

ÖZGEÇMİŞ

1. Adı Soyadı : Tunç ÇATAL
2. Doğum Yeri ve Tarihi: Almanya / 1980
3. Unvanı : Prof. Dr.

4. Öğrenim Durumu:

Derece	Bölüm/Program	Üniversite/Kurum	Yıl
Lisans	Biyoloji Bölümü	İstanbul Üniversitesi	2001
Y. Lisans	Biyoloji Bölümü	İstanbul Üniversitesi	2004
Doktora	Moleküler Biyoloji-Genetik ve Biyoteknoloji	İstanbul Teknik Üniversitesi	2008

5. Akademik Unvanlar:

Unvan	Bölüm/Program	Üniversite/Kurum	Yıl
Ziyaretçi Araştırmacı	Biyoloji ve Ekoloji Mühendisliği	Oregon Devlet Üniversitesi, A.B.D.	2006-2008
Doktora Üstü Araştırmacı	Kimya-Mikrobiyoloji	İrlanda Ulusal Üniversitesi, Galway	2008-2010
Yardımcı Doçent	Moleküler Biyoloji ve Genetik	Üsküdar Üniversitesi	2012-2013
Doçent	Moleküler Biyoloji ve Genetik	Üsküdar Üniversitesi	2013-2018
Doçent (2. alan)	Biyomühendislik	T.C. Üniversitelerarası Kurul	2018
Profesör	Moleküler Biyoloji ve Genetik	Üsküdar Üniversitesi	2018-halen

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri

- Özakman, G., Üsküdar Üniversitesi, Fen Bilimleri Ens. (2015-2018)
Akagunduz, D., Üsküdar Üniversitesi, Fen Bilimleri Ens. (2018-2020)
Cebecioglu, R., Üsküdar Üniversitesi, Fen Bilimleri Ens. (2018-2020)

6.2. Doktora Tezleri

- Zhmurov, Ç.S., İTÜ Fen Bilimleri Enstitüsü, İleri Teknolojiler A.B.D. (Eş danışman, 2012-2016)

7. Yayınlar

Patentler

1. F. Ozkok, Y.M. Sahin, V. Enisoglu-Atalay, K. Asgarova, N. Onul, T. Catal, A NOVEL REAGENT, CATAL'S REAGENT, AND KIT FOR USING IRON SULPHATE DETERMINATION BY COLORIMETRIC METHOD, Patent application (Turkish Patent and Trademark Office, PY2019-00552; PCT International Application, No: PCT/TR2020/050061– submitted).

2. **Catal, T.**, Enisoğlu-Atalay, V., Atasever-Arslan, B., Cebecioğlu, R., Yaman, Y., Kul, A., Ozilhan, S., Biological Quercetin Production. Turkish Patent and Trademark Office, 2018/00883.
3. Atasever-Arslan, B., Akdogan, E., Cakmak Cebeci, F., **Catal, T.** Electricity Generation Using Human Neuronal-like Cells in Fuel Cells to Power Light Emitting Diodes, European Patent Office, 2018 (PCT/TR20181050767).
4. Karakus, B.Z., Korkmaz, I., Demirci, K., Arslan, K.S., Unlu, O., **Catal, T.**, Bioinsecticide Compositions. Turkish Patent and Trademark Office, 2018/09310.

