



Government of Andhra Pradesh



The Biotech Hub of India  
[www.genomevalley.org](http://www.genomevalley.org)

# BIOTECHNOLOGY OPPORTUNITIES

in Andhra Pradesh





Government of Andhra Pradesh



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*“Government of Andhra Pradesh believes that Biotechnology has the potential to make a positive contribution to the life of the common man. The Biotech Industry has taken long strides in Andhra Pradesh. The Government fully supports the Biotech Industry”*

*Dr. Y.S. Rajasekhara Reddy*

*Chief Minister, Andhra Pradesh*



Government of Andhra Pradesh

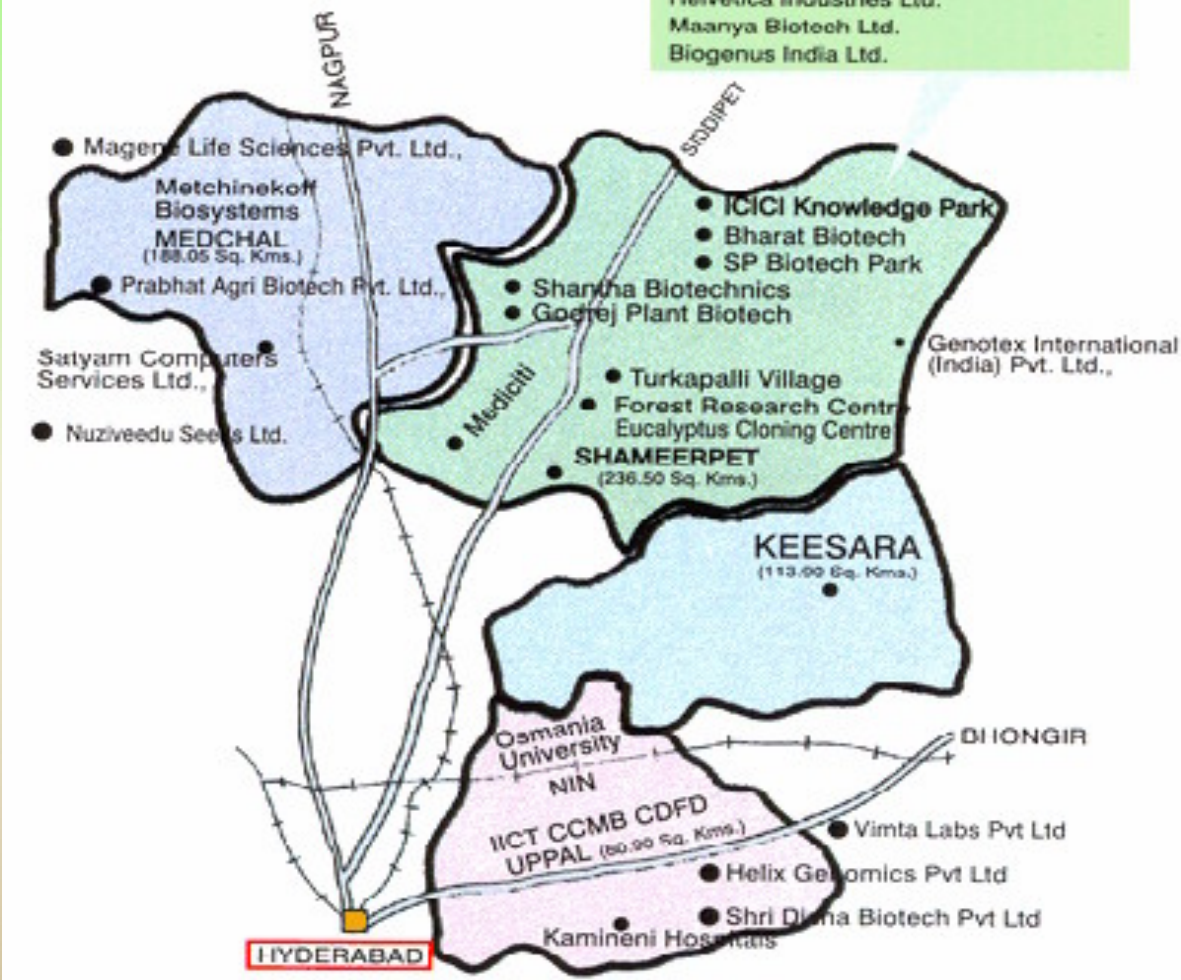


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# Genome Valley Hyderabad

(Total Area : 600 Sq.Kms.)

- Sai Dru Syn Laboratories I Ltd
- Bijam Biosciences Ltd.
- Medicorp Technologies India I Ltd
- Optiwave Photonics Ltd.
- Rinserva Biotechnologies Ltd.
- Indigene Pharmaceuticals Ltd.
- G V K Biopharma Ltd.
- Krebs Biochemicals Ltd.
- Indian Institute of Chemical Technology.
- Helvetica Industries Ltd.
- Maanya Biotech Ltd.
- Biogenus India Ltd.



# BIOTECHNOLOGY REVOLUTION IN ANDHRA PRADESH



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Government of Andhra Pradesh

- Andhra Pradesh is the first State to recognize the importance of Biotechnology in the all round development of the country's economy. It has given shape to India's first **Biotech Cluster-Genome Valley(GV)**, which is located near capital city of Hyderabad. It is India's first state - of - art biotech cluster.
- Genome Valley provides world-class infrastructure to over 100 biotech companies and occupies in an area of 600 sq.km, it comprises India's first Knowledge Park called **ICICI Knowledge Park** and India's first Bio - tech park called **Shapoorji Pallonji Biotech Park**.
- Genome valley in A.P has emerged as a natural cluster and location of choice for biotechnology research, training and manufacturing activities. It is also considered as "**Biotech Hub of India**".

