

Achievements of Department in 2017-2018

- The department of had received DST-FIST grant amounting **Rs. 68 Lakhs** and also received Centre of Excellence on ‘**Natural Products and Therapeutics**’ amounting to **Rs. 4 crores** in collaboration with School of Chemistry, Sambalpur University.
- There were **4 (Four) ongoing projects worth Rs. 1.18 Crores** in the department and **seven projects amounting to Rs. 6.28 crores** have been submitted.
- **Prof. Pradeep K. Naik** has authored a Book entitled “Mangroove Atlas of Bitarkanika” by Ekamra Press, Bhubaneswar.
- **Dr. Smaranika Pattnaik**, had received Best Paper Presentation Award in 2nd International Conference on Biotechnology and Biological Sciences, BIOSPECTRUM-2018, at University of Engineering and Management, Kolkata, during 27th-28th July, 2018.
- **Dr. Smaranika Pattnaik**, had presented paper in International Conference on Traditional Medicine, Phytochemistry and Medicinal Plants (TMCDPM) in Tokyo, Japan
- A total of **05 international and 01 national journal articles with average impact factor 1.47 and 01 book chapter** had been published by the faculty members of the department.
- A total of **07 (seven) New Research Scholars** had been **registered for Ph.D.** in the Department and **02 (two) Research Scholars** had been **awarded with Ph. D. Degree.**
- All other faculty members of the Department had attended different National/ International Conferences/Seminars/Workshops/ Orientation programmes organized by UGC/ different Institutes of India.

Achievements of department in 2018-2019

- In 2019, **three new project grants were** received by faculties of the department. Particularly, **Prof. Pradeep K. Naik** had received ICMR sponsored project grant amounting to **Rs. 51 Lakhs** and DBT sponsored project amounting to **Rs. 95 Lakhs** and **Dr. Birendra Behera** had received DST-SERB sponsored extramural project amounting to **Rs. 30.69 lakhs.**

- Except the new project grants, there were **5 (Five) other ongoing projects with total outlay of Rs. 5.85 Crores** including the ‘Centre of Excellence in Natural Products and Therapeutics’
- A total of **07 international and 01 national journal articles with average impact factor 2.27 and 02 book chapters** had been published by the faculty members of the Department.
- A total of **08 (eight) New Research Scholars** had been **registered for Ph.D.** in the Department.
- **Three** students had **qualified CSIR-JRF-NET** and **five** students have **got placement** in Vastuvihar Biotechnology Pvt. Ltd., Bodh Gaya, Bihar, India with an annual package of 4.4 lakhs.
- The faculty members of the Department had attended different National/ International Conferences/Seminars/Workshops/ Orientation programmes organized by UGC/ different Institutes of India.

Achievements of department in 2019-2020

- One new project was obtained by **Prof. Pradeep K. Naik** of the department from ICMR, Govt. of India namely ‘Big data platform for temporal storage of Clinical Data of Patients of cardio vascular disease in data mining for better diagnosis and treatment’ amounting **Rs. 22,00,000 (twenty lakhs only)**.
- **Prof. Pradeep K. Naik** also had published one book chapter entitled ‘Noscapine and its unique mechanism towards tubulin and cancer’ five journal articles of international repute, delivered five invited lectures and
- **Dr. (Mrs.) Smaranika Pattnaik** received Senior Scientist Award in microbiologist-2020 at all India level from Microbiologist Society of India.
- **Dr. (Mrs.) Smaranika Pattnaik** have participated in BIOASIA-2020 Convention at Hyderabad, sponsored by Department of Science and Technology, Govt. of Odisha, dated 17th to 19th February, 2020
- **Dr. (Mrs.) Smaranika Pattnaik** had published **three book chapters namely (i)** Meta-Analysis of Genetic Variants in Alcohol Metabolizing Enzymes and their Association with Colorectal Cancer Risk (Springer Publication, Singapore)(ii) Meta-Analysis Reveals no Significant Association of EPHX1 Tyr113His and His139Arg

Polymorphisms with the Colorectal Cancer Risk (Springer Publication, Singapore)
(iii) Concept Note The Enigma of COVID-19 (Medwin Publisher, USA).

- In this year the department had organized one two day National Conference on CURRENT RESEARCH TRENDS IN BIOTECHNOLOGY, BIOINFORMATICS AND INTELLECTUAL PROPERTY MANAGEMENT (CRTBBI-2020) during 3rd and 4th March 2020 and organized one seven day International Webinar on BIOTECHNOLOGY, BIOINFORMATICS AND NATURAL PRODUCTS IN HEALTH CARE during 29th June to 5th July, 2020.
- Except the new project grants, there were **6 (Five) other ongoing projects with total outlay of Rs. 7.14 Crores** including the ‘Centre of Excellence in Natural Products and Therapeutics’
- A total of **11 (eleven) New Research Scholars** had been **registered for Ph.D.** in the Department.
- **One** student had qualified **CSIR-JRF-NET**, **three** students had qualified **GATE** and **six** students have **got placement** in **Sai BioCare Pvt. Ltd., Bhubaneswar, Odisha, India.**
- All faculty members of the Department have published **15 journal articles** cumulatively in journal of national and international repute and also attended different National/ International Conferences/Seminars/Workshops/ Orientation programmes organized by UGC/ different Institutes of India.

