



**SPMVV-Women Biotech Incubation Facility (SPMVV-WBIF),  
SPMVV Society for Innovation, Incubation, Entrepreneurship (SSIIE).**

**Sponsored by DBT, BIRAC, New Delhi, Govt. Of. India**

- **Name of the HI/organisation** : Sri Padmavati Mahila Visvavidyalayam, Tirupati
- **Total space Established** : 5000 Sq.ft
- **Facilities available at WBIF:**

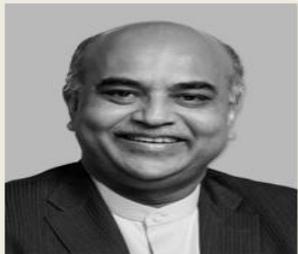
<b>Facilities Available</b>	<b>Equipment Available</b>
7 cubicles for start-ups/incubatees,	GC-MS (Schimadzu)
Common incubation space for Students /trainees	Microvolume Spectrophotometer (Eppendorf)
Common Instrumentation Labs 2	Preparative HPLC (Schimadzu)
GC-MS lab,	Inverted Microscope with Cell Imager
Cell Culture room,	Flash Evaporator (Heidolph)
Clean water supply room,	Vacuum Evaporator/ Concentrator (Eppendorf)
Seminar hall (40 Seater),	Plate Reader (Bio-Rad)
Meeting room (10 Seater)	Milli Q water system (Bio-Age)
Cafeteria	Laminar Air Flow Chamber (Hi-Tech)
Discard room	Incubator and Shaker (Orbitek)
	Refrigerators (Elan Pro)
	Fuming Cupboard (Technico)
	Autoclave (Hi-Tech-Temp)



**Instrumentation Lab-I**



## Advisory Committee Members:



**Dr Shirshendu Mukherjee**



**Prof. P. Reddanna**



**Dr. D. Yogeswararao**



**Sri. Muthu Singaram**



**Dr. Mrutyunjay Suar**



**Mrs. Padma Chandrasekharan**



**Dr. P. Krishna Prasanthi**

## Internal Committee/Man Power of WBIF:

Chief Executive Officer	1
Scientific Officer	1
Technical/Research assistant	2
Computer Operator	1
Office Subordinate	1
House keeping 1	1

## Internal Committee members:



## Focus Areas:

Food & Agricultural Biotechnology  
Animal / Aquaculture Biotechnology  
Applied and Industrial Microbiology  
Environmental and Waste Management  
Seri Biotechnology  
Bioinformatics  
Nutraceuticals / Value-added products  
Healthcare Products

**Mission:** Nurture and Promote bio-entrepreneurship of Start-Ups among students, faculty and Rural women in Life Sciences, Biotechnology, Healthcare and Allied Areas.

**Vision:** Incubate and support entrepreneurs convert their innovative ideas into scalable R&D, Technologies and Products of life sciences.

## Objectives

- To organize training programs in entrepreneurship development.
- To impart training on the use of sophisticated equipment and improve their skills for better employment opportunities.
- To assist the entrepreneurs in developing business plans and raising funds.
- To nurture innovative ideas emerging from the students and young researchers and channelize them towards entrepreneurship.
- To encourage entrepreneurship among the students, faculty and rural women in the area of life sciences, healthcare, nutraceuticals, food biotechnology, value addition to products and allied areas.

## Collaborations:

	<b>Healthcare Technology Innovation Centre</b> Chennai		<b>Veterinary Incubation Foundation, TANUVAS</b> Chennai
	<b>IITM Bioincubator</b> Chennai		<b>VIT – Technology Business Incubator</b> Vellore
	<b>ALBEST, Shastra Campus</b> Thanjavur		<b>Women's Biotech Park</b> Chengalpattu
	<b>Crescent Innovation Incubation Council</b> Chennai		<b>S.V. Veterinary University</b> Tirupati
	<b>BioNEST Bioincubation Centre</b> Coimbatore		<b>Acharya N.G. Ranga Agricultural University</b> Tirupati
	<b>BioNEST Incubator - SRIHER</b> Chennai		<b>ASPIRE BioNEST</b> Hyderabad

## Incubatees Supported:

Name of the Incubatee	Title/Description of Technology Product	Stage of the Product/Tech nology	IP filed/ Generated	Team
<b>PHILEMON LIFE PVT Ltd, Bangalore</b>	<b>Production of Nutraceuticals for poultry, Aqua &amp; Humans</b>	---	-----	2
<b>CSL BIOTECH Tirupati.</b>	<b>Production of Enzymes and Probiotics for Aqua culture</b>	---	----	2
<b>LMT Farms, Sorakayapalem</b>	<b>Production of Biogas litter from poultry</b>	---	-----	2
<b>Armor shield Healthcare Innovations, Chennai</b>	<b>Plant based Nano-particles with Anti-viral &amp; Anti-bacterial activity</b>	<b>Nanoparticle stability-tested</b>	<b>Provisional registration done</b>	8

