

## Vision

Our vision is to **Lead** and **Innovate** in drug delivery and advanced novel research disciplines. The role of drug delivery systems design in achieving optimum therapeutic outcomes is our goal.

## Mission

Our mission is to **Discover**, **Create**, **Lead** and **Collaborate**. We aim to foster interdisciplinary research within a positive collaborative environment in the areas of advanced drug delivery and nanotechnology offering solutions to problems of global significance.

## Key Research Areas

- Lipid, polymer and protein based drug delivery systems
- Nano-delivery systems
- Targeted drug delivery
- Parenteral, oral, ocular, topical and transdermal delivery
- Regenerative technology

## Drug Delivery Laboratory Department of Pharmaceutics Faculty of Pharmacy Alexandria University



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# DRUG DELIVERY LABORATORY

Department of Pharmaceutics

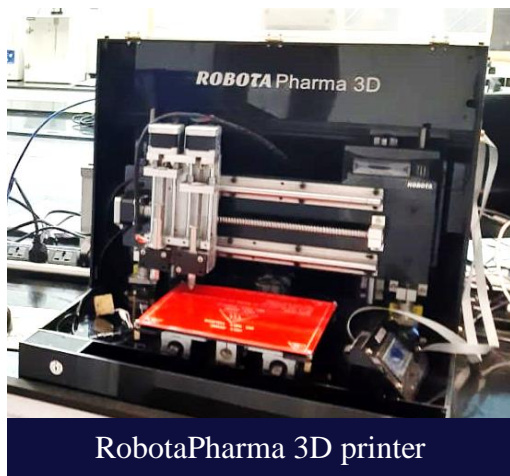
Faculty of Pharmacy



**The science of today is the  
technology of tomorrow.**

Edward Teller

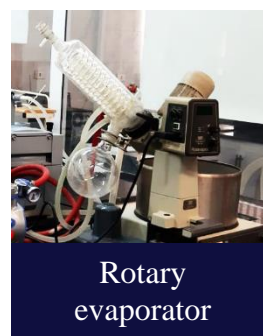
# RESEARCH FACILITIES AND LABORATORY EQUIPMENT



RobotaPharma 3D printer



Probe sonicator



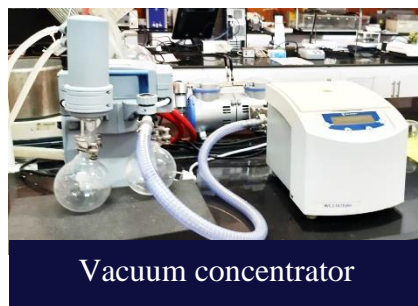
Rotary evaporator



Syringe pump



Sonicators



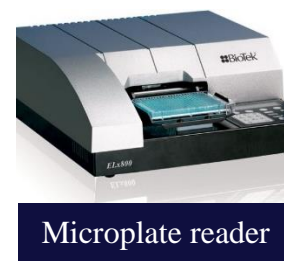
Vacuum concentrator



Texture analyzer



UV-spectrophotometers



Microplate reader

## QUANTITATIVE ANALYSIS



Sensitive balances



pH meters



Viscometer



High speed cooling centrifuge



HPLC-UV

2 devices

- Isocratic elution
- Gradient elution



Homogenizers



Single and multiple plate thermostated magnetic stirrers



Laminar flow hood



Autoclave

The lab is also equipped with:

- Water deionizer and distillator
- Laser printer (colors)
- Tablet machine
- Dissolution tester
- Hardness and friability tester
- Thermostated ovens
- Thermostated shaking water baths
- Animal Research Facility