# GENOME VALLEY BIOTECH INITIATIVES IN ANDHRA PRADESH



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S.NO	NAME OF THE PROJECT	COMMITMENT OF GOVT OF A.P
1	ICICI KNOWLEDGE PARK	200 Acres land assigned
2.	SHAPOORJI PALLONJI BIOTECH PARK PHASE-I	144 Acres of Land assigned
3	AGRI SCIENCE PARK (ICRISAT)	INR 3.00 Crores
4	APIDC VENTURE CAPITAL FUND	INR 15.00 Crores
5	INSTITUTE OF LIFE SCIENCES	INR .10.00 Crores
6	BIOTECH PARK PHASE -II	162 Acres of Land assigned
7	NATIONAL ANIMAL PARK (NIN)	100.00 Acres of Land assigned
8	LACONES (CCMB)	INR.1.50 CRORE
9	NATIONAL CENTER FOR TRANSLATION RESEARCH (CCMB)	150 Acres of Land assigned
10	SP BIOTECH PARK PHASE -III	Being developed by APIIC.

## BIOTECH R & D FUND IN ANDHRA PRADESH



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S.NO	HEAD OF ACCOUNT & SCHEME	2006-07 Rs. In Crores	2007-08 Rs. In Crores
1	<b>2852- Industries</b> <b>80-General</b> <b>MH 800– Other Expenditure</b> <b>GH-11– Normal State Plan</b> <b>SH (11) – Assistance to Research and Development</b> <b>310—Grants –in –aid</b> <b>312—Other Grants-in-aid</b>	<b>10.00</b>	<b>10.00</b>

# BIOTECH DEVELOPMENT FUND IN ANDHRA PRADESH



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S.NO	HEAD OF ACCOUNT & SCHEME	2006-07 Rs.In Crores	2007-08 Rs.In Crores
1	<p><b>2851– Village and Small Industries</b>  <b>MH 102– Small Scale Industries</b>  <b>GH –11– Normal State Plan</b>  <b>SH(54) – Setting up of</b>  <b>Biotechnology Park near</b>  <b>Hyderabad for Small Scale Units</b>  <b>under approach</b>  <b>310—Grants –in aid</b>  <b>312—Other grants –in—aid.</b></p>	4.86	11.50

## CONSOLIDATED BIOTECH INVESTMENT IN ANDHRA PRADESH FOR LAST 3 YEARS (2004-05 TO 2006-07)



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S.N O	NAME OF THE PROJECT	2004-05 Rs.In Crores	2005-06 Rs. In Crores	2006-07 Rs. In Crores
1	SP BIOTECH PARK PHASE-I	92.00	108.00	NIL
2.	SP BIOTECH PARK PHASE-II	41.00	184.00	45.00
3	ICICI KNOWLEDGE PARK	NIL	31.19	107.00
	<b>TOTAL</b>	<b>133.00</b>	<b>323.19</b>	<b>152.00</b>

## BIOTECH INVESTMENT & EMPLOYMENT COMPANY WISE DETAILS IN ANDHRA PRADESH FOR LAST 3 YEARS



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S. NO	NAME OF THE PROJECT IN PHASE-I OF SP BIOTECH PARK	2004-05 RS. In CRORES	2005-06 RS. In CRORES	2006-07 RS. In CRORES	Employees
1	Albany Molecular Research Hyd Research Centre	16.00	-	-	40
2.	Avesthagen Quality Agrl. Services Pvt.Ltd	30.00	-	-	100
3	Biogenex Life Sciences	15.00	-	-	45
4	Biomax Life Sciences Ltd.,	-	40.00	-	110
5	Biomax Life Sciences Ltd.,(R&D)	-	20.00	-	30
6	Dr. NRK Biotech Pvt.Ltd.	8.00	-	-	15
7	Indigen Biotech Pvt. Ltd., (Genox Technologies)	1.00	-	-	25
8	Issar Pharmaceuticals	-	8.00	-	50
9	Sami Labs	22.00	-	-	70
10	Tata Chemicals Ltd.,	-	40.00	-	100
	<b>Total</b>	<b>92.00</b>	<b>108.00</b>	<b>-</b>	<b>585</b>

## BIOTECH INVESTMENT & EMPLOYMENT COMPANY WISE DETAILS IN ANDHRA PRADESH FOR LAST 3 YEARS



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S. NO	NAME OF THE PROJECT IN PHASE –II OF SP BIOTECH PARK	2004-05 RS. In CRORES	2005-06 RS. In CRORES	2006-07 RS. In CRORES	Employees
1	Biological (E) Ltd.,	15.00	-	-	70
2.	Uni Sankyo Ltd.,	-	7.00	-	40
3	Hervotic Bio Remedies	-	10.00	-	40
4	Issar Biotech	-	20.00	-	60
5	Issar Zymogens & Neutraceuticals	-	15.00	-	40
6	Maanya Biotech Ltd.,	-	23.00	-	85
7	Samya Biotech (India) Ltd.,	-	10.00	-	70
8	Sandor Prodiomics	-	7.00	-	20
9	Unique Biotech Ltd.,	26.00	-	-	120
10	Activa Biotech Pvt.Ltd.,	-	8.00	-	40
11	Tropical Ecology	-	6.00	-	65
12	Shapoorji Hotels Pvt. Ltd.,	-	-	20.00	70
13	SP Kam Synthetic Pvt. Ltd.,	-	15.00	-	60
14	Kvafa Investments Pvt. Ltd.,	-	15.00	-	50
15	Tropical Ecology Pvt. Ltd.,	-	10.00	-	70
16	Pochiraju Industries	-	38.00	-	200
17	Incubation Centre	-	-	25.00	150
	<b>Total</b>	<b>41.00</b>	<b>184.00</b>	<b>45.00</b>	<b>1250</b>

