



Dilek KAZAN, PhD

CONTACT INFORMATION

**Department of Bioengineering, Faculty of Engineering,
Marmara University, Goztepe Campus, 34722
Kadikoy-Istanbul-Turkey**

Tel: + 90 212 3480292 / 724

Fax: + 90 212 3450126

dkazan@marmara.edu.tr

[HOME http://mimoza.marmara.edu.tr/~dkazan/](http://mimoza.marmara.edu.tr/~dkazan/)

<http://probio.bioe.eng.marmara.edu.tr/>

akademik.marmara.edu.tr/dkazan

EDUCATION

YEAR	DEGREE	UNIVERSITY	Area
1979-1983	BSc	Istanbul Technical University	Chemical Engineering Department
1984-1987	MSc	Boğaziçi Üniversitesi	Chemical Engineering Department
1988-1993	PhD	Boğaziçi Üniversitesi	Chemical Engineering Department

EMPLOYEMENT

YEAR	TASK	FOUNDATION
1984-1993	Research Assistant	Boğaziçi University, Chemical Eng. Dept.
1994-2001	Seniour Scientist	TÜBİTAK-GMAE
2001-2004	Assoc. Prof	Marmara Un. Eng. Faculty, Chemical Eng. Dept.
2004-continued	Professor	Marmara Un. Eng. Faculty, Bioengineering Dept.

APPOINTMENT

YEAR	TASK	FOUNDATION
2012- 2015	Head of Department	Marmara Un. Engineering Faculty, Bioeng. Dept.
2009- 2012	Vice Head of Department	Marmara Un. Engineering Faculty, Bioeng. Dept.
2006-2009	Vice Dean	Marmara Un. Engineering Faculty
2002-2006	Vice Head of Department	Marmara Un. Engineering Faculty, Chemical Eng. Dept.
2000-2001	Member of Institute Committee	TÜBİTAK-MAM-GMBAE
2002-2003 and 2006-2009	Member of Faculty Committee	Marmara Un. Engineering Faculty

RESEARCH INTEREST

Professor Kazan's research range from Chemical Engineering to Bioprocess Engineering. She has carried out collaborative research work to screen, isolate and characterize extremophiles (especially halophiles and alkaliphiles) to produce biomaterials (pharmaceuticals, industrial enzymes and biopolymers) with novel properties; to purify, characterize and stabilize proteins for industrial applications; to develop and optimize efficient and sustainable bioprocesses; and to produce biopolymers for biomedical applications. Her research also covers proteomics and metabolomics to understand the response of living cells to extreme conditions. With the knowledge gained from the projects and research activities performed, her most important mission is to achieve research activities through using bioprocess engineering tools within the green chemistry approach to contribute the creation of sustainable environment and society.

SELECTED PROJECTS

- Production of Bio-similar Pharmaceuticals "TUBITAK-KAMAG-1007 Project" (Project Manager; In collaboration with Prof Dr Eda Tahir Turanlı and Assoc. Prof. Dr. Gizem Dinler Doğanay/ İstanbul Technical University & with Zeynep Atabat/Atabay Pharmaceutical Company)
- Production of Poly(3-hydroxybutyrate) from Novel *Bacillus marmarensis* GMBE 72T isolated from mushroom compost: FEN-C-YLP-080715-0341(Project Manager)
- Production of fermentable sugars by hydrolyses of haselnut husk, TUBITAK: 113M053 (Project Manager)
- Determination of lipid profiles of microalgae in order to determine biofuel productivity, -FEN-A-090512-0162. (Project Manager)
- Formulation of alkaline protease for liquid detergent, KOSGEB. (Consultant)
- Using recycled protein waste for *Oncorhynchus mykiss* feed as an alternative protein source, TUBITAK-TEYDEB. (Consultant)
- Production of industrial enzymes intended for feed industry. TUBITAK: KAMAG-107G246.(Researcher) (In collaboration with Prof Dr Burhan Arına, Prof Dr Sadık Dinçer and Prof Dr Hatice Korkmaz Güvenmez/ Çukurova University; Prof Dr Gaye Öngen/Ege University; Assoc Prof Dr Sevnur Mandacı/ TUBITAK-MAM-GMBE)
- Investigation of the kinetic parameters of *Bacillus subtilis* SDP1 amylase immobilized on magnetic alginate gels-FEN-D-280214-0047 (Project Manager)
- Immobilization of lipase on magnetic-nano particles- FEN-C-YLP-060510-0142- (Project Manager)
- Proteomic Investigation of the adaptation of *Halomonas halophila* DSMZ4770 at high salt concentration and low temperatures - FEN-D-040609-0179
- Proteomic analysis of the metabolic pathways of halophilic microorganisms and flux analysis - FEN-C-DRP-181208-0286.
- Production of amylase enzyme from agricultural waste using *Halomonas* sp. isolated from Çamaltı Saltern Area FEN-YLS-290506-0115

