DR. D. Y. PATIL BIOTECHNOLOGY & BIOINFORMATICS INSTITUTE
DR. D. Y. PATIL VIDYAPEETH, PUNE
(Deemed to be University)
(Re-accredited by NAAC with a CGPA of 3.62 on a four- point scale at 'A' Grade)
(Category I University approved by UGC)
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Institute supported by DST-FIST & Approved by AICTE, Govt. of India

Ref: DYPBBI/166/2022 Date: 03-06-2022

A REPORT ON
IIC activity:
Celebration of World IPR Day

Organized by: Dr. D. Y. Patil Biotechnology & Bioinformatics Institute (DYPBBI), Dr. D. Y. Patil Vidyapeeth, Pune

Day & Date: Monday, May 02, 2022

Time: 13:00 hrs. onwards

Platform: Online, via Zoom

Panelists:

1. Dr. Swarada Peerannawar, Head- DPU Foundation for Innovation, Incubation & Entrepreneurship
2. Dr. J. K. Pal, Director DYPBBI
3. Dr. Neelu Nawani, Professor & Research coordinator DYPBBI
4. Adv. Swapnil Gawande, Director, BLI consultancy Pvt. Ltd., Amravati
5. Dr. Tanushree Banerjee, Associate professor, Innovation ambassador- MHRD Innovation cell, & Internship coordinator
6. Dr. Swapnil Gaikwad, Assistant professor & Innovation activity coordinator
7. Dr. Amit Ranjan, Assistant Professor, Innovation ambassador- MHRD Innovation cell, & IPR activity coordinator
8. Dr. Satish Raut, Assistant professor & Start-up activity coordinator
9. Ms. Harsha Chandwani, Scientific administrative officer & Social media coordinator

Participants: 188 students online, 19 faculty online, Plus mobs of students in 5 classrooms

Topic and speaker:

- **"Patenting in Biotechnology"** by **Adv. Swapnil Gawande**, Director, BLI consultancy Pvt. Ltd., Amravati
- **"Creativity and Innovations begin with keen Observations – The Story of a Process Patent that began during Childhood"** by **Prof. J. K. Pal**, Director, DYPBBI, Pune.

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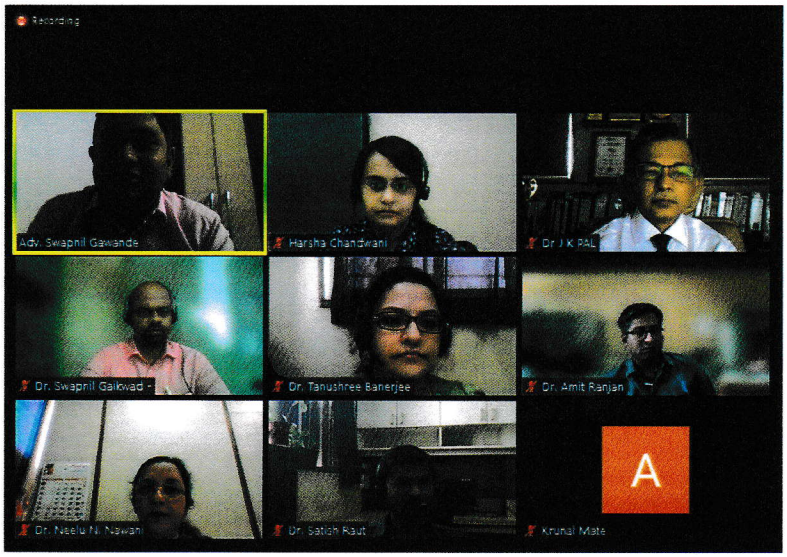
The webinar began with a welcome note. The panelists, speakers and all the attendees were warmly welcomed. This webinar was organized in the wake of celebrating the World IPR day, which is observed on 26th of April every year globally. Talking about the world IPR day, the event was established by the World Intellectual Property Organization (WIPO) in 2000 to "raise awareness of how patents, copyright, trademarks and designs impact on daily life" and "to celebrate creativity, and the contribution made by creators and innovators to the development of societies across the globe." Keeping this in mind, to spread this awareness further among our students talks on the related topics were arranged.



This was followed by an opening remark with inspiring and encouraging words by the Director of the institute- Prof. J. K. Pal. The speaker for the day, Adv. Swapnil Gawande, was introduced. He began with the first talk of the session.

1. "Patenting in Biotechnology" by **Adv. Swapnil Gawande:** The speaker is a registered patent & trademark consultant. He has conducted numerous workshops on these topics. Mr. Gawande began with making the audience understand what is property, what are the types of properties. Defining intellectual property, types of intellectual properties like- patents, trademarks, copy rights etc. He highlighted the importance of protecting the invention or innovation. In-depth details about Patents were explained. Moving to the core topic of Patenting in biotechnology- he elaborated the history of patenting in this field which played a role in changing world since 1873. Examples of well-known biotech patents were detailed.

