

# Achievements Book

## Faculty of Biotechnology



# GRADUATION PROJECTS BOOK

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F A C U L T Y   O F   E N G I N E E R I N G



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# DEAN'S WELCOME

## Welcome to the Faculty of Biotechnology

With the ever changing world we live in, over the past decade, biotechnology has advanced much to the advantage of several fields and industries by altering the specifications desired to comply with our society's needs. Let me give you a comprehensive explanation at its simplest, biotechnology is technology based on biology; biotechnology harnesses cellular and biomolecular processes to develop technologies and products that help improve our lives and the health of our world.

Many students and parents want to know why a person should pursue biotechnology; here are simple reasons to why one should consider applying to a biotechnology program. Today, companies are focused on their position in society and worldwide competition as they become more effective in production, they keep improving their products. Improved production results from technology progression.

Biotechnology is a powerful tool of nature that is in human hand, with our depleting resources the food and agricultural industries will be dependent on the work in the biotechnology field to ensure that there will be enough food to go around and that no one will ever starve from hunger. Recent advances in biotechnology are helping us prepare for and meet society's most pressing challenges.

Now why MSA's program you might ask; the university and the faculty staff are dedicated to providing topnotch education that infuses strong basic knowledge sound practice in biotechnology and applied biology for well-being of society. We offer diverse syllabuses that nurture creative thinking and prepare students for productive and rewarding careers.

Our undergraduate school program provides a bachelor of science (BS), an integrated program designed for training high quality scientists and future leaders in biotechnology. Our biotechnology undergraduates receive high quality education from organized lectures and laboratory courses. Our students have the opportunity to be involved in many aspects of campus life, training sessions on a national scale and abroad, honors program for a master's scholarship, extracurricular activities, and participate in faculty research. Our talented students will make significant contributes in diverse professional sectors in the future. Together, we look forward to discovering exciting new phenomena, unraveling challenging problem in biology and biotechnology, and finding applications in imperative biological matter. Conclusively, we always welcome and encourage your interest in joining our faculty. With sincere regards,



Prof. Ayman Diab

Dean of the Faculty  
of Biotechnology

01 Research Publications

Research+  
Publications



# Research Publications

The faculty of Biotechnology is renowned its keenness towards being innovators. The crowning Jewel of the faculty i.e. 'Graduation Projects', is a unique combination that demonstrates phenomenal success in producing young innovators and future scientists. The best demonstration of its success would be the exponential growth of Undergraduate Student Publications, who develop projects that are accepted in both national and international Journals.



# Students and Staff Research Publications

## 2017

Reem A Yaseen  
Aly Fahmy Mohamed,  
Ashraf Bakkar

Grape Seed Extract Induces G2/M Cell Cycle Arrest and Apoptosis Via Generation of Reactive Oxygen Species in Breast and Colon Cancer Cell lines. *Inventi Impact: Animal Models & Cell Assays*, 2017(2):73-78

Gamal O  
Hassan A  
Mohamed AF  
Shebl RI,  
Bakkar A

Sabatier J-M. (2017) Zinc Oxide Nanorods Induced Apoptosis in Human Prostatic and Hepatocellular Carcinoma via Mitochondria Dysfunction Mediated through Bax/ Bcl-2 with P53 Activation. *Inventi Rapid: Oncology*. (2):1-10.

Diab, A.,  
Ageez, A.,  
Gardoh, I.

*Serratia marcescens* P25, A New Strain Isolated From The Phycoplane of the Red Marine Alga *Punctaria* sp Produced Potent Biosurfactant Used for Enhancing the Bioremediation of Spent Motor Oil-Polluted Soil, 6(1), 1034–1047.

Mohamed Ayman  
Aly Fahmy Mohamed  
Ashraf Bakkar

The *Bacillus Calmette- Guérin* Derived Purified Protein (PPD) Potentiates In- Vitro Anti-Cancer Activity of *Cerastes cerastes* Snake Venom in Colon and Prostate Cancer Cells. *Inventi Impact: Molecular Pharmacology*, (2):70-78.

Menatallah Yasser  
Mohamed Yahia  
Ashraf Bakkar

Preparation of a More Stable Lyophilized BCG-T with the Same Biopotential for Bladder Cancer Immunotherapy. *Inventi Impact: Pharm Biotech & Microbio*, (2):63-69.

Tarek S Aboushousha  
Mahetab T El-Naggar  
Noha S Helal

Differential Expression of TTF-1 in Malignant and Premalignant Tissue of HCV Positive Hepatocellular Carcinoma. *Inventi Rapid: Pathology*, (2):1-8.

Tarek S Aboushousha  
Halima Hirzi.  
Amr Ageez  
Noha Helal

Differential Glut1 Expression In Hepatocellular Carcinoma and Peri-Malignant Chronic Virus C Hepatitis. *Int J Recent Sci Res.* 7(12), pp. 14743-14750.