- **Extremophiles as source of natural products useful for biotechnological applications: Studies of osmoregulation strategies by engineering tools. TUBITAK: TBAG-110T174.(Project Manager) (In collaboration with Assoc Prof Annarita Poli and Prof Barbara Nicolaus/ CNR-ITALY)**
- **Proteomic Analyses of Kidney Transplantation Solutions . TUBITAK: SBAG-110S103. (Project Manager at Marmara University) (In collaboration with Prof Dr Abdurrahman Coşkun/ Acıbadem University)**
- **Establishment of Bioremediation Laboratory in the Bioengineering Department. Marmara University Research Fund Project, FEN-E.-. (Project Manager)**
- **Production and characterization of phytase enzyme for animal feed. Marmara University Scientific Research Project: FEN-C-DRP-171108-0267. (Project Manager)**
- **Establishment of Microbial resource Center Infrastructure for Enzyme Industry in Turkey. T.R. Prime Ministry State Planning Organisation (DPT), conducted at TUBTAK MRC, GEPI. (Project Manager)**
- **Investigation of the effect of environmental conditions on newly isolated halophilic microorganisms by proteomics. TUBITAK: MAG 104M236. (Project Manager)**
- **Production of alpha-amylase from *Halomonas* sp. isolated from Çamaltı Saltern Area by agricultural waste. Marmara University Scientific Research Project: FEN-YLS-290506-0115. (Project Manager)**
- **Identification of archaea isolated from extreme environments in Turkey and extremozymes of these microorganisms. TUBITAK: TBAG 103T069. (Project Manager) (In collaboration with Dr Aziz Akın Denizci/TUBITAK-MRC-GEPI)**
- **Stability, conformational characterization and biocatalytic applications of native and modified alkaline proteases purified from alkaliphilic *Bacillus* strains. conducted at TUBTAK-MRC, GEPI. TUBITAK: TBAG-U/123 (104T262).(Researcher) (in collaboration with Prof Francesco Secundo/CNR-Italy)**
- **BIOCHIPBOARD (Fungal enzymes on the production of whitelined chipboard: technological and economic implications. conducted at TUBTAK-MRC, GEPI (In collaboration with Prof Candan Tamerler/ITÜ; Prof Tajelli Keshewards/University of Westminster, KARTONSAN). EUREKA: E2184. (Coordinator)**
- **Isolation and identification of industrially important protein producing bacteria from local ecosystems. TUBITAK: GMBAE F990201. (Project Manager) conducted at TUBTAK-MRC, GEPI.**
- **Identification of alkaline protease producing microorganisms from local ecosystems and production and purification of alkaline protease enzyme. Marmara University Scientific Research Project: BSE 073/131102. (Project Manager)**
- **Traditional and modern solutions for lactose deficiency in Turkey: Production and development of lactase enzyme used in milk industry, YUUP-DPT (T.R. Prime Ministry State Planning Organisation BAP-08-11-DPT 2005K120570. (Project Manager at Marmara University Site) (In collaboration with Prof Şebnem Harsa/ İzmir Institute of Technology)**
- **Determination of anti-viral, anti-microbial and anti-oxidant activity of whey proteins and hydrolysates and determination of structural properties. TUBITAK: SBAG. (Manager at Marmara University Site)(In collaboration with Prof Süha Yalçın/Marmara University and Prof Nazlı Arda/İstanbul University)**

- **Sub-Project 2.2 Penicillin Acylase Production in “Biotechnology-Establishment and Promotion of New Biotechnological Techniques in Turkey (NATO-TU BIOTECHNOLOGY)” NATO-SFS (TUBİTAK-MAM-GMBAE) (Researcher) conducted at TUBTAK-MRC, GEBİ.**

BSc Projects (TUBITAK-2209)

- **Investigation of the inactivation kinetics of *Bacillus licheniformis* BA17 alkaline protease at different pH values (MURAT ÖZKAN, Chemical Engineering Department)**
- **Optimization of Phenol Removal using *Halomonas* sp. AAD12 (Fatma Ece Altınışik, Bioengineering Department)**

PATENT

Kayaman, N., Kazan, D., Erarslan, A., Okay, O., Baysal, B., “Application Number: TR96 / 00295, Production of Temperature Sensitive Gel Beads for Concentrating Dilute solutions of Biological Materials” T.C. Turkish patent Institute, Acceptance date: 03/01/1997.