## BIOTECH INVESTMENT & EMPLOYMENT COMPANY WISE DETAILS IN ANDHRA PRADESH FOR LAST 3 YEARS



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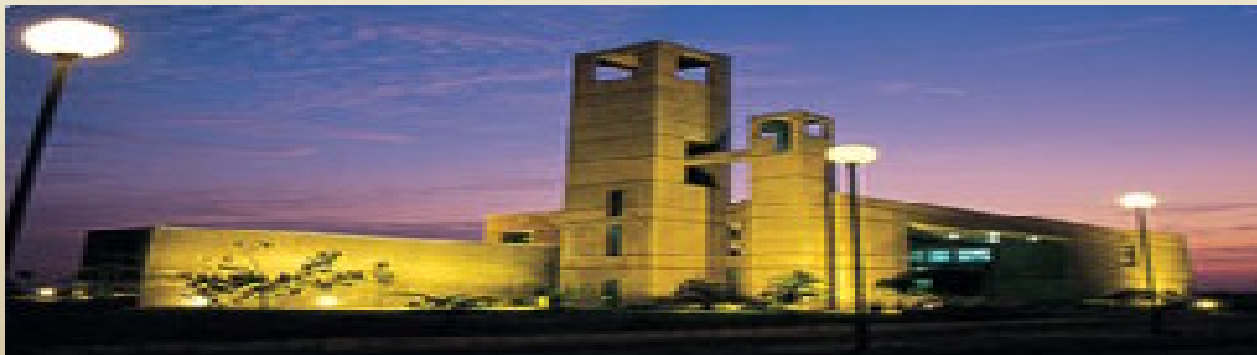
S. NO	NAME OF THE PROJECTS IN ICICI KNOWLEDGE PARK	2004-05 RS. In CRORES	2005-06 RS. In CRORES	2006-07 RS. In CRORES	Employees
1	Laurus Laboratories	-	22.00	-	-
2.	Albany Molecular Research Hyderabad Research Centre	-	-	7.00	20
3	Life Sciences Incubator	-	2.05	-	2
4	Mithros Chemicals Ltd.,	-	0.85	-	13
5	Nektar Therapeutics India Pvt Ltd.,	-	4.5	-	10
6	Unites States Pharmacopeia India (P) ltd.,	-	1.79	-	15
7	Dupont Knowledge Centre	-	-	100.00	200
	<b>Total</b>	<b>0.00</b>	<b>31.19</b>	<b>107.00</b>	<b>260</b>

## ICICI KNOWLEDGE PARK



The Biotech Hub of India  
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- A WORLD CLASS CENTRE FOR LEADING EDGE BUSINESS DRIVEN RESEARCH AND COUNTRY'S FIRST KNOWLEDGE PARK FOR COLLOBORATION BETWEEN RESEARCH COMMUNITY & INDUSTRY.
- IT HAS 200 ACRES OF CAMPUS WITH SPECIALIZED INFRASTRUCTURE AND SUPPORT FACILITIES REQUIRED FOR R&D LABORATORY (WET & DRY LABS).
- THIS PARK PROVIDE HASSLE FREE ENVIRONMENT THROUGH A RANGE OF BUSSINES AND ADMINISTRATIVE SUPPORT AND IS RECOGNIZED AS A SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION AND IS ENTITLED TO FULL CUSTOMS AND EXCISE DUTY WAIVERS.
- A LIFE SCIENCES INCUBATION CENTRE HAS BEEN SET UP AT THIS PARK WITH AN INVESTMENT OF INR 30 MILLION.
- IT HAS IPR & PATENT FACILITATING CELL.



## **SOME OF THE PIONEER COMPANIES OPERATING IN ICICI KNOWLEDGE PARK**

- **GVK BIOSCIENCES PVT.LTD.,**
- **ALBANY MOLECULAR RESEARCH INC.,  
HYDERABAD CENTRE.**
- **HELVETICA INDUSTRIES PVT.LTD.,**
- **MATRIX LABORATORIES LTD.**
- **NETKAR THERPEUTICEUTICS INDIA (P) LTD.**
- **UNITED STATES PHARMACOPEIA INDIA (P)LTD.**
- **LAURUS LABORATORIES.**
- **MEDIKON GALENICALS (P) LTD.**
- **BIO GENEX LIFESCIENCES .PVT .LTD.**
- **DUPONT KNOWLEDGE CENTRE.**



## ICICI KNOWLEDGE PARK-INVESTMENTS & EMPLOYMENT COMMITMENTS FOR LAST 3 YEARS

**INVESTMENT** • **Rs.138.19 CRORES**

**EMPLOYMENT** • **260 PEOPLE**

## SHAPOORJI PALLONJI (SP) BIOTECH PARK

- **SP BIOTECH PARK IS AN INR 1 BILLION PROJECT SPREAD OVER 400 ACRES IN THE VALLEY.**
- **IT PROVIDES STATE-OF-ART FACILITIES SUCH AS INSTRUMENTATION FACILITIES, INCINERATOR AND SECONDARY EFFLUENT TREATMENT PLANT ETC.**
- **AT PRESENT THERE ARE ABOUT 33 COMPANIES LOCATED IN THIS PARK IN TWO PHASES.**



## **SOME OF THE PIONEER UNITS IN PHASE –I & II OF SHAPOORJI PALLONJI(SP) BIOTECH PARK**

### **PHASE –I**

- **ALBANY MOLECULAR RESEARCH INC., HYDERABAD CENTRE.**
- **AVESTHANGEN QUALITY AGRICULTURE SERVICES PVT.LTD.,**
- **BIO GENEX LIFESCIENCES .PVT .LTD.**
- **BIOMAX LIFE SCIENCES LTD.**
- **GENOTEX INTERNATIONAL (INDIA) PVT. LTD.**
- **SAMI LABORATORIES.**
- **TATA CHEMICALS LTD.**
- **VIMTA LABS LTD.**

