



**Narayana Translational Research Centre**

**Inauguration of Incubation Centre**

*on March 6, 2021*

by



**Dr. T. V. Aditya Chowdary,**

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**Surgical gastroenterologist, Gleneagles Global Hospital, Hyderabad**

**&**

**Representative of Bharat Biotech International Ltd., India.**

## Program Schedule

<b>10.00 AM</b>	<b>Received Guest at Medical College</b>
	<b>High-Tea meeting with administrators and academicians in Board Room</b>
<b>10.30 AM</b>	<b>Visit to Narayana Translation Research Centre (NTRC)</b>
<b>10.35 AM</b>	<b>Unveiling of Plaque Curtains of the Incubation Centre</b>
<b>10.40 AM</b>	<b>Lamp Lighting and Inauguration of Incubation Centre</b>
<b>10.45 AM</b>	<b>NTRC Facility Tour by Dr. Sivakumar Vijayaraghavalu, Professor and Head of NTRC</b> <b>Mr. Vasanth Kumar, Assistant Professor, NTRC</b>
<b>11.00 AM</b>	<b>Welcome Speech by Dean, NMC; Venue - Anatomy Demo 1</b>
<b>11.15 AM</b>	<b>Inaugural Speech by Dr T V Aditya</b>
<b>11.25 AM</b>	<b>Introduction of IIC members in brief.</b>
<b>11.30 AM</b>	<b>Presentation by Praneeth Koner, CEO, Pocket Kare, house surgeon</b> <b>Potential incubatee</b>
<b>11.45 AM</b>	<b>Research Presentation by Dr. Pasupuleti Sreenivasa Rao, Professor, Biochemistry, NMC.</b>

## Welcoming the Chief Guest Dr. T. V. Aditya Chowdary at the Medical College Entrance



Our guest – Dr. T V Aditya was received at the college portico both by our respected Academic co-ordinator - Dr. S Vijayakumar and Respected Medical College Dean – Dr. SP Rao; other faculties including Dr. Sivakumar Vijayaraghavalu, HOD, NTRC and Mr. Sandesh, Administrative officer also joined to invite him to the board room in the Medical College.



## Presentation about the Institute by Dr. SP Rao, Dean, Medical College



Our Dean Dr. SP Rao, gave a brief presentation about the institute and its accomplishments, high-tea was served and then all the members in the board room including the heads of all the paramedical colleges visited the NTRC to Inaugurate the incubation center. There HOD of NTRC welcomed all as follows -

Good Morning and greetings to our guest Dr. T. V. Aditya Chowdary, and all the distinguished faculties and students present here for unveiling of the plaque. With immense pleasure, I welcome you all on behalf of our institution, our academic coordinator Dr. S. Vijayakumar, who was instrumental in opening up of the incubation center and on behalf of our respected dean Dr. SP Rao; for this unveiling of plaque curtains and requested the guest – Dr. TV Aditya to unveil. After that; a group photo was taken in front of the name board. Then, HOD – NTRC stated the vision and mission of the translational research and incubation center –

## VISION

- To evolve as an International Centre of Excellence in Translational Research and Promote Invention, Innovation and Entrepreneurship.

## MISSION

- To Train, counsel, guide and mentor the students and faculties in performing innovative translational research and setting up of the enterprise.
- To facilitate the scientific interactions between different Departments of Medicine and its allied faculties to generate novel ideas.
- To provide infrastructure and state-of-art technology to test the hypothesis that could result in an invention.
- To encourage innovative collaborative basic research to benefit the community and enabling the industry to produce cost effective equipment and drugs.
- To be a center of excellence that fosters synergy between the academia and the industry that fuels entrepreneurial spirit and inculcates research bent of mind among students to help them to be self -reliant and contribute to the nation building.
- To nurture technology and knowledge based ventures through their start-up phase by providing the necessary support and promote entrepreneurship.
- To help medical researchers to obtain intra- and extra-mural research grants to carry out their research and publish the outcome in high impact scientific journals and patent their findings.

