

Faculty of Arts & Design



WATER RESEARCH CENTER



ALLURE OF THE DESERT CULTURAL CENTER



AWARDS
38th Cycle Winners

"Anthophilia means the love of flowers. Anthophilia Floral Art Gallery is extension to 'El Souba - Plants' located in El Montazah Gardens, Alexandria, which contains rare plants and flowers that have been settled and upright since the reign of King Fouad. The concept of bridging the old building with the new one is inspired by Kintsugi, a Japanese art of repairing broken pottery. The attempt to reflect the concept results in anthophilia floral art gallery. Anthophilia creates various interior spaces for different activities such as agriculture, hand crafts, galleries, labs and research."

"Every flower is a soul blossoming in nature. Basically, each flower consists of a floral axis upon which are some the essential organs of reproduction and usually accessory organs. The floral axis is a greatly modified stem. The flower parts are usually arrayed in whorls (or cycles) but may also be disposed spirally, especially if the axis is elongate. So the golden spiral become the best option with the concept and become the inspiration of the patterns found in the ceiling, flooring and furniture to add a new definition for the interior spaces and enhance the role of back to nature in interior spaces."

- Ayda El Batran-

ZONE 1 PLAN ZONE 2 PLAN ZONE 3 PLAN LAYOUT PLAN

AWARDS
38th Cycle Winners

"Maintaining one's culture, values and heritage are beyond price. The heritage of cities is what keeps them alive. In the 19th century Tally was created for the first time in Asyut. It was the cloth of wealthy families in Egypt. Therefore, the revival and maintenance of it are principal. Tally handicraft Hub creates well-equipped interior spaces for craftsmen to innovate and work for the revival of the cloth of Egypt (Tally) while showing the world the story behind it."

"Tally handicraft hub is a community where heritage is praised and appreciated. By creating a whole experience for the visitor, starting from the first creation of tally in Asyut its origin city to the history and philosophy behind it and how equities used their symbols to express themselves through the art of it. Then taking a step further more to teach and show people how to create the fascinating knot of the tally. Until the last step, the final product that comes out from that magnificent fabric represented in high-end futuristic fashion shows that reveal its real beauty. To revive and sanctify the heritage that has been forgotten through the years and show the world the hidden gems of cities."

- Nada Magboul

Start Gallery End
Movement Workshop Fashion show

AWARDS
38th Cycle Winners

"The project is based on the idea of reviving the alabaster craft in Egypt. Alabaster was very precious in Ancient Egypt and was presented as gifts to kings. Thus, The interior design of The Alabaster Creative & Historical Centre in Luxor is dominated by design elements that express the ancient Egyptian era. The project presents the alabaster material to the world in an adventurous way inside the place, in which the visitor learns about the characteristics of alabaster, sees rare original pieces, buys ready-made pieces, or even manufactures his own alabaster piece."

"The project aims to Provide a space for Craftsmen in Luxor to support their innovation and develop social engagement with tourists from all over the world. Promote traditional crafts, Create a space for exhibiting alabaster products Elegantly, Encourage sustainable tourism and improve the alabaster industry situation in Egypt."

-Farah Wael Samir-

Central Hall Entrance

AWARDS
38th Cycle Winners

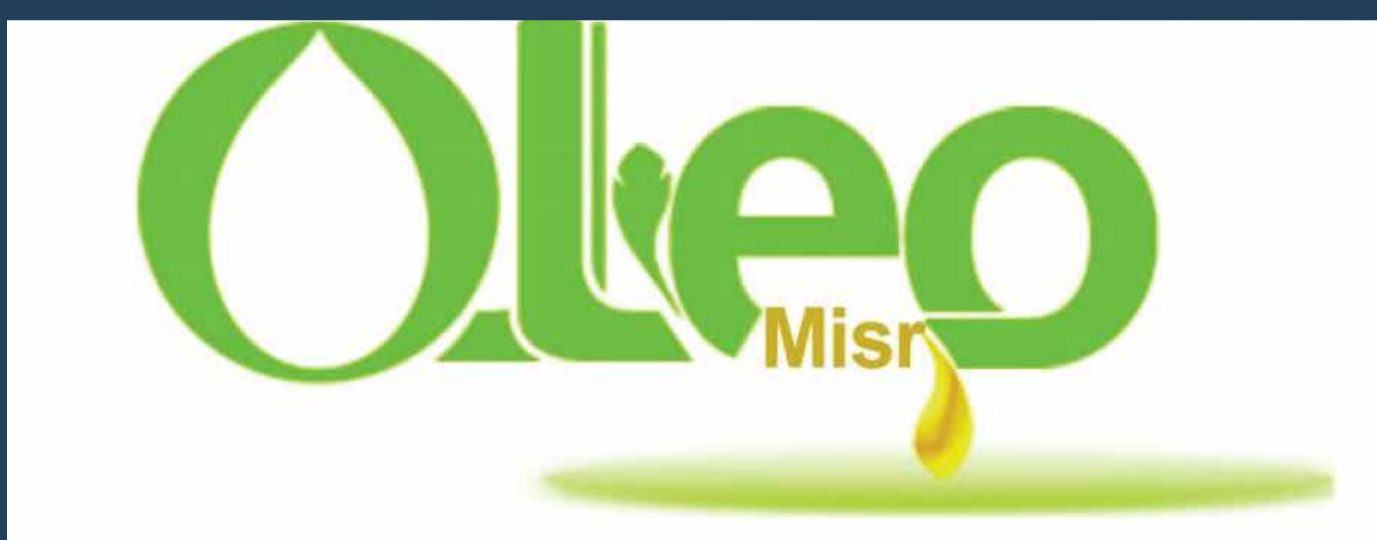
International principles and standards stipulate adherence to the provision of living conditions for prisoners that preserve their dignity, do not lead to an increase in their suffering and negatively affect their health, hence the main objective of the "Armaddillo Prison" project, which is to create humane interior spaces that help prisoners after serving their sentences to integrate with society and to improve the interior environment For its users, whether prisoners or employees, and to achieve a safer and more secure interior design, as it is recognized that rehabilitation cannot take place in an overcrowded physical environment that is not tailored to the physical and psychological needs of users.