PUBLICATIONS

- Sayar, N.A., Pinar, O., **Kazan, D.** Sayar, A.A. (2017) **Bioethanol Production From Turkish Hazelnut Husk Process Design and Economic Evaluation.**, Waste Biomass Valorization. <https://doi.org/10.1007/s12649-017-0103-y>
- Pinar, O., Karaosmanoğlu, K., Sayar, N.A. Kula. C., **Kazan, D.**, Sayar, A.A. (2017). **Assessment of hazelnut husk as a lignocellulosic feedstock for the production of fermentable sugars and lignocellulolytic enzymes.**, 3 Biotech, 7: 367. <https://doi.org/10.1007/s13205-017-1002-4>
- Sahin, Y.M., Su, S., Ozbek, B., Yücel, S., Pinar, O., **Kazan, D.**, Oktar, F.N., Ekren, N., Gunduz, O. (2017) Production and characterization of electrospun fish sarcoplasmic protein based nanofibers. Journal of food engineering. <https://doi.org/10.1016/j.jfoodeng.2017.11.013>
- Dilara Ayyıldız, Kazim Yalcin Arga, Fatma Gizem Avci, Fatma Ece Altinisik, Caglayan Gurer, Gizem Gulsoy Toplan, Dilek Kazan, Katharina Wozny, Britta Brügger, Bulent Mertoglu, Berna Sariyar Akbulut (2017). Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli*. Curr Genet. DOI 10.1007/s00294-016-0673-4
- Nilay Budeyri Gokgoz, Fatma Gizem Avci, Kubra Karaosmanoglu Yoneten, Begum Alaybeyoglu, Elif Ozkirimli, Nihat Alpogu Sayar, Dilek Kazan, and Berna Sariyar Akbulut (2016). Response of *Escherichia coli* to Prolonged Berberine Exposure. Microbial Drug Resistance. DOI: 10.1089/mdr.2016.0063
- Coskun, A., Baykal, A.T., Kazan, D., et al. Proteomic Analysis of Kidney Preservation Solutions Prior to Renal Transplantation (2016). PLOS ONE, accepted for publication.
- Kori, M, Aydın, B., Unal, S., Arga, K.Y., Kazan, D., (2016) Metabolic Biomarkers and Neurodegeneration: A Pathway Enrichment Analysis of Alzheimer's Disease, Parkinson's Disease, and Amyotrophic Lateral Sclerosis, OMICS A Journal of Integrative Biology, 20 (11), DOI: 10.1089/omi.2016.0106
- Bal, E., Pinar, O., Kazan, D., Ozturk, H.U., Sayar, A.A., (2016) Immobilization of alpha-amylase from *Bacillus subtilis* SDP1 isolated from the Rhizosphere of *Acacia cyanophila* Lindey, Electronic Journal of Biology, 12:2, 115-121.
- Ceylan, S., Kazan, D., (2015) Pyrolysis kinetics and thermal characteristics of microalgae *Nannochloropsis oculata* and *Tetraselmis* sp., Bioresource Technology. 187, 7 / 2015,

