

## STATEMENT OF RESEARCH ACHIEVEMENTS FOR WHICH AWARD HAS ALREADY BEEN RECEIVED (CITATIONS INCLUDED)

A number of awards are received for **overall excellence in research and excellence as an educator**. These include:

- **Fellowship of Indian Chemical Society** on December **2020**.
- **Fellowship of the Maharashtra Academy of Sciences**, March **2006**.
- The **“PANJABRAO DESHMUKH OUTSTANDING WOMAN SCIENTIST AWARD 2019”** of the Indian Council of Agricultural Research (ICAR) at the 92<sup>nd</sup> Annual Day celebration of ICAR on 16<sup>th</sup> July 2020.
- The **“OPPI SCIENTIST AWARD 2018”** for contribution to research in Veterinary and human healthcare in infectious diseases & cancer, by Organization of Pharmaceutical Producers of India (OPPI), at OPPI's Annual day celebration on 11<sup>th</sup> October 2018 in the Ballroom of Hotel Taj Lands End, Bandra, Mumbai.
- **PROF.C.J. SHISHOO AWARD** for Research in Pharmaceutical Sciences, conferred by the Association of Pharmaceutical Teachers of India (APTI), 2013.
- **2008 VASVIK AWARD** in the category of Smt. Chandaben Mohanbhai Patel Industrial Research Award for Women Scientists- 2011.
- **American Association of Indian Pharmaceutical Scientists (AAiPS) Distinguished Educator and Researcher Award** conferred by AAiPS– 2011.

**Innovation Awards for specific research include:**

- **“IPA ACG INNOVATIVE SOLID DOSAGE FORM Award 2017”** at 4<sup>th</sup> IPA ACG – SciTech Innovation Awards for “N’hance-SDF Bioenhanced Solid dispersion film-based technology” by Indian Pharmaceutical Association at Chandigarh on 23<sup>rd</sup> December 2017.

*This innovative formulation demonstrated film technology using simple tablet coating methodology. It relied on generating the film In-situ in the GIT following oral administration of a tablet, to enable high bioavailability. Proof of concept is established for two drugs curcumin and tadalafil, and the work also published. Essentially it bypassed the high cost infrastructure and challenges of oral film technology and presents an affordable strategy, easy to scaleup as it is simple film coating with a twist to generate the drug loaded film in the GIT.*

- **“BENGALURU NANO INDIA INNOVATION AWARD 2017”** for BU’ANTRAP In situ solid lipid nanoparticles for veterinary infection at the 9<sup>th</sup> Bengaluru India Nano, organized by Karnataka Science & Technology Promotion Society (KSTePS), DST-Nano Mission in association with Jawaharlal Nehru Centre for Advanced Scientific Research Centre (JNCASR) Bangalore, on 8<sup>th</sup> December 2017, Bangalore, India.

This award was a validation of the In-Situ nanotechnology our group has developed. In-Situ nanotechnology is a revolutionary approach. Conventional nanotechnology requires high cost infrastructure, involves multiple steps and is also faced with scale-up

reproducibility and stability challenges of the nanosystem. In stark contrast In-Situ Nanotechnology as the name implies relies on addition of a sterile monophasic preconcentrate of drug, lipid/polymer and other relevant excipients in a pharmaceutically acceptable vehicle to an aqueous medium which could be dextrose or sodium chloride injection or even water based on the need, to get a ready to use nanodispersion. This innovation is for the drug Buparvaquone used to treat a spleen resident infection theileriosis, which affects cattle milk productivity and body weight. In-Situ Buparvaquone Solid Lipid Nanoparticles(SLN) can be prepared on-site on the farm using In-Situ Nanotechnology, just prior to administration to generate a ready to use injectable nanodispersion. Importantly it had nanosize and over 95% drug entrapped in the SLN important attributes desired of the product.

## CITATIONS

✚ Awarded **Life Fellowship of Indian Chemical Society** on December 24<sup>th</sup> 2020.



✚ Fellow of the **Maharashtra Academy of Sciences**, India - 2006



- ✚ Awarded as “**PANJABRAO DESHMUKH OUTSTANDING WOMAN SCIENTIST AWARD 2019**” of the Indian Council of Agricultural Research (ICAR) at the 92<sup>nd</sup> Annual Day celebration of ICAR on 16<sup>th</sup> July 2020.



