

Curriculum Vitae Kemal Baysal

Name, position, academic department

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Date of Birth: May 26, 1962.

Birthplace: Ankara, Turkey.

Marital status: Married, with one daughter.

Education

1976 - 1979	Ankara Science Lycee.	High School diploma
1979 - 1985	Istanbul University, Istanbul Medical Faculty	Doctor of Medicine Degree.
1986 - 1989	Istanbul University, Istanbul Medical Faculty, Department of Biochemistry	Specialist in Clinical Biochemistry.
1989 - 1993	Ohio State University, Biochemistry Program, USA	Doctor of Philosophy degree in Biochemistry

Principal positions held

Jan 2018 - Present	Koç University, Topkapi, Istanbul	School of Medicine, Dept Biochemistry, Istanbul	Professor
April 2010 - Dec 2017	Dokuz Eylul University, Izmir	Dept. Biochemistry, Medical Faculty, Dokuz Eylul University, Izmir	Professor
October 1997 - April 2010	TÜBİTAK Marmara Research Center, Gebze, Kocaeli, Turkey.	Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center,	Associate Professor of Biochemistry, Director of Molecular Cell Biology Laboratory
October 1996 - September 1997	University of Pennsylvania, USA.	Prof. John R. Williamson's laboratory at the Department of Biochemistry and Biophysics, University of Pennsylvania, USA.	Post doctoral associate
October 1995 - June 1996	Ohio State University, USA.	Prof. Gerald P. Brierley's laboratory at the Department of Medical Biochemistry, Ohio State University, USA.	Post doctoral associate
September 1994 - September 1995	St.Elizabeth's Medical Center, Boston, USA.	Assist. Prof. Douglas W. Losordo's laboratory at the	Post doctoral associate

		Cardiovascular Research Division, St.Elizabeth's Medical Center, Boston, USA.	
June 1993 - August 1994	Ohio State University, USA.	Assoc. Prof. Ruth A. Altschuld's laboratory at the Department of Medical Biochemistry, Ohio State University, USA.	Post doctoral associate
1989 - June 1993	Ohio State University, USA.	Department of Medical Biochemistry, Ohio State University, USA.	Research assistant
1986 - 1989	Istanbul University, Istanbul	Department of Biochemistry, Istanbul University, Istanbul Medical Faculty.	Graduate research associate
1985 - 1986	Department of Health and Social Welfare.	Kesentas village, Diyarbakir, Turkey.	General practitioner

ADMINISTRATIVE POSITIONS HELD

September 2018- Present	Koç University, Istanbul	School of Medicine	Head, department of Biochemistry
April 2010 - September 2013	Dokuz Eylul University, Izmir	Advanced Biomedical Research Center, Dokuz Eylul University, Izmir.	Director
2005 - 2009	TÜBİTAK Marmara Research Center, Gebze, Kocaeli, Turkey.	Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center,	Institute Director
2000 - 2003	TÜBİTAK Marmara Research Center, Gebze, Kocaeli, Turkey.	Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center,	Institute Director

CURRENT PROJECTS

Formation of a 3-dimensional co-culture model of atherosclerosis, characterization of the RNA and protein content of the exosomes released from the cells in this co-culture model and assessment of the association between exosomes related to the development of atherosclerosis and severity of the coronary artery disease

İn vitro üç-boyutlu ko-kültür ateroskleroz modelinin geliştirilmesi, geliştirilen modelde hücrelerden salınan ekzozomların RNA ve protein içeriklerinin karakterizasyonu ve ateroskleroz gelişimiyle ilişkili olduğu belirlenen ekzozomların koroner arter hastalığının derecesi ile ilişkisinin incelenmesi

SBAG Accepted: 15.02.2021. TÜBİTAK 1001; 3 year project.

Principal investigator: K. Baysal

Probing the Metabolism of Gastric Tumor Spheroids using NMR

Seed Fund project (Sept 2020- Sept 2022)

Principal investigator: K. Baysal

Development of Microfluidic Cartridges Enabling 3D Cell Culture for Studying Tumor Spheroid Angiogenesis and Drug Response

Tümör Sferoidlerin Anjiyogenezinin ve İlaça Yanıtının İncelenmesi İçin 3 Boyutlu Hücre Kültürüne İzin veren Mikroakışkan Kartuş Geliştirilmesi

EEEAG..... 119E138

Accepted: 26.08.2019. TÜBİTAK 1001; 3 year project.

Project director: Assoc. Prof. Dr. AHMET CAN ERTEN (İSTANBUL Technical University).

Kemal Baysal; work package leader.

Development of Microfluidic Plasmonic Sensor for Multiplexed Detection of MicroRNA's as Biomarkers for Cardiovascular Diseases

Kardiyovaskular Hastalıklarda MikroRNAların Algılanmasına Yönelik Çoğullamalı Mikrofluidik Plazmonik Sensör Geliştirilmesi

Accepted: Jan 2021. TÜBİTAK-1001. 3-year project.

Project director: Dr. Berna Morova (Koç University).

Kemal Baysal; work package leader.

RESEARCH PROJECTS DIRECTED

1. The Effect of Antioxidant Molecules on the Differentiation of Wharton Jelly Mesenchymal Stem Cells to Endothelial Cells. DEU University supported project; 2017– 2018.
2. The Effects of Pre-Pregnancy Body Mass Index (p-BMI) and Weight Gain During the Second Trimester on Maternal Lipid Profiles, Adiponectin, Insulin Resistance and w3/w6 Fatty Acids. DEU University supported project; 2016 – 2018.
3. Isolation and Characterization of Wharton Jelly Mesenchymal Stem Cells from the Human Umbilical Cord and their in vitro Differentiation. DEU University supported project; 2015 – 2018.
4. The Effects of Different Cell Growth Media and Surface Materials on Rabbit Limbal Stem Cells during Limbal Explant Culture. DEU University supported project; 2013 – 2015.
5. Turkish partner coordinator in EU supported 7th Framework Program project “Fighting Aneurysmal Diseases” (FAD; Project No. 200647) 2008 – 2012. Project Director; Dr. J.B. Michel.
6. Director; TÜBİTAK - Macedonian collaboration project Polymers Suitable for Drug Carriers and Scaffolds for Tissue Engineering; Synthesis and Characterization (2003 - 2006).
7. 2001- 2006, the coordinator of a Turkish-Italian joint EUREKA project (E! 2202) (Collaborators: E. Martuschelli, M. Avella), *In vitro* and *in vivo* research utilizing biopolymers for the development of an artificial liver in the rat model.
8. Signal transduction in vessels, angiogenic mechanisms. Coordinator of TUBİTAK supported project (SBAG MAM1 102S 005) titled “Antiangiogenic approach utilizing function blocking monoclonal and scFv antibodies against the VEGF protein and its receptor KDR in a mouse model of hepatocarcinogenesis” (2001 - 2006).

RESEARCH INFRASTRUCTURE PROJECTS DIRECTED

1. Project director: State Planning Organization supported infrastructure project; “Advanced Biomedical Research Center” No. 2007K120750. 2010 – 2013.
2. Project director: State Planning Organization supported infrastructure project; “Research Institute for Genetic Engineering and Biotechnology, Proteomic Facility Center” 2008 – 2008.
3. Project director: State Planning Organization supported infrastructure project; “Research Institute for Genetic Engineering and Biotechnology, Research Building II” 2006 – 2009.

PROJECTS PARTICIPATED AS RESEARCHER

Participated in 6 projects as researcher: 4 TUBITAK, 1 IZKA and 1 EU FP7.

PATENTS

Turkish Patent Office: **“Vasküler endotel büyüme faktörüne (VEGF) bağlanan ve aktivitesini bloke eden peptit yapılar”**, Türk Patent Enstitüsü (Turkish Patent Institute, TPE), Patent No : TR 2007/00984 B, 2015.

Chinise Patent Office: **“Recombinant Antibody Structures Binding To and Blocking the Activity of Vascular Endothelial Growth Factor 2 (Vegfr-2/Kdr)”**
Patent No : 2010800690064. 2016.

US Patent Office: **“Recombinant antibody structures binding to and blocking the activity of vascular endothelial growth factor 2 (VEGFR—2/KDR)”**
Başvuru No: US 13/808,295 Patent No : US 9193792 B2. 2016.

PATENT APPLICATION

The official Turkish patent application for **“ÜÇ BOYUTLU BİR MİKROÇEVREDE HÜCRELERİN KÜLTÜRE EDİLMELERİNİ SAĞLAMAK İÇİN BİR MİKROAKIŞKAN PLATFORM”** was made on 17.07.2020. File number: 21644.23; Application number: **PCT/TR2020/050520**.

Ahmet ERTEN, Umut Can COŞKUN, Berna MOROVA, Kemal BAYSAL, Alper KİRAZ, ATEEQ UR REHMAN.