10.1016/j.biortech.2015.03.081

- Öztürk, H.U. , Sariyar Akbulut, B. , Ayan, B. , Poli, A. , Denizci, A.A. , Utkan, G. , Nicolaus, B., Kazan, D. (2015) Moderately Halophilic Bacterium *Halomonas* sp. AAD12: A Promising Candidate as a Hydroxyectoine Producer. *J Microb Biochem Technol.*, 7, 262-268, <http://dx.doi.org/10.4172/1948-5948.1000222>
- Dilgimen, A.S., Arga, K.Y., Erdmann, V.A., Wittmann-Liebold, B., Denizci, A.A. and Kazan, D. (2014) Comparison of Protein Expression Profiles of Novel *Halomonas smyrnensis* AAD6T and *Halomonas salina* DSMZ 5928T. *Natural Science*, 6, 628-640. <http://dx.doi.org/10.4236/ns.2014.69062>
- Sayar, N.A., Durmaz-Sam, S., Kazan, D., Sayar, A.A., (2014) Schizosaccharomyces pombe and its Ni(II)-insensitive mutant GA1 in Ni(II) uptake from aqueous solutions: a biodynamic model, *Appl Microbiol Biotechnol*, DOI 10.1007/s00253-014-5740-5
- Duman, Y., Kazan, D., Denizci, A.A., Erarslan, A., (2014) Water Miscible Mono Alcohols' Effect on the Proteolytic Performance of *Bacillus clausii* Serine Alkaline Protease, *Appl Biochem Biotechnol*, 172, 469-486, DOI 10.1007/s12010-013-0525-3
- Poli, A., Nicolaus, B., Denizci, A.A., Yavuzturk, B., Kazan, D., (2013) *Halomonas smyrnensis* sp. nov., a moderately halophilic, exopolysaccharide-producing bacterium from Çamaltı Saltern Area, Turkey *Int J Syst Evol Microbiol*, 63, 10-18 *ijs.0.037036-0*; *doi: 10.1099/ijs.0.037036-0*
- Öztürk, N.C., Kazan, D., Denizci, A.A., Erarslan, A., (2012) *The influence of copper on alkaline protease stability toward autolysis and thermal inactivation*, *Eng. Life Sci.*, 12, No. 5, 1–10 1
- Ceylan, S., Yilan, G., Sariyar-Akbulut, B., Kazan, D., (2012) Interplay of adaptive capabilities of *halomonas* sp. AAD12 under salt stress. *J. Bioscience and Bioeng.* In press
- Uzyol K.S., Sariyar-Akbulut, B., Denizci, A.A., Kazan, D., (2012) Thermostable alpha amylase from moderately halophilic *Halomonas* sp. AAD21. *Turk. J. Biol.*, *doi:10.3906/biy-1106-7*.
- Ceylan, S., Sariyar-Akbulut, B., Denizci, A.A., Kazan, D., (2011) Proteomic insight into phenolic adaptation of a moderately halophilic *Halomonas* sp. Strain AAD12. *Can. J. Microbiol.*, 57: 295-302
- Ozbalci, C., Unsal, C., Kazan, D., Sariyar-Akbulut, B., (2010) Proteomic Responses of *Escherichia coli* to the alkaloid extract of *Papaver polychaetum*. *Ann Microbiol*, 60: 709-717
- Denizci A.A., Kazan D., Erarslan .A., (2009) *Bacillus marmarensis* sp. nov., an alkaliphilic, protease-producing bacterium isolated from mushroom compost., *IJSEM.*, *doi:ijs.0.012369-0*
- Oturk, D., Kazan, D., Denizci, A.A., Grimoldi, D., Secundo, F., Erarslan, A., (2009) Water Miscible Mono Alcohols Effect on the Structural Conformation of *Bacillus clausii* GMBAE 42 Serine Alkaline Protease, *Journal of Molecular Catalysis B: Enzymatic* [doi:10.1016/j.molcatb.2009.02.017](http://dx.doi.org/10.1016/j.molcatb.2009.02.017)
- Öztürk, S., Morgan-Özeren, M., Salman-Dilgimen, A., Denizci, A.A., S Arkan, B., Kazan, D., (2009) Alkaline serine protease from halotolerant *Bacillus licheniformis* BA17, *Annals Microbiology*, 59 (1) 1-8
- Kazan D., Bal H., Denizci A.A., Ozturk N.C., Ozturk U., Dilgimen A.S., Ozturk D.C., Erarslan .A., STUDIES ON ALKALINE SERINE PROTEASE PRODUCED BY *Bacillus clausii* GMBE 22, *Preparative Biochemistry and Biotechnology*, Accepted for publication, ISSN: 1082-6068 print/1532-2297 online, DOI: 10.1080/10826060902953269
- Sariyar, B., Dilgimen Salman, A., Ceylan, S., Perk, S., Denizci, A., Kazan, D., RAPID METABOLOME ANALYSIS: Preliminary phenotypic characterization of newly isolated microorganisms by footprinting, *Archives Microbiology*, 2008, 189, 19-26
- Yagız, F., Kazan, D., Akin, N.A., Biodiesel production from waste oils by using lipase immobilized on hydrotalcite and zeolites, *Chemical Engineering Journal Volume 134, Issues 1-3, 1 November 2007, Pages 262-267*
- Ates, O., Toksoy Oner, E., Arkan, B., Denizci, A.A., Kazan, D., (2007) Isolation And Identification Of Alkaline Protease Producer Halotolerant *Bacillus licheniformis* Strain BA17, *Annals Microbiology*, 57