Armaddillo is an animal that means "armored one" in Spanish and it is known for having many unique features, most notably its armored shell that provides an impenetrable defense. The reason the name was chosen was because it holds meaning of protection and guarded disposition in our lives, and it was used as a source of inspiration in the interior design elements of the place, such as the closing mechanism of the security system in doors and windows, which works perfectly with the project type."

-Hada Eibenne-

DINING HALL FURNISHED PLAN

Faculty of Engineering



خطاب شكر

توجه شركة نيوفريت بمصر بالشكر الجيد الدكتور أحمد مصطفى - المدرس بكلية الهندسة وعضو مركز البحوث العلمي - جامعة أكتوبر للعلوم الحديثة والآداب - MSA على تعاون الشركة مع الشركة حيث أنه قام بإيفاد بائع مركب البوليمرين Monolaurin المستمد كزراع للسماد ومركز البحوث في أخلاف الدواجن والموتل والانسداد. وأيضاً هذا التعاون من تجربة المنتج (شكل الصلب منه) بشكل مثالي على العجول الرضعية في إحدى المزارع الخاصة وبتين من الفلاح الإبراهيم فهداً هذا المنتج على أن يكون بدلاً من زيت السمك الذي تستخدمه الشركة (Lipovital-CIL90) من شركة بيرج اند شيميت الألمانية.

وقدم الشركة الآن بطلب المنتج (شكل السائل منه) في عدد أربعة مزارع للدواجن للوقوف على فاعلية المنتج بشكل طبيعي للصفات الحيوية للتربية السريعة ومزارع البعير معروض بها والتي لم منها من السوق المصري بموجب قرار الهيئة العامة للخدمات البيطرية التابعة لوزارة الزراعة لها من حوزة بلغ على صحة الإنسان.

وفي سياق متصل تقوم الشركة الآن بالتنسيق مع د. أحمد مصطفى جامعة MSA ومع الشركة الصناعية (شركة أوكيو مسر للتوكيميكات) بالتهيؤ لتجربة كبيرة في أحد مزارع البهائم في مصر لإجراء اختبار لمدى إنبافه المنتج على العلف وعمل تحليل كفاءة الترفوف على فاعلية المنتج بشكل مثالي منبهياً لتسليمته في العديد من الأقاليم والأقاليم الفلاح ليركز بحدوث الانتاج الحيواني ومن ثم طرحه تجارياً.

والشركة لا ترحب بهذا التعاون والشكر وتتمنى على أن السوق المصري في أبحاث بلغ ليشكل هذه المنتجات ولا سيما بعد البدء في المشروع القومي "ملون راس مشية" و المشروع القومي "الاستزراع السمكي" لتدفعوا الفاعلية والحفاظ على الثروة الحيوانية.

مفاتيح التواصل
علاء مبرهان
NUTRIVET MISR

Oleo Protect Aqua
Fish & Shrimp
100% Natural

- ## OLEO PROTECT AQUA
- keeping the optimal survival rate
 - Improves feed conversation ratio
 - Strengthens the immune system

- ## OLEORIN DRY
- Inhibits fat enveloped viruses
 - Inhibits gram-positive bacteria
 - Reduces mortality rate
 - Improves animal performance

Oleorin Dry
Natural non-Antibiotic Compound
100% Natural

- Inhibits fat enveloped viruses
- Inhibits gram-positive bacteria
- Reduces mortality rate
- Improves animal performance

Oleo Immune Dry
100% Natural

- ## OLEO IMMUNE DRY
- Improves calf performance & health
 - Reductes of Respiratory & Digestive problems
 - Promotes weight gain
 - Reduces the cost of calf rearing
 - Increases profits immediatly