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler

1. Atasever-Arslan, B., Akdogan, E., Cakmak Cebeci, F., **Catal, T.** Bioelectricity generation using human neuronal-like cells in single chamber biofuel cells, *Journal of Cleaner Production*, 2020 (accepted).
2. F. Ozkok, Y.M. Sahin, V. Enisoglu-Atalay, K. Asgarova, N. Onul, T. Catal, Sensitive Detection of Iron (II) Sulfate with a Novel Reagent using Spectrophotometry, *Spectrochimica Acta A*, 2020 (accepted).
3. Funda Ozkok, Yesim Muge Sahin, Vildan Enisoglu Atalay, Kamala Asgarova, Nihal Onul, Tunc Catal, Dataset on Catal's reagent: Sensitive detection of iron (II) sulfate using spectrophotometry, 2020, *Data in Brief* (accepted).
4. Sen, P., Akagunduz, D., Aghdam, A.S., Cebeci, F.Ç., Nyokong, T., **Catal, T.**, Synthesis of Novel Schiff Base Cobalt (II) and Iron (III) Complexes as Cathode Catalysts for Microbial Fuel Cell Applications. 2019, *Journal of Inorganic and Organometallic Polymers and Materials*, doi: 10.1007/s10904-019-01286-x.
5. **Catal, T.**, Kul, A., Enisoglu-Atalay, V., Bermek, H., Ozilhan, S., Tarhan, N., Efficacy of microbial fuel cells for sensing of cocaine metabolites in urine-based wastewater. 2019, *Journal of Power Sources* 414, 1-7.
6. Ozdemir, M., Enisoglu-Atalay, V., Bermek, H., Ozilhan, S., Tarhan, N., **Catal, T.**, Removal of cannabis metabolite from human urine in microbial fuel cells generating electricity. 2019, *Bioresource Technology Reports* 5, 121-126.
7. Atasever-Arslan, B., Ozen, F., **Catal, T.**, Akalin, E., Resin extract obtained from Cilician fir (*Abies cilicica*) inhibits glucose dependent inflammation in vitro. 2019, *J Exp Ther Oncol* 13(1): 23-31.
8. Tunali, S., **Catal, T.**, Bolkent S, Yanardag R., The effects of vitamins and selenium mixture against brain tissue induced by d-galactosamine, 2019 *Journal of Biochemical and Molecular Toxicology*, e22347. doi: 10.1002/jbt.22347.
9. Cebecioğlu, R., Yildirim, M., Akagunduz, D., Korkmaz, I., Tekin, H.O., Atasever-Arslan, B., **Catal, T.**

Synergistic effects of quercetin and selenium on oxidative stress in endometrial adenocarcinoma cells, Bratislava Medical Journal, 2019, No. 317/2019 DOI 10.4149/BLL_2019_72.

10. Kigili, F., Ozen, F., **Catal, T.**, Atasever-Arslan, B., Androgen receptor (NR3C4) regulator potential of *Ceratonia siliqua* extract and its signalling pathways. 2019, Pharmacognosy Magazine, 15 (62), 1-4.
11. Enisoglu-Atalay, V., Atasever-Arslan, B., Yaman, B., Cebecioglu, R., Kul, A., Ozilhan, S., Ozen, F., **Catal, T.**, Chemical and molecular characterization of metabolites from *Flavobacterium* sp. isolate. 2018, Plos One 13(10):e0205817.
12. **Catal, T.**, Yavaser, S., Atalay, V.E., Bermek, H., Monitoring of neomycin sulfate antibiotic in microbial fuel cells, Bioresource Technology 2018, 268:116-120.
13. **Catal, T.**, Liu, H., Fan, Y., Bermek, H., A novel clean technology to convert sucrose and lignocellulose in microbial electrochemical cells into electricity and hydrogen, 2018 Bioresource Technology Reports (<https://doi.org/10.1016/j.biteb.2018.10.002>).
14. Karakus, B.Z., Korkmaz, İ., Demirci, K., Arslan, K.S., Unlu, O., **Catal, T.**, A Combined Treatment Using Ethylmethane Sulfonate and Ultraviolet Light to Compare Amylase Production by Three *Bacillus* sp. Isolates, Preparative Biochemistry and Biotechnology, 2018 doi: 10.1080/10826068.2018.1509088.
15. Ozakman, G., Yayman, S.G., Zhmurov, C.S., Kasikci, E.S., **Catal, T.**, The influence of selenium on expression levels of rbcL gene in *Chlorella vulgaris*, 3 Biotech, 201 8(4):189. doi: 10.1007/s13205-018-1212-4.
16. Atasever-Arslan, B., Isik, F.B., Gur, H., Ozen, F., **Catal, T.**, Apoptotic effect of *Nigella sativa* on human lymphoma U937 cells, Pharmacognosy Magazine, 2017, 13(Suppl 3):S628-S632. doi: 10.4103/pm.pm_93_17.
17. **Catal, T.**, Gover, T., Yaman, B., Droguetti, J., Yilancioglu, K., Gas production profiles using furans in microbial electrolysis cells, 2016 World Journal of Microbiology and Biotechnology, 33(6), 115.
18. Ulucan, K., Biyik, B., Kapici, S., Sercan, C., Yilmaz, O., **Catal, T.**, Alpha-actinin-3 R577X Polymorphism Profile of Turkish Professional Hip-Hop and Latin Dancers, Annals of Applied Sport Science, vol. 4, no. 4, pp. 01-06, Winter 2016.
19. Zhmurov, C.S., Kahraman, O.T., Amadou, F.Z., Fazloğulları, O., Basaran, C., **Catal, T.**, Zeybek, U., Bermek, H., Expression of Eglf7 and miRNA-126-5p in symptomatic carotid artery disease, Genetic Testing and Molecular Biomarkers, 2016 DOI: 10.1089/gtmb.2015.0252.
20. **Catal, T.**, Comparison of various carbohydrates for hydrogen production in microbial electrolysis cells, Biotechnology&Biotechnological Equipment, 2016, DOI: 10.1080/13102818.2015.1081078.
21. **Catal, T.**, Lesnik, K.L., Liu, H., Suppression of methanogenesis for hydrogen production in single-chamber microbial electrolysis cells using various antibiotics, 2015 Bioresource Technology, 187:77-83.
22. Abourached, C., **Catal, T.**, Liu, H., Efficacy of single-chamber microbial fuel cells for removal of cadmium and zinc with simultaneous electricity production, 2014 Water Research, 51, pp. 228-233.
23. Bermek H., **Catal, T.**, Akan, S.S., Ulutaş, M.S., Kumru, M., Özgüven, M., Liu, H., Özçelik, B., Akarsubaşı, A.T., Olive mill wastewater treatment in microbial fuel cells, 2013 World Journal of Microbiology and