Khaled AR  
Shaker LS  
Bakkar A  
Abulmagd SM.

COMPARISON OF DIFFERENT FERMENTATION PARAMETERS OF PASTEURELLA MULTOCIDA ON THE DRY CELL MASS FOR THE PREPARATION OF FOWL CHOLERA VACCINE. *International Journal of Recent Scientific Research.* (12):4558-14561.

Selvia Samir Taky  
Ashraf Bakkar  
Aly Fahmy

Evaluation of Antiviral Activity of Bee Venom, Phospholipase A-2 (PLA-2) and Propolis against DNA and RNA Virus Models: In-Vitro Study. *Inventi Impact: Molecular Pharmacology,* (2):93-100.

## 2016

Amira M. Mansour  
Abir A. Elfiky  
Aly Fahmy  
Ayman Diab

Therapeutic effect of bee venom formulation in the treatment of FMD viral infection: Preclinical and clinical evaluation. *International Journal of Scientific and Research Publications,* 6 (6): 711-729.

Samah M. Abdel-Hafiz  
Hussam M. Hamdy  
Mohamed I. Seleem  
Tarek S.E.D. Aboshousha  
Ayman A. Diab  
Fatma M. Khorshed  
Amira A. Ramzy  
Mohamed A. Saber.

Differential Expression of MiR-224 in Serum and Liver Tissue in Hepatocellular Carcinoma Patients. 16th IUBMB conference, Signaling pathways in development disease and aging. Vancouver, BC, Canada.

El Sobky SA  
El-Ekiaby NM  
Mekky RY  
Elemam NM  
Mohey Eldin MA  
El-Sayed M  
Esmat G  
Abdelaziz Al.

Contradicting roles of miR-182 in both NK cells and their host target hepatocytes in HCV. *Immunol Lett.;* 169: 52-60. doi: 10.1016/j.imlet.2015.10.013. Epub 2015 Oct 27. PubMed PMID: 26518141.

Samah M. Abdel-Hafiz  
Gehan Safwat  
Khaled M. El Eselyl  
Fatma M. Khorshed  
Mahmoud A.E.A. Abas  
Mohamed A. Saber

Genetic Polymorphism Contribute to Bladder Cancer Risk in Egyptian Population. 16th IUBMB conference, Signaling pathways in development disease and aging. Vancouver, BC, Canada.

El Hussein  
Z. M. H.  
William  
H. F.  
Hassan O. S.

Determination and quantification of salt stress related genes in faba bean (*Vicia faba*). Egyptian Journal of Genetics and Cytology. (in press).

Aly F. Mohamed  
Abir A. El Fiky  
Osama S. Hassan  
Nada El-Megharbel

Controlled study of application of bee product as new medicine against breast cancer and lung cancer, International Journal of Advanced Research (in press).

Hala F. William  
Aya A. Murad  
Lmaiaa S. Shaker  
Shaimaa M. Abo El Magid  
Osama S. Hassan

Comparative evaluation of *Escherichia coli* and *Bacillus cereus* production potentials of acetic acid under optimized fermentation conditions, International Journal of Recent Scientific Research(in press).

Mroog A AbouArab  
Ahmed M. Eissa  
Sahar A. Youssef  
Gehan Safwat  
A. A. Shalaby

Comparative and molecular identification of cucumber mosaic virus (CMV) isolated from banana and olive trees in Egypt, Egyptian Society of Virology (in press).y.

Ashraquat Shams  
Amgad M. Rady  
Aly F. Mohamed

Experimental preparation of inactivated polio vaccine using different inactivants and related immune potential, International Journal of Advanced Research and Technology (accepted).

Bakkar A  
Alshalalfa M  
Petersen LF  
Abou-Ouf H  
Al-Mami A  
Hegazy SA  
Feng F  
Alhadj R  
Bijian K  
Alaoui-Jamali MA  
Bismar TA

microRNA 338-3p exhibits tumor suppressor role and its down-regulation is associated with adverse clinical outcome in prostate cancer patients. *Mol Biol Rep. Apr; 43(4):229-40.* doi: 10.1007/s11033-016-3948-4. Epub 2016 Feb 23. PubMed PMID: 26907180.

Mohsen R  
Alexander BD  
Richardson SCW  
Mitchell JC  
Diab AA, et al.

Design, Synthesis, Characterization and Toxicity Studies of Poly (N-Iso-Propylacrylamide-co-Lucifer Yellow) Particles for Drug Delivery Applications. *J Nanomed Nanotechnol 7: 363.* doi:10.4172/2157-7439.1000363.

