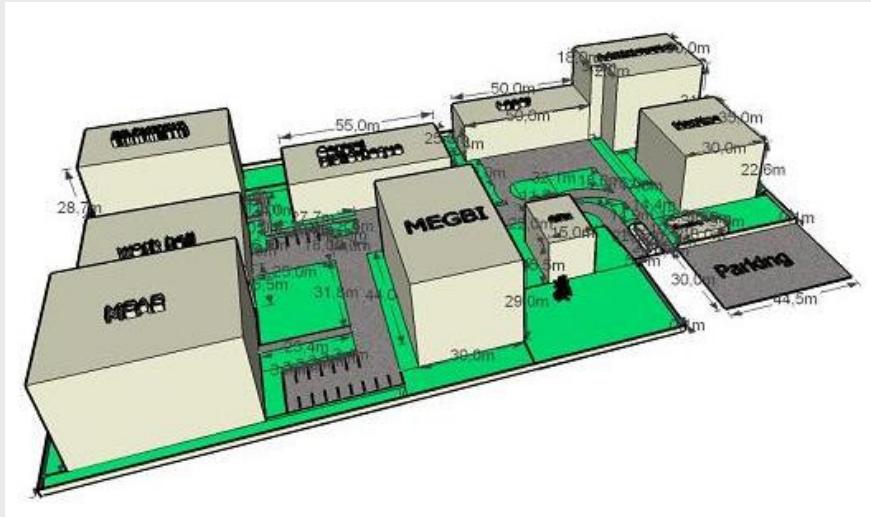


Technological Development Foundation

AECENAR Applied Research Center

August 2008 – May 2012

www.aecenar.com



ابحاث تطبيقية ذو مصلحة عامة

Applied Research of Public Interest

تأسيس شركات في ميدان التقنية
البيولوجية في الشرق الاوسط

Initiating Biotech startup Companies in
the Middle East

MEGBI courses

Trained personal participates
in MEGBI research projects

MEGBI research
projects

Commercializing the MEGBI
research results by
former MEGBI research staff

Startup commercial
biotech companies

مساعدة انشاء بنية تحتية
للصناعة في المنطقة

Helping of Industrial Growth in the Region

تأسيس شركات في ميدان الطاقة
البديلة في الشرق الاوسط

Initiating Solar Energy Startup
Companies in the Middle East

MEAE courses

Trained personal participates
in MEAE research projects

MEAE research
projects

Commercializing the MEAE
research results by
former MEAE research staff

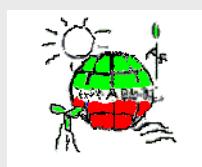
Startup commercial
solar energy
companies

Institutes مراكز الابحاث



مركز ابحاث الشرق الاوسط
للجينات والتكنولوجيا
<http://aecenar.com/institutes/megbi>
ابحاث عن الفحة

MEGBI - Middle East Genetics and
Biotechnology Institute
<http://aecenar.com/institutes/megbi>
Vaccine research



مركز الشرق الاوسط للطاقة البديلة
<http://aecenar.com/institutes/meae>
بحوث حول اجزاء مخططات طاقة عن طريق الحرار
الشمسية وعن طريق حرق النفايات

MEAE - Middle East Alternative
Energy Institute
<http://aecenar.com/institutes/meae>
Elements for Solar- and
Incineration Power Plants



مركز ابحاث لعلم الفلك و فيزياء النجوم
<http://aecenar.com/institutes/iap>
مذكرة لاحادث في مناطق بين
النجوم و لانشاء النجوم

IAP - Institute for Astronomy and
Astrophysics
<http://aecenar.com/institutes/iap>
Modeling Interstellar Processes
and Star Building

Central Library المكتبة المركزية



Publications المنشورات 2011 – 2010

Houda A., Bakoben S., Introduction to Molecular Modeling
(مدخل الى المذكرة الجزئية), Ras Nhache, June 2011

Abdulwahab N., Mourad S., Borghol S., Laboratory verifying of the peptid
candidate FLKDVMESM by ELISA analysis, Ras Nhache, June 2011

Mourad S., Al-Haj R., Abdulwahab N., El-Eter G., Al-Chbib L., Khidr M., Zaki
O., Training Courses in Genetic Engineering I-III,
تدريبات مختبرية في ميدان الـ بـ يـوـ تـكـنـوـ لـوـ جـا (ـ جـمـيعـ التـفـاصـيلـ بـالـغـلـيـنـ العـرـبـيـ وـ الـخـلـيـجـيـ)
Ras Nhache, August 2010