Biotechnology, 30(4), pp. 1177-1185.

24. Kumru, M., Eren, H., **Catal, T.**, Akarsubaşı, A.T., Bermek, H., Study of azo dye decolorization and determination of cathode microorganism profile in air-cathode microbial fuel cells, 2012 Environmental Technology, 33(16-18), pp. 2167-2175.
25. **Catal, T.**, Fan, Y., Li, K., Bermek, H., Liu, H., Utilization of mixed monosaccharides for power generation in microbial fuel cells, 2011 Journal of Chemical Technology and Biotechnology, 86 (4), pp. 570-574.
26. **Catal, T.**, Kavanagh P, O'Flaherty V., Leech, D., Generation of electricity in microbial fuel cells at sub-ambient temperatures, 2010 Journal of Power Sources, 196 (5), pp. 2676-2681.
27. **Catal, T.**, Cysneiros D, O'Flaherty V., Leech, D., Electricity generation in single-chamber microbial fuel cells using a carbon source sampled from anaerobic reactors utilizing grass silage, 2011 Bioresource Technology, 102 (1), pp. 404-410.
28. **Catal, T.**, Bermek H., Liu, H., Removal of selenite from wastewater using microbial fuel cells, 2009 Biotechnology Letters 31 (8), pp. 1211-1216.
29. **Catal, T.**, Fan, Y., Li, K., Bermek, H., Liu, H., Effects of furan derivatives and phenolic compounds on electricity generation in microbial fuel cells, 2008 Journal of Power Sources 180 (1), pp. 162-166.
30. **Catal, T.**, Xu, S., Li, K., Bermek, H., Liu, H., Electricity generation from polyalcohols in single-chamber microbial fuel cells, 2008 Biosensors and Bioelectronics 24 (4), pp. 849-854.
31. **Catal, T.**, Li, K., Bermek, H., Liu, H., Electricity production from twelve monosaccharides using microbial fuel cells, 2008 Journal of Power Sources 175 (1), pp. 196-200.
32. **Catal, T.**, Sacan O, Yanardag R, Bolkent, S, Protective effects of antioxidant combination against D-galactosamine-induced kidney injury in rats, 2010 Cell Biochemistry and Function, 28 (2), pp. 107-113.
33. **Catal, T.**, Liu, H., Bermek, H., Selenium induces manganese-dependent peroxidase production by the white-rot fungus *Bjerkandera adusta* (Willdenow) P. Karsten, 2008 Biological Trace Element Research 123 (1-3), pp. 211-217.
34. Şeker, U.Ö.Ş., **Catal, T.**, Taptık, Y., Tamerler, C., Bermek, H., Enhanced production of manganese-peroxidase by the white-rot fungus *Bjerkandera adusta* using media engineering, 2008 Biotechnology and Biotechnological Equipment 22 (3), pp. 844-848.
35. **Catal, T.**, Bolkent, S, Combination of selenium and three naturally occurring antioxidants administration protects D-galactosamine-induced liver injury in rats, 2008 Biological Trace Element Research, 122, pp. 127-136.

