

Özge CUMAOĞULLARI EKER, PhD

Fadıl Rıza Street No:26 Karakol, Famagusta, Cyprus
Tel: 0548-868-1669 e-mail: ozgecuma@gmail.com
0392-365-2152

Education:

PhD

2009-2017 Ankara University, Biotechnology Institute, Ankara, Turkey

Thesis Title: Investigation of Candidate Sporadic Colorectal Cancer Related Genes

Funded by TUBİTAK-112S634, BAP-14L0415003, BAP-16H0415001. This Project was included COST action BM1206 .

Supervisor: Prof. Dr. Hilal Özdağ

Degree: GPA 4.00/ 4.00

MS

2007-2009 Ankara University, Biotechnology Institute, Ankara, Turkey

Thesis Title: The Role of FVII Promoter with Haplotype Alteration in Atherosclerosis Patients and Effect on the Pathophysiology of Thrombosis

Supervisor: Prof. Dr. Nejat Akar

Degree: GPA 3.28/ 4.00

BS

2002-2006 Çukurova University, Arts and Sciences Faculty, Biology, Adana, Turkey

Derecesi: GPA 3.54/ 4.00

High School

Gazimağusa Turkish Maarif College

Teaching Experiments

- EMU Dr. Fazıl Küçük Medical Faculty- ICS-1/2/3 Research Coordinator-February 2018-ongoing
- V. EU Program Funds - GÖller için El Ele - Famagustians advocate for Clean Wetlands Workshop- 1-2 April 2016, Famagusta, Cyprus
- Ankara University, Biotechnology Institute, Central Laboratory, Summer internship Wet Lab Practise (STJ312-2016, 2380360-2015), Ankara, Turkey
- Ankara University, Biotechnology Institute, Central Laboratory, PCR based Genetic Analysis Workshop (Practise), 16-17 June 2014, Ankara, Turkey
- Ankara University, Biotechnology Institute, Central Laboratory, PCR based Genetic Analysis Workshop (Practise) - (40010071018S, Spring and Fall term-2012-2016), Ankara, Turkey
- Ankara University, Biotechnology Institute, Pediatric Molecular Pathology and Genetic Laboratory, Erasmus Student-Wet Lab Practise, 2007-2009, Ankara, Turkey

Wet Lab Experiments

- Molecular Genetic Laboratory Technics
 - Kompetitiv allele spesific PCR (KASP) technology
 - Sanger DNA Sequence Analysis
 - Quantitative real time PCR (qRT-PCR)
 - PCR
 - SSCP
 - RFLP
 - Next generation DNA sequencing
- Sitogenetic Genetic Laboratory Technics
 - Effect of Cyfluthrin Pesticide on onion stem cell mitosis

Computer Skills

- Kluster Caller
- Omega
- CEQ Analyser (DNA sequence analysis software)
- Sequencher (DNA sequence analysis software)
- Chromos Lite (DNA sequence analysis software)
- Perl Primer (Primer Design Software)
- D-r (Statistic software)
- BrB Tool
- End Note
- Adobe Photoshop
- Lightroom 1.4
- Microsoft Office Package

Professional Experiments

- **Included Projects as a researcher**

TUBİTAK 1001- Project number: 112S634, Project budget:350.000 TL(2013-2015), Turkey.

Ankara University BAP, Project number:14L0415003 Project budget: 20.000 TL (2014-2016), Turkey.

Ankara University BAP, Project number 16H0415001 Project budget: 10.000 TL(2016-2017), Turkey.

- **Molecular Genetic Laboratory**

Investigation of Candidate Sporadic Colorectal Cancer related genes, Ankara University, Biotechnology Institute, Ankara, Turkey (2012-2017)

Investigation of MEFV gene mutations in FMF patients, Ankara University, Biotechnology Institute, Pediatric Molecular Pathology and Genetic Laboratory, Ankara, Turkey (2009-2012)

Investigation of FVII Promoter Region Polymorphisms in CAD Turkish Population, Ankara University, Biotechnology Institute, Pediatric Molecular Pathology and Genetic Laboratory, Ankara, Turkey (2007-2009)

Ribosomal Protein S19 gene 4bp mutation in investigation, Ankara, Turkey (2007-2009)

- **Cytogenetic Laboratory**

Research Student, Effect of Cyfluthrin Pesticide on onion stem cell mitosis, Cukurova University Arts and Sciences Faculty, Adana, Turkey, 2006