CURRENT RESEARCH

In the last 15 years, I have mainly worked on vascular biology. In a TUBITAK supported project, we generated function blocking monoclonal and scFv antibodies against the VEGF protein and its receptor KDR to be used in antiangiogenic applications. This project increased our understanding of endothelial cell biology and paved the way to advanced large projects involving recombinant antibodies at TUBITAK RIGEB.

The EU 7th Framework Program Project “Fighting Aneurysmal Disease” we participated, gave us the opportunity to investigate smooth muscle cell phenotypic changes in thoracic aortic aneurysms.

My project supported by Dokuz Eylul University has been the isolation, characterization of mesenchymal stem cells from the Wharton Jelly present in the umbilical cord. Our major aim has been to differentiate these cells into functional endothelial cells. We plan to utilize these cells in angiogenic assays and for angiogenesis in tissue engineered biomaterials.

In recent years, I have collaborated with polymer chemists to investigate cell-extracellular matrix interactions in tissue engineering. We have focused on signal transduction pathways involved in cell attachment on biomaterial surfaces, these studies have traditionally been made with 2D materials.

Current work:

- Role of Exosomes in Intercellular Communication in the Vascular Wall.
- Biochemical characterization of tumor spheroids, biomarker identification by NMR.
- A chip-based assay to characterize tumor angiogenic potential.

INSTITUTIONAL SERVICE

July 2019- June 2021	Koç University	KUSON Faculty Search Committee member
July 2019- September 2021	Koç University, School of Medicine	Academic Career Planning Committee member
Jan 2019- Present	Koç University	Library Advisory Committee member
May 2020- Jan 2021	Koç University	Plant Genetics Faculty Search Committee member
September 2019- July 2020	Koç University	Chemical-Biological Engineering Faculty Search Committee member
Aug 2018- February 2019	Koç University, School of Medicine	Committee for Appointments and Promotions member
Aug 2018- Present	Koç University, School of Medicine	Dean's Letter Committee member
Aug 2018- 2019	Koç University, School of Medicine	First Year Curriculum Revision Committee member
December 2014 – 2017	DEÜ University-Industry Application and Research Center (DESUM) Dokuz Eylul University, Izmir.	Administrative Board member
2004 - 2008	Research Animals Ethical Committee Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center.	Committee Director
2000 – 2001	World Bank Project, Infrastructure Acquisition Tender Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center.	Institute representative
2000 - 2001	Diagnostics Working Group Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research Center.	Working Group Coordinator

SERVICE IN INTERNATIONAL ORGANIZATIONS

March 2013 – March 2014	BBMRI-ERIC	Turkish representative
2000 - 2010	International Center for Genetic Engineering and Biotechnology (ICGEB)	Turkish representative for ICGEB and Affiliated Center Director
2007 - 2011	NATO Chemistry/Biology/Physics Panel	Turkish representative
2005 - 2007	EU 6 th Framework Programme ESFRI Steering Group on Research Infrastructures	Turkish representative

INTERNATIONAL PRACTICAL COURSES ORGANIZED

- 1) Advanced Practical Course in Mammalian Cell Biology
ICGEB supported international practical and theoretical course, 25 May – 4 June 2009.
- 2) Fluorescence Probes in Molecular and Cellular Biophysics (co-organizer).
3rd International Training Course. September 24 - 30, 2000.
- 3) Spectroscopy in Molecular and Cellular Biology (co-organizer).
2nd Theoretical and Practical Course. September 20-25, 1999.
- 4) Spectroscopy in Molecular and Cellular Biology (co-organizer).
Theoretical and Practical Course. November 2 - 6, 1998.

NATIONAL PRACTICAL COURSES ORGANIZED

- 1) Advanced Cell Biology Techniques Practical Training Course
Has been organized 8 times during the years 2004 - 2011.
- 2) Proteomic Research: Basic Information and Application Examples. Organized jointly by
Research Institute for Genetic Engineering and Biotechnology, TÜBİTAK Marmara Research
Center and Turkish Biochemical Society.
December, 2009 Bilim University, Şişli Florence Nightingale Hospital, Istanbul.

INTERNATIONAL MEETINGS ORGANIZED

EU Research Infrastructure Networks in Biomedical Sciences and National Research Centers in Turkey: Prospects of Collaboration

Organizer: Prof. Dr. Kemal Baysal

Advanced Biomedical Research Center, Dokuz Eylul University, Izmir.

7-8 February 2013.

NATIONAL MEETINGS ORGANIZED

KU Cardiovascular Research Group Meeting-I 22.06.2018

Organized by K Baysal at KUH.

KU Cardiovascular Research Group Meeting-II 3.09.2018

Organized by K Baysal at KUH.

Sağlıkta İnovasyon Üniversiteden Sanayiye (Health Innovations: From the University to Industry)
Training Workshop

Organizers: Prof. Dr. Kemal Baysal and Prof. Dr. Gul Guner

Dokuz Eylul University, Izmir. 16-17 May, 2013.

REVIEWER FOR PROFESSIONAL PUBLICATIONS

Autophagy.....2020, 2022
Archives of the Turkish Society of Cardiology2020, 2022
J. Biomaterials Applications2016 – 2017
Cytotechnology.....2017
Turkish J. of Chemistry.....2008 - 2011

GRANT REVIEW DUTY (2019- September 2020)

Panelist in 2019-2-Molecular biology 1001 grant proposal panel.
Reviewed two TUBİTAK 1002 projects.
Reviewed six TUBİTAK BİDEB fellowship applications.
Reviewed one TUBİTAK ICGEB projects.
Reviewed two TUSEB projects.

GRANT REVIEW DUTY (September 2020- August 2021)

Panelist in 2020 1001 grant proposal panel.
Reviewed four TUBİTAK 1002 projects.
Reviewed one TUBİTAK 2218 fellowship application.
Reviewed one KU Seed Fund project final report.
Reviewed one 1001 project final report.
Reviewed progress reports in two 1001 projects.

GRANT REVIEW DUTY (September 2021- August 2022)

Panelist in KBAG 2021 Organic Chemistry 1001 grant proposal panel.
Panelist in SBAG 2022 3501 grant proposal panel.
Reviewed six TUBİTAK 1002 projects.
Reviewed progress reports in two TUBİTAK 1001 projects.
Reviewed final report in one TUBİTAK 1001 project.
Reviewed one TUBİTAK 2219 International Post-doctoral research fellowship application.
Reviewed three TUBİTAK TEYDEB 1501 project proposals.

TEACHING AND MENTORING

THESES DIRECTED

Master's degree theses

Mehmet Gürdal, Dokuz Eylül Univ. Health Sciences Institute
Master's degree in biochemistry (completed).

Thesis co-advisor^{*}

- 1) Zela Adıgüzel, Marmara Univ. Medical Faculty, Medical Biology and Genetics program. Master's degree in Medical Biology and Genetics.
- 2) Zela Adıgüzel, İstanbul Univ. Faculty of Science Dept of Molecular Biology and Genetics PhD in Molecular Biology and Genetics.
- 3) Müge Serhatlı, İstanbul Univ. Medical Faculty, Dept of Biochemistry. Master's degree in biochemistry.
- 4) Müge Serhatlı, İstanbul Univ. Medical Faculty, Dept of Biochemistry. PhD degree in biochemistry.
- 5) Ömer Kaçar, Marmara Univ. Medical Faculty, Dept of Biochemistry. Master's degree in biochemistry.

* All following thesis were directly supervised by Dr. K. Baysal. Due to Turkish University regulations, K. Baysal was designated as a co-advisor, as he was not directly affiliated with the mentioned universities.

MSc and PhD thesis supervision

- Hilal Taşkiran, GSHS CAMM Program Master's degree student. 2019-Present. Thesis title: "Generation and Characterization of Tumor Spheroids from Gastric Cancer cell lines, SNU-484 and NCI-N87".
- Joumana Ali Al Akhdar, GSHS CAMM Program PhD student. 2021-Present. Thesis title: "Characterization of Exosomes formed by Smooth Muscle and Endothelial Cells".
- Fatıma Hacer Kurtoğlu, GSHS CAMM Program Master's degree student. 2021-Present. Thesis title: "Identification of Potential Atherogenic miRNA Markers in Exosomes formed in an in vitro Vascular Smooth Muscle Cell and Endothelial Cell Co-culture Model".
- Melike Nur Yangın, GSHS CAMM Program PhD student. 2022-Present. Thesis title: "Vascular Exosomes in Atherosclerosis".
- Ceren Çelik, GSHS CAMM Program Master's degree student. 2022-Present. Thesis title: "Metabolomics of Tumor Spheroids from Gastric Cancer cell lines".