Then briefed about the incubation center –

As a part of Narayana Educational Society commitment towards carving Innovation Ecosystem, an incubation center under the title “Narayana Translation Research and Incubation Centre” (NTIC) has been established. The institution has created an ecosystem for innovation including incubation center and other initiatives for creation and transfer of knowledge. The faculty members and students are empowered to take up research activities in contemporary areas

utilizing the existing facilities. The college has a Research-Development and Sustenance Committee; and Ethical Committee to monitor and address the issues of research and development. Narayana Medical College - incubation center enable its teaching staff and students get firsthand experience in promoting innovation driven activities at the institute and provides comprehensive and integrated range of support including space, mentoring, training programs, networking and an array of other benefits. Through the incubation center, the staff and students gain hands-on experience in innovation while being nurtured and encouraged by faculty, management and industry experts. The Institute aims to be the hub of innovative and high impact ventures in the field of medicine and it provides conducive environment for research-and-technology-driven innovations. Then HOD-NTRC listed the members in the incubator management team, mentors list and the resources available to the guest and other distinguished faculties present at that moment.

#### **INCUBATOR MANAGEMENT TEAM**

- 1. Dr. S. Vijayakumar, Academic Co-ordinator, Narayana Medical College (NMC)**
- 2. Dr. S. P. Rao, Dean, NMC**
- 3. Dr. Y. V. Prabakar, Medical Administrator, NMC**
- 4. Mr. Suresh, Chief Finance Officer, NMC**
- 5. Dr. Sivakumar Vijayaraghavalu, HOD, NTIC**
- 6. Mr. Vasanth Kumar, Assistant Prof., NTIC**
- 7. Dr. Kannan, Prof. & Head, Dept. of Oral Medicine & Radiology, Narayana Dental College**
- 8. Dr. Harinadh Babu, Prinipal, Narayana College of Pharmacy**
- 9. Mrs. K. Kantha, Head, Dept. of Nursing Research, Narayana Nursing College**
- 10. Dr. K. Suneel Kumar, Professor, Narayana College of Physiotherapy**

## **INNOVATION MENTORS**

- 1. Dr. SP Rao, Dean, Narayana Medical College**
- 2. Dr. Sivakumar Vijayaraghavalu, HOD, NTIC**
- 3. Dr. Kannan, Prof. & Head, Dept. of Oral Medicine & Radiology, Narayana Dental College**
- 4. Dr. Ramalingam K, Narayana Medical College**
- 5. Dr. Ajay, Principal, Narayana Dental College**
- 6. Dr. Tirupati, Principal, Narayana College of Physiotherapy**
- 7. Dr. Indira, Dean, Narayana Nursing College**

## **RESOURCES AVAILABLE FOR INCUBATEES**

- Office space**
- IT Infrastructure and Support – Desktop computers, operating-software, LAN, wi-fi, printer, scanner, copier, Access control system**
- Archival storage space for Clinical Research Organizations and other incubatees**
- Well -equipped research laboratory**
- Data storage in the incubation center server**
- Refrigerators and deep freezers (-20 deg C and -80 deg C) for sample storage**
- Internet, telephone, electricity**
- Services – general maintenance includes electricity and plumbing; parking and security**
- Furnishing – chairs, tables, cubicles**
- Others – board rooms, meeting rooms and co-working space.**

## EQUIPMENT LIST

S.no	Name of the Instrument	Model /Make
1	Flow Cytometer	BD FACSCanto II
2	UHPLC	Thermo Scientific Ultimate 3000
3	Atomic Absorption Spectroscopy	Shimadzu
3	Inverted Fluorescence Microscope	Olympus U- LH100HG
4	RT-PCR	Bio-Rad; CFX 96
4	Deep Freezers (-20 deg. C & -80 deg. C )	LG & Terumo penpol DF80U 300L;
5	Laminar Airflow Type II A and CO <sub>2</sub> Incubators	Thermo Fisher
6	Gel Documentation Unit	G-Box
7	UV Spectrophotometer	Systronics
8	Nanodrop	Thermo Fisher 2000
9	Microbiology Hood and Incubator	Hitech; Technico
10	Hot Air Oven	Yarko
11	Gel Dryer	Thermocon
12	Trans-illuminator	Lark LIUVT312
13	Flame Photometer	Systronics 129
14	Autoclave	Equitron
15	Muffle Furnace	BTI Biotech