### **PHASE –II**

- **AKTIVA BIOTECH**
- **BIOLOGICAL (E) LTD.**
- **NOVARTIS GLOBAL LIFE SCIENCES R&D CENTER**

## SHAPOORJI PALLONJI(SP) BIOTECH PARK- INVESTMENTS & EMPLOYMENT COMMITMENTS FOR LAST 3 YEARS –PHASE I &II

**INVESTMENT** • Rs.470.00 CRORES

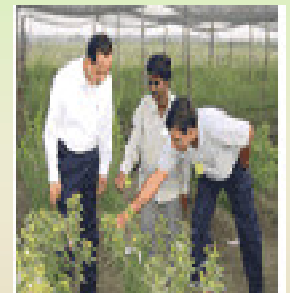
**EMPLOYMENT** • 1835 PEOPLE

## **SALIENT FEATURES IN APIIC GENOME VALLEY PHASE-III BIOTECH PARK**

- **APIIC GENOME VALLEY BIOTECH PARK PHASE III HAS BEEN INAGUARATED BY HON'BLE CHIEF MINISTER OF A.P DR. Y.S. RAJASHEKARA REDDY ON 9<sup>TH</sup> MAY 2006.**
- **IT IS SPREAD OVER 414 ACRES.**
- **SUITABLE FOR BIOTECH SEZ.**
- **NEAR SP BIOTECH PARK, ICICI KNOWLEDGE PARK AND PROPOSED ICMR ANIMAL RESOURCE CENTRE.**
- **SINGLE WINDOW CLEARANCE SYSTEM.**
- **BIOCON, AVSTHAGEN, GLOBION ARE SOME ANCHOR CLIENTS**

## AGRI- SCIENCE PARK (ASP)

- THE STATE GOVERNMENT HAS SET UP AN AGRISCIENCE PARK IN COLLABORATION WITH ICRISAT( INTERNATIONAL CROPS RESEARCH INSTITUTE FOR THE SEMI-ARID TROPICS) IN DECEMBER 2003 WITHIN THE PREMISES OF ICRISAT.
- ITS GOAL IS : MANDATE TO DEVELOP AGRICULTURE IN THE SAT , AND THEREBY REDUCE POVERTY AND HUNGER, AS WELL AS PROTECT THE ENVIRONMENT.
- THE MISSION IS TO BE THE “ HUB” FOR PUBLIC-PRIVATE PARTNERSHIPS THAT ENHANCES THE DEVELOPMENT AND COMMERCIALIZATION OF SCIENCE- GENERATED TECHNOLOGIES AND KNOWLEDGE THROUGH MARKET MECHANISMS TO ULTIMATELY BENEFIT THE POOREST OF THE POOR.





# Agri-Science Park @ ICRISAT

*Where agro businesses grow*

A convergence of biotechnology innovations, partnerships and products for the poor



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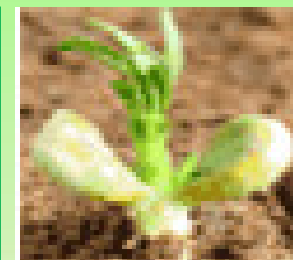


Government of Andhra Pradesh

## AGRI- SCIENCE PARK (ASP)- MISSION TO ACCOMPLISH THROUGH THE FOLLOWING COMPONENTS

- AGRI- BUSSINESS INCUBATOR (ABI).
- AG-BIOTECH INNOVATION CENTER (AIC).
- HYBRID PARENTS RESEARCH CONSORTIUM (HPRC).
- BIOPRODUCTS RESEARCH CONSORTIUM (BRC).
- SAT ECO-VENTURE.

(AT PRESENT THERE ARE 63 COMPANIES OPERATING IN  
AGRI-SCIENCE PARK- ASP)



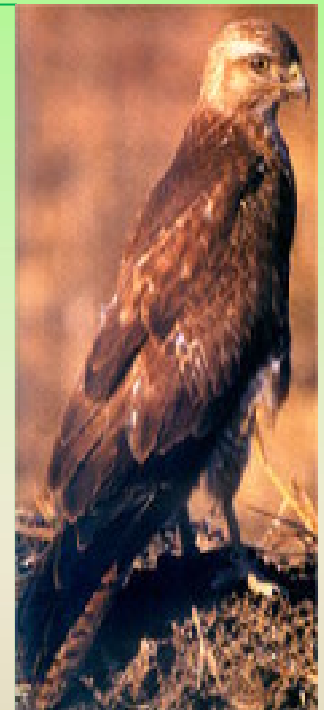
## AGRI- SCIENCE PARK (ASP)- FACILITIES

- Food Safety Laboratory; Genetic Transformation and Applied Genomics Laboratory; Bioinformatics and Computational Genomics Facility.
- Regular and P2 containment greenhouses and cold storage.
- Red, black, dry, or wet soil in precision trial fields with hi-tech irrigation equipment.
- World- class facilities for communication, computing, air-conditioned offices, dormitories, flatlets, transport, security and other recreational facilities.
- Meeting rooms and conference halls with audio-video connections.



## APDBT-CCMB- LABORATORY FOR THE CONSERVATION OF ENDANGERED SPECIES(LaCONES) AT HYDERABAD.

- **The LaCONES was formulated with the following objectives:-**
- Monitoring of genetic variation by modern techniques such as DNA fingerprinting ;
- Establishment of cell/gene resource bank;.
- Semen analysis;
- Determination of ovulation;
- Artificial insemination (AI);
- In vitro fertilization (IVF) and embryo transfer; and
- Cloning.



Zoos - "Strengthening  
the bond between  
people and the  
living earth"

## SUN-CENTRE OF EXCELLENCE AT HYDERABAD.

- **SUN Microsystems (SUN) is to establish its Centre of Excellence (COE) at Gandipet Complex of Centre for DNA Fingerprinting and Diagnostics(CDFD), Hyderabad focusing Medical Bioinformatics :-**
- It will serve as the knowledge base for the advance research activities and services offered on infectious as well genetically manifested diseases ;
- The activities will range from computational genomics, comparative genomics to population genetics, to biodiversity issues;
- It will also function as the national node of A.P. Bionet by which it can become the hub for educational and training programmes offered by the state.