		on silk threads (TRL Stage 4)	ref. /ind/pat/spec /filedreceipt dt.17.09.21	
Sri Dharani Agrotech Pvt Ltd, Tirupati	Wealth from Poultry Waste	Scaling up stage (TRL 8)	1 Granted 2022 1 Published (2021)	3
Arran Scientific, Madanapalle	Cancer Diagnostics	Stage-1 R&D	Under Process	3
Dr. A. Surya Narayana, Tirupati	Recycling of Agriculture waste	Stage-1 R&D	---	1
Jama Botanics Pvt. Ltd.	Condensed Essential Oils from Spices	TRL stage 4	Under Preparation	6
Sai Ganga Panakeia Pvt Ltd	Ayurveda therapeutic products for complex diseases	Initiated the R&D	-	5
Jagruti Natural Foods	Millet based foods for Obesity and diabetes, malnutrition	TRL Stage 3	-	2
Dr A. Pushpa, Tirupati.	Ayurveda pain relief oils	Yet to incubate	-	-
Bannari Amman Institue of Technology, Chennai.	Zero plastic biodegradable Sanitary napkins	Yet to incubate	-	-
BR Medical Research, Hyderabad.	Cost effective- Millet based diabetic friendly meal (Rs.150/Day)	Yet to incubate	-	-
Surabhi Rural Women Welfare association, Bakarapet.	Custom-made soaps from waste flowers and Medicinal Leaves from tirumala Hills	Yet to incubate	-	-
Bhuvaneswari-Student 1	Zinc Nanoparticlessynthesis from Solanum nigrum		-	-
Pavani-Student -2	Expression and purification of DPV recombinant Protein			

### Some of products/technologies developed:

- Antibacterial/Antiviral Nanoparticles developed from Moringa Leaves which works as effective surface disinfectant, currently undergoing testing on Textiles with the support from Karnataka Silk board.
- Bio fertilizer production from Poultry feather; producing Keratinase enzyme using feather waste as substrate, large scale production of Keratinase is ongoing, once achieved, it will be first indigenous Keratinase production facility.

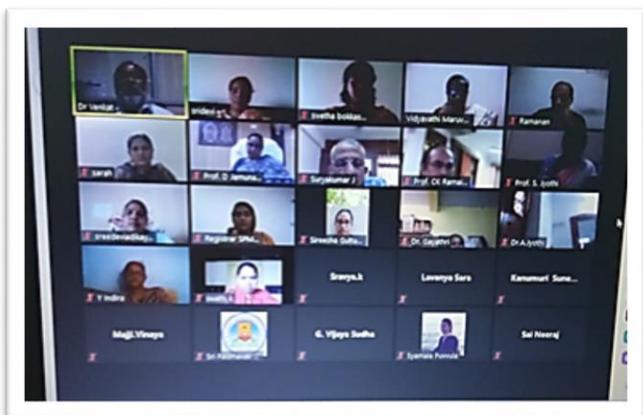
- Non-Toxic playdough developed using all edible items and supplied 42 tonnes so far to the market.
- Doqture a MedTech device is in the regulatory approval stage, it is first of its kind developed using Ayurveda (vata, Kapha, Pitta) knowledge.

### **No. of events conducted:**

31 Nos (over 50,000 people from various groups such as students, general public etc)

Awareness Programs/Idea Screening Events

- ▲ BIO & TECH Hackathon 2020 (26 – 27<sup>th</sup> Feb 2020) – 52 Ideas
- ▲ Virtual Hackathon on COVID-19 (15-16<sup>th</sup> May, 2020) – 47 Ideas



**Virtual Hackathon on "COVID -19 & LOCKDOWN IMPLICATIONS"**

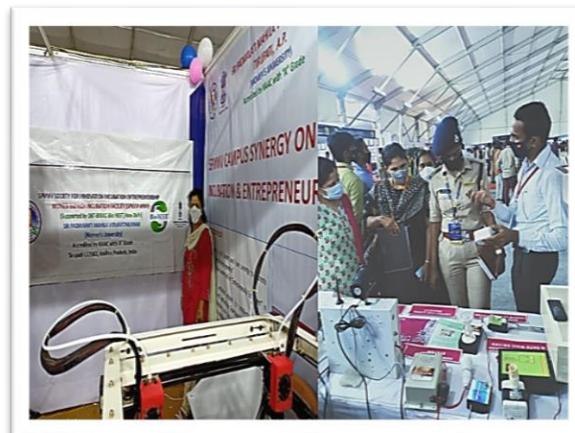


**Interactive session on BIRAC Outreach Program on Entrepreneurial Funding**

- ▲ Webinar on Innovation & Technology Readiness (3<sup>rd</sup> Oct 2020)
- ▲ Innovation, Start up Policy & Grant proposal writing (17<sup>th</sup> Oct 2020)
- ▲ Webinar on IPR in Innovation & Entrepreneurship in collaboration with IIC, IQAC &TBI (7<sup>th</sup> Nov, 2020)
- ▲ Interactive session on BIRAC Outreach Program on Entrepreneurial Funding (5<sup>th</sup> Dec 2020)
- ▲ Awareness about SPMVV-WBIF in IGNITE-2021 programme held by A.P. Police Academy (4 -7<sup>th</sup> Jan 2021)