Reham M. El-Bahbohy  
Farida Shokry  
Shady A. Mottaleb  
Essam Darwish  
Gehan Safwat  
Naguiba Elghamrawy

'Enhancing biomass productivity and photosynthetic pigments content of an Egyptian anabaena ambigua blue green alga isolate, *International Journal of Agricultural Science and Research (IJASR).*

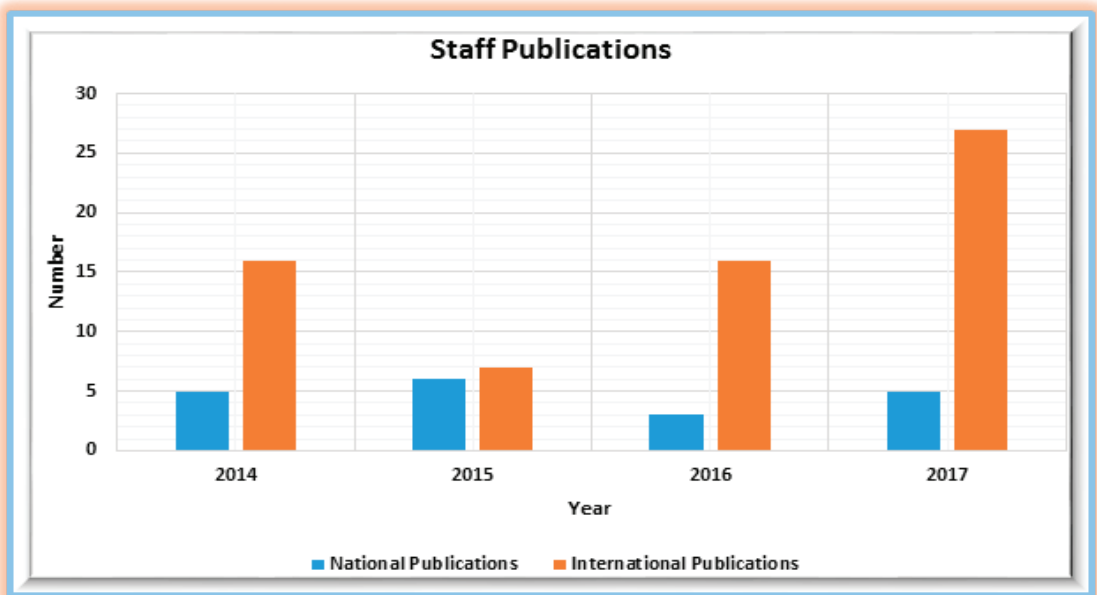
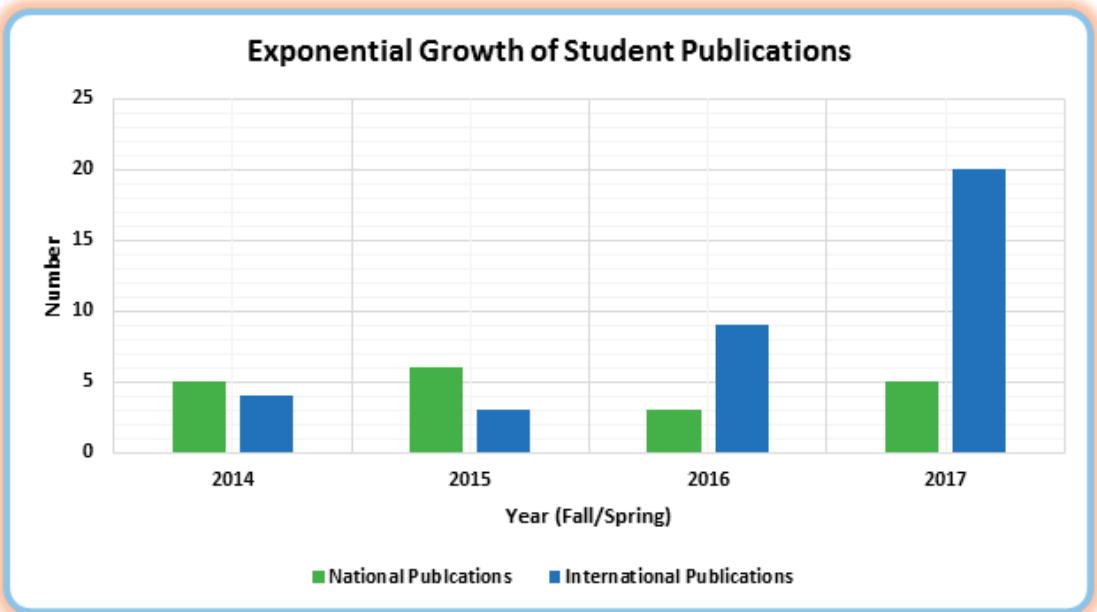
Abouelkass em  
S.  
El-Borady  
O. M.