## INSTITUTE OF LIFE SCIENCES (ILS)

- **Institute of Life Sciences(ILS) is premier research organisation founded through public-private partnership initiative with :**
  - **Government of Andhra Pradesh ( State Government)**
  - **University of Hyderabad ( A Central University)**
  - **Dr. Reddy's Laboratories Limited ( Private sector)**
- **Mission: ' find solutions to improve human health through the application of cutting-edge research in integrated disciplines of life sciences'.**



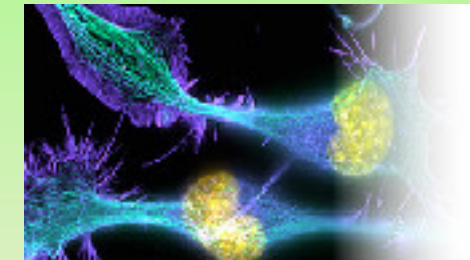
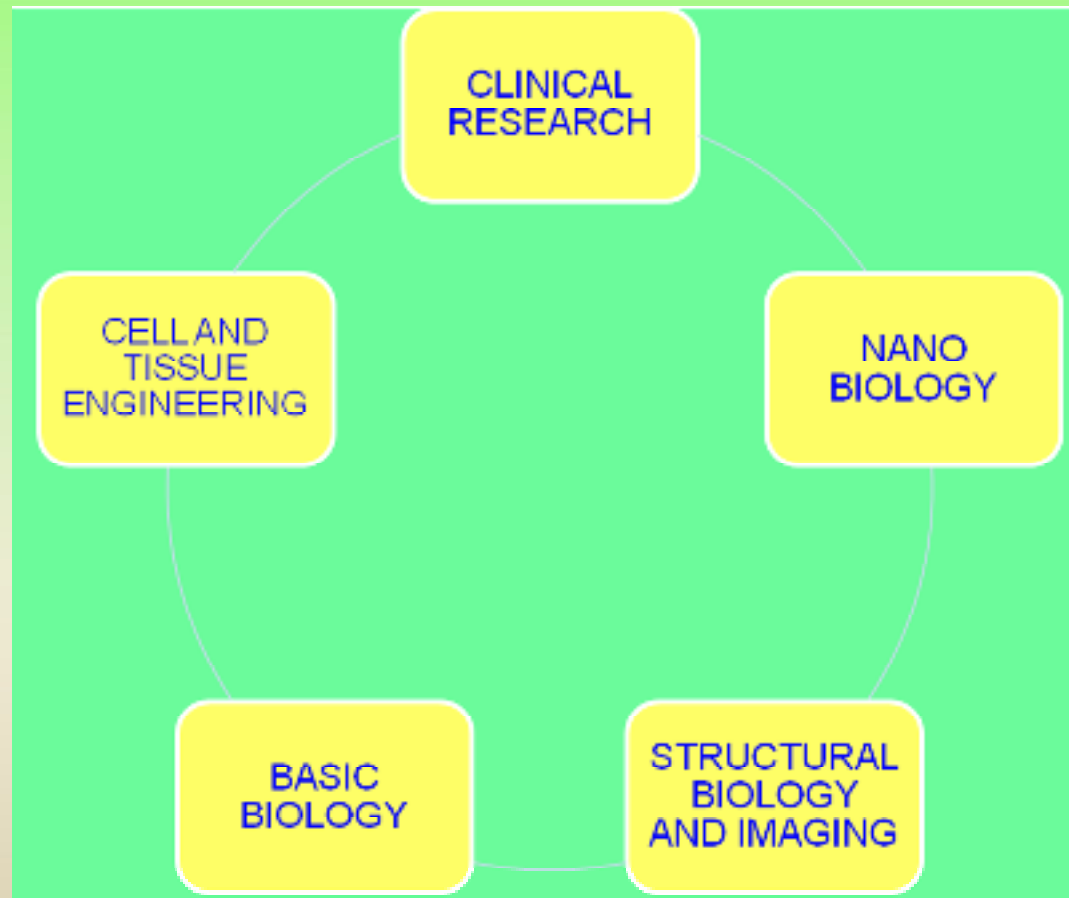
## INSTITUTE OF LIFE SCIENCES (ILS)- OBJECTIVES

- To understand molecular mechanisms of diseases
- To translate this knowledge into novel therapies
- To integrate chemical, biological and other applied sciences in pursuit of the mission
- To meet the growing scientific challenges of Life Sciences Industry through cutting edge research with emphasis on focus areas as follows:
  - ❖ Cancer
  - ❖ Infectious Diseases
  - ❖ Metabolic Disorders
  - ❖ Cardiovascular Diseases