TEACHING

YEAR	PROGRAM	COURSE	LEVEL
Academic year 2019-2020	Koç University, School of Nursing	NURS 202	Undergraduate nursing education
Academic year 2019-2020 2020-2021 2021-2022	Koç University, Medical Faculty	Second year medical school biochemistry lectures (22) and laboratory courses (3)	Undergraduate medical education
Academic year 2019-2020 2020-2021 2021-2022	Koç University, Medical Faculty	First year medical school biochemistry lectures in MEDI 110 (6) and laboratory course (1)	Undergraduate medical education
Academic year 2018-2019	Koç University, School of Nursing	NURS 202	Undergraduate nursing education
Academic year 2018-2019	Koç University, Medical Faculty	Second year medical school biochemistry lectures (22) and laboratory courses (2)	Undergraduate medical education
Each academic year from 2011-2012 to 2017-2018	DEÜ Medical Faculty	Problem based learning sessions supervised for 1 st year medical students (2 X 8 weeks each year)	Undergraduate medical education
Each academic year from 2011-2012 to 2017-2018	DEÜ Medical Faculty	Lectures in biochemistry and biochemistry practical sessions for 1 st year medical students	Undergraduate medical education
2016-2017	DEÜ Health Sciences Institute	5034 Biochemical Basis of Cellular Structure and Function (Director: Prof. Dr. K. Baysal) K. Baysal course load: %40	Master's degree program
2011-2012 2012-2013 2013-2014 2014-2015 2015-2016	DEÜ Health Sciences Institute	BIO5020 Cellular Molecular Mechanisms: Research Techniques (Director: Prof. Dr. Semra Koçtürk) K. Baysal course load: %40	Master's degree program

2016-2017 2017-2018			
2014-2015 2015-2016	DEÜ Basic Sciences Institute	BYT 6013 Recombinant Techniques in Biotechnology (English)	Master's degree program
2008-2009	Kocaeli University - TÜBİTAK Research Institute for Genetic Engineering and Biotechnology, Marmara Research Center joint program in "Medical Genetics and Molecular Biology"	MBG 505 "Cellular Physiology"	Master's degree program

PUBLICATIONS

- 1. Original scientific papers in SCI journals (44)**
- 2. Oral and poster presentations (71)**
- 3. Scientific projects directed (14)**

METRICS OF PUBLISHED WORK (Nov 19, 2022)

- Total citations: 1088 (Web of Science)
- Total citations (excluding self citations): 1051 (Web of Science)
- H index: 18 (Web of Science) (2022 Citing:51)
- Total citations: 1680 (Google Scholar)
- H index: 22 (Google Scholar) (2022 Citing:90)

REFEREED JOURNAL ARTICLES

- 1) U. C. Coskun, F. Kus, A. Ur Rehman, B. Morova, M. Gulle, H. Baser, D. Kul, A. Kiraz, K. Baysal, A. Erten
An Easy-to-Fabricate Microfluidic Shallow Trench Induced Three-Dimensional Cell Culturing and Imaging (STICI3D) Platform
ACS Omega 2022 7 (10), 8281-8293. <https://doi.org/10.1021/acsomega.1c05118>.
- 2) MGG Onem, C Coker, K Baysal, S Altunyurt, P Keskinoglu
The effects of pre-pregnancy obesity and gestational weight gain on maternal lipid profiles, fatty acids and insulin resistance
Journal of Perinatal Medicine. 2021; 49 (7), 873-883.
- 3) Yurtseven E.; Ural D.; Baysal K.; Tokgözoğlu L.
An Update on the Role of PCSK9 in Atherosclerosis
Journal of Atherosclerosis and Thrombosis. 2020; Volume 27 Issue 9 Pages 909-918.
<http://doi.org/10.5551/jat.55400>.
- 4) Ulus, G; Koparal, AT; Baysal, K; Yetik Anacak, G; Yavasoglu, NUK
The anti-angiogenic potential of (+/-) gossypol in comparison to suramin
Cytotechnology Volume: 70 Issue: 6 Pages: 1537-1550 Published: DEC 2018.
- 5) Gürdal, M., Barut Selver, Ö., Baysal, K., Durak I.
Comparison of culture media indicates a role for autologous serum in enhancing phenotypic preservation of rabbit limbal stem cells in explant culture.
Cytotechnology 2018; **70**, pages: 687–700. <https://doi.org/10.1007/s10616-017-0171-7> .
- 6) O.B Selver, I Durak, M Gürdal, K Baysal, H Ates, Z Ozbek, Z Wang, A Wu, J. M. Wolosin.
Corneal recovery in a rabbit limbal stem cell deficiency model by autologous grafts of tertiary outgrowths from cultivated limbal biopsy explant.
Molecular Vision 2016; 22:138-14.
- 7) Serhatli M, Baysal K, Acilan C, Tuncer E, Bekpinar S, Baykal AT.
Proteomic study of the microdissected aortic media in human thoracic aortic aneurysms.
J Proteome Res. 2014 Nov 7;13(11):5071-80. doi: 10.1021/pr5006586.
- 8) Adiguzel Z, Arda N, Kacar O, Serhatli M, Gezer Tas S, Baykal AT, Baysal K, Acilan C.
Evaluation of apoptotic molecular pathways for smooth muscle cells isolated from thoracic aortic aneurysms in response to oxidized sterols. Mol Biol Rep. 2014 Volume 41, Issue 12, pp 7875-7884.
- 9) Ayhan, CA; Baykal, B; Serhatli, M; Kacar Ö; Adigüzel Z; Taş S, Baysal K; Baykal AT
A preliminary proteomic evaluation of smooth muscle cells in thoracic aortic aneurysms
Turkish J. Biol. Volume: 38 Issue: 2 Pages: 238-252, 2014.
- 10) Aroguz, A Z.; Baysal, K; Adiguzel, Z; Baysal, B M.
Alginate/Polyoxyethylene and Alginate/Gelatin Hydrogels: Preparation, Characterization, and Application in Tissue Engineering
App Biochem. and Biotechnol. Volume: 173 Issue: 2 Pages: 433-448. May 2014.
- 11) A.T. Baykal, B. Baykal, M. Serhatli, Z. Adiguzel, M. A. Tuncer, Ö. Kacar, K. Baysal, C.A. Ayhan
Proteomic evidence for the plasticity of cultured vascular smooth muscle cells
Turkish Journal of Biology Volume: 37 Issue: 4 Pages: 414-425, 2013. DOI: 10.3906/biy-1208-14
- 12) Baysal, K; Aroguz, A Z.; Adiguzel, Z; Baysal, B M.
Chitosan/alginate crosslinked hydrogels: Preparation, characterization and application for cell growth purposes. International Journal of Biological Macromolecules 59: 342– 348, 2013.

