

Anabilim Dalı : Hayvansal Biyoteknoloji

Öğretim Üyesi: Doç. Dr. Ercüment AKSAKAL

• **Çalışma Alanları/konuları**

- Sucul model organizmaların moleküler genetiği, fizyoloji ve biyokimyası
- Nutrigenomik/Nutrigenetik
- Genotoksikoloji
- Rekombinant DNA Teknolojisi
- Antioksidan enzimler, büyüme ve immün sistem hormonları ve stres proteinleri gen ekspresyonları

Uzmanlık alanı ile ilgili öne çıkan projeleri

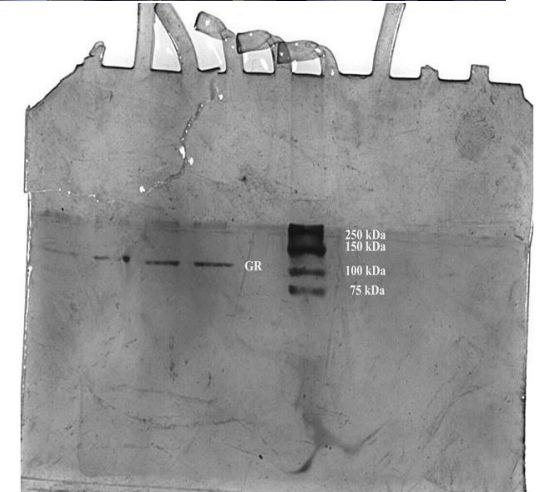
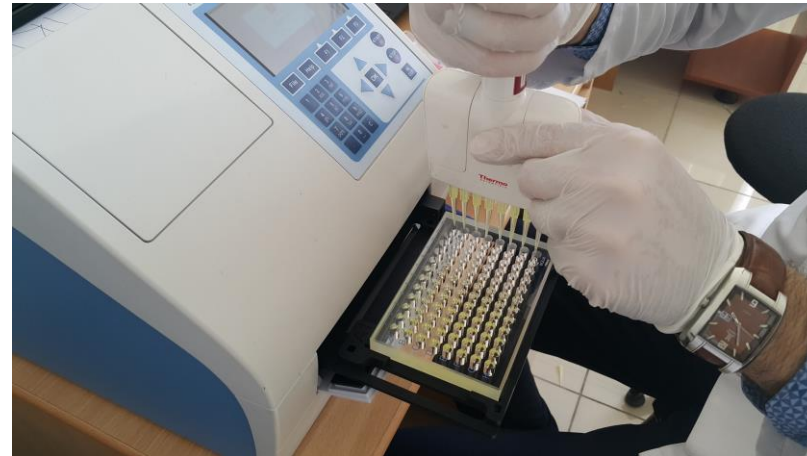
- Effect of Royal Jelly on Some Antioxidant Enzyme (SOD, CAT, GPx, GR and GST) Activity and Antioxidant, Growth (GH and IGF-I), and Immune System (TGF- β) Tissue Specific Gene expression in zebrafish(*Danio rerio*) Diet. COST (European Cooperation in Science and Technology), TÜBİTAK Projesi, 114O755, Yönetici
- Morphological, Histological and Physiological changes during organogenesis of gastric and agastric fish. AB Çerçeve Programı Projesi, KBN Project
- Ontogenetic and functional aspects of peptide absorption in cyprinid and salmonid fishes. AB Çerçeve Programı Projesi, KBN Project