Faculty of Engineering



THE ECOFORDABLE HOUSE وحدة سكنية منخفضة التكاليف و صديقة للبيئة

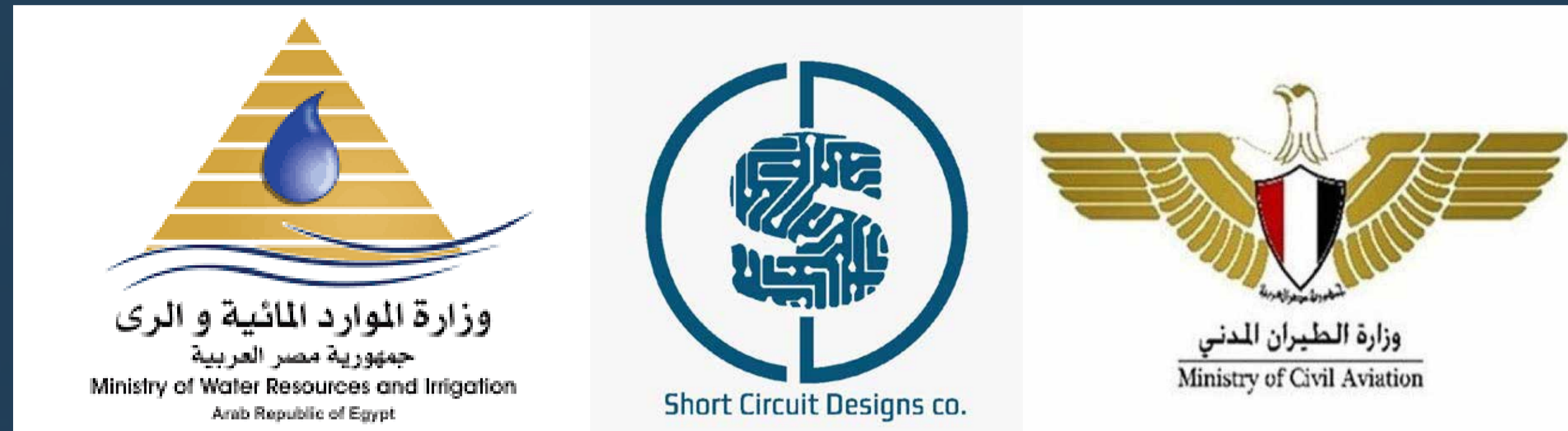
الطوب حاصل على براءة إختراع من مكتب براءات الإختراع المصري
بأكاديمية البحث العلمي والتكنولوجيا وحماية لمدة عشرين عاماً



Faculty of Engineering



COMPETITIVE COST NATIONAL PRODUCTS MADE BY MSA



**Underground
Water Wells
Monitoring &
Control Stations**

اول محطة مصرية الصنع
لقياس منسوب المياه الجوفيه
و السطحيه و التحكم عن
بعد بالتعاون مع وزارة
الموارد المائيه والري



عقد توريد عدد (٤) شبكة لوائح مرابطة

انه في يوم الخميس الموافق ٢٠٢١/١١/١٢ حرر هذا العقد بين كل من :-
اسم الجهة: وزارة الموارد المائية والري - احياء عام مصلحة الري (الإدارة المركزية لتنظيم الرصد والاتصالات التكنولوجية)
مقرها: شارع جمال عبد الناصر - كورنيش النيل - اسيوط - اسيوط
الموضوع: صيانة تليقية و توريد شبكة مرابطة لعدد (٤) مواقع المرابطة (منسوب المياه - معدلات استهلاك - درجة التلوث)
ويتمثلها السيد المهندس / شيمس ابراهيم عبد الفتاح السيد
بصفته: رئيس مصلحة الري

طرف اول

جامعة اكتوبر للعلوم الحديثة والآداب (MSA)
ومقرها: شارع طريق محور ٢٦ ببولي مع طريق الواحات - النسخ من الكوير
ويتمثلها السيد المهندس / ايوال عثمان صالح الدجوي
بصفته: رئيس مجلس اعضاء الجامعة
بمقتضى رقم توكف / ٢٣٨ - ١٩٩٠ - ٢٣٨
بمقرها: قس النيل - القاهرة

طرف ثاني

التلخيصية

حيث ان الطرف الاول ادى رسالته في تنفيذ طرف ثانيا وتوريد شبكة مرابطة لعدد (٤) مواقع المرابطة (منسوب المياه - معدلات استهلاك - درجة التلوث) وذلك بقرن ثلثة اشهر بمتابعة من تحق اعداده بكفاءة واعتمادية وضمن التزامه مع العمل وفقا لما تم تكميلهمه من اشتراطات مالية بحيث ادى الطرف الثاني استعادته لقيم تلك والتمتع وفقا للترتيب والمواصفات واية متطلبات اخرى وبما ا موافقون عليه بقراسة الشروط والمواصفات (و العرض) المقدمه، واذي قبله الطرف الاول .
وفي ضوء اتمام المنفعة المتبادلة بتاريخ ٢٠٢١/١١/١٢ اجراء العقد وفقا لاجتم لقرن تعليم الصفحات التي تقرها الجهات المختصة بالجامعة رقم ١٨٢ لسنة ٢٠١٨ و٢٠١٩ والصفحة التالية