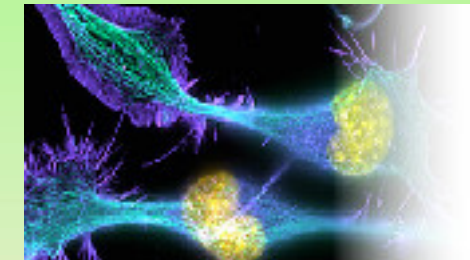
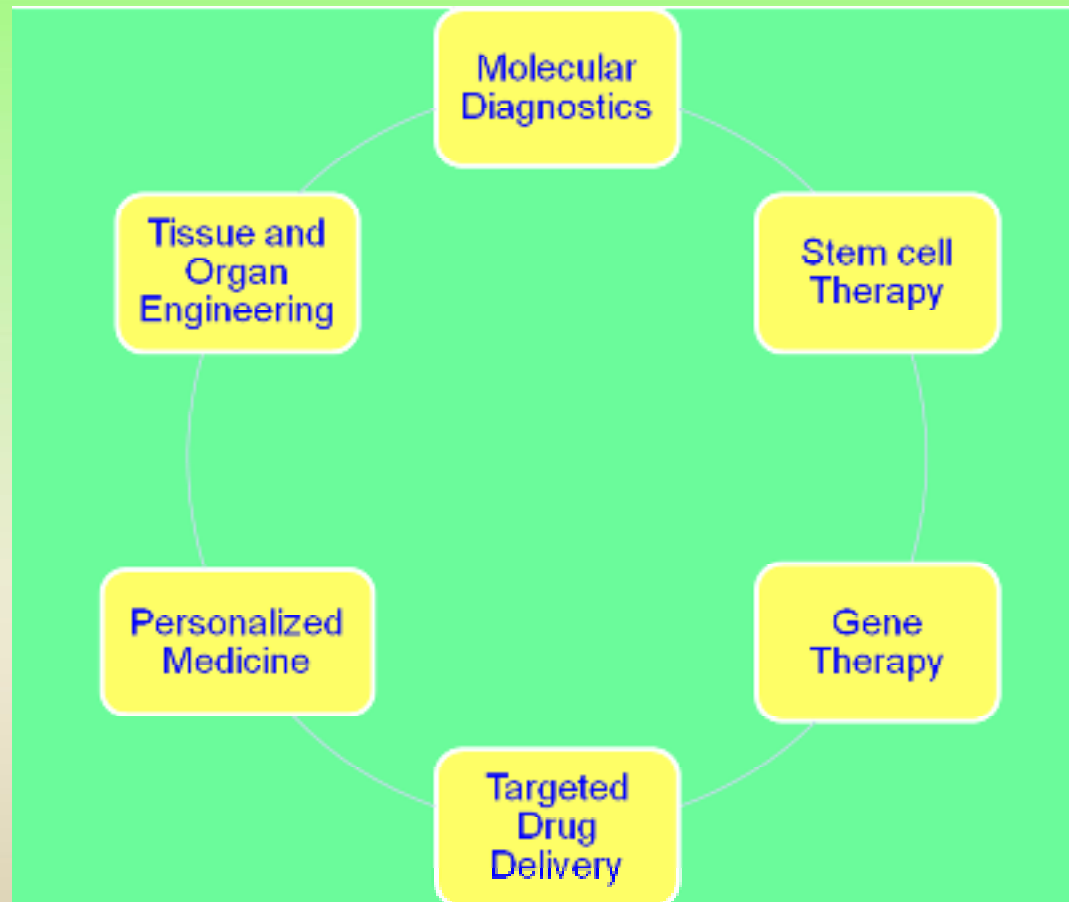
# INSTITUTE OF LIFE SCIENCES (ILS)- RESEARCH CENTER & INFRASTRUCTURE

- R & D Center is established on 20 acre site within the campus of University of Hyderabad, Gachibowli , Hyderabad.
- It is planned as a modular laboratory complex spread over a built-up area of 130,000 sft comprising state- of- art laboratories and facilities as follows:
  - ❖ 32 Research Labs and 12 Support Labs
  - ❖ Knowledge Centre and library
  - ❖ Auditorium & Meeting rooms
  - ❖ Animal House & Preclinical Biology Labs
  - ❖ Elaborate infrastructure, including an Executive Block and Engineering Maintenance, and IT Support, Cafeteria and Recreation Facilities.

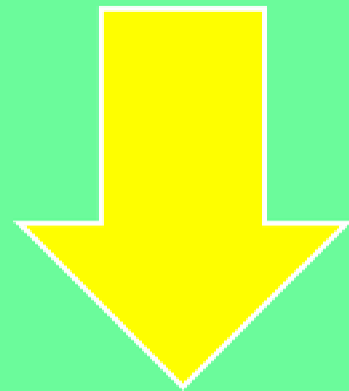
## THE INSTITUTE OF TRANSLATIONAL RESEARCH



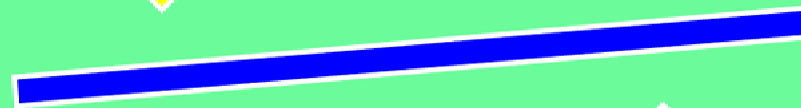
## THE INSTITUTE OF TRANSLATIONAL RESEARCH



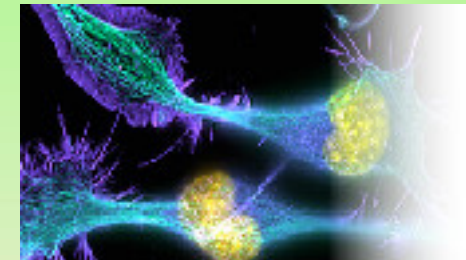
## THE INSTITUTE OF TRANSLATIONAL RESEARCH



