integrity and oxidative stress in cardiopulmonary bypass surgery.**
Ulugöl H., Can M. G., Aksu U., Vardar K., Ökten M., Toraman F.
Cardiovascular journal of Africa, vol.34, pp.1-5, 2023 (SCI-Expanded)

4. **Manipulation of Nitric Oxide Levels via a Modified Hydroxyethyl Starch Molecule**
Aksu U., Ince C., Baasner S., Hermle J., Lupp C., Heckmann D., Nocken F., Westphal M.
Journal of Surgical Research, vol.281, pp.1-12, 2023 (SCI-Expanded)
5. **Microcirculatory Response to Blood vs. Crystalloid Cardioplegia During Coronary Artery Bypass Grafting With Cardiopulmonary Bypass**
Aykut G., Ulugoel H., Aksu U., Akin S., Karabulut H., ALHAN C., TORAMAN F., Ince C.
FRONTIERS IN MEDICINE, vol.8, 2022 (SCI-Expanded)
6. **Are surgical and non-operating room intervention safe in the COVID-19 pandemic?: a retrospective study.**
Aktas Yildirim S., Sarikaya Z. T., Ulugol H., Ozata S., Aksu U., Toraman F.
Epidemiology and infection, vol.149, pp.1511-1517, 2021 (SCI-Expanded)
7. **Effects of short-term hyperoxic ventilation on lung, kidney, heart, and liver in a rat model: A biochemical evaluation**
Aksu U., ULUGOL H., Sungur M. O., Senturk E., Vardar K., Senturk M., TORAMAN F.
ULUSAL TRAVMA VE ACIL CERRAHI DERGISI-TURKISH JOURNAL OF TRAUMA & EMERGENCY SURGERY, vol.27, no.5, pp.497-503, 2021 (SCI-Expanded)
8. **Remote organ ischaemic preconditioning in human recipients suppresses systemic inflammation and prevents glycocalyx degradation in living-donor liver transplantation A randomised controlled trial**
Tosun M., GÜNER CAN M., AKSU U., EMİROĞLU R., TORAMAN F.
EUROPEAN JOURNAL OF ANAESTHESIOLOGY, vol.38, no.6, pp.667-669, 2021 (SCI-Expanded)
9. **Effects of upper limb ischemia-reperfusion on regional oxidative stress during aortic surgery with moderate hypothermia**
Balci E., Demir Z. A., Ozay H. Y., Vardar K., Karduz G., Aksu U., Unal E. U., Ozgok A.
JOURNAL OF CARDIAC SURGERY, vol.36, no.4, pp.1361-1369, 2021 (SCI-Expanded)
10. **St. Thomas and del Nido cardioplegia are superior to Custodiol cardioplegia in a rat model of donor heart**
Karduz G., Yaman M. O., Altan M., Sahin G., TORAMAN F., AKSU U.
SCANDINAVIAN CARDIOVASCULAR JOURNAL, vol.55, no.2, pp.122-128, 2021 (SCI-Expanded)
11. **Evaluation of acute kidney injury with oxidative stress biomarkers and Renal Resistive Index after cardiac surgery.**
KARARMAZ A., ARSLANTAS M., Aksu U., ULUGÖL H., CINEL I., TORAMAN F.
Acta chirurgica Belgica, pp.1-9, 2019 (SCI-Expanded)
12. **The Protective Effects of Thymosin- β -4 in a Rat Model of Ischemic Acute Kidney Injury.**
Aksu U., YAMAN O., GUNER I., GUNTAS G., SONMEZ F., TANRIVERDI G., ESER M., CAKIRIS A., AKYOL S., SEÇKİN İ., et al.
Journal of investigative surgery : the official journal of the Academy of Surgical Research, pp.1-9, 2019 (SCI-Expanded)
13. **Perioperative risk factors of acute kidney injury after non-cardiac surgery: A multicenter, prospective, observational study in patients with low grade American Society of Anesthesiologists physical status**
İYİGÜN M., Aykut G., Tosun M., KILERCIK M., Aksu U., Guder T., TORAMAN F.
AMERICAN JOURNAL OF SURGERY, vol.218, no.3, pp.457-461, 2019 (SCI-Expanded)
14. **Visceral oxidative stress during antegrade cerebral perfusion and lower body circulatory arrest.**
ÜNAL E., KUBAT E., Soran T., KIRIŞ E., DEMİR A., AYTEKİN B., AKKAYA B., Aksu U., AKSÖYEK A.
Acta chirurgica Belgica, vol.119, pp.217-223, 2019 (SCI-Expanded)
15. **Protective Effect of Thymosin 4 against Abdominal Aortic Ischemia-Reperfusion-Induced Acute Lung Injury in Rats**
YAMAN O. M., Guner I., GUNTAS G., Sonmez O. F., Tanriverdi G., Cakiris A., Aksu U., Akyol S., Guzel E., Uzun H., et al.
MEDICINA-LITHUANIA, vol.55, no.5, 2019 (SCI-Expanded)
16. **Biochemical markers decrease and increase disproportionately in A1 pulley tissue of type 2 diabetic trigger finger patients**