First Egyptian Radiosonde Device (EGY SONDE)

اول جهاز راديو سوند مصري
بالتعاون مع الهيئه العامه
للارصاد الجوية

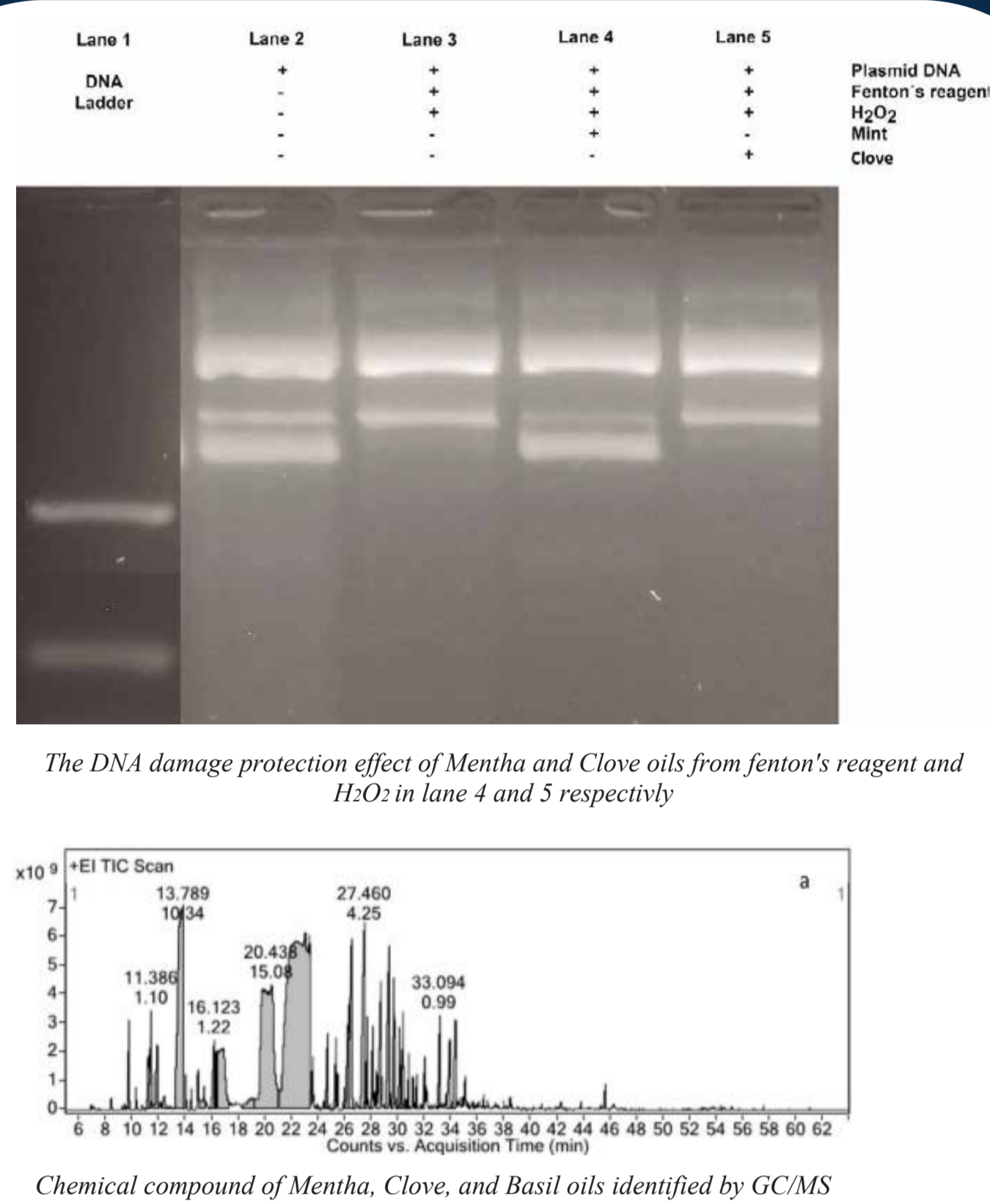


Automatic Agriculture weather station

أول محطة أرصاد زراعيه
مصرية بالتعاون مع
المعمل المركزي للمناخ



Faculty of Biotechnology



CHEMICAL CONSTITUENTS AND BIOLOGICAL ACTIVITY OF DIFFERENT ESSENTIAL OILS EXTRACTED FROM MENTHA, CLOVE AND BASIL PLANTS

This project was a collaboration between the Faculty of Biotechnology-MSA University and Faculty of Agriculture, Cairo University. Supervised internally by Dr. Gehan Safwat and externally by Prof. Ahmed Aboelenen. The project was presented by Ranim Mohamed Riad Mohamed