- 13) Karal-Yilmaz O, Ozkan A, Akgun E, Kukut M, Baysal K, Avsar T, Kilic T. Controlled release of imatinib mesylate from PLGA microspheres inhibit craniopharyngioma mediated angiogenesis. *J Mater Sci Mater Med*. Volume: 24 Issue: 1 Pages: 147-153, 2013. DOI: 10.1007/s10856-012-4784-2
- 14) Acilan C, Serhatli M, Kacar O, Adiguzel Z, Tuncer A, Hayran M, Baysal K. Smooth muscle cells isolated from thoracic aortic aneurysms exhibit increased genomic damage, but similar tendency for apoptosis. *DNA Cell Biol*. Oct;31(10):1523-34. 2012.
- 15) Berrin Erdag, B. Koray Balcioglu, Aylin Ozdemir Bahadir Muge Serhatli Omer Kacar, Aydin Bahar, Urartu O. S. Seker, Emel Akgun, Abdulkadir Ozkan, Turker Kilic, Candan Tamerler, Kemal Baysal. Identification of novel neutralizing single-chain antibodies against vascular endothelial growth factor receptor 2 *Biotechnology and Applied Biochemistry* Volume 58, Issue 6, pages 412–422, November/December DOI: 10.1002/bab.61 2011.
- 16) Karal-Yilmaz O., Serhatli M., Baysal K., Baysal BM., Preparation and in-vitro characterization of vascular endothelial growth factor (VEGF)-loaded poly(DL-lactic-co-glycolic acid) microspheres using a double emulsion/solvent evaporation technique. *Journal of Microencapsulation* 28(1): 46-54, 2011.
- 17) A. Z. Aroguz, K. Baysal, B. Tasdelen, B. M. Baysal Preparation, characterization, and swelling and drug release properties of a crosslinked chitosan-polycaprolactone gel *Journal of Applied Polymer Science* Volume 119, Issue 5, 2885-2894, 2011.
- 18) B. Erdag, K. B. Balcioglu, A. Kumbasar, O. Celikbicak, G. Zeder-Lutz, D. Altschuh, B. Salih, K. Baysal. Novel short peptides isolated from phage display library inhibit vascular endothelial growth factor activity. *Molec. Biotechnology* Vol. 35: 51 – 64, 2007.
- 19) A. Başalp, F. Yücel, A. Kumbasar, K. Baysal MAbs against vascular endothelial growth factor receptor (KDR). *Hybridoma*. 25(4):249-250, 2006
- 20) F. Yücel, S. Öztürk, B. Erdağ, K.B. Balcıoğlu, A. Başalp, K. Baysal. MAbs against vascular endothelial growth factor. *Hybridoma*. 25(2):98 – 100, 2006
- 21) H. Bağış, S Arat, H. Odaman Mercan, D. Aktopraklıgil, M. Caner, E. Tahir Turanlı, K. Baysal, G. Turgut, S. Sekmen, B. Cırakoğlu. Stable Transmission and Expression of the Hepatitis B Virus Total Genome in Hybrid Transgenic Mice Until F10 Generation. *J. of Exp Zoology* 305A: 420–427, 2006.
- 22) O. Karal-Yılmaz, N. Kayaman-Apohan, Z. Mısırlı, K. Baysal, B. M. Baysal. Synthesis and Characterization of Poly(L-lactic acid-co-ethylene oxide-co-aspartic acid) and Its Interaction with Cells. *Journal of Materials Science: Materials in Medicine* 17: 213-227, 2006.
- 23) A.Porjazoska, O. Karal Yılmaz, K. Baysal, M. Cvetkovska, S.Şirvancı, F.Ercan, B.M. Baysal Synthesis and characterization of poly(ethylene glycol)-poly(D,L-lactide-co-glycolide)-poly(ethylene glycol) triblock copolymers modified with collagen: Cell growth on the surfaces, *Journal of Biomaterials Science, Polymer Edition*, Volume 17, Number 3, 2006, pp. 323-340(18), 2006.
- 24) A.Porjazoska, O.Karal-Yılmaz, N.K.Apohan, K. Baysal, M.Cvetkovska, B.M.Baysal “Synthesis of an ABA triblock copolymer of poly(DL-lactide) and polyethylene glycol and blends with poly(ε-caprolactone) as a promising material for biomedical application, *ACS Symposium series* 916 “New Polymeric Materials” L.S. Korugic-Karasz, W.J. MacKnight, E, Martuscelli, Eds., pp. 119-135. 2005.
- 25) M. Kaplan, K. Baysal. In Vitro Toxicity Test of Ethyl 2-Cyanoacrylate, a Tissue Adhesive Used in Cardiovascular Surgery, by Fibroblast Cell Culture Method. *The Heart Surgery Forum* 8 (5): 169-172, 2005.
- 26) H. Hanağası, D. Ayribaş, K. Baysal, M. Emre. Mitochondrial complex I, II/III, and IV activities in familial and sporadic Parkinson's disease. *Int. J. of Neurosci*. 115 (4): 479-493, 2005

- 27) A.Porjazoska, M.Cvetkovska, O.Karal Yılmaz, K. Baysal, N.K.Apohan, B.M.Baysal. Synthesis and Characterization of biocompatible multicomponent polymer systems as supports for cell cultures. *Bulletin of the Chemists and Technologists of Macedonia*, 23(2), 147-156, 2004
- 28) M. Korkmaz, B. H. Güvenç, A. Bilir, O. Karal-Yılmaz, A. Kumbasar, J. Caferler, K. Baysal. Isolation and Culture of Adult and Fetal Rabbit Bladder Smooth Muscle Cells and Their Interaction With Biopolymers. *British Journal of Pediatric Surgery*, Vol. 38, no 1, 21-24. 2003
- 29) A.Porjazoska, N.Kayaman-Apohan, O.Karal-Yılmaz, M.Cvetükovska, K.Baysal, B.M.Baysal. Synthesis and Characterization of Glycolide, L-Lactide and PDMS Based Terpolymers and Their Interaction with Cells. *J. Biomater. Sci Polymer Ed.* Vol 13, no 10; 1119-1134, 2002
- 30) N.Kayaman-Apohan, O.Karal-Yılmaz, K.Baysal, B.M.Baysal. Synthesis and characterization of Poly(dl-lactic acid)/triblock PCL-PDMS-PCL copolymers. *Polymer* 42; 4109-16, 2001.
- 31) J.A. Maloney, O.M. Tsygankova, L. Jang, Q. Li, A. Szot, K. Baysal, J.R. Williamson. Activation of ERK by calcium store depletion in rat liver epithelial cells. *Am. J. Physiol.* 276 (1 Pt 1); C221-30, 1999.
- 32) Y. Guo, K. Baysal, B. Kang, L.J. Yang, J.R. Williamson. Correlation between sustained c-Jun N-terminal protein kinase activation and apoptosis induced by tumor necrosis factor- α in rat mesangial cells. *J. Biol. Chem.* 273; 4027-34, 1998.
- 33) D.W. Jung, E. Panzeter, K. Baysal, G.P. Brierley On the relationship between matrix free Mg²⁺ concentration and total Mg²⁺ in heart mitochondria. *Biochim. Biophys. Acta* 1320; 310-20, 1997.
- 34) D.W. Jung, K. Baysal, G.P. Brierley. Properties of the Na⁺/Ca²⁺ antiport of heart mitochondria. *Ann. N.Y. Acad. Sci.* Vol. 779; 553-5, 1996.
- 35) D.W. Jung, C.J. Chapman, K. Baysal, D.R. Pfeiffer, G.P. Brierley On the use of fluorescent probes to estimate free Mg²⁺ in the matrix of heart mitochondria. *Arch.Biochem. Biophys.* 332;19-29, 1996.
- 36) K. Baysal, D.W. Losordo. Oestrogen receptors and cardiovascular disease. *Clin. Exp. Pharmacol. Physiol.* 23; 537-48, 1996.
- 37) D.W. Jung, K. Baysal, G.P. Brierley The sodium-calcium antiport of heart mitochondria is not electroneutral. *J. Biol. Chem.* 270; 672-8, 1995.
- 38) C. Gökkusu, K. Baysal, N. Salmayenli, H. Öz The role of thymosin F5 on anemia in hypercholesterolemic rabbits. *Horm. Metab. Res.* 27; 465-8, 1995
- 39) G.P. Brierley, K. Baysal, D.W. Jung. Cation transport systems in mitochondria: Na⁺ and K⁺ uniports and exchangers. *J. Bioenerg. Biomem.* 26; 519-26, 1994.
- 40) K. Baysal, D.W. Jung, K.K. Gunter, T.E. Gunter, G.P. Brierley. Na⁺ dependent Ca²⁺ efflux mechanism of heart mitochondria is not a passive Ca²⁺/2Na⁺ exchanger. *Am. J. Physiol.* 266; C800-8, 1994.
- 41) K. Baysal, G.P. Brierley, S. Novgorodov, D.W. Jung. Regulation of the mitochondrial Na⁺/Ca²⁺ antiport by matrix pH. *Arch. Biochem. Biophys.* 291; 383-9, 1991.
- 42) B. Ömer, P. Öner, K. Baysal, H. Öz. Effect of acetylsalicylic acid on liver plasma membrane Ca²⁺ ATPase activity. *Pol. J. Pharmacol. Pharm.* 42; 441-6, 1990.
- 43) S. Bekpinar, P. Öner, K. Baysal. Effect of acetylsalicylic acid on the lipid profile and acetylcholinesterase activity in rat brains. *Med. Sci. Res.* 17; 417-8, 1989.
- 44) B. Ömer, F. Eryürek, P. Öner, K. Baysal. Liver γ -Glutamyl transpeptidase activity following chronic treatment with acetylsalicylic acid in rats. *Enzyme* 42; 185-8, 1989.

BOOK CHAPTER

Kemal Baysal Bölüm 28 Biyobankalar ve Biyoteknolojideki Önemi. (Chapter 28; Biobanks and Their Significance in Biotechnology).

In "Güncel Biyoteknoloji ve Uygulamaları" (Current Biotechnology and its Applications)

Prof. Dr. Munis Dünder, Prof. Dr. Haydar Bağış, Eds.

Erciyes Üniversitesi Publication ISBN: 978-605-67442-0-4, 2017.

PRESENTATIONS IN INTERNATIONAL CONGRESSES AND SYMPOSIA

1) RELATIONSHIP BETWEEN LIPOPROTEIN (A) AND CORONARY ARTERY DISEASE IN PATIENTS WITH VERY HIGH LDL LEVEL

Ece Yurtseven (Turkey) Dilek Ural (Turkey) Berkay O. Cunedioğlu (Turkey) Erol Gursoy (Turkey) Saide Aytekin (Turkey) Vedat Aytekin (Turkey) Kemal Baysal (Turkey)

European Atherosclerosis Society EAS 2022 Conference May 22 – May 25, 2022, Milano, Italy.

Poster presentation.