**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**

**PANJABRAO DESHMUKH OUTSTANDING WOMAN  
SCIENTIST AWARD 2019**

**DR. PADMA VENKITACHALAM DEVARAJAN**  
PROFESSOR IN PHARMACY AND FORMER HEAD,  
DEPARTMENT OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY;  
MEMBER BOARD OF GOVERNORS, INSTITUTE OF CHEMICAL TECHNOLOGY (ICT), MUMBAI

**CITATION**



**DR. PADMA VENKITACHALAM DEVARAJAN**, Professor in Pharmacy and Former Head, Department of Pharmaceutical Science and Technology; Member Board of Governors, Institute of Chemical Technology (ICT), Mumbai, has been awarded Panjabrao Deshmukh Outstanding Women Scientist Award 2019. She has worked on integration of Science and Technology for the development of innovative products for veterinary healthcare, with ease of scalability. The developments are comprehensive and address interventions for prevention, therapy and diagnosis. The outcomes represent the entire trajectory of translation, right from idea - to lab - to commercialization for conditions that have high socio economic relevance like mastitis, intracellular infections like the Ileriosis and the zoonotic infections brucellosis, and tuberculosis. The Point of Care diagnostics are simple yet innovative and support judicious and immediate decision making, be it feed supplementation or breeding through artificial insemination. Innovation through affordable excellence as a primary focus enables high outreach, a critical requirement in the agrarian economic sector. A major strength that has enabled this wonderful transition of products which are at different stages of commercialization is the three-way collaboration of a Drug Delivery Scientist cum Technologist with a Veterinarian and a Vet Industry Partner.

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- Awarded as “**OPPI SCIENTIST AWARD 2018**” for contribution to research in Veterinary and human healthcare in infectious diseases & cancer, by Organization of Pharmaceutical Producers of India (OPPI), at OPPI’s Annual day celebration on 11<sup>th</sup> October 2018 in the Ballroom of Hotel Taj Lands End, Bandra, Mumbai.

## Winner of OPPI Scientist Award 2018

DG OPPI <dg@indiaoppi.com>

Tue 9/25/2018 4:19 PM

To: Padma V Devarajan <pv.devarajan@ictmumbai.edu.in>

Cc: Kanchana TK <kanchana.tk@indiaoppi.com>; Bhavna Singh <bhavna.singh@indiaoppi.com>; Rajiv Shukla <rajiv.shukla@indiaoppi.com>; Carolina Dsa <carolina.dsa@indiaoppi.com>; Clara Rodricks <clara.rodricks@indiaoppi.com>; Masood Shaikh <masood.shaikh@indiaoppi.com>

Dr Padma Venkitachalam Devarajan  
Professor in Pharmacy  
Head, Department of Pharmaceutical Sciences and Technology  
Institute of Chemical Technology  
Mumbai 400019

Dear Dr Devarajan,

Congratulations for winning the **OPPI Scientist Award 2018**. The award carries a trophy and a cash prize of Rs.1,00,000/- and will be formally presented to you by the distinguished guests at OPPI’s Annual day celebration to be held on October 11, 2018 in the Ballroom of Hotel Taj Lands End, Bandra, Mumbai.