Field: Pharmaceutical Biotechnology

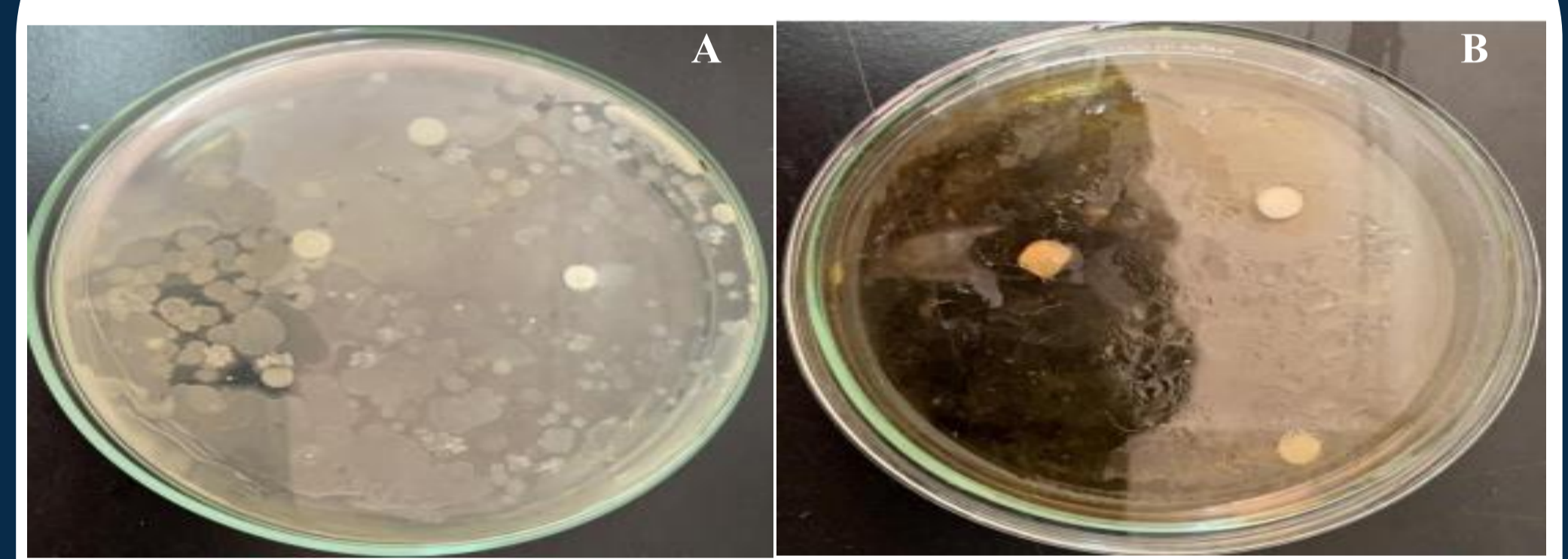
Topic: Essential oils are complex combinations derived from plants. The aim of this project is to extract essential oils from Mentha, basil and clove plants, assessing their chemical composition and evaluating their antioxidant and anticancer activity. The essential oils were extracted, their chemical composition was separated and identified, and their biological activity were evaluated as antioxidants by using KMnO₄, ABTs, and DPPH assays. Their anti-cancer activity on different cell lines as MCF-7, PC-3, epithelial lung cancer cells was determined by using MTT assay and statistical analysis was done using correlation coefficient. The results showed that the extracted essential oils of Mentha, clove, and basil showed a high antioxidant activity and anticancer activity.

BIOCONTROL OF BLACK MOLD ON TOMATO FRUITS BY EUCALYPTUS GLOBULES

This project was a collaboration between the Faculty of Biotechnology-MSA University and Horticulture Research Institute. Supervised internally by Dr. Amgad Rady and externally by Prof. Hemat Sameh. The project was presented by Mona Samir Fawzy

Field: Agricultural Biotechnology

Topic: Many diseases and infections can affect tomato fruits during growth or post-harvest. The aim of this study is the determination of in vitro antimicrobial properties for essential oil (Eucalyptus globules), against *Alternaria alternata* which causes black mold. The activity potentials were assessed by zone diameters of essential oil of tomato fruits. Extraction of essential oil, determination of active compounds (phenols, flavonoids, antioxidants) in leaves of Eucalyptus globules, fractionation, and identification of oil by gas chromatography. Results support the antifungal activity of Eucalyptus globulus essential oil and hexane extract against *Alternaria alternata* black mold in tomato fruit.