Alp N. B., AKDAĞ G., KARDUZ G., VARDAR K., AKSU U.

EKLEM HASTALIKLARI VE CERRAHISI-JOINT DISEASES AND RELATED SURGERY, vol.30, no.2, pp.117-123, 2019 (SCI-Expanded)

17. **İdrar Parsiyel Oksijen Basıncı, Doku Perfüzyonunun Göstergesi Olabilir Mi?**
TOSUN M., ULUGÖL H., AKSU U., TORAMAN F.
Türk Anesteziyoloji ve Reanimasyon Derneği Dergisi, vol.TARD-89083, pp.89083, 2019 (SCI-Expanded)
18. **Comparative Effects of Blood and Crystalloid Cardioplegia on Cellular Injury and Oxidative Stress in Cardiovascular Surgery**
ULUGOL H., AKSU U., KOÇYİĞİT M., KILERCİK M., KARDUZ G., OKTEN M., TORAMAN F.
ANNALS OF THORACIC AND CARDIOVASCULAR SURGERY, no.1, pp.10-17, 2019 (SCI-Expanded)
19. **Evaluation of serum ischemia-modified albumin levels in anemia of prematurity.**
EROL S., UNAL S., DEMIREL N., KULALI F., ISIK D., AKSU U., BAS A.
The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians, vol.31, pp.3133-3138, 2018 (SCI-Expanded)
20. **Identification and quantification of human microcirculatory leukocytes using handheld video microscopes at the bedside.**
UZ Z., VAN G., AYDEMIRLI M., GUERCI P., INCE Y., CUPPEN D., ERGIN B., AKSU U., DE M., INCE C. H.
Journal of applied physiology (Bethesda, Md. : 1985), vol.124, pp.1550-1557, 2018 (SCI-Expanded)
21. **dilutional anemia induces renal dysfunction in diabetic patients undergoing coronary artery bypass grafting: a consequence of microcirculatory alterations?**
AYKUT G., KILERCİK M., ANTURK C., ULUGOL H., AKSU U., KUDSIOĞLU T., ATALAN N., YAPICI N., KARABULUT H., TORAMAN F.
JOURNAL OF NEPHROLOGY, vol.31, no.3, pp.417-422, 2018 (SCI-Expanded)
22. **Remote myocardial injury: the protective role of fluoxetine.**
YAMAN O., ERMAN H., GÜNER İ., TOK O., PALA M., ESREFOĞLU M., GELİSGEN R., UZUN H., AKSU U., YELMEN N., et al.
Canadian journal of physiology and pharmacology, vol.96, pp.319-327, 2018 (SCI-Expanded)
23. **Investigation of PhiKZ phage therapy against Pseudomonas aeruginosa in mouse pneumonia model**
CAN K., AKSU U., YENEN O. S.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.48, no.3, pp.670-678, 2018 (SCI-Expanded)
24. **Effect of Alprazolam on Redox Status in Renal Transplantation Donors and Recipients**
CAN M. G., KOCYİĞİT O. İ., AKSU U., ÖZER A., TORAMAN F.
ANNALS OF TRANSPLANTATION, vol.22, pp.354-360, 2017 (SCI-Expanded)
25. **Unilateral Antegrade Cerebral Perfusion and Moderate Hypothermia: Assessing Safety With Novel Biomarkers**
AYTEKİN B., UNAL E. U., DEMİR A., AKSU U., CALISKAN A., VARDAR K., TORAMAN F., SARITAS A.
HEART LUNG AND CIRCULATION, vol.26, no.5, pp.495-503, 2017 (SCI-Expanded)
26. **A comparison between the measurements of arterial lactate and mixed venous oxygen saturation for the evaluation of tissue perfusion after coronary artery bypass grafting**
OKTEN M., ULUGOL H., ANTURK C., TOSUN M., AKSU U., KARABULUT H., TORAMAN F.
TURK GOGUS KALP DAMAR CERRAHISI DERGISI-TURKISH JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY, vol.24, no.4, pp.645-650, 2016 (SCI-Expanded)
27. **Gender and chronological age affect erythrocyte membrane oxidative indices in citrate phosphate dextrose adenine-formula 1 (CPDA-1) blood bank storage condition.**
ERMAN H., AKSU U., BELCE A., ATUKEREN P., UZUN D., ÇEBE T., KANSU A. D., GELİSGEN R., USLU E., AYDIN S., et al.
General physiology and biophysics, vol.35, no.3, pp.343-51, 2016 (SCI-Expanded)
28. **Ischemia modified albumin: does it change during pneumoperitoneum in robotic prostatectomies?**
ÖZGEN S. U., ÖZVEREN B., KILERCİK M., AKSU U., AY B., TÜFEK İ., KURAL A. R., TURKERİ L. N., TORAMAN F.
INTERNATIONAL BRAZ J UROL, vol.42, no.1, pp.69-77, 2016 (SCI-Expanded)
29. **Evaluation of microcirculation with tissue oxygen saturation monitoring in open heart surgery**
KART J. S., ULUGOL H., ARITÜRK C., AKSU U., OKTEN M., KARABULUT H., TORAMAN F.
TURK GOGUS KALP DAMAR CERRAHISI DERGISI-TURKISH JOURNAL OF THORACIC AND CARDIOVASCULAR