2) Expressions of dna base excision genes in unipolar and bipolar depression

Ceylan, D; Yilmaz, S; Akan, P; Baysal, K; Ozerdem, A

BIPOLAR DISORDERS Volume 24 Page 37-38 Supplement1, Special Issue SI

Meeting Abstract P8

Published JUL 2022 Indexed 2022-07-10

Document Type: Meeting Abstract

3) Alterations in expressions of DNA base excision repair (BER) genes in unipolar and bipolar depression

Ceylan, D; Yilmaz, S Akan, P; Baysal, K; Ozerdem, A.

BIPOLAR DISORDERS Volume24 Page21-21 Supplement1 Special IssueSI

Meeting Abstract SY11.2

Published JUL 2022 Indexed 2022-07-10

Document Type: Meeting Abstract

4) Machine Learning-Based Approach to Identify Formalin-Fixed Paraffin-Embedded Glioblastoma and Healthy Brain Tissues

Torun, H; Batur, N; Bilgin, B; Esengur, OT; Baysal, K; Kulac, I; Solaroglu, I; Onbasli, MC.

Edited by: Campagnola, PJ (Campagnola, PJ); Maitland, KC (Maitland, KC); Roblyer, DM (Roblyer, DM)

MULTISCALE IMAGING AND SPECTROSCOPY III

Book Series Proceedings of SPIE Volume11944

Article Number 1194406 DOI 10.1117/12.2608957

Published 2022 Indexed 2022-06-26

Document Type: Proceedings Paper

5) Gender difference in the relation of serum lipoprotein (a) to reduced renal function in diabetic and non-diabetic patients

D Ural, E Yurtseven, BO Cunedioğlu, E Gursoy, OU Guler, SM Aytekin, V Aytekin, K Baysal

Atherosclerosis 331, e118 2021.

Published AUG 2021, Indexed 2021-09-23.

6) Impact of gender and diabetes on the relationship between lipoprotein (a) and coronary artery disease

E Yurtseven, D Ural, BO Cunedioğlu, E Gursoy, OU Guler, SM Aytekin, V Aytekin, K Baysal

Atherosclerosis 331, e116 2021.

Published AUG 2021, Indexed 2021-09-23.

- 7) Optimization of brain tissue section preparation and raman spectroscopy measurement protocols
H Torun, B Bilgin, K Baysal, İ Kulaç, İ Solaroğlu, MC Onbaşı
Enhanced Spectroscopies and Nanoimaging 2020 11468, 1146819.
- 8) Genetic algorithm-driven design of SERS-active surfaces for early detection of diseases
Bilgin, B.; Turkmen, B. ; Baysal, K. ; Solaroglu, I. ; Onbash, MC.
Conference: Conference on Biomedical Vibrational Spectroscopy 2020 - Advances in Research and Industry Location: San Francisco, CA Date: FEB 01-02, 2020
BIOMEDICAL VIBRATIONAL SPECTROSCOPY 2020: ADVANCES IN RESEARCH AND INDUSTRY Book Series: Proceedings of SPIE. Volume: 11236 Article Number: 112360Q Published: 2020.
- 9) The effects of antioxidant molecules on the oxidative stress induced by hydrogen peroxide in the mesenchymal stem cells and endothelial precursor cells
Tezcan, O ; Akan, P; San, T; Gunes, ME ; Oztekin, DC ; Baysal, K.
FEBS OPEN BIO Volume: 9 Supplement: 1 Pages: 240-241 Meeting Abstract: P-25-020 Published: JUL 2019.
- 10) Characterization of Wharton Jelly Mesenchymal stem cells from the human umbilical cord and investigation of the role of cellular metabolism on their in vitro differentiation
Tezcan, O; Bora, RU; Akan, P; Oztekin, D; Baysal, K.
Conference: 41st FEBS Congress on Molecular and Systems Biology for a Better Life Location: Kusadasi, TURKEY Date: SEP 03-08, 2016
FEBS JOURNAL Volume: 283 Special Issue: SI Supplement: 1 Pages: 308-308 Meeting Abstract: P05033-035.
- 11) The comparative proteomics analysis by lc-ms/ms of thoracic aortic aneurysms (taa) tissue
Muge Serhatli, Omer Kacar, Altug Tuncer, Kemal Baysal, Seldag Bekpinar, Ahmet Tarik Baykal.
15th European Congress on Biotechnology. European Federation of Biotechnology - ECB15 İstanbul.
Abstracts of the 15th European Congress on Biotechnology
NEW BIOTECHNOLOGY; 29; S158 2012.
- 12) A proteomic evaluation of smooth muscle cells in thoracic aortic aneurisms
Ceyda Acilan, Betul Baykal, Muge Serhatli, Omer Kacar, Zelal Adiguzel, Altug Tuncer, Kemal Baysal, Ahmet T. Baykal.
Trieste Conference on Frontiers in Cardiac and Vascular Regeneration, May 30-June 2, 2012. Trieste, Italy.
- 13) Chitosan-alginate and alginate-gelatin hydrogels: Preparation characterization and applications in tissue engineering
Baysal, Bahattin M.; Baysal, Kemal; Aroguz, Ayse Z.; Adiguzel Z.
Conference: 244th National Fall Meeting of the American-Chemical-Society (ACS) Philadelphia, PA Date: AUG 19-23, 2012.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY Volume: 244 Meeting Abstract: 54-CELL Published: AUG 19 2012.
- 14) Molecular pathways involved in the apoptosis of smooth muscle cells isolated from thoracic abdominal aneurysms in response to oxidized sterols
Zelal Adiguzel, Muge Serhatli, Omer Kacar, Altug Tuncer, Kemal Baysal, Nazli Arda, Ceyda Acilan
4th International Congress on Cell Membranes and Oxidative Stress:
Focus on Calcium Signaling and TRP Channels
Isparta, Türkiye. 26-29 Haziran 2012
Cell Membranes, Ion Channels and Calcium Signaling Volume 4, Number 1, 2012.
- 15) Local delivery of anti-angiogenic drug from PLGA blend microspheres for inhibition of brain tumor recurrence
Yilmaz, OK; Kukut, M; Akgun, E; Kilic, T; Baysal K

Conference: European Biotechnology Congress Istanbul, TURKEY. SEP 28-OCT 01, 2011
CURRENT OPINION IN BIOTECHNOLOGY Volume: 22 Supplement: 1 Pages: S121-
S121 Published: SEP 2011

16) Zelal Adıgüzel, Müge Serhatlı, Ömer Kaçar, Altuğ Tuncer, Eylem Tuncer, Kemal Baysal
Expression of Genes and Proteins in Ascending Thoracic Aortic Aneurysms and Smooth Muscle Cells
Isolated from Aneurysmal Samples
Conference: 78th Congress of the European-Atherosclerosis-Society. Hamburg, GERMANY JUN 20-23,
2010.

17) A.Z. Aroğuz, B.M. Baysal, K. Baysal
Synthesis of Hydrogels for Tissue Engineering and Biomaterials Applications
FP7 RP Dematen 1st Workshop and 2nd Training School
Novi Sad, Serbia, December 3-6 2009.

18) Kukut M, Yilmaz OK, Akgun E, Baysal K., Kilic, T.
Synthesis and Characterization of Imatinib Containing PLGA Microspheres
22nd European Congress on Biomaterials
Lausanne, Switzerland 7-11 September, 2009.

19) A.Z. Aroğuz, K. Baysal, B.M. Baysal
Chitosan-Polycaprolactone and Chitosan-Alginate Hydrogels for Tissue Engineering and Biomaterials
Conference: Symposium on Contemporary Science of Polymeric Materials. Valletta, MALTA. Feb 28-
March 02, 2009.

20) H. Savli, N. Çine, D. Sünnetçi, N. Üzülmöz, B. Nagy, S. Galimberti, K. Baysal, T. Limpaboon, P.
Limtrakul.
Gene network and canonical pathway analysis in hematopoietic and soft tissue originated malignancies: A
microarray experience of medical genetics department of Kocaeli University in 2007-2008
8th INCTR Meeting on Cancer in Countries with Limited Resources. Antalya, Turkey. March, 22-24 2009.

21) Y. Öztürk, V. Chumbalkar, Z. Adıgüzel, O. Bogler, K. Baysal
Proteome profiling of VEGF treated HUVEC cells by PROTEOMELAB™ PF2D (Two dimensional liquid-
phase) system (poster).
European Atherosclerosis Society Meeting. İstanbul, Turkey. April 26-29, 2008.

22) M. Serhatlı, O. Karal-Yılmaz, K. Baysal, B. M. Baysal.
Controlled release of functional vascular endothelial growth factor (VEGF) from poly(lactide-co-glycolide)
microspheres (poster).
9th International Symposium on Polymers for Advanced Technologies. Shanghai, China. October 22-25,
2007.