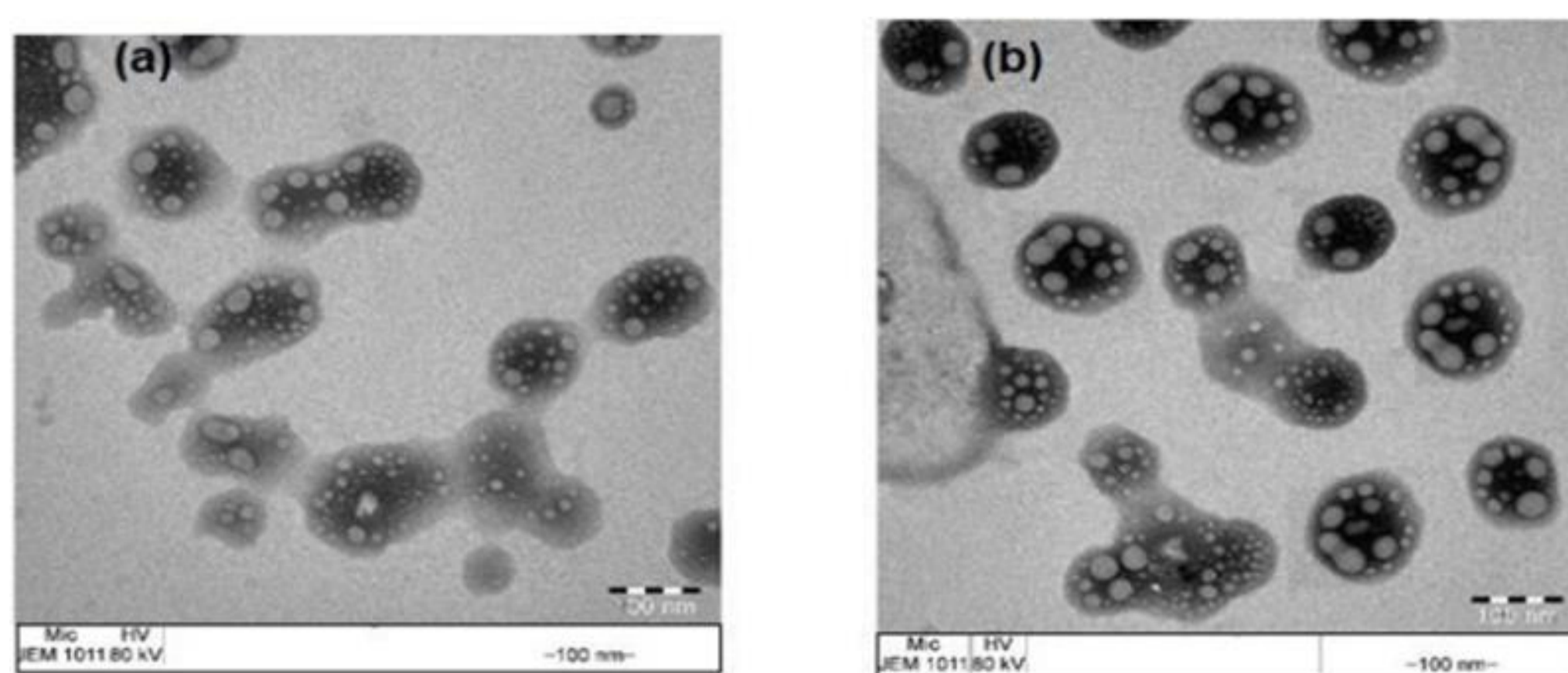
(A) *Alternaria alternata* treated with 500 Ppm of essential oil. (B) Total inhibition of *Alternaria alternata*.

NANOMATERIALS BASED ON PLANTS GUMS AND EXTRACTS AS DRUG CARRIER

This project was a collaboration between the Faculty of Biotechnology-MSA University and Egyptian Petroleum Research Center. Supervised internally by Prof. Ayman Diab and externally by Prof. Ayman M. Atta. The project was presented by Kariman Fawzy Gamaleldin

Field: Nano-Biotechnology

Topic: Gum Arabic (GA) is one of nature's most abundant polysaccharides, provid excellent water solubility and biocompatibility at a cheap cost. It has been widely used in the creation of different nano scaffolds for drug delivery and other biomedical applications. The present work aims to modify the water extracts of Gum Arabic (GA) with polymerizable monomers by grafting and crosslinking using surfactant free method. The semi-batch time modified method was used to produce amphiphilic nanogels having greater ability to load the insulin and to protect from the synthetic stomach fluids and release in intestine and duodenum synthetic fluid. In conclusion, the insulin release data of modified GA nanogels improved their oral delivery to treat diabetes type I.



The above-mentioned figure shows TEM micrographs of insulin loaded a) GA NIPAm/AMPS (80/20) and b) GA NIPAm/AMPS (90/100).