7.2. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeding) basılan bildiriler.

Sözlü bildiriler

1. Akagunduz, D., Murat Ozdemir, M., Ozen, F., Ozilhan, S., Tarhan, N., **Catal, T.**, Effects of Selective Serotonin Reuptake Inhibitors on Electricity Generation in Microbial Fuel Cells, the 8th

International, Molecular Biology and Biotechnology Congress, 2019, December, Afyon, Turkey, Abs. No.10.

2. Ozdemir, M., Enisoglu-Atalay, V., Bermek, H., Ozilhan, S., Tarhan, N., **Catal, T.**, Removal of cannabis metabolite from human urine in microbial fuel cells generating electricity. 2019, 4th International Congress on Biomaterials & Biosensors (BIOMATSEN 2019), Mugla, Türkiye, Mayıs 2019, p.6.
3. **Catal, T.**, Yavaser, S., Atalay, V.E., Bermek, H., Effects of Neomycin Sulfate on Power Generation in Electroactive Biofilm-Based Microbial Fuel Cells, The 17th International Conference on Electroanalysis (ESEAC 2018), Rodos, Haziran 2018, Abs. Sayfa 29.
4. Bermek, H., **Catal, T.**, Trabzon, L., Applications of Microbial Fuel Cells, World Congress On Virology, November 19-20, 2018 | Orlando, USA.
5. **Catal, T.**, Yilancioglu K., Evaluation of anode biofilms of microbial electrolysis cells producing hydrogen, XXIII International Symposium on Bioelectrochemistry and Bioenergetics, Haziran 2015, Malmö, İsveç , Abstract P-79.
6. **Catal, T.**, Liu H., Extracellular Polymeric Substances in Anode Biofilms of Microbial Fuel Cells, 15th International Conference on Electroanalysis, Haziran 2014, Malmö, İsveç , P.N. 12.

Poster bildirileri

7. Cebecioglu, R., Akagunduz, D., Korkmaz, I., Capanoglu, Y., Turan, A., Istanbulu, H.B., Alnahhal, A., Kul, A., **Catal, T.**, Effects of Ferula assafoetida, Rosa canina and a microalgae isolate on ECV 304 and Ishikawa Cell Lines. the 8th International, Molecular Biology and Biotechnology Congress, 2019, December, Afyon, Turkey, Abs. No.16.
8. Cebecioglu,R., Akagunduz, D., Korkmaz,I., Arıcıoglu, A., Kul,A., **Catal, T.**, Effects of Helichrysum arenarium (Immortelle) on ECV 304 and Ishikawa Cell Lines. 2019, 7th International Congress of the Molecular Biology Association of Turkey (MolBioKon'19), Istanbul, Turkey, September 2019, p.006.
9. Yildirim, M., Cebecioglu, R., Akagunduz, D., Karakadioglu, G., Korkmaz, I., Atasever-Arslan, B., **Catal, T.**, Effects of Combination of Quercetin and Selenium on Ishikawa Cell Line, 6th International Congress of the Molecular Biology Association of Turkey, September 2018, Izmir, Turkey, PT107.
10. Ozakman, G., Yayman, S.G., Sezer-Zhmurov, Ç., Serdaroglu-Kasikci, E., **Catal, T.**, The Influence of Selenium on Expression Levels of rbcl, psaB and psbC Genes in *Chlorella vulgaris*, 5th International Congress of the Molecular Biology Association of Turkey, September 2017, Istanbul, Turkey, PT122.
11. Zhmurov C.S., Kahraman, O.T., Zeybek, U., Fazlıoğulları, O., **Catal, T.**, Tunoğlu, S., Işıkören, E.G., Bermek, H., An angiogenic cooperation: Epidermal growth factor like domain 7 (EGFL7) and microRNA-126, 5th International Congress of Molecular Medicine, May 2015, Izmir, Turkey Abs. PP101.

