

Dhiraj Sanjay Powar

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Education summary:

Sr. No.	Qualification	Board /University	Year Of Passing	Percentage/CGPA
1	B.Tech (Biotechnology)	P.I.E.T./RTMNU Nagpur	2018	81.3% / 8.88
2	HSC	P.B.Patil Junior College, Mudhal	2014	73.24%
3.	SSC	Solankur High School, Solankur	2012	83.84%

Work Experience:**1. KBCOLS Sciences PVT LTD, Pune, MH, India (January 2019-Present)**

KBCOLS Sciences is a technology driven startup Supported by Biotechnology Ignition Grant BIG 2018 (BIRAC-India)

- **Work Profile:** Research Associate
- **Job Responsibility:**
 1. Development of Upstream and Downstream Processes.
 2. Microbial Isolation and Identification.
 3. Reactor modeling and Experimentation (2L & 5L Brunswick Fermenter).
 4. Purification techniques-Column Chromatography, HPLC,
 5. Toxicology Studies: Cytotoxicity Assays, HET-Cam Assay
 6. R&D activities, Inventory Management, Quality analysis, Instrument maintenance and Cleaning etc.

Project Details:

1. Project Title: Reduction of Arsenic induced free radicals using Black Tea in Swiss Albino Mice (May-June 2018). 9773608228

Description: The experiment was carried out to investigate the possibility that oral administration of black tea may reduce the generation of free radicals and have an inhibitory effect on the growth of squamous cell carcinomas. The significant results were observed on mice groups. It was found that the mice group who were treated with chemical carcinogens and arsenic showed high level of free radicals (RNS/ROS) whereas control mice group which were administered with black tea extract showed low level of free radicals. Thus black tea can be used as chemo preventive agent against cancer.

2. Project Title: Anti-proliferative effect of Whole Cell Lysate of *Listeria Monocytogenes* on Cancer Cell Line: A Pilot Study (December 2017-April 2018).

Description: In the present study, a pilot study experiment was conducted to evaluate the Anti-proliferative effect of whole cell lysate of *Listeria monocytogenes* on Hela cell line. The results of cell cytotoxicity showed that there is no toxic effect found on PBMC cell line model after treatment of WCL. However in case of cancer cell line (HeLa), significant proliferation was observed after induction of *listeria* WCL. Thus, in the pilot study the data provides the proof of concept that administration of a whole cell lysate of *Listeria monocytogenes* does not show any significant anti-proliferative activity response against cancer cells.

3. Mini Project Title: Natural dye extraction from temple waste flowers (Feb-April 2017).

Description: In India, every day flowers are offered to deities in temples which are left unused and become temple waste. The rose and marigold flowers were used to extract the natural dye. The different conditions were studied to produce better quality and quantity of the dye. The extracted dye showed that it can be used as coloring agent to dye different cloths with the help of different mordant.

Recognition received:

1. Received Second Cash Prize award in the National level Project Modelling Competition held at PIET, Nagpur. (Nirmity-2017)
2. Published research article in International Journal of Natural Products Research 2018; 8(1): 12-14.

Internship:

1. Summer trainee at Chittaranjan National Cancer Institute, Kolkata (May-June 2018)
2. Project fellow at Central India Institute of Medical Science, Nagpur (December 17-April 2018).
3. Intern at National Institute of Miners Health, Nagpur (June-July 2017).
4. Worked as intern at Bhogawati Sugar Industry, Kolhapur(2016)

Academics and Co-Curricular achievements:

- First Cash Prize and Award of Excellence in “Medha-2017: Medical devices hackathon” held at Mumbai by BETiC Centre, IIT Bombay.
- Awarded as Ideal student in High school as well as in College (2012 & 2014).

- Secured third prize in Taluka level science exhibition, BHUDARGAD, Kolhapur Maharashtra (2013).

Organizational skills:

- Acted as Boy's Coordinator of Synapse committee, Department of Biotechnology, P.I.E.T. Nagpur, Maharashtra.
- Knowledge center coordinator, P.I.E.T. Nagpur, Maharashtra.
- Held position of NSS coordinator, P.I.E.T., Nagpur.

Seminars and Workshops:

1. Represented KBCOLS Sciences at Innopreneurs-Startup Contest 2019 powered by Lemon Idea ,Nagpur and received appreciation award for Top-20 stratus's of India.
2. Attended International conference held by CIIMS, Nagpur on "Emerging microbes and their impact on Human health", April-2018.
3. Award of Excellence for successfully completing all prescribed activities (Team building, Prototype designing, Brainstorming) in Medical Device Innovation Camp (MEDIC) held during 13th- 17th September, 2017 at College of Engineering, Pune.
4. Successfully attended one week workshop on "Recent trends in Biotechnology" organised by PIET, Nagpur on June 2018.

Personal Details:

- **Date of Birth/Age:** 26 July, 1996/23.
- **Linguistic proficiency:** English, Marathi, Hindi
- **Hobbies and Interest:** Traveling, Cooking
- **Father's Name:** Mr. Sanjay Nana Powar **Occupation:** Farmer
- **Mother's Name:** Mrs. Kalpana Sanjay Powar **Occupation:** Home Maker
- **Technical skills:** Animal Handling, Cell culture Techniques, Proteomic assays, Reactor handling, Upstream & downstream process development etc.
- **Computer Skills :**MS Office (Word, PowerPoint, Excel),C++

Declaration: I, hereby solemnly declared that the above mentioned information is true to the best of my knowledge.

Date: 20/07/2020

Dhiraj Sanjay Powar

Place: Pune