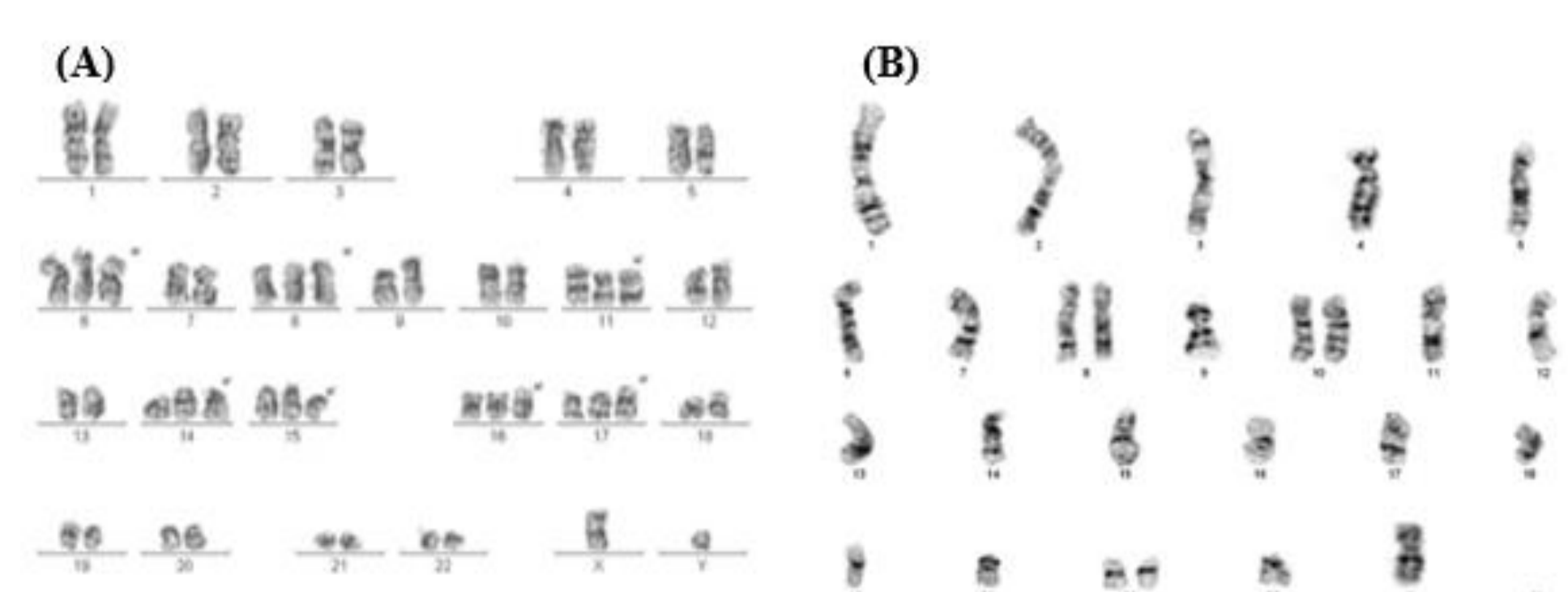
DIFFERENT CYTOGENETIC ABNORMALITIES BY CONVENTIONAL BANDING ANALYSIS IN ACUTE LYMPHOBLASTIC LEUKEMIA

This project was a collaboration between the Faculty of Biotechnology MSA University and Genetica Laboratory. Supervised internally by Dr. Hydan Mostafa and externally by Prof.Yasser El Nahas. The project was presented by Aya Ezzat Saad

Field: Medical Biotechnology

Topic: Acute lymphoblastic leukemia (ALL) is a malignant proliferation of lymphoid cells. The aim of the project is to perform karyotyping with the standard G-banding technique to determine the chromosomal abnormalities of ALL diseases. Bone Marrow samples were collected, cultured, and harvested, then fixed and dropped on a glass slide. Samples were trypsinized then stained with Giemsa dye and finally were examined under the microscope. The results showed that the chromosomal abnormalities occurred spontaneously in the important regulatory genes in a lymphoid cell population.

Finally, we recommend using new diagnostic methods to achieve medicine strategies that will integrate leukemia genomics into chemotherapy.



The above-mentioned figure: (A) Hyperdiploid karyotyping was represented in chromosomes 6,8,11,14,15,16 and 17 and (B) Hypodiploid karyotyping was represented in large number of chromosomes except chromosomes number 8,10 and 21.

FACULTIES OF MSA UNIVERSITY



Dentistry



Pharmacy



Biotechnology



Engineering



Computer Science



Arts & Design



Managment Sciences



Mass Communication



Languages

"The First Educational institution to Announce an AI & Digital Transformation Strategy with Detailed Execution Plan"

01

Cooperation with Biggest Worldwide IT Names:



02

More than **2000** Trained Students and Faculty Members.

03

More than **200** Certified AI Professionals from Microsoft, Huawei, and IBM.