Remakable enhancement of cyhalothrin upon loading into silver nanoparticles as larvicidal. *International Journal of Contemporary Applied Sciences, 3, (1), 252-264.*

Aly  
F.  
Ahmed  
N.  
Mina  
A.

Remakable enhancement of cyhalothrin upon loading into silver nanoparticles as larvicidal. *International Journal of Contemporary Applied Sciences, 3, (1), 252-264.*

# Exponential Growth of Students and Staff Publications



## 02 Students & Staff Awards



# Students & Staff Awards



# Students & Staff Awards

The faculty of Biotechnology have been actively Participating in a number of competitions and conferences these past couple of years. It is of great honor that they have always received high praise and even been awarded several placements.



# Palermo University Programme & Young scientists workshop-Nanomedicine in Cancer-Cancéropôle Grand Sud-Ouest, Montauban, France

Three of our selected students were placed to conduct their graduation projects at Palermo university, Italy, a placement which was well received by the researchers of the facility who praised the performance of Mr. Hesham Ashraf, Ms. Howida Samir & Ms. Nancy Karem.

The surprise was in Ms. Nancy's participation in the young scientist workshop in Paris, where she was awarded 1st Place in this international competition, and given an international scholarship at the EU university of her choosing upon graduation. Ms Nancy was the only Egyptian, and selected amongst a large panel which elected 10 young researchers from all around the world



# 3rd Annual Cairo International Exhibition of Innovation

The students at the faculty of Biotechnology actively participated in the above competition, where they exhibited their ongoing and future projects. Ms. Mena Yasser was awarded first place overall, for this national competition, a prize which involves her international travel to participate in another conference to represent Egypt globally



# Women in Science without Borders (WISWB)

The 1st International Conference on Women in Science and International Networking, which was aimed at bridging the Gender Gap in STEM in Favor of Sustainable development (Women in Science without Borders (WISWB)). WISWB was organized under the patronage of Egyptian senior and young academies (ASRT and EYAS). WISWB is supported by the Arab Science and Technology Foundation (ASTF). Student Awards included 2nd Place Ms. Hadeer Hisham & Ms. Hoda Raafat in Health, and Third Place Ms. Howida Samir & Ms. Nancy Karem



# Science Operation Leaders (SOLE) Competition

The faculty has actively participated in this competition for several years these past 2 were several awards including Best Presentation Skills by Ms. Sumaiyah Shekhdon and Mr. Amr Yasser, and best Project for Mr. Mohamed El Beltagy



# Women in Science without Borders (WISWB)

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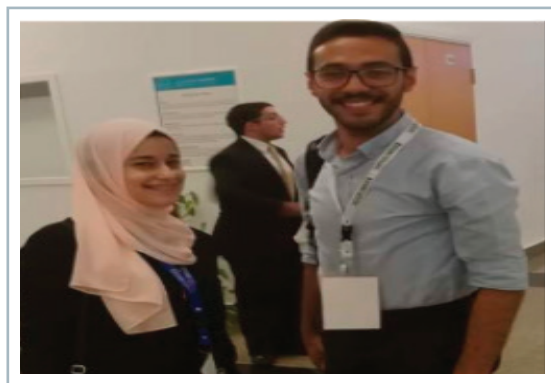
The faculty Participated with 4 different projects in the fields of education, health, & environment. All of which were selected from 3000 different submitted projects. The Teaching Assistants placed in the field of education, and the students were placed in the Health Department. Assistant Lecturers Shaza Ahmed, Gehan Hammad, Suzan Ali, and Ingy El Hefny were awarded 2nd Place in Education.



# Zewail City Conference & Exhibition on Biomedical Sciences

MSA Graduate and Teaching assistant Moustafa Ahmed recently published his research which a joint project between MSA University & RASA LIFE SCIENCE INFORMATICS entitled 'In-Silico Discovery of Novel Inhibitors for Peptidyl Prolyl

Isomerase (PIN1): Molecular Modeling Approach for Combating Breast Cancer and Cancer Stem Cells. Moustafa A. Mohamed, Tanvee Pardeshi & Sameer chaudhary.'The work was presented in the above stated exhibition and praised for its novelty.



## Genius Olympiad, USA, 2017

Moustafa Ahmed was also involved in a project entitled 'Overcoming Hepatitis C Virus Genotype-4', in collaboration with Ahmed Hasan & Heba Mahmoud. This was also a collaborative project between MSA & the National Cancer Institute; the poster was presented and won the silver medal

# Zewail City Conference & Exhibition on Biomedical Sciences

Dr. Reham Mohsen recently received an award for research excellence from the Syndicate of Pharmacists



Ms. Gehan Hammad assistant lecturer at MSA, attended her graduation ceremony at the University of Greenwich, where she received an award for best international student at MSc Level



Ms. Rima Akid who previously worked as an assistant lecturer at MSA also received an award for best international student at MSc level from Manchester University







Conferences+  
Exhibitions

# Biotechnology 1<sup>st</sup> International Conference

MSA University has witnessed the first international conference for the biotechnology applications in which three hundred and fifty scientists and researchers have shown up from all over the world. Where they have presented the latest researches concerning the biotechnology field. Presented researches, development across bio industries covering medical, diagnostic, therapeutics, pharmaceutical, and manufacturing waste management.

