

Information Brochure



Department of Pharmaceutical Technology

Prepared by
NAAC Sub Committee
June, 2021





Dawn of Department of Pharmaceutical Technology, Jadavpur University

The department of Pharmaceutical Technology was set up in 1963 and is a part and parcel of Jadavpur University which had its root published in 1906. The department enjoys national and international recognitions both in teaching and research. The late Professor M L Schroff was the first head of the Department and Late Prof. Durlav Krishna Roy became his immediate successor.



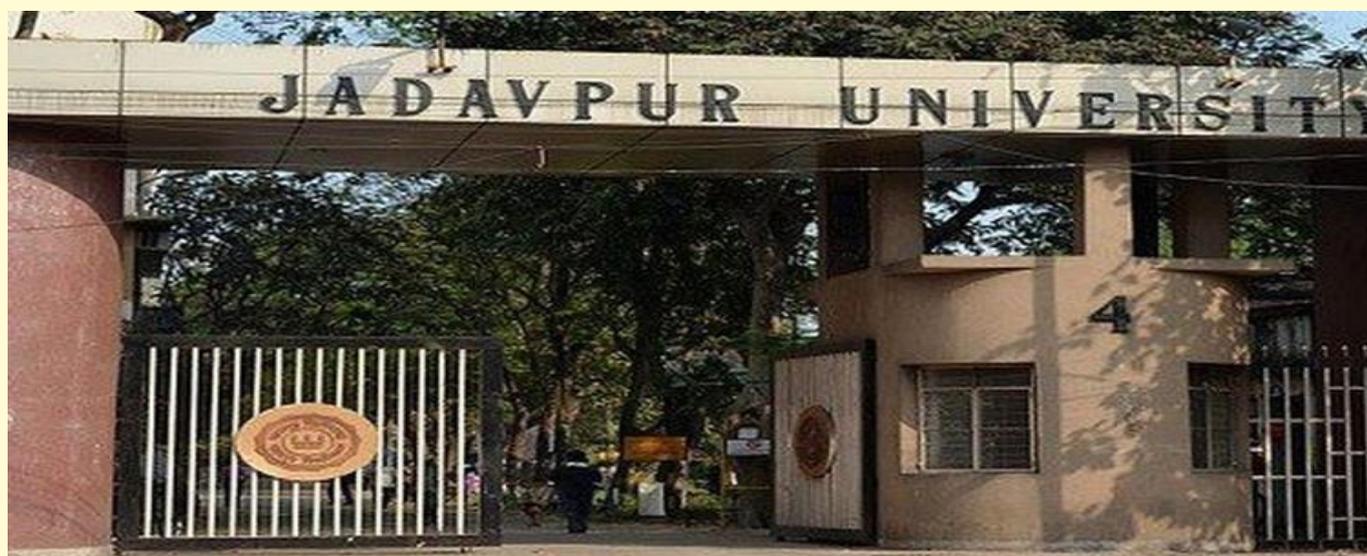
Prof. Mahadev Lal Schroff

Among many other finest pharmacy professors of JU, ML Schroff was one of them. He headed the department from July, 1964 to December, 1967. His journey towards profession from education is quite interesting and worthy to be discussed. Father of Indian Pharmacy Education, Mahadev Lal Schroff was born on 6th March, 1902 in Bihar. His name was renowned for his immense contribution towards pharmacy education. Surprisingly though his education and early profession was entirely different from pharmacy, he contributed both on education and industrial sector. He had his bachelor degree from Cornell University and did MS in chemistry & microbiology from Massachusetts Institute of Technology in the year of 1927. Prior to this he joined Banaras Hindu University (BHU) for his college education in in 1920 after completion of schooling in in Bhagalpur. At that time, he was seeking for further educational opportunity in foreign country. He tried his luck in China, Japan and finally put his foothold in America. After his education in USA, he came back and worked on different sectors in India and few of them were Birla Brothers Ltd, BHU & Jadavpur University. During his tenure in BHU, he introduced pharm chemistry; pharmacognosy etc in BSC course and later on he started 3 years B Pharmacy course & 2 years M Pharmacy. In 1946, he acted as president of Bengal Pharmaceutical Association, 1st vice president of PCI in 1949 and president of PCI in 1954.