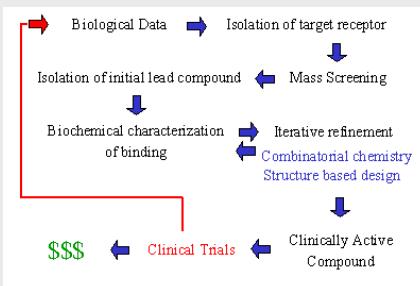
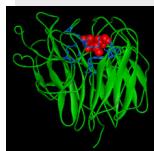
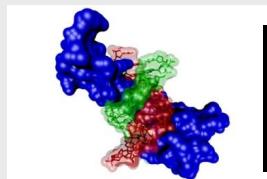


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Research fields

ميادين الابحاث

Rapid Prototyping for DNA vaccines

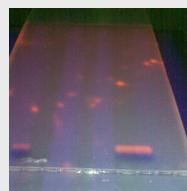
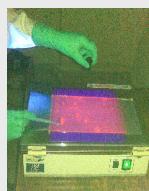


MEGBI Laboratory

مختبر المركز



Genetic Engineering Lab with Biosafety Level 2



MEGBI Milestones

August 2009: Beginning of MEGBI Genetic Engineering Lab work

October 2010: Publication of MEGBI Training Courses I-III in Genetic Engineering Techniques

January 2011: Starting of work in MEGBI bioinformatics lab

April 2011: First diagnostic services available at MEGBI partner company LG Biotech

March 2011: Starting H5N1 Peptid Vaccine Research Project by former trained staff

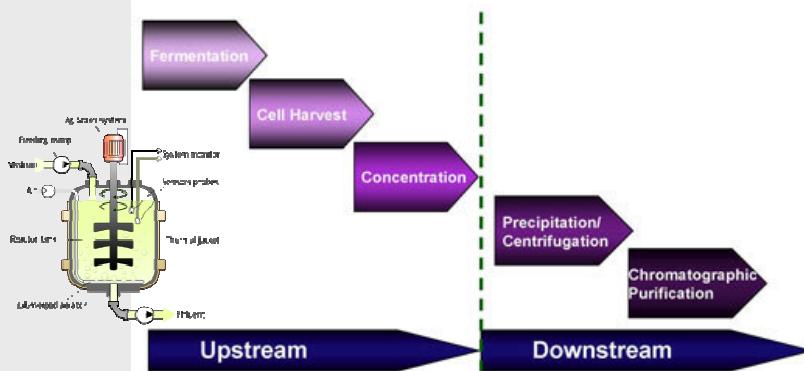
March 2012: Starting of development of Bioreactor production site for research pharmaceuticals

Actual Projects at MEGBI

Large scale production of influenza A vaccines:

Establishment of upstream (bioreactor) and downstream (purification) processing of DNA vaccines in *S.cerevisiae* and *E.coli*

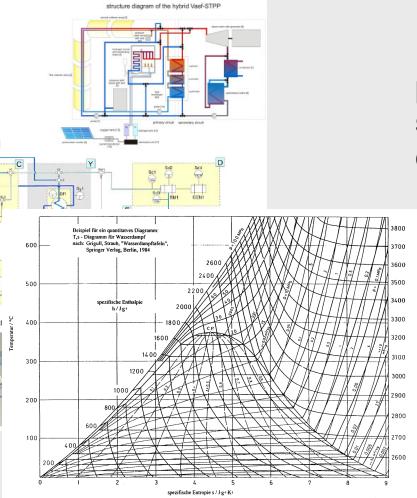
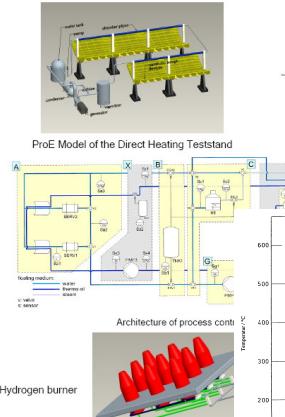
Production of Recombinant Proteins





Research fields

ميادين الابحاث



Elements for alternative power plants suited for solar / wind / incineration combustion hybrid plants