The head of board of trustees, Dr. Nawal El Degwi, the head of board of trustees has declared that this conference is considered a boom for serving the society. She added that this conference is a good

opportunity to gather all Egyptian scientists head by Dr. Ibrahim Badran. Prof. Khairy Abdel Hamid, the president of MSA University has stated that this conference was the outcome of cooperation between MSA University and the British universities in different educational fields. Prof. Ayman Diab the dean of faculty of Biotechnology stated that the conference has reviewed new scientific inventions that will be the focal point of the international scientific conferences in the future. Moreover, Prof. Marsh Snadan, the vice president of postgraduates of Greenwich University has been impressed by the higher marked science level of this conference.



# Biotechnology Horizons Conference

This conference was aimed at dispersing some of the advances made in genomic analysis. It was prepared as a portion of the course complex genome analysis with the hopes of enlightening younger scientists of some of the theories and methods implemented by their peers and professionals in the field. It was hoped that an environment of strengthening or establishing scientific collaborations and exchanges amongst attendees was achieved.



# Introduction to Biotechnology Exhibitions

This exhibition was aimed at acknowledging the fields of biotechnology, their advances, and applications even in Egypt. It was prepared as a portion of the course Introduction to Biotechnology with the hopes of enlightening younger scientists of some of the theories, applications and methods implemented by their multidisciplinary field of study.

Attendees developed an understanding of the different biotechnological fields, and career paths in Egypt as well as developing skills of communication through examining the varying Topics prepared.



# Complex Genome Analysis

- Attendees developed an understanding of some advances made in molecular biology and genetic analysis.
- Attendees were exposed to the significance of epigenetics and its role in scientific research.
- Attendees developed skills of communication through examining the varying projects prepared.
- Attendees appreciated the significance of Next Generation Sequencing

## Its Inauguration & Evolution!



For more information on this development visit the complex genome analysis website: <http://complexgenomemsa.com>

Lectures+  
Seminars

# Lectures and Seminars

From time to time the faculty invites Academic speakers from other institutions to discuss the different disciplines of science. This provides the chance for students to comprehend the opportunities, responsibilities and experience of the professional career in the spoken of field. The industrial project course highlights their importance since it aims to inspire our thriving young scientists through the exposure of the expertise of the renowned speaker. The faculty intends to invite the following speakers to cover the stated topics mentioned in the following table

<b>Accommodated Academic Speaker</b>	<b>Topic/ Field</b>
Dr. Joaquin Lanz	Flavor and Natural Juice solutions
Dr. Shereen Abdel Ghaffar	Scientific Writing
Prof Sherif Nashaat Amin	Medical Test
Dr. Yasser Y. Ibrahim	Apis- mollifier Biotechnology
Dr. Mohamed Ismail	Aquamarine
Dr. Heba Salah	Prenatal Diagnosis



Faculty Training

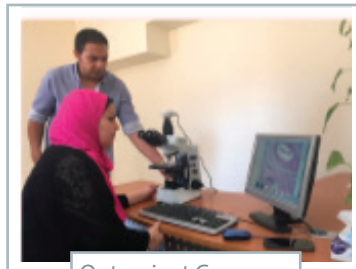
# Faculty Training

Trainings are a fundamental tool used in the Faculty of Biotechnology. The training programs provided allows students to develop areas that suit their particular needs. During our trainings, attendees have the opportunity to interact with others from different organizations and different industries. These diverse perspectives allow students to explore innovative approaches to solve common issues.

The variety of trainings offered permits learning, developing and interacting without the distractions of the everyday student duties. Several institutes have accommodated our students for training. We plan to add training in more field than the already existing fields offered. The following is a list of accommodating hosts that we sent our students to and planning to add for the upcoming year.