23) A. Başalp, F. Yücel, A. Kumbasar, K. Baysal.
Development and Characterization of Monoclonal Antibodies to VEGFR2 (poster).
Conference: 31st Congress of the Federation-of-European-Biochemical-Societies (FEBS) İstanbul,
TURKEY June 24-29, 2006.
FEBS Journal. 273, Supp 1 p.275 (Abstract) 2006.

24) F. Yücel, S. Öztürk, A. Kumbasar, M. Serhatlı, B. Erdağ, K.B. Balcıoğlu, A. Başalp, K. Baysal.
Production of Monoclonal Antibodies Against Vascular Endothelial Growth Factor (poster).
Conference: 31st Congress of the Federation-of-European-Biochemical-Societies (FEBS) İstanbul,
TURKEY June 24-29, 2006.
FEBS Journal. 273, Supp 1 p.273 (Abstract) 2006.

25) B. Erdag, K. Balcioğlu, A. Ozdemir, A. Kumbasar, K. Baysal
Production and characterization of neutralizing single-chain antibodies against human VEGFR2.
Conference: 31st Congress of the Federation-of-European-Biochemical-Societies (FEBS) İstanbul,
TURKEY Jun 24-29, 2006.
FEBS Journal. 273, Supp 1 p.274 (Abstract). 2006.

- 26) G. Yetik-Anacak, K. Baysal
 Glibenclamide increases superoxide levels and decreases cell viability in HUVEC (Poster).
 Conference: Experimental Biology 2005 Meeting/35th International Congress of Physiological Sciences (FASEB). San Diego, CA, USA. March 31-April 06, 2005
 FASEB J. 19 (4): A704-A705 Part 1 Suppl. S. 2005.
- 27) M. Kaplan, K. Baysal.
 In vitro toxicity test of ethyl 2-Cyanoacrylate, a tissue adhesive used in cardiovascular surgery, using L929 cells (poster).
 The European Society for Cardiovascular Surgery, 54th International Congress, Athens, Greece, May 19-22, 2005.
- 28) Ş. Öncül, K. Baysal, A.S. Klymchenko, Y. Mely, G. Duportail, A.P.Demchenko
 Hydrophobic 3-Hydroxyflavone derivatives as biomembrane probes (poster).
 9th International Congress on Methods and applications of fluorescence spectroscopy: Spectroscopy, Imaging and Probes (MAF9).
 Lisbon, Portugal. September 4-7, 2005.
- 29) Adıgüzel Z, Kumbasar A, Baysal K
 Gene Expression in Isolated Rat Hepatocytes Maintained in Collagen Monolayer or Sandwich Configuration (poster).
 23rd World Congress of Pathology and Laboratory Medicine
 İstanbul, 26-30 May 2005.
- 30) K. Baysal
 Biodegradable Copolymers for Tissue Engineering: Preparation, Modification with Type I Collagen and Characterization (invited talk).
 JRC Enlargement and Integration Workshop: Biointerfaces.
 Ispra, İtalya, 29-30 November 2005.
- 31) Aleksandra Porjazoska, Okşan Karal-Yılmaz, Nilhan Kayaman-Apohan, Kemal Baysal, Maja Cvetkovska, Bahattin M. Baysal
 Invited talk: Kemal Baysal
 Biodegradable Copolymers for Tissue Engineering: Preparation, Characterization and Cell Growth.
 International Conference of Nanotechnology, San Fransisco, California, USA,
 31 Ekim 2005 – 04 Kasım 2005
- 32) H. Kahraman, Z. Adıgüzel, K. Baysal, M. Korkmaz, H. B.Güvenç
 Connexin 43 Protein Expression in Adult and Fetal Rabbit Bladder Smooth Muscle Cells in Culture
 British Association of Pediatric Surgeons 51st Annual International Congress
 Oxford, England 27- 30 July 2004.
- 33) Hanagasi HA, Ayribas D, Baysal K, Emre M
 Mitochondrial complex I activity in familial and sporadic Parkinson's disease
 Conference: 8th International Congress of Parkinsons Disease and Movement Disorders. Rome, ITALY June 14-17, 2004
 MOVEMENT DISORDERS 19: S148-S148 P408 Suppl. 9, 2004.
- 34) Porjazoska, O. K. Yılmaz, N. K. Apohan, K. Baysal, M. Cvetkovska, B. M. Baysal, Synthesis and characterization of poly(ethylene glycol)-poly(D,L-lactate-co-glycolide)-poly(ethylene glycol) triblock copolymer modified with collagen,
 4th International Conference of the Chemical Societies of the South-East European Countries, Belgrade, Serbia and Montenegro, July 18-21, 2004 (A-P 35, Book of Abstracts, Vol. II, p.64). 2004.
- 35) O.Karal-Yılmaz, K.Baysal, A.Porjazoska, N.Kayaman-Apohan, M.Cvetkovska, B.M.Baysal, ABA triblock copolymers [A=poly(lactide-co-glycolide); B=poly(ethylene glycol)]: Synthesis, characterization and evaluation of cell growth, XVIIIth Congress of Chemists and Technologists of Macedonia, September 23-25, Ohrid, PPM-5, p 309. 2004.

- 36) A.Porjazoska, O.Karal-Yilmaz, N.Kayaman-Apohan, M.Cvetkovska, K.Baysal, B.M.Baysal, Biodegradable polymer blends of ABA triblock copolymer [A=poly(DL-lactide); B=poly(ethylene glycol)] and poly(ϵ -caprolactone): their characterization and degradation, XVIIIth Congress of Chemists and Technologists of Macedonia, September 23-25, Ohrid, PPM-6, p 311. 2004
- 37) Öztürk S, Kumbasar A, Yücel F, Başalp A, Baysal K, Çirakoğlu B.
“Production and characterization of monoclonal antibodies that block binding of Vascular Endothelial Growth factor (VEGF) to VEGF receptor for inhibition of solid tumor vascularization”.
European Conference on Biopharmaceutical Antibodies. Cannes - France, 20-22 Ekim 2003.
- 38) Serhatlı M., Karal-Yılmaz O., Baysal K., Baysal B.M.
Release Properties of Microspheres Prepared from Poly(lactide-co-glycolide) Copolymers (poster)
New Polymeric Materials
İtalya, 22-24 Ekim 2003.
- 39) Baysal, K.
TUBITAK Research Institute for Genetic Engineering and Biotechnology: Past Performance and Future Prospects
Edited by: Pak, NK; Rambaut, PC
Conference: NATO Advanced Research Workshop on the Integration of Science and Technology Systems of the Central Asian Republics into the Western World Location: Ankara, TURKEY Date: MAY 16-18, 2002. INTEGRATION OF SCIENCE AND TECHNOLOGY SYSTEMS OF THE CENTRAL ASIAN REPUBLICS INTO THE WESTERN WORLD Book Series: NATO ADVANCED SCIENCE INSTITUTES SERIES, SUB-SERIES 4, SCIENCE AND TECHNOLOGY POLICY Volume: 39 Pages: 89-90. Published: 2003.
- 40) Başalp A, Yücel F, Kumbasar A, Baysal K.
Function blocking antibodies against human vascular endothelial growth factor: production and characterisation (poster)
28. Uluslararası FEBS Kongresi. İstanbul – Türkiye, 20 – 25 Ekim 2002
FEBS Letters 269, Supp 1 p.84 (Abstract). 2002
- 41) Y. Ünlüçerçi, H. Koçak, L. Kuntsal, K.Baysal, S. Bekpınar
The Effect of Aminoguanidine on NOS Activity in Gastric Mucosal Damage in Rats (poster).
28. Uluslararası FEBS Kongresi, İstanbul-Türkiye, 20 - 25 Ekim 2002.
FEBS Letters 269, Supp 1 p. 124 (Abstract). 2002
- 42) Hanagasi HA, Ayribas D, Baysal K, Emre M
Mitochondrial complex II/III and complex IV activities in familial and sporadic Parkinson's disease
Conference: 7th International Congress of Parkinsons Disease and Movement Disorders. MIAMI, FLORIDA Nov. 10-14, 2002 .
MOVEMENT DISORDERS 17: S150-S150 P466 Suppl. 5, 2002
- 43) M. Korkmaz, B. H. Güvenç, A. Bilir, O. Karal-Yılmaz, A. Kumbasar, J. Caferler, K. Baysal.
Isolation and Culture of Adult and Fetal Rabbit Bladder Smooth Muscle Cells and Their Interaction With Biopolymers. Invited talk: M. Korkmaz.
British Association of Pediatric Surgeons Annual International Congress July 2002, Cambridge, England.
- 44) Baysal K., Kayaman-Apohan N., Karal-Yılmaz O., Baysal B.M.
Some Biodegradable Copolymers and Terpolymers: Preparation, Characterization and Studies of Their Degradation and Cell Interactions (poster)
Gordon Research Conference “Biomaterials/ Tissue Engineering”
Holderness School, New Hampshire, A.B.D. 22.07.2001- 27.07.2001.
- 45) K. Baysal
Ethical Considerations in Genetic Engineering (invited talk)
Reconstruction of Scientific Cooperation in South East Europe. Venice, Italy. March 24-27, 2001.