Professional Development

- 43. FEBS Congress, Prague, Czech Republic, 7-12 July 2018
- 6th International Conference of the Cyprus Society of Human Genetics, Nicosia, Cyprus, 24-25 November 2017
- 41. FEBS Congress, İzmir, Turkey, 3-8 September 2016
- Management Committee And Working Groups Joint Meeting, Dubrovnik, Croatia, 21 October 2016
- Cancer Somatic Profiling Workshop, Dubrovnik, Croatia, 20 October 2016
- The course of project preparation, Ankara, Turkey, 23 February 2015.
- 40. FEBS Congress, Berlin, Germany, 4-9 July 2015
- The Courses of Experimental Animal Usage Certification, ANKUSEM, Ankara, Turkey, 03-12 October 2014
- The course of network analysis with Cytoscape 2.8, Ankara, Turkey, 15 October 2014
- Management Committee and Working Group 3 Joint Meeting, Leiden, Netherland 4 September 2014.
- Next Generation Sequencing And Cancer Predisposition Symposium, Leiden, Netherland, 3 September 2014.
- Next Generation Sequencing (NGS) Data Analysis, Training school, Leiden, Netherland, 1-3 September 2014.
- The course of biosafety, Ankara, Turkey, 28 March 2014.
- Translational Genomics In Biomedicine, Workshops and Conferences, , Barcelona, Spain, 13-14 March 2014
- Management Committee and Working Groups Joint Meeting, Meetings, Barcelona, Spain, 12 March 2014.
- 6. Surgical Research Congress, Ankara, Turkey, 2011
- 6. Surgical Research Congress, Biostatistic course with SPSS Software, Ankara, Turkey, 2011
- 9. Ankara Biotechnology Days, Ankara, Turkey, 2011
- 12. National Congress of Medical Biology and Genetics, Antalya, Turkey, 2011
- 12. National Congress of Medical Biology and Genetics, Course-New Technologies in Molecular Biology, Antalya, Turkey, 2011
- Prof. Dr. Orhan Ulutin Thrombosis Symposium, Ankara, Turkey, 2010
- European Biotechnology Congress, İstanbul, 2011
- 8. International İÜGEN Molecular Biology and Genetic Winter School, İstanbul, Turkey, 2011
- 21. International Thrombosis Congress, Milano, Italy, 2010
- 2. Prof. Dr. Orhan Ulutin Thrombosis Symposium, Ankara, Turkey, 2010
- 8. Ankara Biotechnology Days, Ankara, Turkey, 2010
- 35. National Hematology Congress, Antalya, Turkey, 2009
- 1. Prof. Dr. Orhan Ulutin Thrombosis Symposium, İstanbul, Turkey, 2010
- 34. National Hematology Congress, Cesme, Turkey, 2008
- Internship at Dr. Burhan Nalbantoglu State Hospital Laboratory, Nicosia, Cyprus, 2005
 - Biochemistry Laboratory
 - Hematology Laboratory
 - Thalassemia Laboratory

- 12. National Biology Student Congress, Isparta, Turkey, 2004
- Internship at Famagusta State Hospital Laboratory, Famagusta, Cyprus, 2003
- 11. National Biology Student Congress Aydın, Turkey, 2003

Awards

43rd FEBS Congress Young Scientists Bursary, 2018, 650 Euro

34th National Hematology Congress Young Participant Award, Turkey, 2008

Cyprus Education Scholarship, 2007-2012, 32.000TL

TUBİTAK No:112S634 project researcher scholarship, 2013-2015, 37.800TL

Publications

O. Cumaogulları, A. Öztürk, R. Akar, N. Akar. **FVII Promoter Region Polymorphisms - 401GT, -402GA, -323ins10 in Coronary Artery Disease.** In writing.

O. Cumaogulları, A. Esmail, A. Öztürk, N. Akar **MEFV mutation frequency in Turkey, Turkish Cypriot, Iraq Turks.** In writing.

V. Arıkan, O. Cumaogulları, B. Memiş, F. T. Oz, **Investigation of SOSTDC1 gene in non-syndromic patients with supernumerary teeth.** Submitted. DOI:10.4317/medoral.22520.

N. Gökçora, F.G. İnce, MB. Hocoğlu, Nİ Akçay O Cumaogulları Eker, **TRNC 2012 Cancer Statistic Report**, May 2018.

O Cumaogullari, OI Dag, F. Rajabli, A. Kuzu, H. Ozdag, **Investigation of seven european colorectal cancer related SNPs in Turkish sporadic colorectal cancer population**, FEBS OPEN BIO, Volume: 8, Pages: 343-343, Supplement: 1, Meeting Abstract: P.10-152-T, Published: JUL 2018, Document Type:Meeting Abstract.