<b>16</b>	<b>Humalyzer</b>	<b>Human 300</b>
<b>17</b>	<b>Densitometer</b>	<b>Systronics</b>
<b>18</b>	<b>Precision Balances</b>	<b>Systronics</b>

**He also briefed about the research center to guest and dignitaries as follows -**

NTRC (recognized by DSIR, Govt. of India) - is an advanced center established with a view to be at par with international standards in both pre-clinical and clinical research. The infrastructure of the facility is of world class with a built in area of 16,000 Sq. Ft. which includes – Clinical Research Division with dedicated rooms such as patient -waiting room, -examination room, archival room, investigational product storage room with refrigerators and deep freezers in it. A central Laboratory exists with state of art instruments as tabulated above. In an area of about 5,000 sq.ft; four Biosafety level II clean rooms exists with laminar air flow type II- A in each room to carry out Stem Cell, Molecular biology and Genetic studies. Outcome of various research activities carried out in this center were published in both national and international reputed journals. In the past five years (2015-2020) almost thousand research articles were published; faculties of our institution attended almost 1500 conferences; in this Covid-19 pandemic – we published five Indian patents, one of the notable patents patent filed for a study entitled - novel nano-magnesium and Pyridoxal 5'-Phosphate enriched supplement to Safely Combat Attention Deficit Hyperactivity Disorder in Children was by our Academic Coordinator, Dr. S. Vijayakumar, he stands upfront and leads the institution in the path of invention and innovation. We are also tirelessly working on solutions to address the Covid-19 pandemic. In this view we collaborated with Indian Institute of Technology Madras (IITM) and tested the efficacy and safety of indomethacin, a well-known non-steroidal anti-inflammatory, low-cost drug against Covid-19 patients. The drug along with standard care was shown to provide faster symptomatic relief. The study outcome was published in medRxiv and received greater attention among medical professionals. We also have an ongoing research project funded by Ministry of Ayush on Covid-

19. Additionally, our clinical research division is handling three different company sponsored projects. Our dean – Dr. SP Rao, promotes the inculcation of research bent of mind among students and encourages the faculties and students to conduct the innovative research in the field of medicine; with this brief introduction about the center, the NTRC-HOD requested the guest – Dr. T. V. Aditya and our dean Dr. SP Rao to light the traditional Indian lamp and inaugurate the center. Post this ceremony, the guest and the dignitaries came for the inauguration toured the facility guided by NTRC – HOD and Vasanth Kumar, Assistant Professor, NTRC. The guest and dignitaries were much impressed with the available research infrastructure. After the lamp-lighting ceremony, a group photo was taken in the NTIC. Then rest of the program was held at Anatomy demonstration room 1.

NTRC – HOD acted as the moderator for rest of the program and he invited our dean - Dr. SP Rao to give a welcome speech.

Welcome address of the dean is as follows –

I, Dr. SP Rao, Dean of Narayana Medical College, welcome you all with an immense pleasure to the Inauguration of Incubation Centre in Narayana Translational Research Centre and hence forth the center will be called as Narayana Translational Research and Incubation Centre (NTIC). Today - our guest of honor Dr. T. V. Aditya Chowdary, MBBS, MS, MCh, is a surgical gastroenterologist in Gleneagles Global Hospital, Hyderabad and he is here as a representative of Bharat Biotech International Ltd., India. We all know that the Covaxin is the India's indigenous COVID-19 vaccine developed and manufactured in the Bharat Biotech's BSL-3 facility in collaboration with Indian Council of Medical Research (ICMR) – National Institute of Virology (NIV). Our guest Dr TV Aditya completed his graduation and post – graduation from Rajah Muthiah College, Annamalai University, Tamil Nadu and MCh in our institution under the supervision of Dr. Thirunavukkarasu in the dept. of gastroenterology. He was the outstanding student all through his medical education, he received gold and silver medals for being topper in different disciplines of medicine in his under graduation. He was the university topper and received gold medal in MS and Mch from Annamalai- and NTR– University respectively.