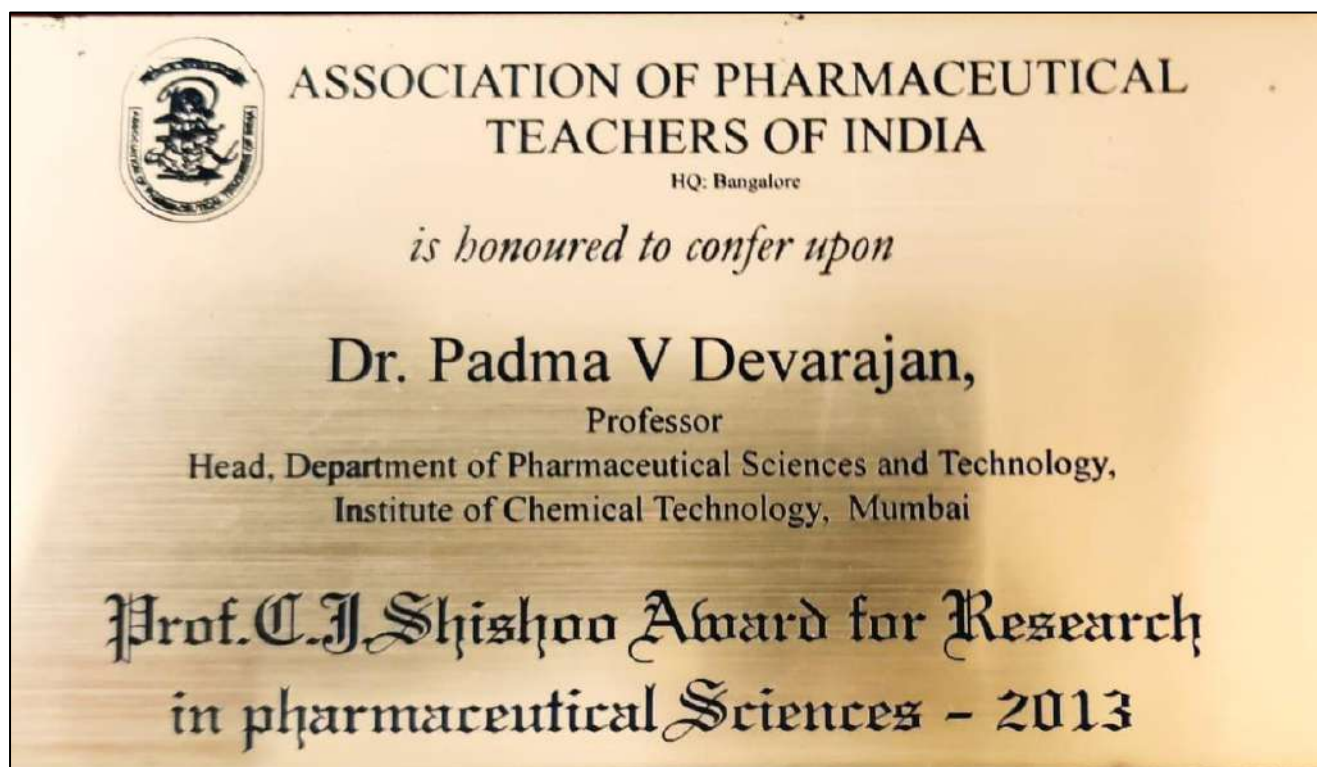
Organisation of Pharmaceutical Producers of India (OPPI) has instituted the Scientists, Young Scientists and Women Scientists Awards to recognise excellence in research from Indian scientists who have carried out original research in the field of pharmaceutical sciences.

I cordially invite you to our annual day celebration to receive your award and please join us for lunch.