46) N.Kayaman-Apohan, O.Karal-Yılmaz, A.Porjazoska, M.Cvetükovska, K.Baysal, B.M.Baysal
Synthesis and Hydrolytic degradation of PLA/PCL-PDMS-PCL and PLGA/PDMS Copolymers and their interactions with cells (poster)
“Biopolymers: Advances in Medical and Material Science Applications” Konferansı Boston, Massachusetts, A.B.D. 15.10.2001- 16.10.2001.

47) D.W. Jung, E.S. Panzeter, K. Baysal, G.P. Brierley.
Regulation of K^+/H^+ antiport in heart mitochondria by matrix free Mg^{2+} and Ca^{2+} . Abstract presented at European Bioenergetics Conference, 26-31 Temmuz, 1992.

48) D.W. Jung, K. Baysal, G.P. Brierley. Matrix free Na^+ of isolated pig heart mitochondria.
Biophysical Journal 59:135a (Abstract), 1990.

PRESENTATIONS IN NATIONAL MEETINGS AND SYMPOSIA with INTERNATIONAL PARTICIPATION

1) Generation and Characterization of Tumor Spheroids from Gastric Cancer cell lines, SNU-484 and NCI-N87

Hilal TAŞKIRAN, Özgür ALBAYRAK, Çağdaş DAĞ, Gülnihal ÖZCAN, Kemal BAYSAL

1st International Basic Oncology Congress June 2-4, 2022, organized by the Basic Oncology Society in İstanbul-Turkey.

2) THE EFFECT OF DIFFERENT SURFACE MATERIALS ON LIMBAL EPITHELIAL STEM CELLS EXPANDED FROM LIMBAL EXPLANTS CULTURE III.

Mehmet GÜRDAL, Kemal BAYSAL, Özlem BARUT SELVER, İsmet DURAK

3rd International Stem Cell Symposium: New Approaches to Stem Cell Application in Patient-Based Therapy.

04-05 May 2017 Manisa-Turkey.

3) EFFECT OF PASSAGING ON LIMBAL EPITHELIAL STEM CELLS EXPANDED FROM LIMBAL EXPLANTS AT PROTEIN EXPRESSION LEVEL

Mehmet GÜRDAL, Kemal BAYSAL, Özlem BARUT SELVER, İsmet DURAK

3rd International Stem Cell Symposium: New Approaches to Stem Cell Application in Patient-Based Therapy.

04-05 May 2017 Manisa-Turkey.

4) Avrupa Birliği 7. Çerçeve Programı destekli “Fighting Aneurysmal Disease”- Torasik Aort Anevrizmalarında Düz Kas Hücrelerinin Gen ve Protein Ekspresyonlarında Değişiklikler”

Invited speaker: Kemal Baysal

5. Uluslararası Klinik Vasküler Biyoloji Kongresi

Kaya Artemis Otel, KKTC 5 - 9.05.2010.

5) Biodegradable Copolymers for Tissue Engineering: Preparation and Characterization

O. Karal-Yılmaz , A. Porjazoska , N. Kayaman-Apohan, K. Baysal, Z. Mısırlı , M. Cvetkovska , B. M. Baysal

Invited speaker: Kemal Baysal

Nano TR-I Nanoscience and Nanotechnology 2005

25-27 Mayıs 2005, Ankara.

6) “Angiogenesis: Molecular Mechanisms”

Invited speaker: Kemal Baysal

XIth International Symposium on Biomedical Science and Technology BIOMED 2004 Congress.

6 – 10 Eylül 2004 Hacettepe Üniv. Ankara.

7) Assessment of Myosin Heavy Chain and Connexin 43 protein expressions in cultured fetal and adult bladder smooth muscle cells (poster)

Baysal K., Assa P., Kahraman H., Adıgüzel Z., Korkmaz M., Güvenç H.B.
13. Balkan Biyokimya ve Biyofizik Günleri (13th Balkan Biochemical and Biophysical Days)
Kuşadası, 12-15 Ekim 2003.

8) Morphology and in vitro Release Profiles of Poly(α -hydroxy acid) Microspheres Containing Protein fabricated by Double Emulsion Solvent Evaporation Technique
Karal-Yılmaz O., Serhatlı, M., Kayaman-Apohan N., Kumbasar A., Baysal K., Baysal, B.M.
IXth International Symposium on Biomedical Science and Technology (Biomed 2002 Congress).
Kemer, Antalya 19-22 Eylül 2002.

PUBLICATIONS IN NATIONAL JOURNALS

- 1) P. Öner, B. Ömer, K. Baysal, H. Öz,
Karaciğer plazma membranı Ca^{2+} ATPaz aktivitesine asetil salisilik asidin etkisi. ANKEM Dergisi 2:4 1990.
- 2) C. Gökkuşu, K. Baysal, H. Öz, B. Öz
Whole blood and erythrocyte 2,3-DPG concentrations in diet-induced atherosclerosis. Med. Bull. İstanbul 25: 57-64 1992.

PRESENTATIONS IN NATIONAL MEETINGS AND SYMPOSIA

- 1) Deneysel Limbal Kök Hücre Yetmezliği Hayvan Modelinde, Limbal Biyopsiden Üretilen Epitelyal Kök Hücre Kültürlerinin Pasajlanmasının Oküler Yüzey Rejenerasyonu Üzerine etkinliğinin değerlendirilmesi
İ Durak, ÖB Selver, M Gürdal, K Baysal, Z Özbek, H Ateş, JM Wolosin
TOD 49. Ulusal Kongresi, İstanbul. 4-8 Kasım 2015.
- 2) Amniyotik membranın limbal epitelyal hücre kültürlerindeki kök hücre çoğalmasına etkisi
Özlem Barut Selver, Mehmet Gürdal, İsmet Durak, Kemal Baysal, Halil Ateş, Jose Mario Wolosin
TOD 47. Ulusal Kongresi. Antalya. 6-10 Kasım 2013.
- 3) Östrojen ve Oksitosin Etkileştirilmiş Endotel Hücrelerinin NLC-MS/MS Protein Ekspresyon Analizi
Ömer Kaçar, Kemal Baysal, Serpil Bilsel, Oya Demirci, Sadiye Eren, Oktay Külen, Ahmet Tarık Baykal
XXIV. Ulusal Biyokimya Kongresi, Konya. 25-28 Eylül 2012.
- 3) Altuğ Tuncer, Serpil Tas, Eylem Tuncer, Murat Songur, Zelal Adıguzel, Müge Serhatlı, Ömer Kaçar, Kemal Baysal, Hasan Sunar, Cevat Yakut,
Torasik Aort Anevrizma Dokuları ve Düz Kas Hücrelerinde Gen ve Protein Ekspresyonunun İncelenmesi
Türk Kalp ve Damar Cerrahisi Derneği, 11. Ulusal Kongresi
WOW Topkapı-Kremlin Palace, Antalya. 27-31 Ekim 2010.
- 4) Timuçin Avşar, Emel Akgün, Okşan Karal Yılmaz, Manolya Küküt, Kemal Baysal, Türker Kılıç.
İmatinib içeren biyobozunur poli(laktik-glikolik asit) kopolimeri (PLGA) mikrokürelerin kraniofarengiomlarda nüksü engelleyebilirliğinin araştırılması
Sinir Sistemi Cerrahisi Derneği, VI. Ulusal Kongresi
Grand Yazıcı Mares Otel, Marmaris. 28-31 Ekim 2010.
- 5) M. Serhatlı, Ö. Kaçar, Z. Adıgüzel, A. Tuncer, E. Tuncer, K. Baysal
Torasik Aortik Anevrizma (TAA) dokularından Elde Edilen Düz Kas Hücrelerinin Karakterizasyonu (sözlü sunum)
XXI. Ulusal Biyokimya Kongresi
Askeri Müze ve Kültür Sitesi, İstanbul, 28 - 31 Ekim 2009.
- 6) Ö. Kaçar, M. Serhatlı, A. Tuncer, E. Tuncer, K. Baysal

Torasik Aortik Anevrizma (TAA) Dokularında Ekstraselüler Matriks Moleküllerinin Karakterizasyonu (poster)

XXI. Ulusal Biyokimya Kongresi

Askeri Müze ve Kültür Sitesi, İstanbul, 28 - 31 Ekim 2009.

7) Ceyda Açılan, Müge Serhatlı, Zelal Adıgüzel, Kemal Baysal.