12. **Catal, T.**, Tunalı, S., Yanardag, R., Bolkent, S., Protective effects of selenium and antioxidant combination against liver injury induced by D-galactosamine, 5th International Congress of Molecular Medicine, May 2015, Izmir, Turkey Abs. PP107.
13. **Catal, T.**, Abourached, C., Xu, S., Bermek, H., Liu, H., Effects of heavy metals from wastewater on electricity generation in microbial fuel cells, International ISE Bioelectrochemistry Conference, March 2013, Bochum, Germany (p ID.302394).
14. Bolkent, S., Bayrak, B.B., Öztay, F., **Catal, T.**, Yanardağ, R., Efficacy of antioxidant vitamins (vitamin C, vitamin E, beta-carotene) and selenium supplement on D-galactosamine-induced lung injury in rats, 2013 Federation of European Biochemical Societies Congress, Russia, Abs. SW04.
15. Bermek, H., Eren, H., Kumru, M., **Catal, T.**, Akarsubasi, A.T., Azo dye decolorization and its effect on electricity generation in single chamber air cathode microbial fuel cells, Pacificchem, 2010, Honolulu, USA. Abs. ID30.
16. Kumru, M., Eren, H., **Catal, T.**, Akarsubasi, A.T., Bermek, H., Characterization of microbial community of cathode biofilm in single chamber air cathode microbial fuel cells degrading textile dyes, 13th International Society of Microbial Ecology Symposium, Seattle, USA, 2010, Abs. no: PS.06.044.
17. **Catal, T.**, Boland, S., Katuri, K., Leech, D., Electrochemical characterization of *Geobacter sulfurreducens* grown on carbon electrodes, 239th ACS National Meeting, San Francisco, California, USA, 2010, Abs. no: 301.
18. **Catal, T.**, Kavanagh, P., Liu, H., Katuri, K., O'Flaherty, V., Leech, D., Electricity production in single-chamber microbial fuel cells using carbon source mixtures and evaluation of anodic biofilms. 239th ACS National Meeting, San Francisco, California, USA, 2010, Abs. no: 453.
19. Leech, D. Katuri, K., **Catal, T.**, Boland, S., Kavanagh, P., Electrochemical-induced growth of biofilms in microbial fuel cells. 217th ECS Meeting, Vancouver, Canada, 2010, Abs. 427.
20. **Catal, T.**, Bermek, H., Liu, H., Simultaneous electricity generation and selenium removal from wastewater using mediator-less microbial fuel cells, The 2nd Microbial Fuel Cell Conference, Gwangju, Korea, 2009, Abs. no: P-D-3.
21. **Catal, T.**, Cysneiros, D., O'Flaherty, V., Leech, D., Electricity generation in microbial fuel cells from leachate produced during anaerobic digestion of grass silage, The 2nd Microbial Fuel Cell Conference, Gwangju, Korea, 2009, Abs. no: P-D-6.
22. Katuri, K, Kavanagh, P., **Catal, T.**, O'Flaherty, V., Leech, D., Electrochemical characterization of electro-active bacteria grown at different physiological conditions, The 2nd Microbial Fuel Cell Conference, Gwangju, Korea, 2009, Abs. no: P-B-5.
23. Katuri, K., Kavanagh, P., O'Flaherty, V., **Catal, T.**, Leech, D., Electrochemical characterization of

electroactive bacteria grown at different physiological conditions, 238th ACS National Meeting, Washington D.C., San Francisco, California, USA, 2009, Abs. FUEL-238.