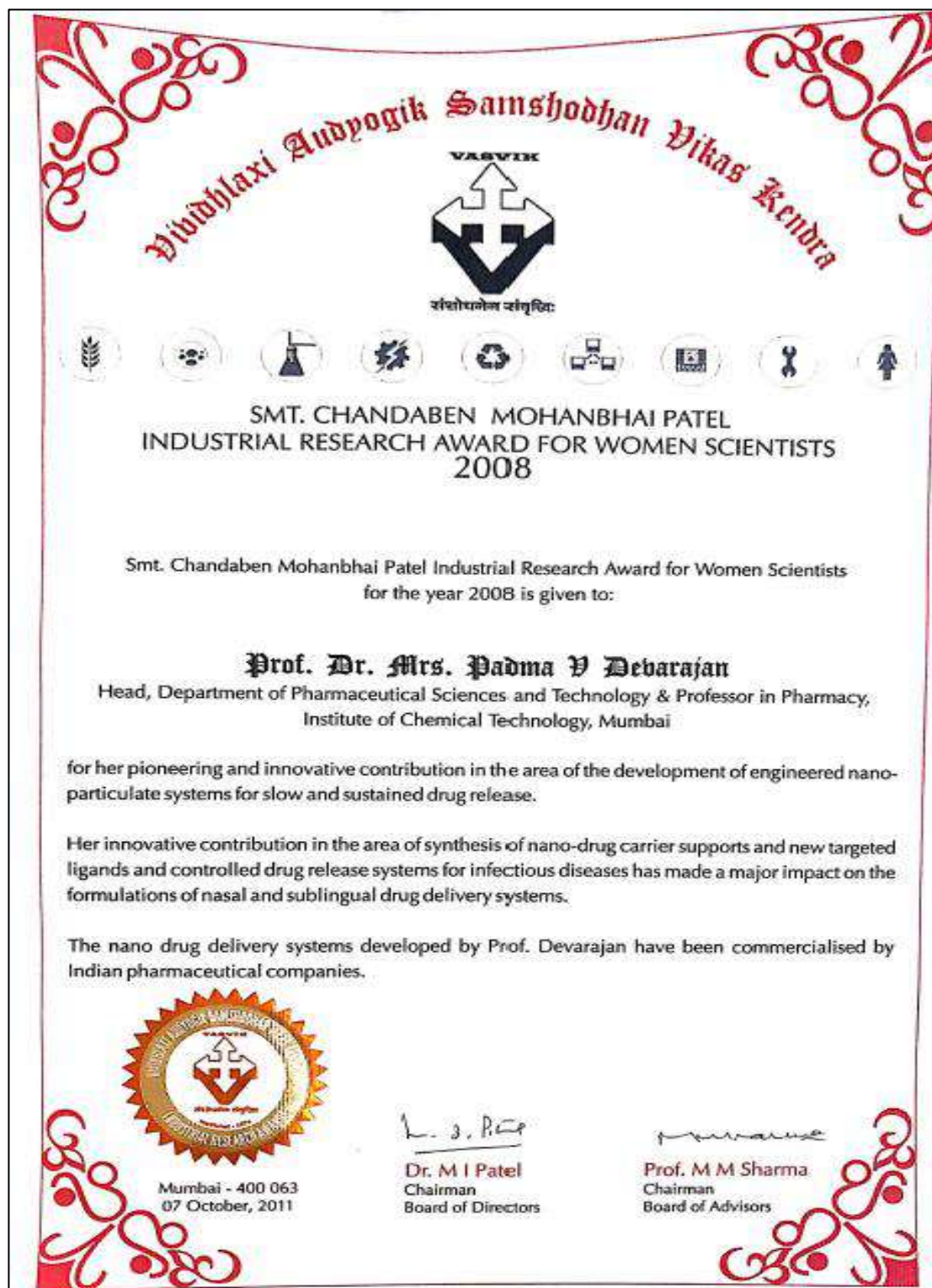


✚ **PROF.C.J. SHISHOO AWARD** for Research in Pharmaceutical Sciences, conferred by the Association of Pharmaceutical Teachers of India (APTI), 2013.

