

Özge Karabıyık Acar, PhD

Address E-mail Phone Personal Information Sex Date of Birth Nationality	Kadikoy - Istanbul - Turkey ozgeacark@gmail.com +90 545 5531666 Female 13/01/1988 Turkish
Driving License Education	B - A2
 Ph.D. (Research Assistant) 	Yeditepe University – Istanbul Graduate School of Natural and Applied Sciences, Biotechnology (Full scholarship) 2010 – 2017
> University	Yeditepe University – Istanbul Genetics and Bioengineering 2006 – 2010
> High School	Bornova Anatolian High School – Izmir 2002 –2006
Secondary School	Izmir Turk College – Izmir 1994 –2002
Work Experience	
≻ 11/2019 –	 Yeditepe University – Graduate School of Natural and Applied Sciences, Biotechnology Job Title: Post-Doctoral Researcher Introduction: Tissue engineering; Parathyroid, Thyroid, Thymus Cell culture; Stem cell and primer cell research, isolation and culturing Biomaterials; Fabrication, polymer usage Microscopy; Confocal, Fluorescence, Live cell imaging Molecular biology techniques; Real-Time PCR, Flow cytometer, Western blot, ELISA

➢ 02/2018 − 10/2019	SACEM Hayat Teknolojileri A.Ş. Job Title: Field Application & Marketing Specialist
	Introduction:
	Technical and application support to sales team and customers; analyzing data, troubleshooting problems and finding solutions for instruments and assays.
	Application and marketing activities of responsible brands; perform instrument/product presentations and live demonstrations; identify, develop and
	implement marketing strategies and monitor the results for responsible products.
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	Responsible brands:
	Merck-Millipore (Life Science); Scepter Cell Counter, Direct Detect
	Spectrometer, CellASIC ONIX Live Cell Analysis, Milliplex Multiplex Assays
	Luminex; xMAP Instruments: Magpix, Luminex 100/200 and Flow Cytometry
	& Imaging Instruments: Amnis - CellStream, FlowSight, ImageStreamX and
	Guava - EasyCyte, Muse Cell Analyzer
	LGC Standards; ATCC Cells and Microorganism, Mikromol Reference
	Standards
> 09/2010 - 10/2017	Yeditepe University – The Institute of Graduate Studies in Science
	and Engineering, Genetics and Bioengineering
	Job Title: Research Assistant (Full Scholarship)
	Introduction:
	Tissue engineering; Cartilage, bone and nerve
	Cell culture; Stem cell research, isolation and culturing
	Biomaterials Research; Synthesis, fabrication, polymers, complex coacervation,
	electrospinning
	Microscopy; Confocal and Fluorescence
	Molecular biology techniques; Real-Time PCR, Flow cytometer, Western blot,
	ELISA
➢ 06/2009 – 08/2009	Hamburg University of Applied Sciences – Germany
	Department: Faculty of Life Sciences Laboratory of Bioprocess Automation
	– Biotechnology Laboratory
	Job Title: Intern
	Introduction:
	Production of the Recombinant Chemokine 1,3-del I-TAC in cultivations with
	Pichia Pastoris using the labscale bioreactor BIOSTAT Aplus.
	Analytical methods to assess the fermentation by determining the target
	protein concentration and purity Detailed internship report and university report can be shared when requested.
	Detailed internship report and university report can be shared when requested.
➢ 06/2008 – 07/2008	Izmir Institute of Technology (IZTECH)
	Department: Molecular Immunology and Gene Regulation Laboratory
	Job Title: Intern
	Introduction:
	Protein Analyze, SDS – PAGE Electrophoresis
	Silver Staining
	Cell Culture and Immunofluorescence Staining

Dokuz Eylül University Hospital - Izmir Department: Medical Biology and Genetics Department Job Title: Intern Introduction: Cell Culture, Giemsa Banding Technique, DNA and RNA Isolation from Leukocyte, FISH (Fluorescent in situ Hybridization), Caryotype Analysis

Patents, Publications and Projects

Koaservat üretimi yöntemi ve bu üretim yöntemi ile elde edilen koaservatlar ve bunların doku iskelesi olarak kullanımı (WO2019054971A3), 2017 G.T. Kose, **O. Karabiyik Acar**, B. Kayitmazer

Hyaluronic acid/Chitosan coacervate-based scaffolds. *Biomacromolecules*, 2018, DOI: 10.1021/acs.biomac.8b00047 O. Karabiyik Acar, B. Kayitmazer, G.T. Kose

Surface modification of Ti6Al4V via micro-arc oxidation in AgC₂H₃O₂ containing electrolyte. *Surface Innovations*, 2018, DOI: 10.1680/jsuin.18.00007
D. A. Teker, F. Muhaffel, O. Karabiyik Acar, E. Nursen Topcuoglu, H. Guven Kulekci, G. Torun Kose, M. Baydogan, H. Cimenoglu