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- Denizci, A., Kazan, D., Abeln, E. C. A., Erarslan, A., Newly isolated *Bacillus clausii* GMBAE42: an alkaline protease producer capable to grow under highly alkaline conditions", Applied Microbiology and Biotechnology, Journal of Applied Microbiology,96, 320-327 (2004)
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- Ercelen, S., Kazan, D., Erarslan, A., Demchenko, A.P., On the excited-state energy transfer between tryptophan residues in proteins: the case of penicillin acylase, Biophysical Chemistry, 90, 203-217 (2001)
- Kazan, D., Erarslan, A., The identification of catalytically essential amino acid residues of penicillin G acylase obtained from a mutant of *Escherichia coli* ATCC 11105, Process Biochemistry, 36, 861-867, (2001)
- Kazan, D., Erarslan, A., Effect of dextrans polymers on the stability of soluble *Escherichia coli* penicillin G acylase., J. Chem. Tech. Biotech.,74, 1157-1164, (1999)
- Kayaman, N.,Kazan, D., Erarslan, A., Okay, O., Structure and protein separation efficiency of poly(N-isopropylacrylamide) gels: Effect of synthesis conditions., J. Appl. Polymer Sci., 67, 805-814, (1998).
- Kazan, D., Ertan, H., Erarslan, A., Stabilization of *Escherichia coli* penicillin G acylase against thermal inactivation by cross-linking with dextran-dialdehyde polymers., Appl. Microbiol. Biotechnol., 48, 191-197, (1997).
- Ertan, H., Kazan, D., Erarslan, A., Cross-linked stabilization of *Escherichia coli* penicillin G acylase against pH by dextran-dialdehyde polymers., Biotechnology Techniques, 11, 225-229, (1997).
- Kazan, D., Erarslan, A., Stabilization of *Escherichia coli* penicillin G acylase by polyethylene glycols against thermal inactivation., Appl. Biochem. Biotechnol., 62, 1-13, (1997).
- Kazan, D., Erarslan, A., Influence of polyhydric compounds on the pH stability of penicillin G acylase obtained from a mutant of *Escherichia coli* ATCC 11105., Process Biochemistry, 31, 691-697, (1996).
- Kazan, D., Ertan, H., Erarslan, A., Stabilisation of penicillin G acylase against pH by chemical cross-linking., Process Biochemistry, 31, 135-140, (1996).
- Kazan, D., Çamurdan, A., and Hortaçsu, A., The Effect of Glucose Concentration on the Growth Rate and some Intracellular Components of a Recombinant *Escherichia coli* Culture., Process Biochemistry, 30, 269-273, (1995)

OTHER PUBLICATIONS

- Coskuner Ozturk, D., Erarslan' A., Kazan, D. "*Escherichia coli* penisilin asilazının CMC konjugasyonu ile pH stabilizasyonu" İTÜ Dergisi, Fen Bilimleri, 1, 3-10, 2002
- Kazan, D., Ceylan, S., Unal, S., A. Alp Sayar, "Tarımsal Atıklardan Biyoetanol Üretimi" Biyoyakıt Dünyası, Sayı:1, 73-74, 2006