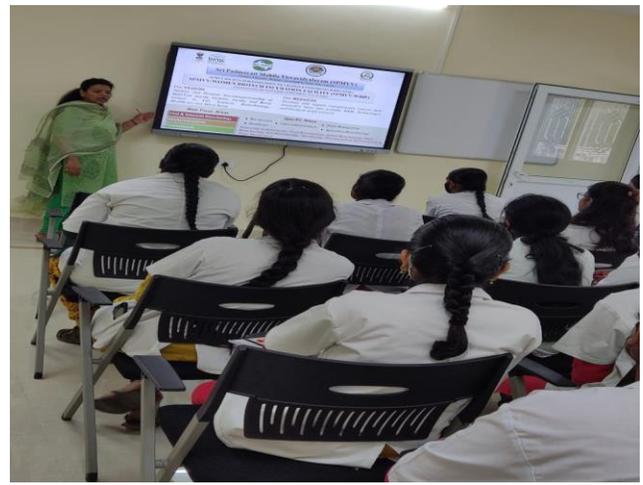


**BIO & TECH HACKATHON 2020**



**IGNITE-2021**

- ▲ Online Training programs on HPLC & GC-MS (6-9<sup>th</sup>, Jan 21)
- ▲ Implications of COVID-19 (May-July 2021)- 7 Series
- ▲ Global Bio-India 2021, Road show by Dr. A. Ramkrishan Deputy drug controller, CDSCO, East Zone, 1000 Kolkata, Ministry of health & Family welfare Govt of India (26<sup>th</sup> February, 2021)
- ▲ MED TECH & BIO TECH Virtual-a-thon” in Association with HTITC, IIT, Chennai (2<sup>nd</sup> – 4<sup>th</sup> July, 2021)
- ▲ “Accelerated Pre-Incubation Program (API)” for women in Association with HTITC, IIT, Chennai (12<sup>th</sup> Sep, 2021)
- ▲ HTIC Medtech Incubator as an Associate BIG Partner & SPMVV- WBIF jointly organising a virtual “BIG Awareness Session (Sep 2021)
- ▲ IITM HTIC Medtech Incubator and SPMVV-WBIF is jointly organizing a virtual SPARSH Awareness Session (Sep 2021)
- ▲ SSIIE-TBI and SPMVV-WBIF ( are jointly organizing a virtual SPARSH Scheme Awareness Session. 24<sup>th</sup> Sep (Friday), 2021 100 23 Moonshort junior-S2 Tech USA (August to 30<sup>th</sup> October 2021)
- ▲ Student awareness programme on overview of the facilities available and the incubation process at SPMVV-WBIF (Dec, 2021)



Student awareness programmes at SPMVV-WBIF

**Interactive Sessions with Eminent invitees:**

From Aspire BioNEST (UoH), A.P.S. Sericulture R&D Institute, DMPK at Bugworks Inc, DSIR-PRISM, IIIT-SriCity, IIT, IISER, Reddy’s Labs, Delta Bio Pharma etc.,



**Dr. Ramanuj Benerjee**  
PRISM & RDI, DSIR, Member Secretary, Ministry of Science & Technology, New Delhi



**Dr. P. Jagannatha Raju**  
Director, Andhra Pradesh State Sericulture Research & Development Institute (APSSRDI), Hindupur



**Dr. Kannibaran**  
Director-IIIT at SriCity Chittoor  
Andhra Pradesh



**Dr. Harish Kaushik. K**  
Director-DMPK at Bugworks Research Inc., Bengaluru, Karnataka

## Intra-Inter-Institutional collaboration expanded:

Campus Synergy; MoUs with Aspire UoH, IISER Tirupati; NGO organizations – WINS & Surabhi Rural Women Farmers producers mutually aided Co-operative Society Ltd.



**Dr. D. Yogeswara Rao**  
Director, ASPIRE-BioNEST  
University of Hyderabad, Hyderabad  
Former Adviser, Office of the Principal  
Scientific Adviser to GOI

## Future and Current activities at WBIF:

### ❖ 4 Track Training programmes

- I. Track-I: Intense Hands on Training programme in Bioinformatics
- II. Track-II: Intense Hands on Training programme on HPLC and GC
- III. Track-III: Hands-on training in making value added products from medicinal plant to the Rural Women
- IV. Track-IV: Hands-on training in Animal Cell Culture

- ❖ Pre incubation/awareness creation of the WBIF facility to SPMVV students/faculty as well as students/faculty from the Institutes around Tirupati such as SV Medical college, SPW college, SV arts College etc.

D. Sankar  
19/07/2022

M. Nidya  
19/7/2022

Project Investigator  
SSIIE-WBIF-BioNEST  
Sri Padmavati Mahila Visvavidyalayam  
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