



Abstract Book

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CONTENTS

INTRODUCTION	I
CONGRESS COMMITTEE	IV
CONTENTS	X
INVITED SPEAKERS	27
ORAL PRESENTATIONS	31
POSTER PRESENTATIONS	675

Estimation of Forest Stand Volume using Drone Based Laser Scanner: Case study of Istanbul University Research and Practice Forest	336
Revision Suggestions for Landscape Design of Bartın City Square.....	337
Assesment of the Cultural Heritage of Amasra in terms of Landscape Architecture	338
The Paris Agreement: A New Hope for Forest?.....	339
The Effect of Chip Size on the Particleboard Properties	340
Effect of Sanding Process on Board Properties in Particleboard Production	341
Karabük Urban Forest Carbon Capture Potential.....	342
Rehabilitated Streets and Tourism Relation in Historic Towns: Bartın Çeşmeyanı Street.....	343
Effects of Ejector Outlet and Exhaust Inlet Angles an a Fuel Ejector Performance for Solid Oxide Fuel Cells.....	344
Influence of Anode Exhaust Gas Flow Direction on the Performance of a Fuel Ejector Performance for Solid Oxide Fuel Cells	345
Corrosion Properties of Coatings Produced on Surface of Weldox 700 Steel.....	346
A Stand-alone PV Systems Sizing to Supply the Energy Demand of a House in Kastamonu, Turkey	347
Synthesis, Characterization and Activity Comparison of Alumina Supported Ni-Ce Catalysts for Methane Dry Reforming	348
Gene Regulation Network behind Micronutrient Toxicity Tolerance in Poplar	349
Environmental Genotoxic Effects in Aquatic Organisms, Iskenderun Gulf Example	350
Basic Helix-Loop-Helix Protein Characterization in Rainbow Trout Genome at Bioinformatics Level	351
Identification and Characterization of <i>CSP</i> Genes in <i>Oncorhynchus mykiss</i> Genome	352
Bioinformatics Analysis of <i>CSP</i> Genes in Genome of Atlantic Salmon	353
Molecular Characterization of bHLH Proteins in <i>Salmo salar</i> Genome	354
Genome-wide Identification of <i>bHLH</i> Genes in Common Carp (<i>Cyprinus carpio</i>).....	355
Genome Wide Characterization of Cold-Shock Proteins in Common Carp.....	356
Determination of Yield and Agricultural Characteristics of Chickpea (<i>Cicer arietinum</i> L.) Genotypes Yozgat Egological Conditions.....	357
Agricultural Potential of Bilecik Province	358
Immunostimulant and Digestive Enzyme Activity of Pomegranate Peel (<i>Punica granatum</i>) Aqueous Methanolic Extract in Rainbow Trout Fingerlings (<i>Oncorhynchus mykiss</i>).....	359
Antioxidant Enzyme Activity of Pomegranate Peel (<i>Punica granatum</i>) Aqueous Methanolic Extract in Rainbow Trout (<i>Oncorhynchus mykiss</i>)	360
Immunostimulant and Digestive Enzyme Activity of Veratrum (<i>Veratrum album</i>) Aqueous Methanolic Extract in Rainbow Trout Fingerlings (<i>Oncorhynchus mykiss</i>).....	361
Antioxidant Enzyme Activity of Veratrum (<i>Veratrum album</i>) Aqueous Methanolic Extract in Rainbow Trout (<i>Oncorhynchus mykiss</i>)	362
Aquaculture Sustainability	363
Breeding Tubercles in Fishes	364
Innate Immune and Hematological Responses to <i>Chenopodium album</i> Methanolic Extract in Common Carp (<i>Cyprinus carpio</i>) Juveniles.....	365
Use of Wetlands in Aquaculture.....	366
The Effects of Bentonite and Copper Application on Water Quality Criteria of Rainbow Trout (<i>Oncorhynchus mykiss</i>)	367

Breeding Tubercles in Fishes

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Abstract: Second sex characteristics are phenotypic specifications in living organisms morphologically distinguishable and available for sex discrimination. Breeding tubercles that white nodules because of epidermic cells differentiation head, dorsal and caudal sections and fins are one of these properties. Breeding tubercles have considered to consist of some reasons such as communicating with females or stimulating reproduction, and territoriality throughout the breeding period. Especially tubercles occur in male fishes at breeding period are triggered off pituitary and sex hormones and then disappeared. These tubercles are formed in lots of fish species in breeding period were reported and these fishes have got tubercles consist of 4 orders and 15 families: Salmoniformes, Gonorynchiformes, Cypriniformes ve Perciformes. Breeding tubercles are also observed in males of *Cyprinus carpio* live in the Van Lake Basin and males of *Alburnus tarichi* ve *Capoeta kosswigi* are endemic for the Van Lake Basin in breeding session. Breeding tubercles firstly are formed on head of the fishes in middle of May afterwards on dorsal and caudal sections with ventral, pectoral and anal fins in June. However, small amount of tubercles were observed in August. At the different water resources in the Van Lake Basin, there are some differences in the way of forming times according to water temperature for the same species. In this study, structures, shapes, occurring on fish sections of tubercles and fish species with tubercles were focused.

Keywords: Second Sex Characteristics, Breeding Tubercles, Cyprinidae