INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS

June 5-6, 2024 / Ankara, Türkiye

EDITOR

Prof. Dr. Abdullah ÖZDEMİR

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THE PROCEEDINGS BOOK

EDITOR

Prof. Dr. Abdullah ÖZDEMİR

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DATE and PLACE

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CONGRESS PROGRAM

Meeting ID: 860 5266 6988
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05.06.2024 | SESSION-3 | HALL-3

Ankara Local Time: 14:00-16:00

Meeting ID: 860 5266 6988 | Passcode: 123456

HEAD OF SESSION: Sevim Handan YILMAZ

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Berivan GÖKÇEK	Nişantaşı University	THIS STUDY EXAMİNES THE LEVEL OF AWARENESS OF YOUTH CENTERS AFFILIATED WITH THE YOUTH AND SPORTS PROVINCIAL DIRECTORATES IN TURKEY AMONG INDIVIDUALS AGED 13-25, BOTH CHILDREN AND ADULTS
Çağri KARABULUT	Gaziantep University	EVALUATION OF SHOULDER EXAMINATION VIDEO CONTENT ON YOUTUBE IN TERMS OF QUALITY AND SUITABILITY
Fatma KANDEMİR Fatma AZİZOĞLU	Haliç University	EXAMINING NURSES GENERAL ATTITUDES TOWARDS ARTIFICIAL INTELLIGENCE
Suna Aslıhan AYHAN Sevim Handan YILMAZ	Bartin University	PROBLEMS FACED BY PHYSICAL EDUCATION AND SPORTS TEACHERS IN THE PROCESS OF DETERMINING TEACHING METHOD; LACK OF EQUIPMENT
Cansu ALTUNTAŞ Sevim Handan YILMAZ	Bartin University	THE EFFECT OF DISTANCE EDUCATION ON TEACHING METHODS APPLIED IN PHYSICIAL EDUCATION AND SPORTS
Engin DEMEZ Selahaddin KİRAZ	Harran University	DNA POLYMORPHISM AND PHYLOGENETIC ANALYSIS ACCORDING TO MITOCHONDRIAL CYTOCHROME B GENE SEQUENCE IN GOATS OF ŞANLIURFA REGION
Fatima SHAYAN Gurcan KAHRAMAN	Erciyes University	STUDY OF THE REPRODUCTIVE BIOLOGY OF MORUS ALBA AND MORUS NIGRA

(All speakers required to be connected to the session 10 min before the session starts)
Moderator is responsible for ensuring the smooth running of the presentation, managing the group discussion and dynamics.

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STUDY OF THE REPRODUCTIVE BIOLOGY OF *MORUS* ALBA AND *MORUS* NIGRA

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Abstract
Morus species are renowned for their adoptability in various climates and their significance in food and silk production. Despite their economic importance, there is a notable gap in understanding their reproductive biology, particularly stigma behavior and phenomena like apomixis and parthenocarpy, requiring research for improved cultivation and orchard establishment. In this experimental research we studied a total of 15 mulberry plants in two environments. We kept two groups of 5 *Morus* alba and 5 *Morus* nigra plants outside the greenhouse and a group of 5 *Morus* alba inside the greenhouse. In the greenhouse, we treated *Morus* alba plants with open pollination, self-pollination, and cross-pollination whereas, the *Morus* alba trees outside were open pollinated, with one branch of each tree covered to study parthenocarpy. Moreover, we also developed seedlings for open pollinated plants for molecular observations. We tested 9 Inter-Simple Sequence Repeat (ISSR) markers to analyze the similarities and differences in band sizes of the seedlings DNA compared to their respective parent plants. The observed germination rates in the greenhouse were 13.2%, 17.2%, 12.2% for open-pollinated, self-pollinated (alba to alba) and cross-pollinated branches respectively. The *Morus* alba plants outside showed 47.6% germination rate for open pollination and 0.8% for covered branches. The germination rate of open pollinated *Morus* nigra was 21.4%. Furthermore, ISSR markers UBC 857, 855, 891, 859, 811, 828, 866, 860, and ISSR 7 generated total of 65 amplification products for alba and 57 for nigra. Some individuals exhibited similarities to the female parent and heterozygous profiles were also observed within the population. These findings suggest the potential for self- pollination, parthenocarpy, and cross-pollination within the studied population.
Keywords: Morus species, Reproductive biology, Pollination methods, Germination rate, Parthenocarpy, ISSR markers