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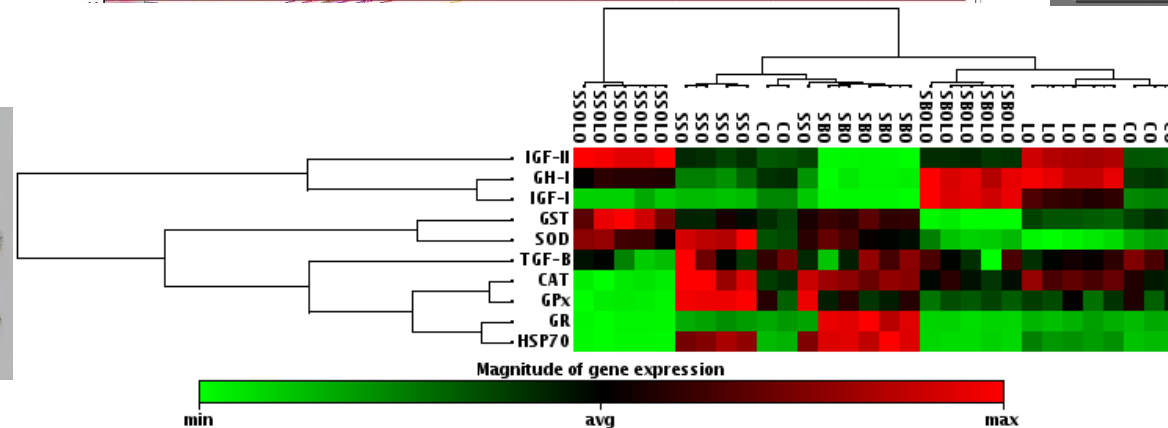
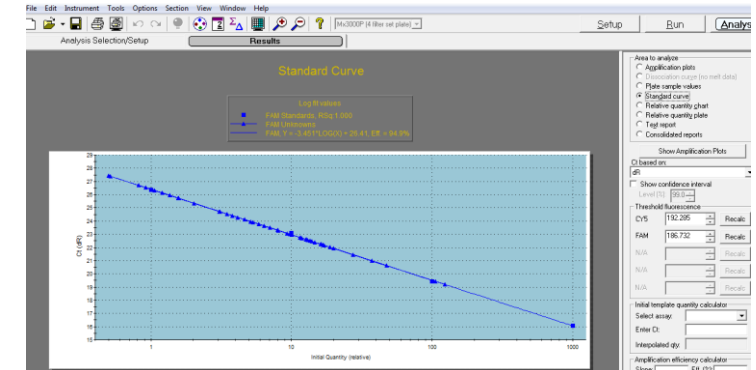
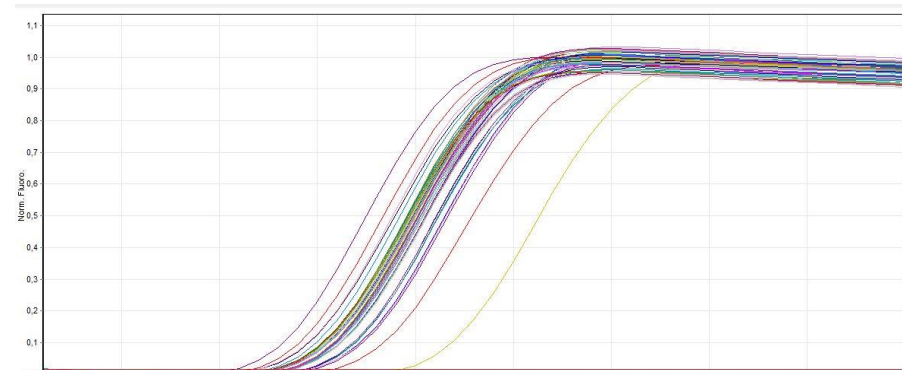
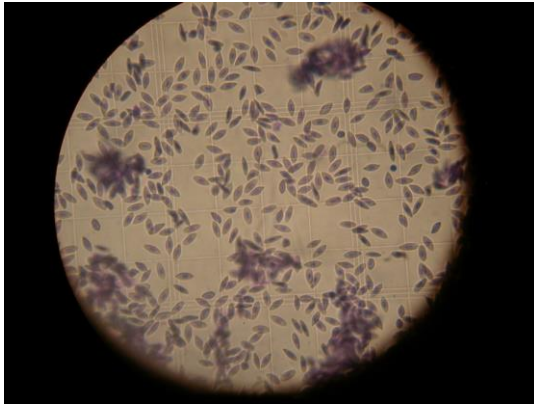
Öğretim Üyesi: Doç. Dr. Ercüment AKSAKAL