İ. Eldem, D. Yavuz, O Cumaogulları, DT. İleri, EU. İnce, BD. Erdoğan, R. Bindak, H. Özdağ, LT. Şatiroğlu, LZ. Uysal. **SLCO1B1 Polymorphisms are Associated with Drug Intolerance in Childhood Leukemia Maintenance Therapy**, Journal Of Pediatric Hematology Oncology, Volume: 40, Issue: 5, Pages: E289-E294, DOI: 10.1097/MPH.0000000000001153, Jul 2018.

O. Cumaogullari, N. Tekin, OI Dag, F. Rajabli, A. Kuzu, H. Ozdag, **Investigation of four colorectal cancer related single nucleotide polymorphisms in Turkish sporadic colorectal cancer cases**, FEBS JOURNAL, Volume: 283, Pages: 155-155, Supplement: 1, Special Issue: SI, Meeting Abstract: P05011-009, Published: SEP 2016, Document Type:Meeting Abstract.

O. Cumaogullari, OI Dag, N. Tekin, F. Rajabli, MA. Kuzu, DC. Dungul, N. Belder, H. Ozdag. **Second step of genome-wide association study: Validation of 50 single nucleotit polymorphisms associated with sporadic colorectal cancer in Turkish population**, FEBS JOURNAL, Volume: 282, Pages: 394-394, Supplement: 1, Special Issue: SI, Meeting Abstract: LB-119, Published: JUL 2015, Document Type:Meeting Abstract

T. Eker, V. Genc, Y. Sevim, O. Cumaogullari, M. Ozcelik, A. F. Kocaay, C. Ö. Ensari, O. T. Pasaoglu, **The Effects of Ventilation with High Density Oxygen on the Strength of Gastrointestinal Anastomosis.** Annals Of Surgical Treatment And Research, Volume: 89, Issue: 1, Pages: 17-22, DOI: 10.4174/astr.2015.89.1.17, Jul 2015.

Ö. Cumaoğulları, A. Öztürk, E. Arjan, Ç. Aslan, N. AKAR, S. Elsayed, E. Elsobky, B. Houcher **Ribosomal protein S19 - 631 insertion is an African-originated mutation**. Turkish Journal Of Hematology, Volume: 27, Issue: 2, Pages: 123-124, DOI: 10.5152/tjh.2010.12, Jun 2010.

Ö. Cumaoğulları, **Kıbrısta Yumurta Donasyonu ve Olası Etkileri**, “Kıbrıs Bilim”-Cyprus Turkish Biologist Enviroment Research and Protection Association Magazine, Spring 2008

Ö. Cumaoğulları, **Caulerpa taxifolia**, Cyprus National Newspaper “KIBRIS” 2004

Chapter authourship

N.Tekin Ö. Cumaoğulları H. Ozdag, Current Applications of Biotechnology, **Biotechnology and Ethics**. Chapter 23, Pages 387-39, 6ISBN: 978-605-85573-0-1, Eylül 2015

Oral Presentations

D. Yavuz, O Cumaoğulları, NT. Yılmaz, B. Oncu, H. Ozdağ, LNŞ.Tufan, **Investigation of polymorphic variants of SLC6A4 Tph-1 and Tph-2 genes in completed suicide**, 5. International Forensic Research and Technology, San Francisco, USA, 2016

Ö. Cumaoğulları, DÇ. Düngül, N. Tekin, N. Belder, OI Dağ, F. Rajablı, Y. Doğan, MA. Kuzu, H. Özdağ, **Validation of A Family Based Genome-Wide Association Study: Investigation of 75 Single Nucleotide Polymorphisms Associated with Sporadic Colorectal Cancer in Turkish Population**, 14. National Medical Biology and Genetic Conference, Muğla, Turkey, 2015

T. Eker, V. Genc, Y. Sevim, O. Cumaogulları, M. Ozcelik, A.F. Kocaay, C. Ensarı, O.T. Pasaoglu, **The effects of ventilation with high density oxygen on the strength ofgastrointestinal anastomosis** 2. International Conference on e-Health and Telemedicine, İstanbul, Turkey, 2014

Ö. Cumaoğulları, N. Akar. **FMF and Investigation of MEFV Mutations in Turkish Cypriot population**. Student Seminars, Ankara University, Biotechnology Institute, Ankara, Turkey, 2009