In addition to his academic degrees, he got trained in

1. Neuro-surgery, from Voluntary Health Services, Chennai, Tamil Nadu.
2. Cardio-thoracic surgery from Railways Hospital, Chennai, Tamil Nadu.
3. Surgical oncology, Apollo Hospitals, Chennai, Tamil Nadu.
4. Vascular surgery and transplant from Amrita Institute of Medical Sciences, Cochin, Kerala.

As a clinical researcher he published papers in reputed scientific journals and presented his research work in national and international conferences; he received best poster award in Indian Association of Surgical Gastroenterology (IASG). He also received educational grant from IHPBA – international hepato –pancreato biliary association and international travel grants from – 1. IDDF – International digestive disease forum conducted in Hong Kong in 2014; as well Alpine liver and pancreatic surgery forum in 2015. He also organized a conference on pancreatic cancer and liver disease in Rome, Italy.

In a nut-shell, our Alumni and guest of honor is well accomplished scholar with gold and silver medals during his education and a researcher with publications, awards and honor. He is representing the Bharat Biotech, an Indian company that runs on the idea of invention and innovation as the key factor for growth and sustenance. Hence, we felt he will be the appropriate person for the inauguration of incubation center, and we welcome him and other guests who are here with us, and our faculties and students for this inaugural program – Thanks

Post the welcome address, Dr T V Aditya gave an inaugural speech; he highlighted the importance of invention and innovation for a country's growth. He pointed out that our country – India is the leader in Covid -19 vaccine production. He told that he was very much impressed with research infrastructure of this institute, which includes clinical trial units, well established clean rooms and today started the incubation center to nurture the young minds in the path of invention, innovation and entrepreneurship. He said that when he was student in this institution, he carried out micro-nutrient research under the supervision of Dr. S.

Thirunavukkarasu. Since because the administration and the faculties are with research bent of mind and the ecosystem of the institute supports, he told that he strongly believes that many incubatees will be benefited and mature in to entrepreneurs from this incubation center and he thanked for inviting him as guest for this inaugural program.

Then the Institution Innovation Council Members were introduced to the audience. Dr. SP Rao, president of the council, Dr. Sivakumar Vijayaraghavalu, Convenor; various other activity coordinators pertaining to the innovation, start-up, IPR, Social Media, ARIIA and student members were introduced.

Then the students of our institution Dr. Praneeth Koner and Dr. Chakradhar Siddem, - potential incubatees in our incubation center, presented about their innovative idea and start-up company named – Pocket Kare; they developed an app similar to telemedicine app. and they explained about its uniqueness on comparison to other apps available in the market.

After the student's presentation, moderator requested, Dr. Pasupuleti Srinivasa Rao, Professor, Biochemistry to brief about the research accomplishments of our institution, he presented the milestones that were achieved in the last decade and highlighted that the iron –nanoparticles prepared using green – nanotechnology method from tea leaves; a project carried out by our academic coordinator Dr. S. Vijayakumar. The research outcome including the micro-array data and the gene –network analysis was presented.

Finally, the program was concluded with a vote of thanks from the NTIC – HOD and moderator Dr. Sivakumar Vijayaraghavalu. He thanked the guest and all the participants on behalf of our institution, academic coordinator Dr. S. Vijayakumar and dean – Dr. SP Rao; for spending their valuable with us.



Dr. T. V. Aditya Unveiling the plaque curtain



Group Photo in front of the Plaque





Dr. Sivakumar Vijayaraghavalu briefing about the NTRC accomplishments



Lamp Lighting and Inauguration of Incubation Centre by Dr. T. V. Aditya



## Lamp Lighting by other Dignitaries

Dr. S.P. Rao, Dean



Dr. Rama Krishna Rao Baru,  
Medical Superintendent



Dr. Y. V. Prabakar,  
Hospital Administrator



Dr. S. Thirunavukkarasu  
Prof. & Head, Surgical Gastroenterology





# NTRC facility tour



Group Photo at the NTIC Entrance





Group Photo at the NTIC Building Entrance