SURGERY, vol.23, no.4, pp.651-657, 2015 (SCI-Expanded)

30. **Comparative effects of hemodilutional anemia and transfusion during cardiopulmonary bypass on acute kidney injury: a prospective randomized study.**
ARITÜRK C., OZGEN Z., KILERCIK M., ULUGÖL H., ÖKTEN E., Aksu U., KARABULUT H., TORAMAN F.
The heart surgery forum, vol.18, 2015 (SCI-Expanded)
31. **The effects of fluoxetine on circulating oxidative damage parameters in rats exposed to aortic ischemia-reperfusion**
Erman H., Guner I., Yaman M. O., Uzun D. D., Gelisgen R., Aksu U., Yelmen N., Sahin G., Uzun H.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.749, pp.56-61, 2015 (SCI-Expanded)
32. **Fluoxetine ameliorates imbalance of redox homeostasis and inflammation in an acute kidney injury model**
Aksu U., Guner I., Yaman O. M., Erman H., Uzun D., Sengezer-Inceli M., Sahin A., Yelmen N., Gelisgen R., Uzun H., et al.
JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY, vol.70, no.4, pp.925-934, 2014 (SCI-Expanded)
33. **EFFECT OF TEMPOL ON REDOX HOMEOSTASIS AND STRESS TOLERANCE IN MIMETICALLY AGED DROSOPHILA**
Aksu U., Yanar K., Terzioğlu D., Erkol T., Ece E., Aydın S., Uslu E., Cakatay U.
ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY, vol.87, no.1, pp.13-25, 2014 (SCI-Expanded)
34. **The effect of fluoxetine on ischemia-reperfusion after aortic surgery in a rat model**
Guner I., Yaman M. O., Aksu U., Uzun D., Erman H., Inceli M., Gelisgen R., Yelmen N., Uzun H., Sahin G.
JOURNAL OF SURGICAL RESEARCH, vol.189, no.1, pp.96-105, 2014 (SCI-Expanded)
35. **The acute effects of acetate-balanced colloid and crystalloid resuscitation on renal oxygenation in a rat model of hemorrhagic shock**
Almac E., Aksu U., Bezemer R., Jong W., Kandil A., YÜRÜK K., Demirci-Tansel C., İNCE C.
RESUSCITATION, vol.83, no.9, pp.1166-1172, 2012 (SCI-Expanded)
36. **Reply to: crystalloid resuscitation in hemorrhagic shock**
AKSU U., Bezemer R., Ince C.
RESUSCITATION, vol.83, no.8, 2012 (SCI-Expanded)
37. **Balanced vs unbalanced crystalloid resuscitation in a near-fatal model of hemorrhagic shock and the effects on renal oxygenation, oxidative stress, and inflammation**
Aksu U., BEZEMER R., Yavuz B., Kandil A., Demirci C., İNCE C.
RESUSCITATION, vol.83, no.6, pp.767-773, 2012 (SCI-Expanded)
38. **ACUTE EFFECTS OF BALANCED VERSUS UNBALANCED COLLOID RESUSCITATION ON RENAL MACROCIRCULATORY AND MICROCIRCULATORY PERFUSION DURING ENDOTOXEMIC SHOCK**
Aksu U., BEZEMER R., Demirci C., İNCE C.
SHOCK, vol.37, no.2, pp.205-209, 2012 (SCI-Expanded)
39. **ATORVASTATIN IMPROVES DEVELOPMENT OF PENTYLENTETRAZOL-INDUCED KINDLING, LEARNING AND MEMORY DISORDERS IN RATS**
Uzum G., Akgun-Dar K., Aksu U.
JOURNAL OF PHYSIOLOGICAL SCIENCES, vol.59, pp.368, 2009 (SCI-Expanded)
40. **Intracerebroventricular serotonin reduces the degree of acute hypoxic ventilatory depression in peripherally chemodenervated rabbits**
Guner I., Sahin G., Yelmen N. K., Aksu U., Oruc T., Yildirim Z.
CHINESE JOURNAL OF PHYSIOLOGY, vol.51, no.3, pp.136-145, 2008 (SCI-Expanded)
41. **Sex differences in modulating blood brain barrier permeability by NO in pentylenetetrazol-induced epileptic seizures**
Diler A. S., Uzum G., Dar K. A., Aksu U., Atukeren P., Ziyilan Y. Z.
LIFE SCIENCES, vol.80, no.14, pp.1274-1281, 2007 (SCI-Expanded)