Ö. Cumaoğulları, N. Akar. Investigation of **Factor VII Gene Promotor Region Polimorphisms and Haplotype analysis in CAD**, Thrombogenetic Symposium, İstanbul, Turkey, 2009

Ö. Cumaoğulları, N. Akar. **The Role of FVII Promoter with Haplotype Alteration in Atherosclerosis Patients and Effect on the Pathophysiology of Thrombosis**, Student Seminars, Ankara University, Biotechnology Institute, Ankara, Turkey, 2008

Ö. Cumaoğulları, **Reviewing Thalassemia Disease**, Student Presentation, Cukurova University, School of Art and Sciences, Adana, Turkey, 2006

Ö. Cumaoğulları, **Reviewing Limulus polyphemus and usage in Biotechnology**, XII. National Biology Student Congress, Isparta, Turkey, 2003

Poster Presentations

O. Cumaogullari, OI Dag, F. Rajabli, A. Kuzu, H. Ozdag, **Investigation of seven european colorectal cancer related SNPs in Turkish sporadic colorectal cancer population**, 43. FEBS Congress, Prague, Czech Republic, 2018

Zülal Bilici, Özge Cumaoğulları, Özlem İlk, Turkish Sporadic Colorectal Cancer Group, Ayhan Kuzu, Hilal Özdağ. **Evaluation of Candidate SNPs Associated with Sporadic Colorectal Cancer for Turkish Population**. 5th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 2017

O. Cumaogullari, N. Tekin, F. Rajabli, Ö. İlk Dag, M.A. Kuzu, H. Özdag, **Investigation of Four Colorectal Cancer Related Single Nucleotide Polymorphisms in Turkish Sporadic Colorectal Cancer Cases**, 41. FEBS Congresses, İzmir, Turkey, 2016

O. Cumaogullari, O. İlk Dag, N. Tekin, F. Rajabli, M. A. Kuzu, D. Cigli dag Dungul1, N. Belder, H. Ozdag. **Second step of genomewide association study: Validation of 50 single nucleotit polymorphisms associated with sporadic colorectal cancer in Turkish population**, 40. FEBS Congresses, Berlin, Germany, 2015

Ö. Cumaoğulları, N. Belder D. Ç. Düngül, M. A. Kuzu, H. Özdag, **2nd Step of GWAS Study: Validation of 75 SNPs associated with sporadic colorectal cancer in Turkish population**. COST BM 1206- Management Committee and Working Groups Joint Meeting Translational Genomics in Biomedicine workshop, Barselona, İspanya, 13 Mart, 2014

Ö. Cumaoğulları, A. Öztürk, E. Arjan, Ç. Aslan, N. AKAR. **MEFV gene mutation frequency in Anatolian Turks, Turkish Cypriot and Iraque**. 12. National Congress of Medical Biology and Genetics, Antalya, Turkey, 27-30 October, 2011

Ö. Cumaoğulları, H. Özdağ, N. AKAR. **Investigation of MEFV gene 5' UTR region in FMF Patients**. 12. National Congress of Medical Biology and Genetics, Antalya, Turkey, October 27-30, 2011

Ö. Cumaoğulları, A. Öztürk, N. AKAR. **The role of FVII Promoter Polymorphisms in Turkish Atherosclerosis Patiens**, 21. International Thrombosis Congress, Milano, Italy, 2010

Ö. Cumaoğulları, G. Deda, N. AKAR. **Urokortin Promotor Bölgesinin Pediatrik İnme (SVA) Hastalarında İncelenmesi**, 35. National Hematology Congress, Antalya, Turkey, November 3-7, 2009

A. Oztürk, O. Cumaogullari, Z. Veli, N. AKAR. **“FVII Promoter Region Haplotype classification of FVII Promoter Region Gene Changing and Research of Effect on Thrombosis**. 34. National Hematology Congress, Çesme, Turkey, October 8-11, 2008

Area of Interest

Cancer Genetics

Candidate Sporadic Colorectal Genes, Polymorphisms

Genome-wide association studies (GWAS)

Omic Technologies

PCR based Technologies

Association memberships

Cyprus Turkish Biologists Environment Research and Protection Association (member of the European Countries Biologist Association-ECBA)

Turkish Association of Biologists (member of the European Countries Biologist Association-ECBA)

Medical Biology and Genetic Association

Turkish Biochemical Association

Link

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