Seçili makaleler

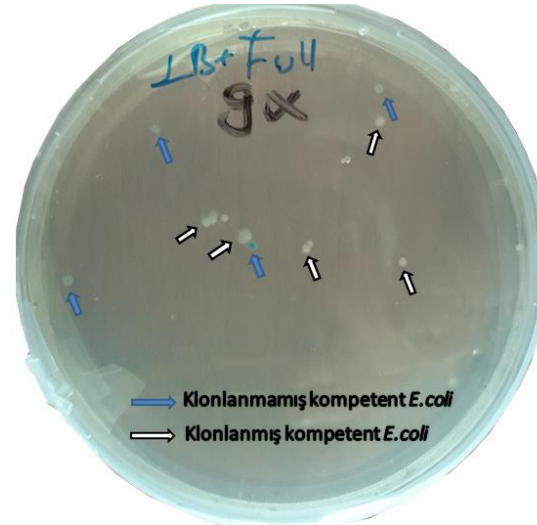
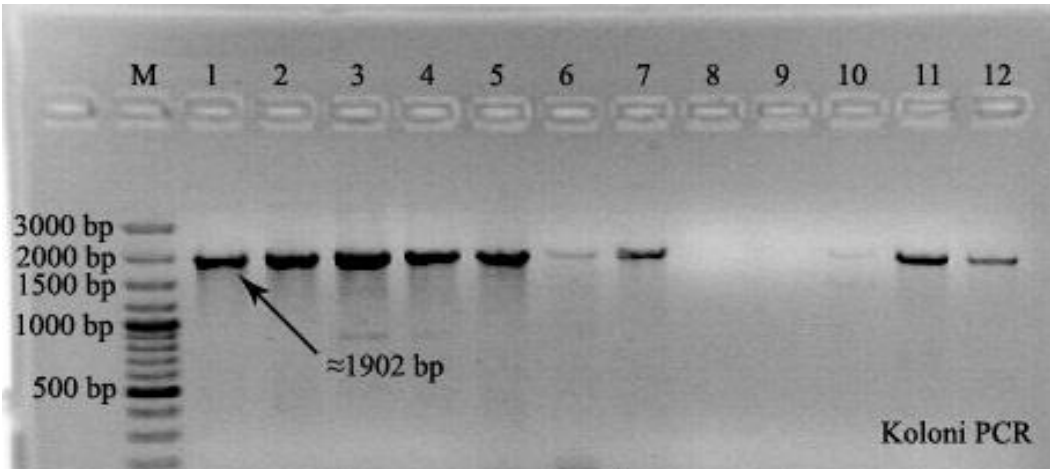
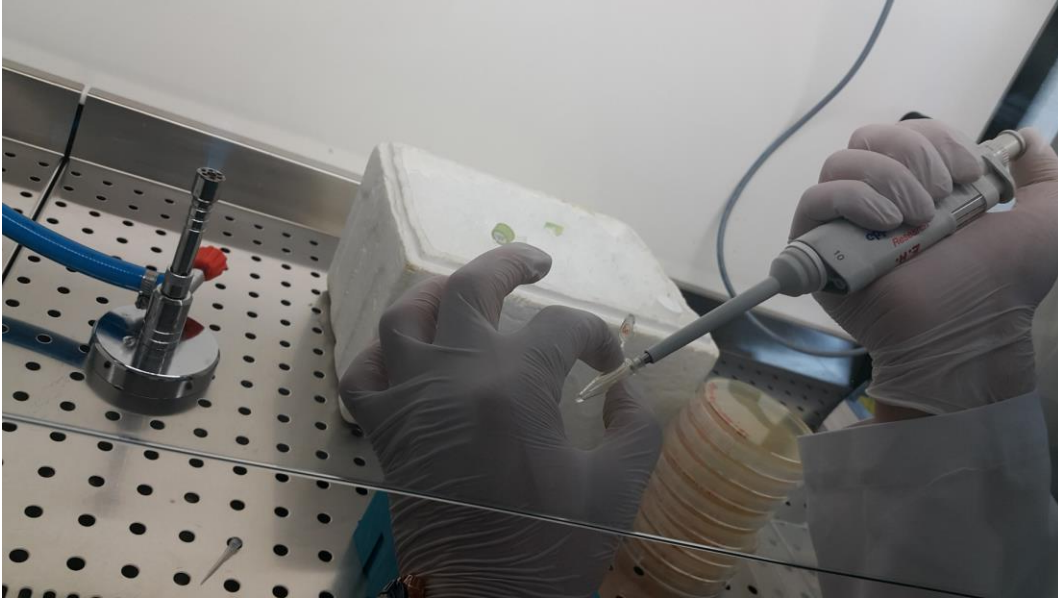
- **Aksakal E.**, Ekinci D., Supuran C.T., "Dietary inclusion of royal jelly modulates gene expression and activity of oxidative stress enzymes in zebrafish", **JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY**, no.1, pp.885-894, 2021. DOI: 10.1080/14756366.2021.1900167
- **Aksakal E.**, Ekinci D., Erdogan O., Beydemir S., Alim Z., Ceyhun S.B., "Increasing stocking density causes inhibition of metabolic-antioxidant enzymes and elevates mRNA levels of heat shock protein 70 in rainbow trout", **LIVESTOCK SCIENCE**, vol.141, no.1, pp.69-75, 2011. DOI: 10.1016/j.livsci.2011.07.006
- **Aksakal E.**, Ceyhun S.B., Erdogan O., Ekinci D., "Acute and long-term genotoxicity of deltamethrin to insulin-like growth factors and growth hormone in rainbow trout", **COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY**, vol.152, no.4, pp.451-455, 2010. DOI: 10.1016/j.cbpc.2010.07.004
- Ostaszewska T., Kamaszewski M., Grochowski P., Dabrowski K., Verri T., **Aksakal E.**, et al., "The effect of peptide absorption on PepT1 gene expression and digestive system hormones in rainbow trout (*Oncorhynchus mykiss*)", **COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR PHYSIOLOGY & INTEGRATIVE PHYSIOLOGY**, vol.155, no.1, pp.107-114, 2010. DOI: 10.1016/j.cbpa.2009.10.017