1. **Monitoring tissue perfusion during extracorporeal circulation with laser speckle contrast imaging**
ULUGOL H., Tosun M., AKSU U., Erkek E., Guclu P., Okten M., TORAMAN F.
Marmara Medical Journal, vol.36, no.3, pp.339-343, 2023 (ESCI)
2. **Fluid Resuscitation Aggravates the Cellular Injury in a Hemorrhagic Shock Model**
Vardar K., Can K., Aksu U.
DUBAI MEDICAL JOURNAL, vol.5, no.2, pp.141-150, 2022 (Peer-Reviewed Journal)
3. **Retrograde autologous priming method reduces plasma free hemoglobin level in aortic surgery.**
Balci E., Aykut A., Demir A., Vardar K., Karduz G., Aksu U.
Annals of cardiac anaesthesia, vol.24, no.4, pp.427-433, 2021 (ESCI)
4. **Can Partial Oxygen Pressure of Urine be an Indicator for Tissue Perfusion?**
Tosun M., ULUGOL H., Aksu U., TORAMAN F.
TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION, vol.47, no.3, pp.187-191, 2019 (ESCI)
5. **Effects of Alprazolam and Melatonin Used for Premedication on Oxidative Stress, Glicocalyx Integrity and Neurocognitive Functions**
Can M. G., ULUGOL H., GÜNEŞ I., Aksu U., Tosun M., Karduz G., Vardar K., TORAMAN F.
TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION, no.3, pp.233-237, 2018 (ESCI)
6. **Scavenging reactive oxygen species using tempol in the acute phase of renal ischemia/reperfusion and its effects on kidney oxygenation and nitric oxide levels**
AKSU U., Ergin B., BEZEMER R., Kandil A., Milstein D. M., DEMİRCİ TANSEL C., İNCE C.
INTENSIVE CARE MEDICINE EXPERIMENTAL, vol.3, no.21, pp.1-10, 2015 (ESCI)
7. **Doku Oksijenlenmesi ve Perfüzyon Monitörizasyonu**
AKSU U., Toraman F.
Türkiye Klinikleri J Anesthesiology and Reanimation-Special Topics, vol.8(1), pp.8-14, 2015 (Peer-Reviewed Journal)
8. **Bis maltolato oxovanadium (BMOV) and ischemia/reperfusion-induced acute kidney injury in rats**
ALMAC E., BEZEMER R., KANDİL A., AKSU U., Milstein D. M., Bakker J., DEMİRCİ TANSEL C., İNCE C.
INTENSIVE CARE MEDICINE EXPERIMENTAL, vol.2, no.3, pp.1-9, 2014 (ESCI)
9. **Effect of Dexamethasone in Mediating Oxidative Stress Induced by Sodium Nitroprusside on Frog Sciatic Nerve Action Potentials**
AKSU U., Atukeren P., Terzioğlu D., Belce A., Demirci-Tansel C.
BEZMIALEM SCIENCE, vol.1, no.1, pp.21-27, 2013 (ESCI)
10. **Anesteziye tavşanlarda santral serotoninin solunum düzenlenmesindeki rolü**
Güner İ., SAHİN G., YELMEN N., AKSU U., Oruç T., Yıldırım Z.
CERRAHPAŞA TIP DERGİSİ, vol.4, pp.98-102, 2006 (Peer-Reviewed Journal)