24. **Catal, T.**, Xu, S., Li, K., Bermek, H., Fan, Y., Liu, H., Generation of electricity from lignocellulosic biomass using microbial fuel cells, Microbial fuel cell 1st International Symposium, Pennsylvania, USA, 2008, Abs. no: 37.

25. **Catal, T.**, Tamerler, C., Bermek, H., Evaluation of oxidative stress caused by selenium based on lipid peroxidation by the white-rot fungus LSK-27. International Symposium on Environmental Biocatalysis: From remediation with enzymes to novel green processes, Cordoba – Spain, 2006, Abs. no: P-57.

26. Bermek, H., **Catal, T.**, Tamerler, C., Efficient immobilization of & increased manganese peroxidase production by the white-rot fungus LSK-27. 8th International Mycological Congress, Cairns, Australia, 2006, Abs. no: PS7-610-0409.

27. **Catal, T.**, Tamerler C., Bermek, H., Selenium induces manganese peroxidase production by the white-rot fungus LSK-27. 8th International Mycological Congress, Cairns, Australia, 2006, Abs. no: PS4-415-0404.

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29. **Catal, T.**, Bolkent, S., The role of ascorbic acid, beta-carotene, alpha-tocopherol and selenium on D-galactosamine-induced liver injury of rats, 2nd Training Course on Concepts and Methods of Programmed Cell Death & 13th Euro conference on Apoptosis, Budapest, Hungary, 2005, Abs. no: P-31.

30. Yanardag, R., Bayrak, B.B., **Catal, T.**, Bolkent, S., Combined effects of Beta-carotene, vitamin C, Vitamin E and selenium on galactosamine-induced lung damage of rats, International Congress of Toxicology, Montreal, Canada, 2007 Abs. no: PT2.049.

7.3. Yazılan Uluslararası kitaplar veya kitaplarda bölümler.

1. **Catal, T.**, Kavakli, H. IV.17. Hydrogen production by algae. Book: Green Energy to Sustainability: Strategies for Global Industries. Publisher: John Wiley & Sons, 2020. <https://doi.org/10.1002/9781119152057.ch17>
2. Cebecioglu, R., Yaman, B., Karakus, B.Z., Demirci, K., Karakadioglu, G., Korkmaz, I., Bermek, H., **Catal, T.** Microbial Biotechnology: From Energy to Enzymes, Researches on Science and Art in 21st Century Turkey, Publisher: Gece Kitapligi, 2017, Vol 2. 2267.

7.4. Ulusal hakemli dergilerde yayınlanan makaleler

1. **Çatal, T.**, Tunalı, S., Bolkent, Ş., Yanardağ, R., An antioxidant combination improves histopathological

alterations and biochemical parameters in D-galactosamine-induced hepatotoxicity in rats, 2017, European Journal of Biology, 76(1), 14-19.

2. Bayrak, B.B., **Çatal, T.**, Bolkent, S., Yanardağ, R., Efficacy of antioxidant vitamins (vitamin C, vitamin E, Beta-carotene) and selenium supplement on D-galactosamine-induced lung injury in rats, Istanbul University Journal of Biology, 2016, 75(1), 11-18.

3. **Çatal, T.**, Bermek, H., Li, K., Liu, H., Mikrobiyal yakıt hücrelerinde disakkaritlerden elektrik üretimi, 2009 ITU Journal/c, 7(1) 123-131.

7.5. Ulusal bilimsel toplantılarda sunulan bildiri kitabında basılan bildiriler

1. Zhmurov, Ç.S., Kahraman, Ö.T., Zeybek, Ü., Fazlıoğulları, O., **Çatal, T.**, Tunoğlu, S., Işıkören, E.G., Bermek, H., İnsan Karotis Arter Aterosklerotik Plaklarında mikroRNA 126-3p, Spred1 ve Pik3r2 Gen Anlatım Seviyelerinin Araştırılması, Ulusal Moleküler Tıp Sempozyumu, İstanbul, Haziran 2016, Özet no.: PS01

2. Tunalı, S., Yanardağ, R., **Çatal, T.**, Bolkent, S., Sıçanlarda D-galaktozamin ile oluşturulan beyin dokusu hasarına karşı β -karoten, askorbik asid, α -tokoferol ve selenyumun etkileri, XX. Ulusal Kimya Kongresi, Kayseri, 2006, Özet no.: BKP-23.