Macroporous biodegradable cryogels of synthetic poly(α-amino acids): An evaluation of their chondrogenic potential. *Soft Matter*, 2017, DOI: 10.1039/C7SM02074K T. Sedlačík, **O. Karabiyik Acar**, H. Studenovská, I. Kotelnikov, J. Kučka, Z. Konečná, T. Zikmund, J. Kaiser, G. Kose, F. Rypacek

Optimisation of micro-arc oxidation electrolyte for fabrication of antibacterial coating on titanium. *Materials technology: Advanced Performance Materials*, 2017, DOI: 10.1080/10667857.2017.1391931 D. A. Teker, F. Muhaffel, M. Kilic, **O. Karabiyik Acar,** G. Cempura, M. Baydogan, N.G. Karaguler, G.T. Kose, A.C Filemonowicz, H. Cimenoglu

The effect of accelerated mineral trioxide aggregate on odontoblastic differentiation in dental pulp stem cell niches, *International Endodontic Journal*, 2017, DOI: 10.1111/iej.12747 - Financial support of Marmara University, Scientific Research Commission (SAG-C-DRP-280214-0036), 2013-2014 P. Kulan, **O. Karabiyik**, G.T. Kose, B. Kargul

Biocompatibility of accelerated mineral trioxide aggregate on stem cells derived from human dental pulp, *International Endodontic Journal*, 2016, DOI: 10.1016/j.joen.2015.10.015 - Financial support of Marmara University, Scientific Research Commission (SAG-C-DRP-280214-0036), 2013-2014 P. Kulan, **O. Karabiyik**, G.T. Kose, B. Kargul

Poly (α-amino acid)-based fibrous scaffolds modified with surface-pendant peptides for cartilage tissue engineering, J Tissue Eng Regen Med., 2015, DOI: 10.1002/term.1982 - Financial support of ASCR-TUBITAK (111M031) 2012-2013 I Syobodová V Proks Ö Karabivik A C Calikožlu Kovuncu G T Köse F Rypáček H Studenovská

J. Svobodová, V. Proks, Ö. Karabiyik, A.C. Çalıkoğlu Koyuncu, G.T. Köse, F. Rypáček, H. Studenovská

The usage of hyaluronic acid-chitosan coacervates for cartilage tissue engineering (Thesis Project), 2014-2017 O. Karabiyik Acar, B. Kayitmazer, G.T. Kose

Molecular investigation of the inhibition of bone formation after spongious allografting of the MSC isolated from bone and adipose tissues, TOTBID (Association of Turkish Orthopedy and Traumatology), 2011-2012 T. Beyzadeoglu, K. Yüksel, Ö. Karabiyik, F. Altintas, A. Ivkovic, C.H. Evans, R.M. Porter, G.T. Köse

Biodegradable polypeptide-based hydrogels for soft tissue regeneration, Tübitak Joint Research and Development Project, 2011-2013 G. Torun Köse, M. Ramazanoglu, **Ö. Karabiyik**, A.C. Calikoglu, J. Svadobova, T. Sedlacik, V. Proks, H. Studenovska

Nerve regeneration on a system consisting of PLGA tubes and laminin-1-collagen nanofibers, L'Oréal Women Scientist of Turkey Scholarship Project, 2011-2012 G. Torun Köse, D. Yücel, Ö. Karabıyık, A.İ. Kanneci, V. Hasırcı

The effect of nitric oxide on tissue transglutaminase mediated cell migration (Graduation Project), 2009-2010 **O. Karabiyik**, D. Telci

Research Interests

Tissue Engineering, Stem Cell Research, Biomaterials, Complex Coacervation

Teaching Experience

BTEC 535 Mammalian Tissue Engineering (2019-2020)
GBE 492 Undergraduate Project (2015-2017)
GBE 216 Classical and Molecular Genetics Laboratory (2011- 2017)
GBE 203 Microbiology Laboratory (2010-2011)

Computer Skills

MS Office Programs: Excellent Matlab: Excellent Origin: Excellent Fortran: Good GraphPad Prism: Excellent

Language Skills

English

German

Reading: Advanced, Writing: Advanced, Speaking: Advanced

➢ March 5th, 2017 − YÖKDİL Exam: 95

Reading: Beginner, Writing: Beginner, Speaking: Beginner

Certificates and Seminars:

- October 11th- 14th, 2018 7th Multidisciplinary Cancer Research & 1st Basic Oncology Conference, Izmir, Turkey Muse Cell Analyzer Workshop (Oral Presentation & Application)
- January 19th-21st, 2018 Writing Project Proposal in the Field of Health Science and Project Management Course-TUBITAK 2237, Istanbul, Turkey
- September 20th, 2017 2nd TUBA-KAST Bilateral Symposium (Biotechnology and its applications), Istanbul, Turkey