Books & Book Chapters

1. **RENAL PERFUSION AND OXYGENATION DURING ACUTE KIDNEY INJURY**
AKSU U.
Netzdruk Groningen Bv, Groningen, 2015
2. **The Pathogenesis of Acute Kidney Injury and the Toxic Triangle of Oxygen, Reactive Oxygen Species and Nitric Oxide**
AKSU U., DEMİRCİ TANSEL C., İNCE C.
in: Controversies in Acute Kidney Injury, Kellum JA, Ronco C, Vincent J-L, Editor, Karger Ag, Switzerland, pp.119-128, 2011

Refereed Congress / Symposium Publications in Proceedings

1. **Konvansiyonel Kardiyopulmoner Baypas ve Retrograd Otolog Priming'in Plazma Free**

HemoglobinSeviyelerine Etkileri

BALCI E., AYKUT A., Demir Z. A., VARDAR K., KARDUZ G., AKSU U.

Türk Anesteziyoloji ve Reanimasyon Derneği 53. Ulusal Kongresi, Antalya, Turkey, 07 November 2019

2. **Aort cerrahisinde, hipotermik iskeminin, insan iskelet kası üzerindeki etkilerinin Near-infraredspektroskopi ve oksidatif markerler ile değerlendirilmesi**
BALCI E., Demir Z. A., YİĞİT ÖZAY H., VARDAR K., KARDUZ G., ÜNAL E. U., AKSU U., ÖZGÖK A.
Türk Anesteziyoloji ve Reanimasyon Derneği 53. Ulusal Kongresi, Antalya, Turkey, 07 November 2019
3. **Laparoskopik Cerrahilerde İntraoperatif Farklı Oksijen İspirasyon Fraksiyonlarının Glikokaliks Hasarı Üzerine Etkisi**
, Dinç Doğan T., Sivrikoz N., Turhan Ö., Aksu U., Şentürk N. M.
53. Ulusal Anesteziyoloji ve Reanimasyon Derneği Kongresi, Antalya, Turkey, 7 - 10 November 2019, pp.1-2
4. **St. Thomas, del Nido ve Custodial Kardiyopleji Sıvıları'nın in vitro insan Akciğer Hücre Kültüründeki Etkilerinin Gerçek Zamanlı Olarak Değerlendirilmesi**
KARDUZ G., ÇETİN İ., TOPÇUL M. R., ULUGÖL H., AKSU U., TORAMAN F.
25. Ulusal Göğüs Kalp Damar Anestezi Yoğun Bakım Kongresi, İstanbul, Turkey, 20 - 22 April 2019, vol.1, no.1, pp.1-3
5. **Urine partial oxygen pressure as early marker of acute kidney injury after paediatric cardiac surgery**
TOSUN M., Ulugöl H., Kırat B., Kilercik M., Erkek E., AKSU U., Alhan C., Toraman F.
32nd EACTA Annual Congress, Berlin, Germany, 19 April - 21 December 2018
6. **Elimination of hydroxyethyl starch (HES) when used as colloid priming in cardiovascular surgery**
Ulugöl H., Toraman F., KARDUZ G., Alhan C., Vardar K., TOSUN M., AKSU U., Kilercik M., Senturk M., OKTEN M.
32nd Annual Congress European Association of Cardiothoracic Anaesthesiology, Berlin, Germany, 19 - 21 April 2018, pp.16
7. **Effects of pulmonary resections on endothelial glycocalix (preliminary results)**
Sungur Z., Yornuk M., Turhan Ö., AKSU U., Toraman F., Senturk M.
32nd EACTA Annual Congress, Berlin, Germany, 19 - 21 April 2018
8. **Comparative effects of fluid resuscitation on lung and heart oxidative injury in a rat model of hemorrhagic shock**
Vardar K., Aksu U.