Anevrizmal Dokudan İzole Edilmiş Düz Kas Hücrelerinde Apoptoza Yatkınlığın, Mekanizmalarının Ve Genomik Bozukluklarının İncelenmesi

11. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, Bodrum

8) H. Savlı, K. Baysal, Z. Adıgüzel, B. Nagy

Endotel Hücrelerinde Mikroarray Analizleri: VEGF'in Farklı Sinyal Altyollarına Etkisi

VIII. Ulusal Tıbbi Genetik Kongresi. Çanakkale. 6-9 Mayıs, 2008.

9) Aroğuz A.Z., Baysal K, Baysal B.M.

Preparation and Characterization of a Crosslinked Chitosan-Polycaprolactone Gel and its Interaction with Cells.

XXII. Ulusal Kimya Kongresi, Mağusa, KKTC, 6 - 10 Ekim 2008.

10) Porjazoska A, Karal Yılmaz O, Apohan Kayaman N, Baysal K, Cvetkovska M, Baysal B.M.

Doku Mühendisliği Uygulamalarına Yönelik Biyobozunur Kopolimerlerin Oluşturulması ve Karakterizasyonu.

XIX. Ulusal Kimya Kongresi, İzmir, Kuşadası, 30 Eylül - 4 Ekim 2005.

11) Serhatlı M, Karal Yılmaz O., Baysal K., Baysal B.M.

Çifte Emülsiyon Solvent Ekstraksiyonu/Evaporasyonu Metodu ile Oluşturulan Protein İçeren PLGA Mikrokürelerin Karakterizasyonu

Sözlü sunum : Dr. Okşan Karal-Yılmaz

XIX.Ulusal Kimya Kongresi, İzmir, Kuşadası, 30 Eylül-4 Ekim 2005.

12) Karal-Yılmaz O., Kayaman-Apohan N., Baysal K., Baysal B.

Biyopozunur Kopolimerlerin Sentezi ve Karakterizasyonu (poster)

17. Ulusal Kimya Kongresi

İstanbul Üniversitesi, İstanbul. 8-11 Eylül 2003.

13) G. Yetik-Anacak, K. Baysal, L. Üstünes

K_{ATP} kanal blokörü glibenklamid insan endotel hücrelerinde süperoksit radikal artışına yol açmaktadır.

Serbest Radikaller ve Antioksidanlar Araştırma Derneği III. Ulusal Kongresi.

Afyon. 27 -30 Mart, 2003.

14) Berrin Erdag, Bertan Koray Balcioglu, Selma Ozturk, Aynur Basalp, Fatima Yucel, Kemal Baysal, Beyazıt Çirakoğlu

Blocking angiogenesis by the production of recombinant antibodies against Vascular Endothelial Growth Factor.

XV. Ulusal Kanser Kongresi (Abstrakt kitabı sayfa: 60).

Antalya, Türkiye. 23-27 Nisan 2003.

15) M. Korkmaz, B. H. Güvenç, A. Bilir, O. Karal-Yılmaz, A. Kumbasar, J. Caferler, K. Baysal.

Erişkin ve fetal tavşan mesane düz kas hücre kültürlerinin biyopolimerler ile etkileşimleri

XX. Türkiye Çocuk Cerrahisi Derneği Kongresi, Mersin. 15-19 Ekim, 2002.

16) U. Çakatay, A. Telci, Z. Adıgüzel, K. Baysal

Maternal Geçişli Tip II Diyabet Olgularında mtDNA'da A3243G Mutasyonunun Belirlenmesi (poster).

XVI. Ulusal Biyokimya Kongresi, İkinci Uluslararası Biyobilim Günleri

Selçuk, İzmir. 23-27 Ekim 2000.

17) D. Ayırbaş, K. Baysal, H. Hanağası, M. Emre.

İnsan Trombositlerinden İzole Edilmiş Mitokondrilerde Kompleks I ve IV Aktivitelerinin Ölçülmesi (poster).

XII. Ulusal Biyofizik Kongresi
İstanbul Üniversitesi, ÜNİSAM, Silivri, İstanbul. 7-9 Eylül 2000.

18) K. Baysal, D.W. Jung, G.P. Brierley.
Mitokondri Membranında Bulunan Na⁺/Ca²⁺ Antiport Proteininin Fonksiyon ve Regülasyonu Üzerinde Çalışmalar
X. Ulusal Biyofizik Kongresi.
İstanbul Teknik Üniversitesi, İstanbul. 10-12 Eylül 1998.

19) S. Bekpınar, P. Öner, K. Baysal
Aspirinin sıçan beyin lipidleri ve asetilkolinesteraz aktivitesine etkileri.
11. Ulusal Biyokimya Kongresi 24-29 Ekim, 1992.

20) P. Öner, T. Altuğ, S. Bekpınar, G. Deniz, K. Baysal, F. Arat
E vitamini ve selenyum verilmiş sıçanlarda eritrosit 2,3-Difosfoliserat (DPG) düzeyleri.
İstanbul Üniv., İstanbul Tıp Fakültesi 9. Kurultayı. 22-25 Eylül, 1987, İstanbul.

INVITED TALKS IN NATIONAL MEETINGS AND SYMPOSIA

1) K. Baysal
"Biobanka ve Kök Hücre Araştırmalarındaki Yeri" (sözlü sunum).
Uluslararası Katılımlı Kök Hücre Çalıştayı: Klinik Kullanım için Kök Hücre.
Manisa. Eylül 2014.

2) K. Baysal
"Anjiyogenezde Ekstraselüler Matriksin Rolü" (sözlü sunum).
II. Klinik Biyokimya ve Kansere Sempozyumu.
Bursa. 16 - 18 Nisan 2004.

3) K. Baysal
"Anjiyogenezin Moleküler Mekanizması" başlıklı konferans
Marmara Üniversitesi "Marmara Tıp Günleri"
İstanbul. 8-11 Eylül 2003.

4) K. Baysal
"Antianjiyogenez Uygulamalarının Biyokimyasal Temeli" başlıklı bir panel sunumu.
Klinik Biyokimya ve Kansere Sempozyumu.
Bursa. 26-29 Eylül 2002.

5) K. Baysal.
Hücre Biyolojisinin Yeni İlgi Alanı Olarak Klasik Biyoenerjiğin Temel Organeli: Mitokondrinin Apoptozis'teki Rolü
XI. Ulusal Biyofizik Kongresi
Antalya. 31 Ekim - 2 Kasım 1999.

INVITED TALKS IN SCIENTIFIC MEETINGS OTHER THAN NATIONAL MEETINGS AND SYMPOSIA

1) K. Baysal
Araştırma Biyobankacılığı: Etik Rehber Oluşturulması ve Model Önerisi Çalıştayı. Hacettepe Üniversitesi,
Ankara. 2014.

2) K. Baysal
Bilimsel Araştırmaların Yaşamımıza Etkileri
Dokuz Eylül Üniversitesi, Düşün Toplantıları. 21 Nisan, 2009.

3) K. Baysal
Funding opportunities for cancer research and clinical trials in Turkey.

Yeditepe Univ System and MD Anderson Cancer Center “Joint Oncology Symposium” Yeditepe Üniv., İstanbul. 26 - 27 Mart, 2009.

4) K. Baysal

Anjiyogenezin Moleküler Mekanizması, Antianjiyogenik Uygulamalar.

III. Ulusal Moleküler Biyoloji ve Genetik Öğrenci Kış Okulu, İstanbul. 18 Mart, 2006.

5) K. Baysal

Genetiğin lipid tedavisindeki kullanım alanları.

Ateroskleroz Derneği'nin “Dislipidemi: İki Bakış Açısı” toplantısı, İstanbul. 21 Nisan, 2005.

6) K. Baysal

“Anjiyogenez Mekanizması, Kanslerle İlişkisi, Antianjiyogenik Tedavilerin Klinikteki Yeri” Panel sunumu.

İstanbul Üniv. İstanbul Tıp Fakültesi, Çocuk Sağlığı ve Hastalıkları ABD., 22 Mart, 2002.

7) K. Baysal

Vasküler düz kas hücrelerinde östrojenin gen ekspresyonuna etkisi

TÜBİTAK MAM GMBAE, Gebze. 13 Temmuz, 1995.

INVITED TALKS IN AIMED AT A GENERAL AUDIANCE

1) K. Baysal

Uluslararası Gen Mühendisliği ve Biyoteknoloji Merkezi (International Centre for Genetic Engineering and Biotechnology, ICGEB) tanıtımı, destekler ve başvuru koşulları.

TÜBİTAK Uluslararası İşbirliği Programları Bilgi Günü. Ankara. 21 Kasım, 2008.

2) K. Baysal

Gen Mühendisliği'ndeki Gelişmeler ve Türkiye'deki Uygulamaları.

İstanbul Kadıköy Rotary Kulübü, İstanbul. 9 Eylül, 2002.

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