57357 Hospital



Optoscient Company



Nanobiotechnology

## Medical/Pharmaceutical Biotechnology

- ▶ 57357 hospital children's cancer
- ▶ Biotech village in Abu Dhabi
- ▶ Greenwich University
- ▶ Optoscient Company

## Agricultural/Environmental Biotechnology

- ▶ Agricultural Genetic Engineering Research Institute
- ▶ Research Centre
- ▶ Central laboratory
- ▶ Delta Aromatics

## Forensic/NanoBiotechnology

- ▶ Nanobiotechnology, Beni-Suef Uni
- ▶ Egyptian Centre for Research and Security Studies

57357



Egyptian Center for  
Research & Security



AGERI



Central Laboratory



Optical Microscopy



# Field Trips and community work

Academic field trips are the enjoyable element of education. Field trips enhance significantly the content introduced in a course through conveying certain elements that cannot be illustrated with a broad spectrum in classrooms. There are several courses in the Faculty of Biotechnology that include going on field trips. One of the main courses that involve

various field trips is the “Industrial Project” that project promotes a spectrum of benefits to the students. We intend to visit various sites as the ones mentioned in the following table



Glucose and Starch Factory

AGERI

Cell Safe Cord Blood Bank

Egyptian Company for solid waste

Nano- Technology Centre

Ice man Factory

Central palm of tissue culture

Activities Clubs

# Fit-Campus

On March 25th 2017, the faculty of Biotechnology at MSA University has successfully launched a brand new initiative that goes by the name Fit-campus. Fit-campus is a full-scale movement that aims to promote the crucial necessity of leading a healthy lifestyle in terms of adopting healthy eating habits

and spreading the motivational word out to exercise on a regular basis for the sole purpose of ensuring the public well-being



# Debate Club

The faculty of Biotechnology held their first session for their debate club. The event was quite interesting. It began with a presentation detailing all the rules and regulations that they would follow. What the club's aims were, and how the session would progress. The student teams were composed of six speakers for each team. The first topic was extemporaneous (previously prepared) and revolved around the 'Social Media,' and whether it was an extension of our social life, or a barrier for real communication.

The Debate Club is an activity that was established at the faculty with a purpose to train students and cultivate their argumentative skills. It is a fundamental tool for developing and maintaining democracy and open societies.



# Book Club

Reading is the first of all talents that we learn as children, but then to evolve in life, we have to understand what we are reading and what it is relating to and because learning should be fun, faculty of biotechnology has initiated its very unique club (The BOOK CLUB). Book Club has a different theme for each session

which is suggested and organized by its members. It is aiming to elaborate to people the genres of all books and help to improve the first of all talents, for to read is first and foremost the feeding of the soul with the power of knowledge.

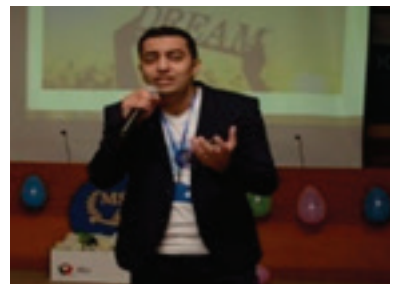




# Inspire Club

MSA's Faculty of Biotechnology presents INSPIRE CLUB every tiny action, detail or idea is purely set to serve the sole purpose of empowering individuals, through inspirational service to the younger student generation by motivational speeches and raising awareness in hopes to enable and empower students to reach their full potential in their upcoming careers and life.

Various diverse speakers participated in our first event "Not all heroes wear capes" Dr. Khaled Zidan, Dr. Amgad Rady, Mohamed Hussien, Khaled El-Sahary, Mohamed El-Beltagi and was concluded with Roushdy Younis & Mahmoud Medhat.



# Journal Club

Biotechnology Journal Club services the research needs of the learning community and granting access to many informational resources. Furthermore, the club is dedicated to engaging a community of scientists in innovative education and researches in order to

- Increase the research capabilities inside MSA.
- Help M. Sc. and ph. D. students in their points.
- Prepare team aiming to apply for research grants.
- Provide our students' knowledge for research is a powerful tool that

allows Biotechnology students to excel.

- Maximize the benefits of biotechnology research within the MSA University and scientific society in Egypt



# Science Fiction Club

The Faculty of Biotechnology believes that developing the imaginary skills are essential to prepare a generation that has the ability to predict, dream, create and change the future. We provide the space for students to connect, share and exchange ideas giving them the opportunity to enjoy the semester with activities that bring out their inner talent, engage them with research and promote their mental skills.

This will be accomplished through

competitive sessions, watching fantasy science fiction short films and playing challengeable games. Club members will be assigned to do some tasks. We are not only watching a short film, we discuss the topic and teach them how to think out of the box and be creative.



Faculty Events

# Biotech Got Talent

The faculty of Biotechnology decided to exhume and portray the talents of the students of the faculty of biotechnology. A unique event was held, with an honorary panel of judges including the talented composer Amr Mostafa, and the seasoned actress Liqaa El

Khamissi. The students brought out a multitude of skills including singing, playing music, painting, beatboxing, stand-up comedy and many more. The winners were given distinct prizes and praised for their performances



# Children University

The Children's University is an International critically-acclaimed charity which encourages all children aged 5 to 14 years to try new experiences, develop new interests and acquire new skills through participation in innovative and creative Learning Activities outside of the school day. At the heart of our work is our ambition to raise aspiration, boost achievement and foster a love of learning. The main goal is to build the minds of Egyptian children by enhancing their interest in science by emphasizing the importance of scientific research and developing scientific skills.