PRESENTATIONS AT INTERNATIONAL CONGRESS / SYMPOSIUMS

- Altinisik, F.E., Kazan D., B. Sariyar Akbulut. Adaptation of *B. marmarensis* Sp Nov To Extreme Alkaline Conditions. 7th Congress of European Microbiologists (FEMS), 9-13 July 2017, Valencia, Spain
- A.Uras, O.Pinar, A.Sayar, D.Kazan, A.A.Sayar. Growth Medium Optimization of *Cryptococcus albidus* D24 lipase by statistical design of experiments. 42nd FEBS CONGRESS: FROM MOLECULES TO CELLS AND BACK, 10-14 September 2017 Jerusalem, Israel
- Su, S., Ozbek, B., Sahin, Y.M., Yucel, S., **Kazan, D.**, Oktar, F.N., Ekren, N., Gunduz, O., Process Optimization of Electrospun Fish Sarcoplasmic Protein Based Nanofibers., Barcelona, Spain., 17-18 August 2017
- Yilmaz-Serçinoğlu, Z., Sayar, N.A., Kazan, D. Production of laccase and cellulases by *pycnoporus sanguineus* (dmsz 3024) using hazelnut husk .FEMS 2017 - 7th Congress of European Microbiologists (FEMS), 9-13 Temmuz 2017, Valencia, İspanya
- Abdussamed, U., Sayar, N.A., Kazan, D., Sayar' A.A. (2016). Immobilization of *Cryptococcus albidus* D24 Lipase for enzymatic esterification. FEBS, 283
- Tugba' Ö., Gülnihal, B., Şirin' B., Çimenoğlu' Ç., (2016). Utilization of PHB from *Bacillus marmarensis* GMBE 72T DSMZ21297 as scaffold. FEBS, 283
- Kaplan Coban, E., Gencoğlu, C., Kirman, D.C., Pinar, O., Denizci, A.A., Kazan, D., Sayar, A.A. (2015). Assessment of the effects of medium composition on growth lipid accumulation and lipid profile of *Chlorella vulgaris* as a biodiesel feedstock. 4th International Conference on Renewable Energy Research and Applications
- Altinisik FE, Avci FG, Denizci AA, Kazan D, Sariyar Akbulut B. Investigation of the proteom profile of alkaliphilic *B. marmarensis* sp nov under different pH conditions. FEBS-IUBMB WORKSHOP – Biointeractomics Sevilla-Spain, May 17-20, 2016.
- Ayyıldız, D., Avci, F.G., Arga, K.Y., Budeyri Gokgoz, N., Sayar, N.A., Kazan, D., Wozny, K., Bruegger, B., Sariyar Akbulut, B. The plant derived alkaloid roemerine is involved in the modulation of motility in *Escherichia coli*. The 60th Annual Meeting of the Biophysical Society. 27 February – 2 March 2016 Los Angeles, CA-USA.
- Yilmaz Z., Pinar O., Sayar N. A., Kazan D. (2015). Optimization of process parameters for enzymatic hydrolysis of hazelnut husk. BEC 2015 VII. Bioengineering Congress, 19-21 November 2015, İzmir-Turkey.
- Ozgoren, T., Pinar, O., H.U., Kazan, D., (2015) Response of the *Bacillus marmarensis* GMBE 72^T to extrem conditions: Poly(3hydroxybutyrate), FEBS Journal 282 (Suppl.1) (2015) 55; Special Issue: 40th **FEBS** Congress, The Biochemical Basis of Life, Berlin, Germany, July 4-9, **2015**
- Ozgoren, T., Pinar, O., Denizci, A.A., Utkan, G., Kazan, D., Effect of Different Carbon Sources on the Production of Poly(3-hydroxybutyrate) , PHB from *Bacillus marmarensis* GMBE 72^T, BEC 2015 VII. Bioengineering Congress, 19-21 November 2015, İzmir-Turkey
- Bal, E., Ozturk, H.U., Kazan, D., (2014) Investigation of the kinetic parameters of extracellular alpha-amylase from *Bacillus subtilis* SDP1 immobilised on alginate beads, ProtStab2014, 10th International Conference on Protein Stabilization, 7-9 May 2014, Stresa, Italy