3. Saçan, O., Yanardağ, R., **Çatal, T.**, Bolkent, T., D-galaktozamin ile oluşturulan böbrek hasarına karşı β -karoten, C vitamini, E vitamini ve selenyumun kombine etkileri, XXII. Ulusal Kimya Kongresi, Mağusa, KKTC, 2008, Özet no.: BKP-39.

7.6 Diğer Yayınlar

8. Projeler

Ulusal

- KOSGEB, AR-GE ve İnovasyon Projesi, Development of Colorimetric Iron (II) Sulfate Determination Kits for Different Uses of a Newly Discovered Reagent, Project No. 17229477 (Eylül. 2019-Sep. 2020)
- İstanbul Kalkınma Ajansı (İSTKA), Yürütücü, Proje No. TR10/16/YNY/0167, İstanbul Protein Araştırma-Geliştirme ve İnovasyon Merkezi (PROMER) Kurulması (892.786,80 TL) (Ocak 2017-Ocak 2018)
- TÜBİTAK, 3001 projesi, Yürütücü, Proje No. 113Z589, Mikrobiyal elektroliz hücrelerinde fındık yaprağından hidrojen üretimi için metanojenik mikroorganizmaların baskılanması (59,917.91 TL) (Şubat 2014-Şubat 2015)
- TÜBİTAK, Production of yoghurt with pine cone and investigation of its effect on thyroid cancer, TÜBİTAK 2209-A (Arslan S.) (danışman), 2020
- İTÜ Rektörlüğü Bilimsel Araştırma Projeleri Birimi, Y. Lisans tez projesi (2013-2014)
- İTÜ Rektörlüğü Bilimsel Araştırma Projeleri Birimi, Doktora tez projesi (2013-2014)

- İstanbul Üniversitesi Bilimsel Araştırma Projeleri: Proje no: UDP-502/03062005, 2006
- İstanbul Üniversitesi Bilimsel Araştırma Projeleri: Proje no: T-290/180062003, 2004

Uluslararası

- İsviçre Ulusal Bilim Kurumu (SNSF), Yürütücü, Proje no: IZK0Z2-154140/1, Evaluation of various redox mediators for electricity generation by *Shewanella sp.* in microbial fuel cells, Sion, İsviçre, 2014 (kabul edildi).

Tamamlanan

- Avrupa Birliği, FP6, Marie Curie (Transfer of Knowledge, MicroGen) Aktivitesi, Araştırmacı, MTKD-CT-2006-042802: Mikrobiyal yakıt hücrelerinde elektrik üretimi için mikrobiyal toplulukların araştırılması, İrlanda, 2008-2010
- Sun Grant Western Regional Center, Araştırmacı, Oregon Devlet Üniversitesi: Bio-electrolysis Novel Technology for Hydrogen Production from Lignocellulosic Biomass, Oregon, A.B.D., 2006-2008

9.İdari Görevler

- Erasmus Koordinatörü, Moleküler Biyoloji ve Genetik Bölümü (2012-2017)
- Sağlık Bilimleri Fakülte ve Fakülte Yönetim Kurulu üyesi (2013-2016)
- İnsan ve Toplum Bilimleri Fakülte ve Yönetim Fakülte Kurulu üyesi (2013-2016)
- Mühendislik ve Doğa Bilimleri Fak. Laboratuvarları Genel Koordinatörü (2014-2018)
- Biyoteknoloji Araştırma ve Uygulama Merkezi Yönetim Kurulu üyesi (2014-2017)
- Mühendislik ve Doğa Bilimleri Fakülte Yönetim Kurulu üyesi (2013-2018)
- Biyoteknoloji Araştırma ve Uygulama Merkezi Müdürü (2017-2017)
- Bağımlılık ve Adli Bilimler Enstitüsü Kurul üyesi (2016-2017)
- İletişim Fakültesi Yönetim Kurulu üyesi (2014-halen)
- Fen Bilimleri Enstitüsü, Müdür Yardımcısı (2014-2019)
- Moleküler Biyoloji Anabilim Dalı lisansüstü program koordinatörü (2013-2019)
- Mühendislik ve Doğa Bilimleri Fakülte Kurulu üyesi (2013-halen)
- Mühendislik ve Doğa Bilimleri Fakülte Erasmus Koordinatörü (2017-halen)
- İstanbul Protein Araştırma-Uygulama ve İnovasyon Merkezi Müdürü (2017-halen)
- Mühendislik ve Doğa Bilimleri Fakültesi, Staj Komisyon Başkanı (2015-2019)
- Biyoteknoloji Anabilim Dalı Başkanı (2018-halen)