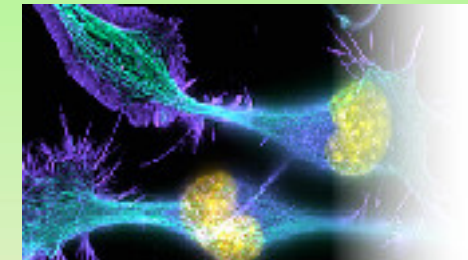
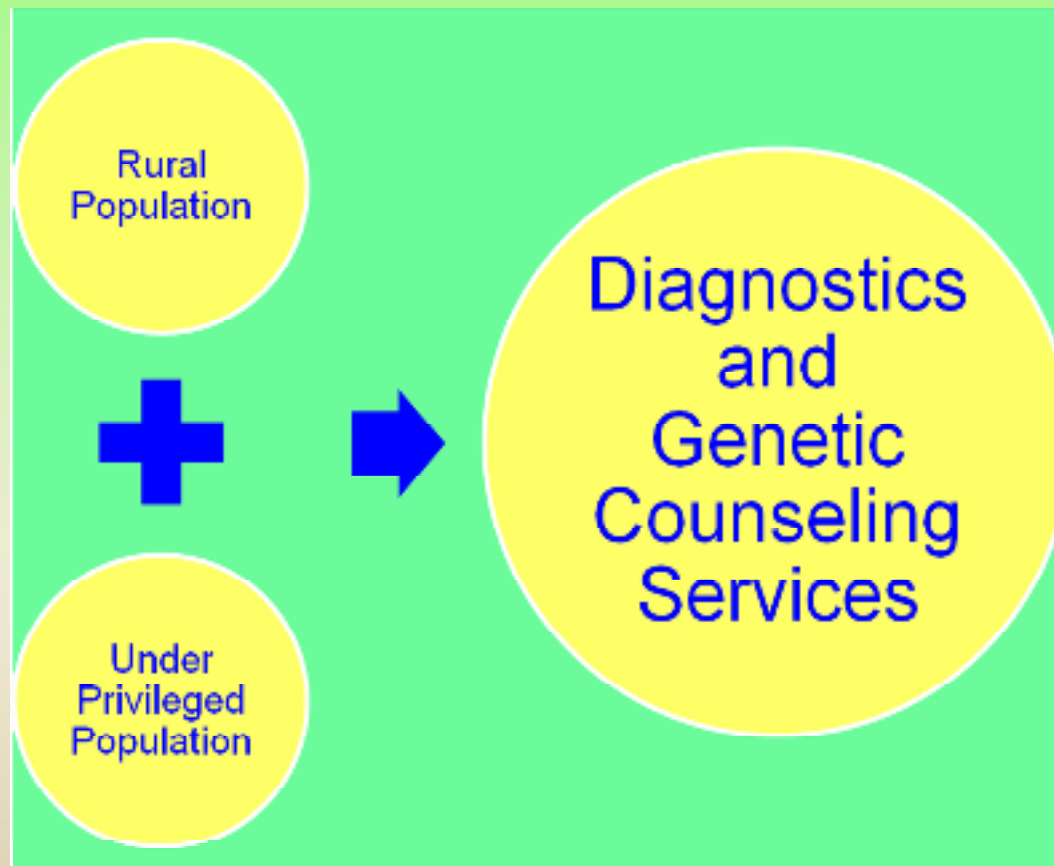
Prevention  
of Genetic  
Disorders



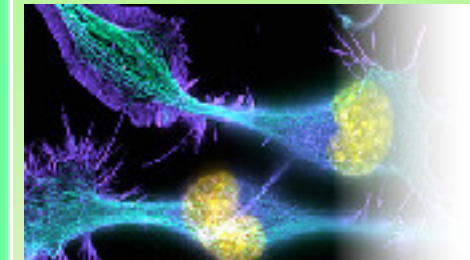
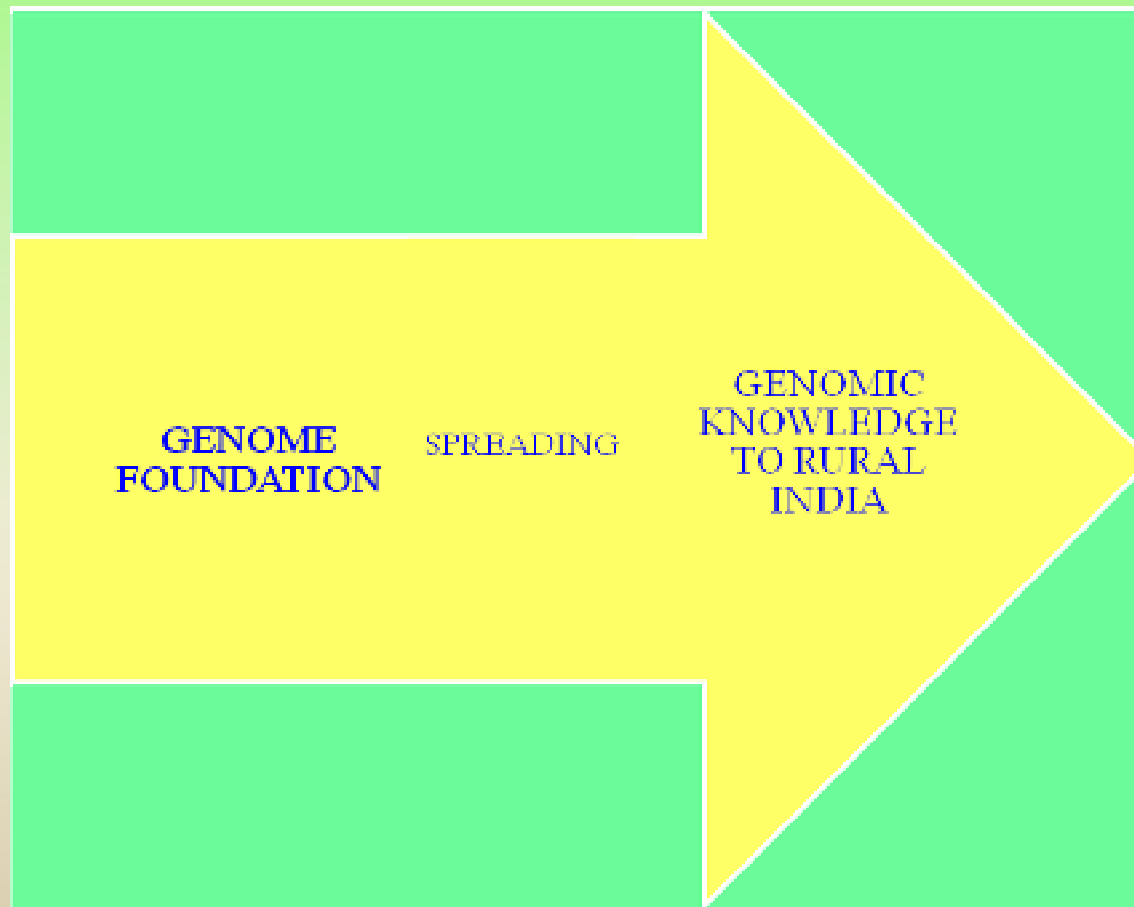
Improved  
Patient Care