International Fluid Academy Days , Antwerp, Belgium, 23 - 25 November 2017, vol.5, no.32, pp.107
9. **Effects of pulmonary resections on endothelial glycocalix (preliminary results)**
Sungur Z., Turhan Ö., Aksu U., Toraman F., Şentürk N. M.
EACTA2017 - 32ND EACTA ANNUAL CONGRESS, Berlin, Germany, 19 - 21 April 2017, vol.31, pp.1-33
10. **The effect of S-nitrosoglutathione (GSNO) in a rat model of isoproterenol induced myocardial infarction**
KALELİ DURMAN D., Aksu U., Terzioğlu D., İkbāl Barış I., Yılmazbayhan D., UYDEŞ DOĞAN B. S.
7th European Congress of Pharmacology, İstanbul, Turkey, 26 - 30 June 2016, pp.60
11. **Different priming solution effects on interstitial lung edema and oxidative stress parameters**
Ulugöl H., Karabulut H., AKSU U., OKTEN M., TOSUN M., Kilercik M., Toraman F.
31st EACTA Annual Congress, Basel, Switzerland, 11 - 13 May 2016, pp.10
12. **The chaotic behaviour of cardiovascular system during open heart surgery.**
TOSUN M., Ulugöl H., Ağbulut Y., AKSU U., Toraman F.
31st Annual Congress European Association of Cardiothoracic Anaesthesiology, Basel, Switzerland, 11 - 13 May 2016
13. **Optimization Of Oxidative Stress Parameters In Drosophila Melanogaster**
YANAR K., ÇAKATAY U., ATUKEREN P., AKSU U., AYDIN S.
XXV.Ulusal Biyokimya Kongresi, İzmir, Turkey, 3 - 06 September 2014, pp.331
14. **Fizyolojik Sistemlerde Kaotik Özellikler (Sıçanlarda)**
Ağbulut Y., AKSU U., Akdeniz G.
30th International Physics Congress, İstanbul, Turkey, 1 - 03 September 2013, pp.298

15. **Fluoxetine reduces the lung injury induced by infrarenal abdominal aortic ischemia-reperfusion in rats**
ŞAHİN E. G., GÜNER İ., Yaman M. O., Uzun D., ERMAN H., YELMEN N., İNCELİ M., AKSU U., Gelisgen R., UZUN H.
37th International Union of Physiological Sciences (IUPS) Congress, Birmingham, United Kingdom, 21 - 26 July 2013, pp.683
16. **The effects of balanced and unbalanced colloid and crystalloid solutions on renal microvascular perfusion in endotoxemic rats.**
AKSU U., DEMİRCİ TANSEL C., İNCE C.
31st ISICEM (International Symposium on Intensive Care and Emergency Medicine), Brussels, Belgium, 1 - 04 March 2010, pp.1
17. **Mesenteric Blood Flow Can Be Affected by Aminoguanidine during Sepsis. Experimental Biology/IUPS, Late Breaking Abstracts**
DEMİRCİ TANSEL C., İNCE C., AKSU U.
XXXV International Congress of Physiological Sciences, United States Of America, 1 - 04 April 2005, pp.11

Other Publications

1. **Reply to: crystalloid resuscitation in hemorrhagic shock.**
AKSU U., Bezemer R., İNCE C.
Technical Report, 2012

Academic and Administrative Experience

2021 - Continues	Head of Department	Istanbul University, Faculty Of Science, Department of Biology
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Courses