Achievements of department in 2020-2021

- The department had received “**DBT-BUILDER Grant**,” a five year infrastructure development fund from DBT, Govt. of India amounting Rs. **4.8 Crore** for developing state-of-art instrumentation facility and for organizing training programmes.
- All total two (02) new sponsored research projects were obtained from ICMR, Govt. of India by **Prof. Pradeep K. Naik** namely ‘Optimization of natural anticancer agent noscaphine by rational design of its derivative: chemical synthesis and preclinical evaluation for management of breast cancer’ amounting **Rs. 48,42,000/- (Rupees fourty eight point four two lakhs only)** and ‘Elucidation of human pancreatic islets as well as myosin-VA motor protein and their association in human autopsy pancrease specimen’ amounting **Rs. 51,40,000/- (Rupees fifty one point four lakhs only).**

- Except the new project grants, there were **seven (07) other ongoing projects with total outlay of Rs. 6.15 Crores** including the ‘Centre of Excellence in Natural Products and Therapeutics’.
- **Prof. Pradeep K. Naik** had been awarded with a **patent entitled ‘Mucoadhesive Gargle Composition and A Method of Preparation Thereof’** along with his collaborators.
- **Prof. Pradeep K. Naik** also had been awarded with ‘Best Teacher Award’ by Sambalpur University for the year 2021.
- **Prof. Pradeep K. Naik** had published one book chapter entitled “Machine Learning, Big data and IoT for Medical Informatics (Academic Press, Elsevier, UK).”
- **Dr. (Mrs.) Smaranika Pattnaik** had published six book chapters namely (i) Molecular Docking Studies between components of Eucalyptus Essential Oil and Homologically Modelled Target Protein (ii) Biofilm Formation and Antibiotic Susceptibility Profile in Bacterial Strains Isolated From The Patient Infected With UTI (iii) Prevalence of PDR bacterial strains harbored with NDM-1 gene isolated from UTI patients (Book: Contemporary Medical Biotechnology Research for Human Health, Elsevier Publication); (iv) Dissemination of ARGs via HGT in Clinical Environment (Book: Current Research in Biotechnology and Biological Sciences, Bright Sky Publications, New Delhi); (v) Bacteria And Biofilms In Chronic Infections And Nosocomial Diseases (Book: Biofilm-Mediated Diseases: Causes and Controls, Springer Nature) and (iv) Microbial Genomes (Book: Sequencing Technologies in Microbial Food Safety and Quality, Taylor and Francis).
- A total of **two (02) students had been awarded with Ph. D. degree and four (04) new research Scholars had joined as Ph.D. student** in the Department.
- **In this year, One** student have qualified **CSIR-JRF-NET** and **one** student have qualified **GATE**.
- The department have organized a five day **Entrepreneurship Development Programme** in “Development of Value Aided Product from Mahuaa Flower” during 21st to 26th Feb. 2021 in association with NGO, Basundhara with thirty participants from different rural areas of Odisha.
- All together, faculty members of the Department have published **39 articles** in UGC recommended and SCI-indexed journals of national and international repute and also

participated in different National/ International Conferences/Seminars/Workshops/ Orientation programmes organized by UGC/ different Institutes of India.

Achievements of department in 2021-2022

- During the audit of Academic and Administrative activities of the department, the overall departmental performance was rated as Excellent by external auditors for the session 2016-2021 in terms of number of projects and publications.
- The department had organized a six month **Entrepreneurship Development Programme** in “Development of Value Aided Product from Mahuaa Flower” during 06th April to 06th October 2022 in association with CFTRI, Hyderabad with thirty participants from different areas of Odisha.
- During the year, the department had conducted a seven day hands-on workshop on “Animal Cell Culture Techniques and Screening of Drug Molecules (ACTSDM-2022)” from 10th -16th October 2022 where 30 participants from nineteen different universities of all over India had participated and given overall feedback of 9.67/10.
- Dr. Bhawani Prasad Bag and Dr. Birendra Behera had successfully obtained two research grants sponsored by the R&D project of Sambalpur University.
- The department had successfully completed four project in the year 2022 and has six (06) ongoing projects **with total outlay of Rs. 11.13 Crores** including the ‘Centre of Excellence in Natural Products and Therapeutics” and “DBT-BUILDER Grant”.
- **Prof. Pradeep K. Naik** have been awarded with a **patent entitled ‘Mucoadhesive Gargle Composition and A Method of Preparation Thereof’** along with his collaborators.
- **Prof. Pradeep K. Naik** has published one book chapter entitled “Machine Learning, Big data and IoT for Medical Informatics (Academic Press, Elsevier, UK).”
- A total of **two (02) teachers have been awarded with D.Sc. degree and seven (07) students have been awarded with Ph. D. degree and four (04) new research Scholars have joined as Ph.D. student** in the Department.
- **In this year, two** students have qualified **CSIR-JRF-NET among which one got all India Rank of 53.**
- All together, faculty members of the Department have published **27 articles** in UGC recommended and SCI-indexed journals of national and international repute and also

participated in different National/ International Conferences/Seminars/Workshops/
Orientation programmes organized by UGC/ different Institutes of India.