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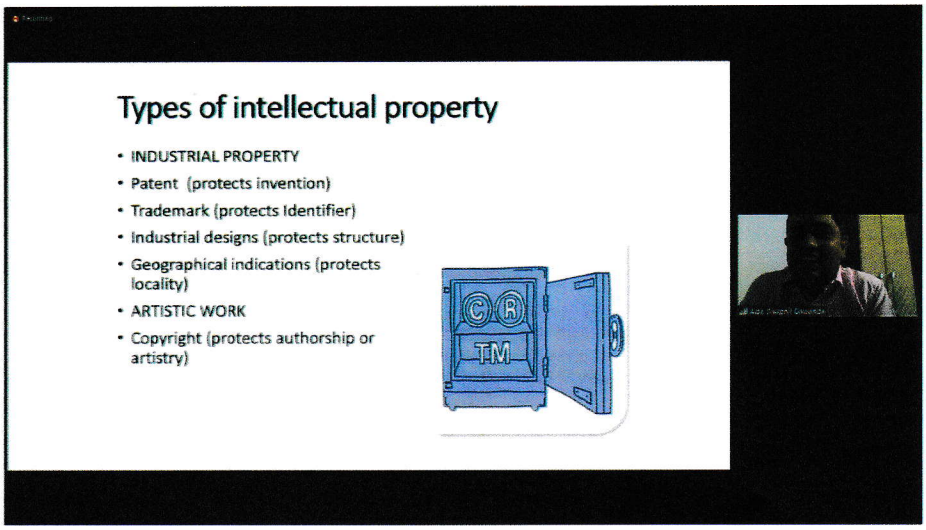

He also explained to process of how patents are filed- starting with invention, filing application, product/ process novelty, anticipation, inventive steps, industrial applicability, things to do before filing patents. The talk being more specific about patenting in biotechnology, touched a few aspects like deposition of biological material, sequence listing, permission from National Biodiversity Authority etc. Misconceptions on patentability were also discussed. This was followed by an interesting Q&A session.

2. "Creativity and Innovations begin with keen observations – The story of a process patent that began during childhood" by **Prof. J. K. Pal:** Prof. Pal intended to narrate the audience how his curiosity from childhood let him obtain a patent during his research. This was a story about one of the Patents Prof. Pal obtained, in 2010. The patent was for "Staining of proteins on acrylamide gels & nitrocellulose membranes by Alta- a color used as cosmetics". It took 5 years after submission for the patent to be granted. One US patent & one Indian patent was granted for this invention.

The observations in childhood about the coloring property of this cosmetic that remains for days, and the shiny texture on skin were intriguing. Later during his research, Prof. Pal studied about the Protein chemistry behind Alta, binding of color to proteins on skin. The further curiosity led to various experimentations. Experiments were carried out for Invitro binding of color of Alta to proteins, detection & quantification of proteins. The results concluded usefulness. Comparisons were made with Coomassie brilliant blue, the dye commonly used for protein analysis.

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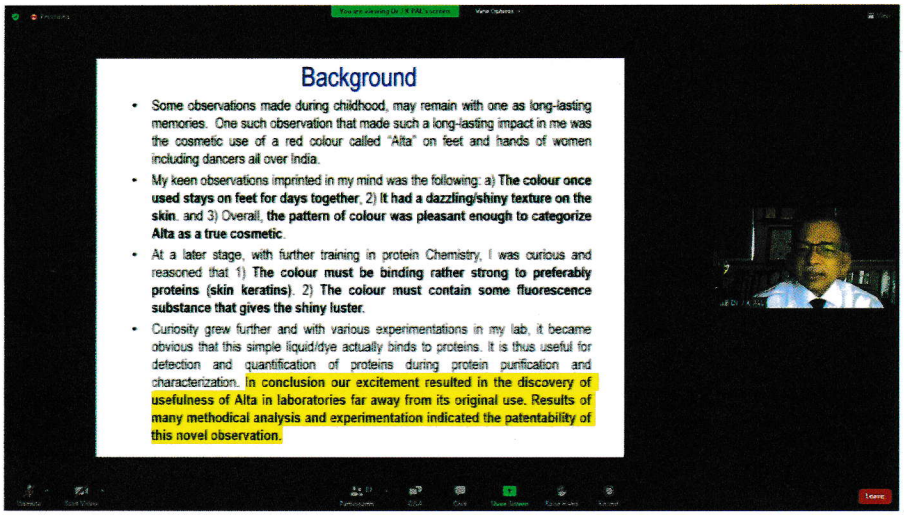

The sensitivity of Alta was studied with marker proteins and quantification and analysis was carried out using gel documentation system. Alta was used for in-gel staining during electrophoresis. 1 step staining of proteins in gel & subsequently in Nitrocellulose membrane during the Western Blot transfer. If was found that Alta was retained on NC membrane. Hence the same could also be used for processing with antibodies. Later, the chemical nature of Alta was also determined. The cost effectiveness proved Alta to be 100 times cheaper than Ponceau Red S. Prof. Pal also explained the efforts taken for the tech transfer for commercial use. Thereby stating, a big gap between patenting & commercialization and how innovation centers in the Universities can bridge the gap.

Prof. Pal concluded his session by highlighting about creativity, science and role of teachers to play for the further inventions to come.

The webinar was concluded with a vote of thanks to the patrons, panelists, speaker and the attendees.

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Report prepared by,

Ms. Harsha Chandwani
Scientific Administrative Officer
Social media coordinator

Coordinators:

1.	Prof. Neelu Nawani, Research Coordinator	
2.	Dr. Swapnil Gaikwad, Innovation activity coordinator	
3.	Dr. Amit Ranjan, IPR activity coordinator, Innovation ambassador	Amit Ranjan
4.	Dr. Satish Raut, Start-up activity coordinator	

Prof. J. K. Pal
Director, DYPBBI