Biomedical Technology, Undergraduate, 2023 - 2024
Klinik Araştırmalar, Undergraduate, 2018 - 2019
Kişisel Proje, Undergraduate, 2018 - 2019
Hücre ve Moleküler Biyoloji Araştırmaları 1, Undergraduate, 2018 - 2019
İnsan Anatomisi ve Fizyolojisi, Undergraduate, 2017 - 2018
Hücre ve Moleküler Biyoloji Araştırmaları 2, Undergraduate, 2018 - 2019
Biyomedikal Cihaz Uygulamaları, Doctorate, 2018 - 2019
İnsan Sistemleri Ve Fonksiyonları, Undergraduate, 2016 - 2017
Hayvan Fizyolojisi, Undergraduate, 2014 - 2015
Mesleki İngilizce I, Undergraduate, 2014 - 2015, 2010 - 2011
Deney Hayvanlarında Modelleme, Postgraduate, 2014 - 2015
Sinir Sisteminde Seçme Konular, Postgraduate, 2014 - 2015
Mesleki İngilizce II, Undergraduate, 2013 - 2014

Advising Theses

Aksu U., Evaluation of microcirculation with a visible light camera, Doctorate, K.VARDAR(Student), 2023
Aksu U., Spectroscopic demonstration of the effects of continuous and pulsed light on proteins, Postgraduate, H.Aray(Student), 2023
AKSU U., Sıçanlarda Akut Normovolemik ve Hipervolemik Hemodilüsyonun Etkileri, Postgraduate, U.Çakır(Student), 2019

AKSU U., Sıçan kalp nakli modelinde kardiyopleji sıvılarının verici kalbi üzerine etkileri, Postgraduate, G.Karduz(Student), 2018
AKSU U., Sıçan hemorajik şok modelinde sıvı tedavilerinin böbrek üzerindeki etkileri, Postgraduate, K.Vardar(Student), 2017

Scientific Refereeing

Trends in Medicine, Other Indexed Journal, July 2018
Cell Biology International, SCI Journal, November 2013
Cell Biology International, SCI Journal, October 2013
Cell Biology International, SCI Journal, September 2013
Cell Biology International, SCI Journal, August 2013
Cell Biology International, SCI Journal, May 2013
Cell Biology International, SCI Journal, March 2013

Tasks In Event Organizations

Aksu U., KRİTİK DURUMLARDA MONİTÖRİZASYON VE SIVI TEDAVİSİ LABORATUVAR ÇALIŞTAYI, Workshop Organization, Turkey, Nisan 2019
Aksu U., BİR DENEYSEL ÇALIŞMA NASIL PLANLANIR, YAPILIR VE NASIL YAZILIR ? YUVARLAK MASA TOPLANTISI, Workshop Organization, Turkey, Ekim 2018
Aksu U., Hemodinami Laboratuvar Çalıştayı, Workshop Organization, Turkey, Mayıs 2017
Aksu U., KRİTİK DURUMLARDA MONİTÖRİZASYON VE SIVI TEDAVİSİ LABORATUVAR ÇALIŞTAYI, Workshop Organization, Turkey, Ocak 2017
Aksu U., KRİTİK DURUMLARDA MONİTÖRİZASYON VE SIVI TEDAVİSİ LABORATUVAR ÇALIŞTAYI, Workshop Organization, İstanbul, Turkey, Ekim 2016

Metrics

Publication: 71
Citation (WoS): 243
Citation (Scopus): 259
H-Index (WoS): 8
H-Index (Scopus): 8

Congress and Symposium Activities

The Meeting of Asian Society of Paediatric Anaesthesiologists, Attendee, İstanbul, Turkey, 2014
Göğüs-Kalp Damar Anestezi ve Yoğun Bakım Derneği XX. Ulusal Kongresi, Attendee, Muğla, Turkey, 2014
30th Int. Physics Congress, Attendee, İstanbul, Turkey, 2013
IUPS 2013, Attendee, Birmingham, United Kingdom, 2013
Göğüs-Kalp Damar Anestezi ve Yoğun Bakım Derneği XIX. Ulusal Kongresi, Attendee, Trabzon, Turkey, 2013
21. Ulusal Biyoloji Kongresi, Attendee, İzmir, Turkey, 2012

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology, Surgery Medicine Sciences, Anesthesiology,

Life Sciences, Animal Biology, Animal Physiology, Natural Sciences

Non Academic Experience

- Amsterdam Universitesi
- Amsterdam Universitesi
- Amsterdam Universitesi
- Amsterdam Universitesi
- Amsterdam Universitesi