Numerical Combustion: Simulation Models for safe small combustion devices

MEAE Laboratory

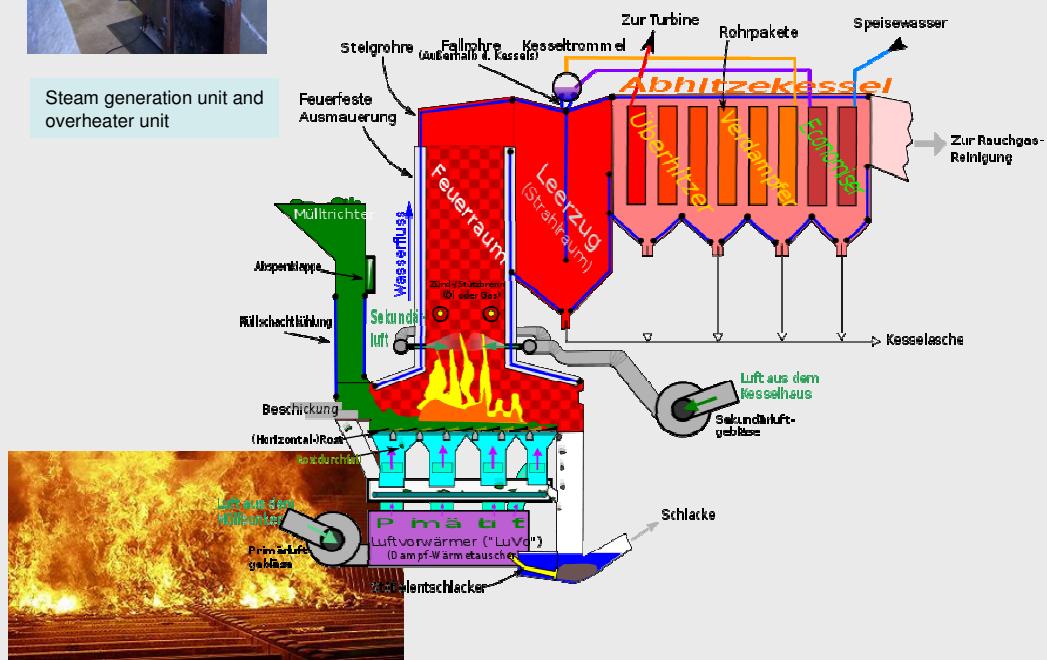
مختبر المركز



Actual Projects at MEAE

Development of a pilot test rig for steam generation with waste incineration in combination with solar power

توليد كهرباء عن طريق ترميم
النفايات و الطاقة الشمسية



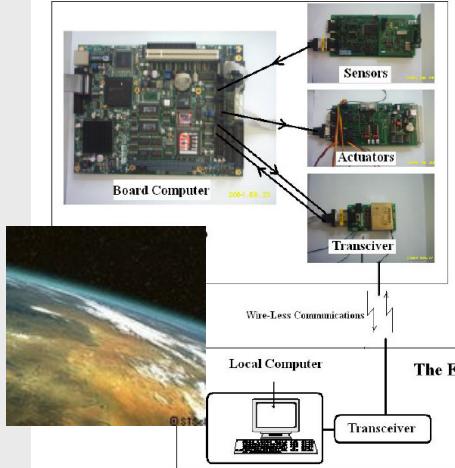
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Research fields

ميادين الابحاث



**Modeling Interstellar Processes
and Star Building**



**Data Aquisition
with orbit
sensors**

IAP Laboratory مختبر المركز

Actual Projects

Computer Simulation Lab



مختبر ايلكترونوي
Electronics Lab

Migration of former „VaEf alternative airship Lotte“ control system to the IAP satellite based control system

Building of a simulation model for the first phases of star building with the CFD software package FreeCFD



AECENAR

Association for Economical and Technological Cooperation
in the Euro-Asian and North-African Region

جمعية الشرق الأوسط للتنمية والتعاون في الميدان التكنولوجي AECENAR Middle East

Ras Nhache Facility (about 25 km from Tripoli in North Lebanon)

مراكز راسنحاش (تقع على بعد 25 كم. من طرابلس الشرق)



AECENAR Middle East
Ras Nhache, Main Road, District: Batroun – North Lebanon, Lebanon
راسنحاش – قضاء البترون – لبنان الشمالي - لبنان

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