The Children's University's concerned with preparing children for future challenges and promoting children's long-term interests in learning and promoting self-esteem and confidence. Helping children to achieve future goals and ensure that all high quality educational activities are available to every child regardless of social background and STEM support (Science, Technology, Engineering and Mathematics) in Egypt



# Biotechnology Sports Day

For the second-time faculty of biotechnology launched the sports day event for all biotechnology students from different levels at MSA University. The students were divided into eight teams and competed in soccer and volley ball. The eight teams were allowed to choose their own names from which the winning team was awarded

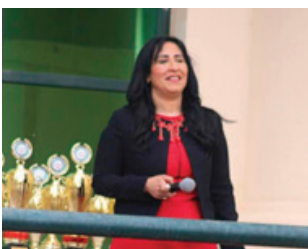
medals. The event was honored to welcome the two famous Zamalek football player Moustafa Fathy and Salah Riko who participated in the football tournament with the students.



# Science and Engineering Fair

The MSA University Science & Engineering Fair was held last March. The event entailed three main categories: Sciences, Engineering, & Environment. The event was held at the October campus, which hosted over 350 students responsible for over 60 projects from 15 different governorates. The event was held for two stages both a Junior & Senior Category. The selected winners have qualified and represent Egypt in the international Science Fairs 'iSWEEP' & 'Genius Olympiad'. Professor Ayman Diab was the Chairman of the Judging Committee for the Senior Category. The event's focal point Dr. Gehan Safwat organized this event along with Ms. Gehan Hammad in collaboration with the

'Dar El Tarbiah Schools'. And the End Dr. Nawal El Degwi, Prof. Khayri Abdelhamid, and Prof. Ayman Diab announced the winners and distributed the certificates for the students. We were honored to have Prof. Mahmoud Sakr, President of the Academy of Scientific Research & Technology (ASRT), and The current advisor to the Ministry of Education attend this event as well





# High Performance Trip

High performance trip was held to Suez Canal for students with exceptional academic performance and who have exited the probation level.



# High performance Trip II

A high performance trip was held to wady El rayan for students with exceptional academic performance and who have exited the probation level

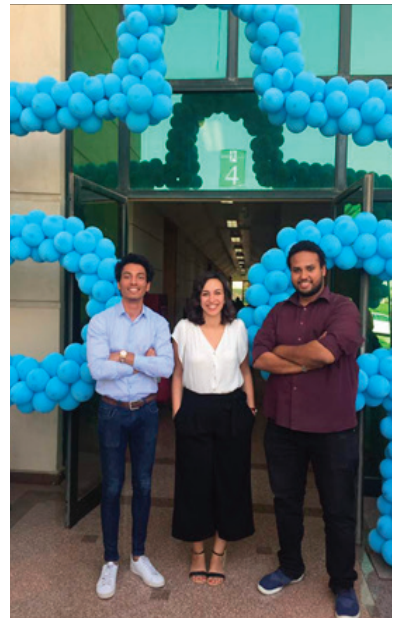


Awareness  
Campaigns

# Autism Awareness Day

The Faculty of Biotechnology, MSA University, hosted an awareness day for Autism entitled "Autism Enigma: Breaking the Boundaries". The event was held on Sunday 30th of April. It included speeches from specialized doctors including Dr. Aicha Massrali, PhD student at Cambridge University, who

revealed the mystery about Autism. We were honored to get a "life experience" speech from Dr. Maan Al-Gailani, Greenwich representative at MSA University. The event came in the presence and participation of Metalab along with some activities during the day.



# Breast Cancer Awareness Campaign

1 in 8 women will be diagnosed with breast cancer in their life. Thereby, the faculty of Biotechnology have organized a breast cancer awareness campaign for the staff and students in the honorary presence of our guest speaker, Prof. Amr Helmy; Former Minister of Health, Prof. Ahmed Selim; Head

of Oncology Center and Prof. Ahmed Hassan Head of Oncology Center at Baheya Hospital. There were 11 sponsors covering health and fitness scholars covered the event.