## THE INSTITUTE OF TRANSLATIONAL RESEARCH



## THE INSTITUTE OF TRANSLATIONAL RESEARCH



## GOVERNMENT INITIATIVES IN BIOTECHNOLOGY

**The Government has also provided a number of benefits in order to promote the Biotech industry in the State.**

- Instant Customs Clearance.
- Plug and play facilities
- Access to R & D Fund
- Preferential allocation of Venture Funds through APIDC Venture Capital.
- Labour concession for units in the S.P. Biotech Park.
- Providing land at concessional rates to investors.
- Waiver of Stamp Duty and Registration Charges on Land/ Building transfer in the first instance, in the S.P. Biotech Park.

## GOVERNMENT INITIATIVES IN BIOTECHNOLOGY

### APIDC VENTURE CAPITAL BIOTECH FUND:

- The Andhra Pradesh Industrial Development Corporation (APIDC) Venture Capital Limited has launched India's first Biotech focused Venture Capital Fund, with a seed Capital of INR 50 millions from Government of Andhra Pradesh.

### AGRI-SCIENCE PARK:

- The State Government has set up an Agri-Science Park in collaboration with International Crops Research Institute for Semi- Arid Tropics (ICRISAT) in the ICRISAT campus.

### BIOTECH ADVISORY COMMITTEE

- In order to get novel and high end technology for commercialized by entrepreneurs in genome Valley an advisory Committee has been set up comprising of experts from various spheres in the field of biotechnology.

## BIOTECHNOLOGY INVESTMENT PROMOTION IN THE STATE



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**The Government has participated in international biotech and pharmaceutical conferences to network with potential investors and to promote Genome valley.**

- a) Participation in global biotech and Pharmaceutical conferences to network with potential investors in the life sciences sector.
- b) Through consistent promotion efforts of the state, it has attracted eight multinational companies to establish their facility in the state.
- c) The total investment in this sector is expected to be INR 15000 millions in next 5 years and expected to provide employment to about 10,000 people in the field.

## A.P BIOTECH – TOTAL INVESTMENTS & EMPLOYMENT COMMITMENTS IN NEXT 5 YEARS

**INVESTMENT**

• **INR. 15,000 MILLIONS**

**EMPLOYMENT**

• **TO 10,000 PEOPLE.**

## MAJOR COMMITTED INVESTMENTS IN PIPE LINE

S.No	NAME OF THE FIRM	INVESTMENTS (RUPEES IN CRORES)	MANPOWER
1.	DUPONT KNOWLEDGE CENTER in ICICI Knowledge Park	100-00	300 Scientists
2.	AVESTHAGEN in GENOME VALLEY , PHASE III Biotech Park	500-00	
3.	BIOCON in Jawaharlal Nehru Pharma City, Visa	1000-00	
4.	NOVARTIS R&D GLOBAL CENTER IN SP Biotech Park.	300-00	

## **MAJOR INITIATIVES BEING TAKEN BY THE GOVERNMENT OF ANDHRA PRADESH IN BIOTECH AS INVESTMENT DESTINATION.**

- 1. Preparation of Compendium of State Biotech Resource.**
- 2. Update Biotech Policy in line with National Policy.**
- 3. Dedicated Township for Genome Valley.**
- 4. International Animal Resource Facility.**
- 5. National Center for Translational Research**
- 6. Biotechnology Incubation Centre (BTIC) in SP Biotech Park.**
- 7. International Life Sciences Institute.**
- 8. 600 Acres of land for Biotech Park/ SEZ phase III in Genome Valley, karakapatla is being developed by APIIC.**
- 9. Developing Marine Biotech park in Vizag.**
- 10. Andhra Pradesh Department of Biotechnology(APDB) will facilitate overall development of the Biotechnology in the State.**
- 11. Bio-Asia- Global Forum - An annual International biotechnology conference hosted by A.P**
- 12. Establishment of State-of Art, “ Training for Clinical Trials”.**
- 13. Jawahar Lal Pharma city.**
- 14. Launch of Genome Valley News letter.**
- 15. Establishment of Laboratory for the Conservation of Endangered Species(LaCONES) at Hyderabad.**

## BIO ASIA-2007

The Government has been using the Bio-Asia events as a platform to recognize the outstanding efforts of distinguished scientists in the life sciences sector by awarding them with “Genome Valley Excellence” .

- a) Bio Asia 2007 witnessed 1600 delegates for its 3 day Conferences/Exhibition/Trade Show/ Business Forum.
- b) There were about 89 Foreign delegates from 33 countries have participated in this event.
- c) 50 Exhibitor stall were there on all 3 days.
- d) During the event there were about 50 B2B Bio Partnering meetings were co-ordinated with 22 Accords/MOUs signed.

# BIO ASIA-2007- MOUs & CONFERMENT OF AWARDS

## MOUS Signed for Research & Investment.

- ❖ Biocon
- ❖ John Hopkins University
- ❖ International Vaccine Institute.

## Conferment of Awards.

- ❖ **Prof. G. Padmanabhan** was conferred the prestigious '**Genome Valley Excellence Award**' for his contributions in the area of transcriptional regulation of malarial drug metabolizing genes in liver, mechanism of chloroquine action and its resistance in the parasite.
- ❖ "**Bio Asia Innovation Award**" was given to **CDFD Scientist** for L- Agrinine Production technology for which Merk KGA has shown interest for commercialisation



The Biotech Hub of India  
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THANK YOU