10. Bilimsel ve Mesleki Kuruluşlara Üyelikleri

- Moleküler Biyoloji Derneği

11. Ödüller/ Kurslar/ Sertifikalar

- Lisans mezuniyet derecesi, 2001.
- VII. Ulusal Biyoloji Öğrenci Kongresi, İstanbul Üniversitesi, Ekim 2000.
- 13th ECDO Euroconference on Apoptosis, 2nd Training Course on Concepts and Methods in Programmed Cell Death, Certificate of Attendance Budapeşte, Macaristan, Ekim 2005.
- 13th ECDO Euroconference on Apoptosis, Certificate of Attendance, Budapeşte, Macaristan, Ekim 2005.
- Environmental Biocatalysis from remediation with enzymes to novel green processes, Certificate of Attendance, Cordoba, İspanya, Nisan 2006.
- Bath Electrochemistry Winter School, University of Bath, Certificate of Completion, Bath, Ocak 2010.
- İ.Ü. Bilimsel Araştırma Projeleri Birimi Başarılı Araştırmacı Belgesi, 2011.
- Araştırmacılar için deney hayvanları kullanımına ait eğitim sertifikası, Marmara Üniversitesi, İstanbul, Haziran 2012.
- İ.Ü. Proteomistanbul, Uluslararası Katılımlı Proteomik Yaz Okulu, Katılımcı, Temmuz 2013.
- İsviçre Ulusal Bilim Kurumu (SNSF), uluslararası ziyaretçi projesi (kullanılmadı), 2014.
- TÜBİTAK, Uluslararası Bilimsel Yayınları Teşvik Ödülü, 2012, 2015, 2016, 2018, 2019.

12. Verilen lisans ve lisansüstü düzeydeki dersler

Akademik yıl	Dönem	Dersin adı	Haftalık saati		Öğrenci sayısı
			Teorik	Uygulama	
2018-2019	Güz	Microbiology		(3+0+2)	59
		Biyoteknolojide Son Gelişmeler (Y. lisans)		(3+0+0)	9
		Biotechnology		(3+0+0)	33
		Graduation Project		(0+0+6)	9
	Bahar	Molecular Cell Biology		(3+0+2)	35
		Bakteri Moleküler Genetiği (Y. lisans)		(3+0+0)	15
		Graduation Thesis		(0+0+6)	8
		Industrial Microbiology		(3+0+0)	6
		Special Topics in Bioengineering		(3+0+0)	20
2019-2020	Güz	Microbiology		(3+0+2)	58
		Biyoteknolojide Son Gelişmeler (Y. lisans)		(3+0+0)	27
		Biotechnology		(3+0+0)	45

		Graduation Project	(0+0+6)	7
	Bahar	Molecular Cell Biology	(3+0+2)	51
		Bakteri Moleküler Genetiği (Y. lisans)	(3+0+0)	20
		Graduation Thesis	(0+0+6)	
		Industrial Microbiology	(3+0+0)	11

13. Hakemlik

- Bioresource Technology
- International Journal of Hydrogen Energy
- Electrochemistry Communications
- International Journal of Hydrogen Energy
- Biological Trace Element Research
- Journal of Environmental Management
- Chemical Engineering Journal
- Chemical Engineering Communications
- Ecotoxicology and Environmental Safety
- Environmental Chemistry Letters
- Biomass and Bioenergy
- Chemosphere
- Environmental Technology
- Fuel
- Journal of Power Sources

14. İletişim Bilgileri

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