- Budeyri Gokgoz, N., Wozny, K., Kazan, D., Brügger, B., Sariyar Akbulut, B. Getting an insight into the antibacterial activity of the plant derived alkaloid (-)-roemerine against *E. coli* cells. 39th FEBS-EMBO Conference. 30 August-4 September, 2014 Paris, France.
- Karaosmanoğlu K, PİNAR O, SAYAR N.A, Kazan D, (2013) Hydrolysis of Hazelnut Husk by Using Commercial Enzymes for the Production of Fermentable Sugar, 6th International Bioengineering Congress (BEC2013), 12 – 15 November, 2013, Aydın-Turkey.
- Ozturk H. U, Denizci A.A., Utkan G., Kazan, D., (2013) Application of magnetic alginate beads in both in bioseparation and immobilization of *Bacillus subtilis* SDP1 α -amylase, Nano TR9, 24-28 Haziran 2013, Erzurum
- Başak Koçhan, Berna Sariyar Akbulut, Prof. Dr. Dilek Kazan. Investigation of Osmoadaptation Strategy of a New Moderately Halophilic *Halomonas smyrnensis* AAD6T Industrial Biotechnology: meeting the challenges. 12-13 September 2013, Medicon Village, Lund, Sweden.
- Budeyri Gokgoz, N, Kazan, D., Sariyar Akbulut, B. Deciphering the antimicrobial alkaloid action on *E. coli* TB1. ICSB2013, The 14th International Conference on Systems Biology. 30 AUGUST - 3 September 2013, Copenhagen.
- Coskun, D. Kazan, M. Akgoz, A. T. Baykal, I. Berber, G. Bilseil, M. O. Senal, K. Karaosmanoglu, I. Aksoy and C. Yazici, Proteomic evaluation of preservation solutions prior to kidney transplantation, **FEBS JOURNAL**, Volume 279, pp: 235, Issue Supplement s1, **Special Issue: 22nd IUBMB & 37th FEBS Congress, Seville, Spain, September 4-9, 2012**
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- Burak Ayan, Berna Sariyar Akbulut, Annarita Poli, Umit Ozturk, Nurcin Celik Ozturk, A. Akin Denizci, Guldem Utkan, Dilek Kazan **Osmoadaptation of a moderately halophilic microorganisms under cold stress**, New Biotechnology, Volume 29, Supplement, Pages S55 (23–26 September 2012)
- Yonca Avcı Duman, Hatice Korkmaz, Burhan Arıkan, Sadık Dinçer, A. Akin Denizci, Berna Sariyar Akbulut, Dilek Kazan, Altan Erarslan **Purification and characterization of a thermo and acid-stable endo-1,3-1,4- β -glucanase from *Bacillus amyliquesfaciens* YMNq47**, New Biotechnology, Volume 29, Supplement, Pages S-80-81 (23–26 September 2012)
- Melis S. Sogut, Nurcin C. Ozturk, H. Umit Ozturk, Orkun Pinar, Fatih M. Ipek, Ebru Cayir, Abdulmecit Gokce, Deniz Karasu, Dilek C. Ozturk, Yavuz Ozturk, A. Akin Denizci, Bengu Ozturk, Banu Bahar, Naze G. Avcı, Burak Ayan, Dilek Kazan, Yonca A. Duman, Sayit Sargin, Sevket Karacanli, Cengizhan Mizrak, *et al.* **Production of industrial enzymes for feed industry** New Biotechnology, Volume 29, Supplement, Pages S108 (23–26 September 2012)

- H. Umit Ozturk, Nurcin Celik Ozturk, Annarita Poli, Barbara Nicolaus, Burak Ayan, A. Akin Denizci, Guldem Utkan, Berna Sariyar Akbulut, Dilek Kazan, (2012) **Adaptive changes in the lipid distribution of a moderately halophilic microorganism under salt stress**, New Biotechnology, Volume 29, Supplement, Pages S147 (23–26 September 2012)
- Coskun, A., Kazan, D., Akgöz, M., Berber, İ., Yazıcı, C., Bilsel, G., Karaosmanoglu, K., Sahin, J., Proteomics Profiling of Preservation Solution Prior to Renal Transplantation '5th Central and Eastern European Proteomic Conference, Prag, 19-21 September 2011 (Best poster award),
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- Kazan, D. "Mikrobiyal Mühendislikte Proteomik Yaklaşımlar" "2. Ulusal Proteomik Kongresi – TuPA 2017 24 – 25 Kasım 2017, Acıbadem Ün., İstanbul (Invited speaker)
- Gülnihal BOZDAĞ, Zeynep Efsun DUMAN, Tilbe GÖKÇE, Dilek KAZAN. Gıda atıklarının alternatif olarak kullanımı: Komagataeibacter hansenii DSM 5602 ile bakteriyel selüloz üretimi. VI. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi 05-07 Ekim 2017 Çukurova Üniversitesi Adana
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- Kazan, D. " İmmobilize Enzimler ve Uygulamaları" Lisans Üstü Eğitim Kursu Kurs Kitabı"

COURSES AND WORKSHOPS ORGANISED

DATE	NAME OF THE COURSES
7-9 July 2017	From Network to Targets: Workshop on Omics Technologies and Ap
12-13 March 2015	III.BIOENGINEERING STUDENT CONGRESS
1-5 September 2008	Introduction to Proteomics II
24-27 April 2007	Introduction to Proteomics I
30 September 2005	Meetings on Identification of Bacteria in Food Microbiology Marmara University, Engineering Faculty
16-18 August 2004	Mass Spectrometer and Proteomics Workshop Marmara University, Engineering Faculty
12-16 July 1999	Enzyme Immobilization and Applications TUBITAK-MAM-GMBE
Between 1998-2009 every year	Basic techniques for Enzyme Purification and Characterization TUBITAK-MAM-GMBE
13 - 19 July, 1997	Basic Principles and Applications in Enzyme Engineering, TUBITAK-MAM