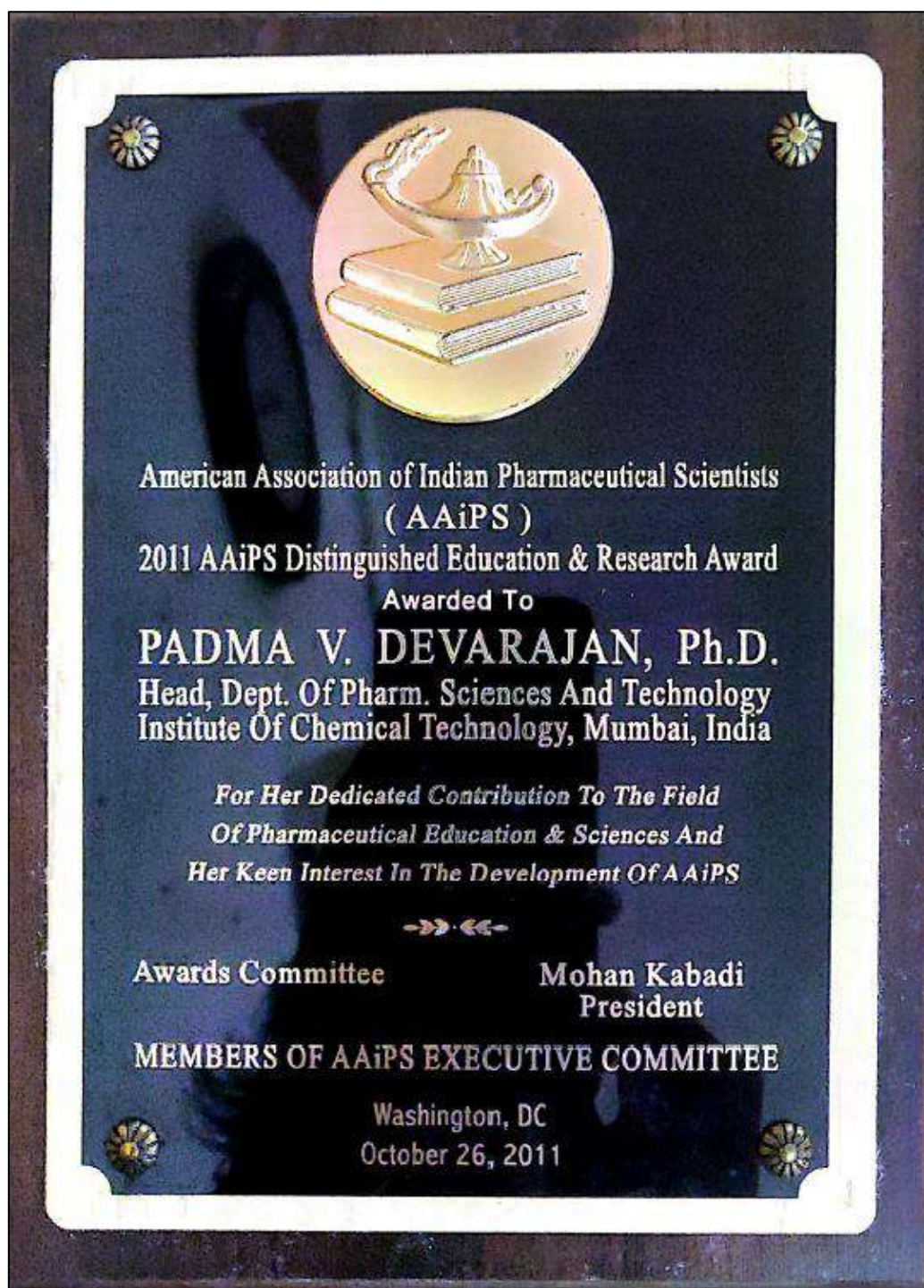




- ✚ **2008 VASVIK AWARD** in the category of Smt. Chandaben Mohanbhai Patel Industrial Research Award for Women Scientists- 2011.



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- ✚ “**BENGALURU NANO INDIA INNOVATION AWARD 2017**” for BU’ANTRAP In situ solid lipid nanoparticles for veterinary infection at the 9<sup>th</sup> Bengaluru India Nano, organized by Karnataka Science & Technology Promotion Society (KSTePS), DST-Nano Mission in association with Jawaharlal Nehru Centre for Advanced Scientific Research Centre (JNCASR) Bangalore, on 8<sup>th</sup> December 2017, at The Lalit Ashok, Bangalore, India.



## 9th Bengaluru INDIA NANO - Innovation Award

Ambika Kiran <ambika.kiran@mmactiv.com>

Tue, Dec 5, 2017 at 7:11 PM

To: Padma Devarajan <pvdevarajan@gmail.com>

Cc: "Mr. Gurunath Angadi" <gurunath.angadi@mmactiv.com>, gwyneth.alphonso@mmactiv.com, Gwen Alphonso <gwen.bangalorenano@gmail.com>

Dear Madam,

The 9th edition of Bengaluru INDIA NANO will be held from **7th to 9th December, 2017** at Lalit Ashok, Bengaluru. As Nanotechnology is paving the way for a revolution, abundant opportunities will follow making an impact on humanity. Hence, the focal theme for the event is aptly chosen as “**Nano Horizons**”.

We are pleased to inform you that you have been selected for **9<sup>th</sup> Bengaluru INDIA NANO 2017 - Innovation Award**. We request your presence on **Nano Excellence Award Function** to receive the Award on **7<sup>th</sup> December, 2017 @ 6:15 pm** at **Kalinga 1 Hall, The Lalit Ashok, Bengaluru**.

Congratulations once again.

Regards,

Ambika Kiran

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