# HCV Awareness Campaign

HCV awareness campaign was done with the help of students (registering in the molecular diagnosis course). The campaign was sponsored with Le Baladna, Abbvie Company, and Faculty of Biotechnology. The aim of this campaign was to engage the young budding students to the problems of the community

where each and every student was assigned to think outside of the box and to create a novel idea by which they can reach the public. The goodness of this project is that the students was applying what they have learned during the course





Staff  
Achievements



# TAs and Academic Staff Achievers (Last 3 years)

Master's Degree

Shaza Habib  
Gihan Hammad  
Heba Hisham

Hady Shahin  
Suzan Ali  
Hoda Essawy  
Zahra Saleh

PhD

Dr. Amgad Rady  
Dr. Reham Mohsen

Academic Staff promoted to Associate Professor

Dr. Gehan Safwat  
Dr. Ahmed Nada

PG-Cert in HE achievers

Dr. Ahmed Nada  
Dr. Osama Saad  
Dr. Amr Ageez

PG-Cert in HE current students

Dr. Ashraf Bakkar  
Dr. Reham Mohsen  
Dr. Radwa mekki

Dr. Amgad Rady  
Dr. Radwa Mekki



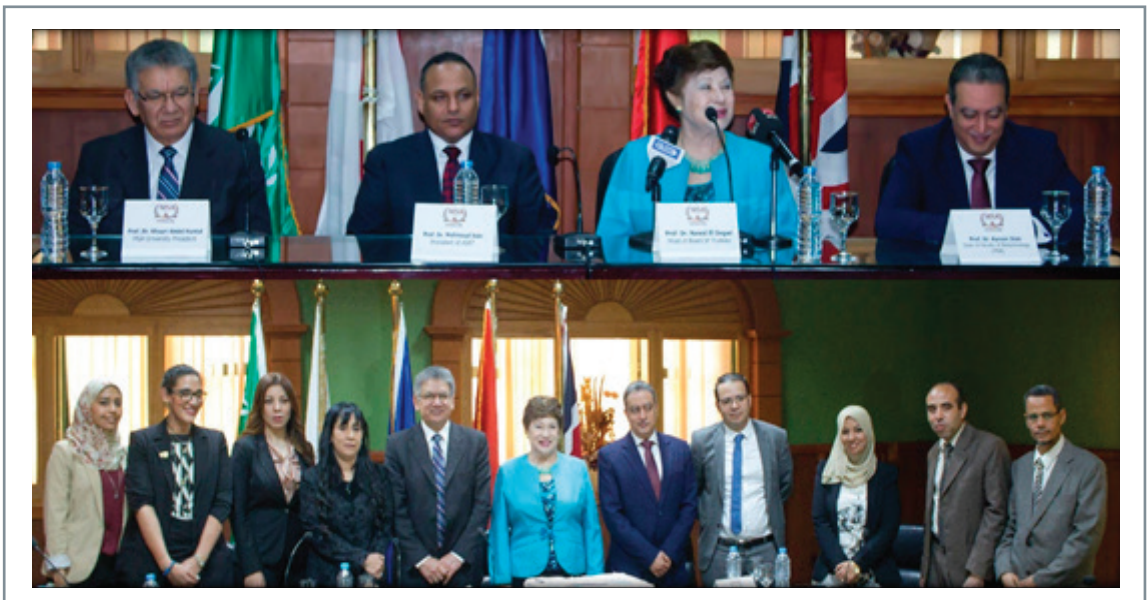
Project+  
Grants

# Projects and Grants

The faculty of Biotechnology has acquired an acceptance for a fund from the JESOR Program, Academy of Scientific Research & Technology, for a research proposal in 2016. The JESOR--Development Program is one of the initiatives at the Academy of Scientific Research and Technology to promote proper scientific practice. It builds on the experience of "The Transfer of Knowledge through Expatriate Nationals (TOKTEN) Programme" which was administered by the Academy of Scientific Research and Technology. JESOR allows the Egyptian industry and research

institutions to cooperatively work with experts from abroad on a joint project.

This project revolves around an experimental therapeutic for hepatocellular carcinoma (liver cancer), by the application of p53 gene and turmeric in curcumin coated by PEG nanoparticles. The project is one of the first of its kind and is expected to yield extraordinary results. The project acceptance entails a budget of 1 Million EGP over a period of 24 months.



# Previous Projects

- 2013-2015: Ayman Diab-The Principal Investigator of the project “Establishment of Technology and Innovation Commercialization Office at MSA University and fostering research innovation in 6th October city”. The Project is funded by the Academy for Scientific Research and Technology – Ministry of Higher Education. Awarded Fund is 700,000 L.E.
- 2012-2015 Amr Ageez Team member, De novo Sequencing and Assembly of the Egyptian Buffalo Genome. Research project funded by Science & Technology Development Fund (STDF), Ministry of Higher education. Awarded Fund is 2,644,320 L.E.
- 2010-2014 Amr Ageez Personal Investigator, of Development and enhancement of butanol production in E. coli. Research project funded by Science & Technology Development Fund (STDF), Ministry of Higher Education Awarded Fund is 1,000,000 L.E.