SUPERVISIONS

MSc Thesis

- Fermentation of Enzymatically Saccharified Agricultural Residue for Ethanol Production (Selim Ceylan)
- Isolation and Identification of Extremophiles Isolated from Camalti Saltern Area (Bahar Yavuzturk)
- Purification and Characterization of Alkaline Protease produced by *Bacillus* sp. Isolated from Local Ecosystems (Selcuk Ozturk)
- Production and purification of RTEM-e beta-lactamase and Its Inhibition by peptides (Naze Gul Avci' Co-advisor)
- Investigation of the effect of Antimicrobial Agents on Microorganisms (Çağakan Özbalcı, Co-advisor)
- Amylolytic Enzyme Production from a Moderately Halophilic Bacteria by Using Agricultural Waste (Kamil Serkan Uzyol)
- Investigation of The Kinetics of *Bacillus subtilis* SDP1 alpha amylase immobilized on Magnetic Alginate Beads (Eda Bal)

- Production of Polyhydroxyalkalonnate from Extreme Obligate Alkaliphilic Strain *Bacillus marmarensis* GMBE 72^T isolated from Mushroom Compost (Tugba Ozgoren)
- Production of Cellulosic and Polyhydroxybutyrate Based Polymers and Applications in Tissue Engineering (Gulnihal Bozdag)
- Small Scale Bioprocess Development and Immobilization of Lipase from *Cryptococcus albidus* (Abdussamed Uras)

PhD Thesis

- Isolation and Identification of Industrially Important Protein Producing Bacteria from Local Ecosystems and Screening of Their Proteins (Hülya Bal)
- Proteomic Study and Flux Analysis of Metabolic Pathways of Halophilic Microorganisms (Selim Ceylan)
- Investigation of the Industrial Enzymes Produced by *Bacillus* sp Isolated from Acacia Tree (Hasan Ümit ÖZTÜRK)
- Investigation of Gene Expression Levels of Newly Isolated Moderately Halophilic Microorganisms Under Stress Conditions (Serkan Uzyol)
- Production of Polymeric Nanomaterials from Renewable Sources for Biomedical Applications (Elif Isikci Koca)

TEACHING RESPONSIBILITIES

Undergraduate Courses

General Chemistry
 Basic Principles in Chemical Engineering
 Introduction to Biochemical Engineering
 Chemical Kinetics
 Bioengineering Principles
 Bioreaction Engineering

Graduate Courses

Reaction Kinetics and Mass Transfer
 Enzyme Kinetics
 Principles in Biotechnology
 Molecular Techniques Used for Identification of Microorganisms
 Enzyme and Fermentation Technology

Proteomics and Mass Spectrometer

Metabolomics

Enzyme Technology

INVITED COURSES AND WORKSHOPS

- Purification and Immobilization of Enzymes, 6th April 2014, II Bioengineering and Genetic Days, Yeditepe University, İstanbul
- Conversion of Lignocellulosic Materials to Fermentable Sugars, 16th March 2014, Ege University, II. Bioengineering Student Congress, İzmir; 17th March 2014, Energy Days, KMMO Student Days, Marmara University
- Proteom Technologies for Drug Development, 16-17 Mach 2013, KMMO Student Days, İTÜ
- Metabolomics: Proteomİstanbul, İstanbul University, Molecular Biology and Genetic Department, 15-17 July 2013
- Metabolomics: Proteomİstanbul, İstanbul University, Molecular Biology and Genetic Department, 12-17 July 2010
- Biotechnological Applications and potentialities of moderately halophilic bacteria
- Turkish-German Workshop on Biotechnology and Bioengineering, 21-22 September, 2010, Aachen, Germany
- Introduction to Proteomics.
- Proteomic Arařtırmaları: Temel Bilgiler ve Uygulamalı Örnekleri, 10-11 December 2009, İstanbul
- BIOTECHNOLOGICAL APPLICATIONS AND POTENTIAL OF MODERATELY HALOPHILIC BACTERIA, İstanbul Technical University, Molecular Biology and Genetic Department, 2009
- Biohydrogen Production and Industrial Applications, 14-15 April 2005, TÜBİTAK, GMBAE
- Gene Cloning and Expression in Procaryotic Systems, 2-13 July 2001 , 3-14 July 2000, and 5-16 October 1998, TÜBİTAK, GMBAE
- Molecular Biology Course, 28 June-09 July 1999, TÜBİTAK, GMBAE