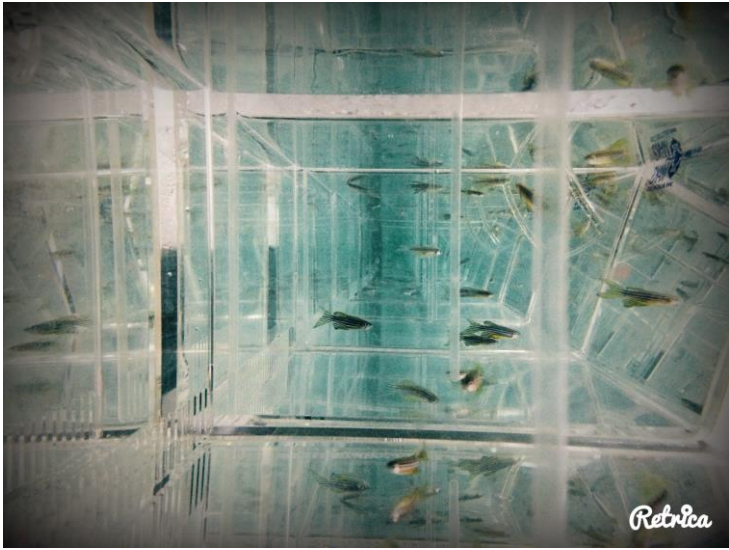


Gen transferi ve ekspresyonu çalışmaları

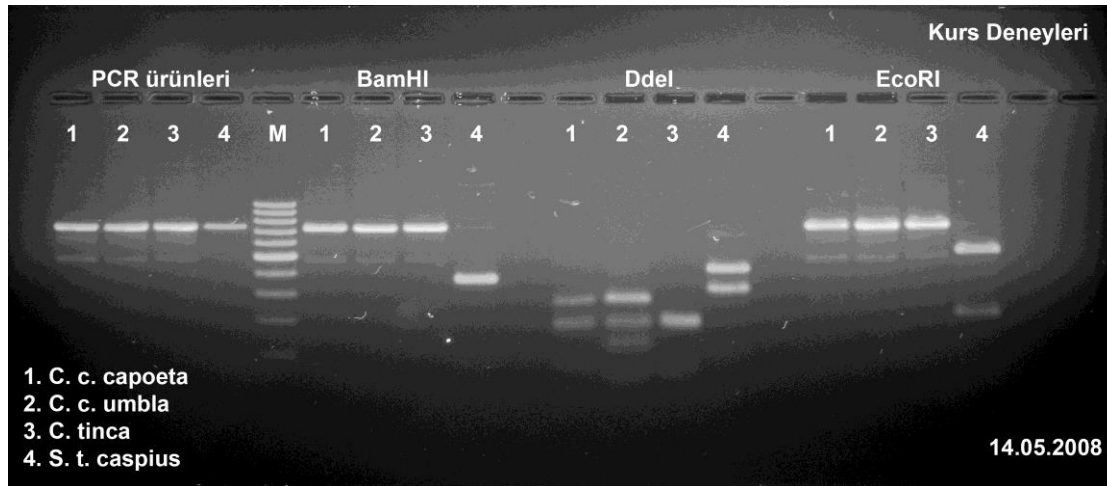
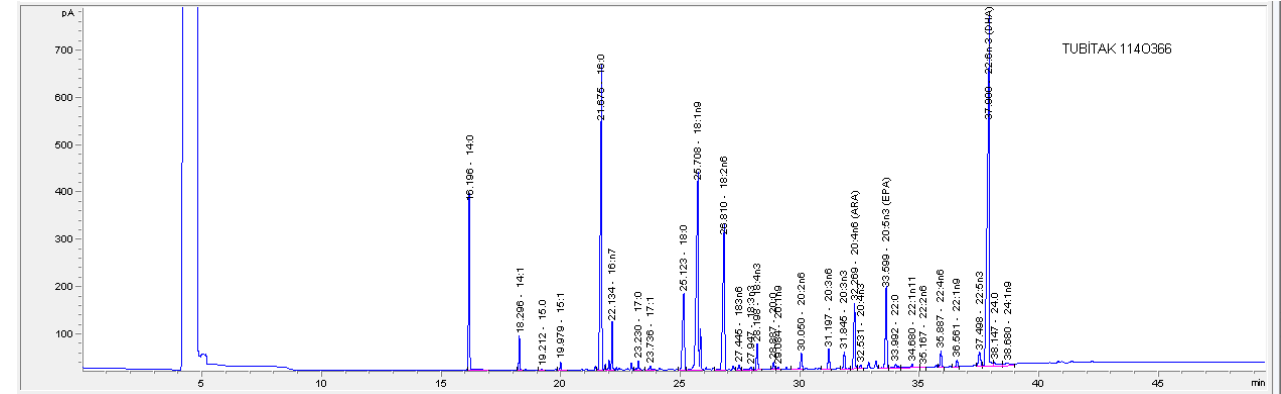


Klonlama Çalışmaları





Moleküler, yağ asidi profili ve amino asit sekansı belirleme çalışmaları



Mascot Search Results

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User          : Boris Neumann
Email         : bn@proteomefactory.com
Search title  : 16D066 Aksakal vs Protacanthopterygii \\tsclient\F\test\LTQ_16D066_Aksakal_K4.mgf
MS data file  : \\tsclient\F\test\LTQ_16D066_Aksakal_K4.mgf
Database      : Custom Protacanthopterygii (230036 sequences; 123889318 residues)
Timestamp     : 26 Apr 2016 at 08:15:57 GMT
Warning       : No taxonomy indexes found in selected databases, taxonomy 'Chordata (vertebrates and relatives)' ignored.
Searching all entries.
Enzyme        : Trypsin
Fixed modifications : Carbamidomethyl (C)
Variable modifications : Deamidated (NQ), Oxidation (M)
Mass values   : Monoisotopic
Protein Mass  : Unrestricted
Peptide Mass Tolerance : ± 3 ppm
Fragment Mass Tolerance : ± 0.6 Da
Max Missed Cleavages : 2
Instrument type : ESI-TRAP
Number of queries : 2586
Protein hits  :
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  gb|ACN10812.1| 6-phosphogluconate dehydrogenase, decarboxylating [Salmo salar]
  gb|AC133801.1| Glutathione reductase, mitochondrial precursor [Salmo salar]
  emb|CDQ65613.1| unnamed protein product [Oncorhynchus mykiss]
  emb|CKX35035.1| thioredoxin reductase 3a [Oncorhynchus mykiss]
  gb|AIK01700.1| beta-actin, partial [Salvelinus fontinalis]
  ref|XP_010894246.1| PREDICTED: very long-chain acyl-CoA synthetase-like isoform X1 [Esoc lucius]
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