> September $4^{th} - 8^{th}$, $2017 - 28^{th}$ Annual Conference of the European Society for Biomaterials, Athens, Greece Effect of silver acetate concentration on the microstructural and antibacterial properties of oxidized titanium (Oral Presentation),

D. Teker Aydogan, F. Muhaffel, M. Menekse, O. Karabiyik Acar, G. Cempura, M. Baydogan, N. Gul Karaguler, G.T. Kose, A. Czyrska-Filemonowicz, H. Cimenoglu

➢ May 12th − 14th, 2017 − The 22nd Biomedical Science and Technology Symposium (BIOMED), Ankara, Turkey Coacervate usage in tissue engineering (Poster presentation),

O. Karabiyik Acar, S. Bedir, B. Kayitmazer, G.T. Kose

- May 3rd 5th, 2017 International R&D Collaboration Summit and Fair, Istanbul, Turkey
- April 2nd 6th, 2017 253rd American Chemical Society National Meeting & Exposition (ACS), California, United States

Coacervates from biopolymers for cartilage tissue regeneration (Oral presentation),

O. Karabiyik Acar, B. Kayitmazer, G.T. Kose

- November 2nd, 2016 Bioprinting in Tissue Engineering, Polymeric Materials & Bioceramic Composites (Workshop), Kocaeli University, Kocaeli, Turkey
- Cotober 15th 18th, 2015 2nd International Congress on Stem Cell and Cellular Therapies, Antalya, Turkey

Usage of accelerated mineral trioxide aggregate for odontoblastic differentiation (Poster presentation), O. Karabiyik, P. Kulan, B. Kargul, G.T. Kose

➤ August 16th – 20th, 2015 – 250th ACS National Meeting & Exposition, Boston, United States

Coacervates of ionic polysaccharides for tissue engineering (Oral presentation),

O. Karabiyik, B. Kayitmazer, E.K. Iyilik, G.T. Kose

➢ July 1st − 4th, 2015 − 25th Congress of the International Association of Paediatric Dentistry (IAPD), Glasgow, United Kingdom

Cytotoxicity of accelerated mineral trioxide aggregate on stem cells from human dental pulp (Poster presentation),

P. Kulan, O. Karabiyik, G.T. Kose, B. Kargul

September 8th – 12th, 2013 – 25th European Conference on Biomaterials, Madrid, Spain

Comparison of Hydrogel-like and Fibrous Poly(alpha-Amino Acid)-Based Scaffolds for Cartilage Tissue Engineering (Poster Presentation),

G. Torun Köse, A.C. Çalıkoğlu Koyuncu, Ö. Karabıyık, M. Ramazanoğlu, J. Svobodova, V. Proks, H. Studenovska

➢ June 17th − 20th, 2013 − The European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society (TERMIS-EU), Istanbul, Turkey

Effect of biomimetic modification of porous polypeptide hydrogels on stem cell chondrogenesis (Poster Presentation),

H. Studenovska, V. Proks, J. Kučka, Ö. Karabıyık, A.C. Çalıkoğlu Koyuncu, M. Ramazanoğlu, G.T. Köse

September 23rd – 26th, 2012 – 15th European Congress on Biotechnology, The European Chapter Meeting of the Tissue Engineering and Regenerative Medicine

Porous polypeptide-based hydrogels as matrices for stem cells attachment (Poster Presentation), H. Studenovska, T. Sedlačik, V. Proks, O. Karabiyik, M. Ramazanoğlu, G. Torun Kose

▶ June 29th – June 30th, 2012 – Career in Polymers IV, Prague, Chezck Republic

Fibrous poly (α-amino acid)-based scaffold for cartilage tissue engineering (Poster Presentation), Ö. Karabıyık, J. Svobodová, A.C. Çalıkoğlu, V. Proks, M. Ramazanoğlu, G. Torun Köse, H. Studenovská

▶ January 16th – 26th, 2012 – Certificate of Animal Use in Experimental Research - Yeditepe University, Istanbul

> November $1^{st} - 4^{th}$, 2011 – XX. International Conference on Oral and Maxillofacial Surgery, Santiago, Chile **Osteoblast cell adhesion on RBM and sand blasted acid etched titanium surfaces: Preliminary results** (Poster Presentation),

G.T. Köse, Ö. Karabıyık, C. Şener, A. Altun

- January 13th 16th, 2010 Workshop on Current Trends in Molecular Nanobiosciences, Bilkent University, Ankara
- January 10th 13th, 2010 Winter School on Frontiers in Nanomedicine and Nanobiotechnology, Bilkent University, Ankara
- ➤ November 2nd 3rd, 2007 Gene Therapy Symposium, Yeditepe University, Istanbul

Social Activities

Pilates – Mat & Reformer Instructor Piano Latin dance Tennis Yeditepe University Biotechnology Group Member-2008+