04

World-class Achievements through:

- Having the youngest Microsoft AI certified Professional in History of the region (Student: Amr Sharawy from the Faculty of Pharmacy)



Achieving the 2nd place in the International Huawei competition in 2019 (Students from the Faculty of Engineering: Mostafa Azouz, and Abdulrahman Gamal)



05

AI Inclusion Across the **9** Faculties' Courses.

"MSA's AI & Digital Transformation Strategy"

MSA'S AI and Digital Transformation Strategy

- A Five-Component Strategy that targets applying and spreading:
 - AI Science and Technologies
 - Other Digital Transformation Technologies.
- The strategy has thirteen objectives.
- It is implemented through a Five-Phase execution plan that has been started 18 months ago.
- MSA University Succeeded to reach Phase 4 and approaching phase 5 .



MSA's AI and Digital Transformation Strategy & Execution Plan

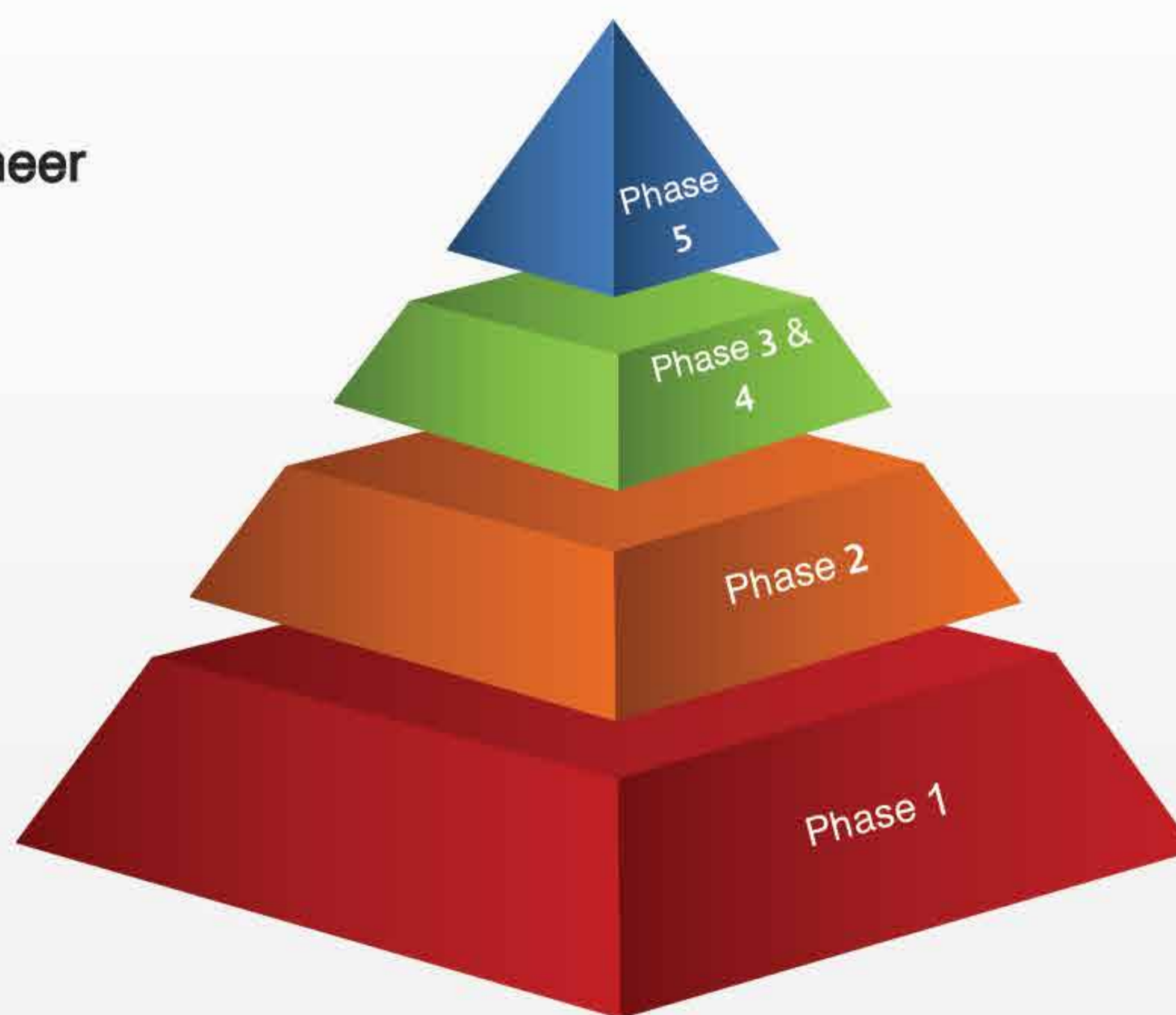
The Targeted AI Clusters to Build

AI Scientist & DX Engineer
(Phase 5)

AI Engineer
(Phase 3 & Phase 4)

AI Worker & Builder
(Phase 2)

AI User
(Phase 1)



Phase Based, Milestone Driven Plan