Prof. Durlav Kumar Roy

Another famous professors of Jadavpur University Pharmaceutical Technology Department is Prof. Durlav Kumar Roy. During his tenure in Jadavpur University from August, 1968 to June, 1981 was remarkable. Prof. DK Roy and his group have influenced arena of research a lot. It is quite obvious that breakthrough improvements of pharmacy are happening due to huge contribution by the professionals both in academia and industry. In Jadavpur University, research is being given same priority with teaching since ages. DK Roy's works on antiviral-antibiotic complex, antitumor activity from *Aspergillus Niger* drew attention of scientific community. Among his collaboration with different institutes, research works with CSIR-Indian Institute of Chemical Biology was noteworthy. His invented antibiotic named as 'JAWARINE' proved its efficacy against several viruses including Leukaemia. He was from Dashghara, Hooghly (W. B.) and graduated from BHU in 1936 in pharmaceutics. His postgraduate degree was from Calcutta University in Applied Chemistry in the year of 1939. His further education was pursued from U.S.A. He was awarded with Watmull Foundation Travel grant to work with famous researchers such as Dr. Kolachov and Prof. Underkofler. After returning back to India, he worked in Indian Institute of Experimental Medicine, Calcutta (presently known as Indian Institute of Chemical Biology). He served Birla Institute of Technology, Pilani (Rajasthan) as professor and head of the Department of Pharmaceutics for 2 years. He worked back again to IICB for 12 years (1956-1968) and later on in Jadavpur University; He headed the department from 1968 to 1977. Later on he served as professor till 1981. He was associated with ICMR, Biochemical Society of Calcutta, Indian Pharmaceutical Congress, West Bengal Pharmacy Council, All India Council of Technical Education and many more. His research projects were funded by CSIR, ICMR and UGC and he was awarded with P. C. Roy Gold Medal in 1981 and Prof. A. C. Roy Commemoration in 1985. He was elected as fellow of Institutions of Chemist of India and Royal Society of Chemistry (London). His death on November 25, 1986 is deeply mourned by the pharmacy professionals till.





Prof. Anupam Sengupta

Another eminent professor of Pharmaceutical Technology of Jadavpur University was Dr. Anupam Sengupta. He was born on 1st March, 1928 in undivided Bengal. He worked first in Birla Institute of Technology, Pilani, Rajasthan from 1950 to 1958 in Pharmaceutical Chemistry Division. From 1958 to 1960, he served the Development Council, Ministry of Petrochemicals, Govt. of India and in 1960 he joined at the Department of Pharmaceutics, Benaras Hindu University, U. P. He pursued his research on Oil Technology and Lipid Chemistry from Calcutta University and earned his D. Phil degree in 1963. Our Department receive him in 1965 as a reader in pharmaceutical chemistry and his tenure till August, 1980 contributed a lot for further improvement of Pharmacy department. He headed the department in 1980 but his premature demise on 22nd August, 1980 stopped his glorious journey. During this short era of time, he contributed more than 50 original scientific research works and all were published in the journal of international repute. He guided few PhD students and many postgraduate students who are presently working in academic sector or in industry. He was an active member of Association of Pharmaceutical Teachers of India and his expertise was sought by Bengal Chemical & Pharmaceutical Works of W. B.; B.I.T Mesra, Ranchi; and also by University Grants Commission, Govt. of India for drafting pharmacy curriculum. Instead of his short span of life, he enriched and empowered pharmacy department of JU.

Since its functioning from 1963, it is offering courses on Medicinal and Pharmaceutical Chemistry, pharmaceutics, Pharmacology, Pharmacognosy, Microbiology, Biochemistry and Pharmaceutical Engineering. Faculties from different expertise joined the institute since then and glorified Pharmaceutical Technology Department of JU. They all are trusted lieutenant of Prof. M. L. Schroff putting Indian pharmacy education on a very robust foundation.





Professor D. K. Ganguly, Prof. B. K. Gupta, Prof. Atin Chakraborty were from pharmacology, pharmaceuticals and microbiology department respectively. Prof. D. K. Ganguly stayed in the department for a very short span from December, 1965 to August, 1969. During this time, Prof. Ganguly authored in many reputed journals from springer, Elsevier and many more. Professor B. K. Gupta served the department in JU from February, 1964 to April, 1999. He also acted as former President of West Bengal Pharmacy Council, Executive Member of Pharmacy Council of India, New Delhi and Prof. Gupta was also involved with other pharmacy institutes.

Pharmaceutical Technology Department of Jadavpur University got another eminent faculty, **Prof. Amarnath Bhaduri**. He ornamented this department from July, 1966 to January, 1986. He was an Indian molecular enzymologist and chemical biologist. His most mentioned work was UDP-glucose 4-epimerase and work on *Leishmania donovani*, the protozoal pathogen for Kala-azar. He also acted as director of IICB and was selected as fellow of Indian National Science Academy and Indian Academy of Sciences. Prof. Amarnath Bhaduri received most prestigious Shanti Swarup Bhatnagar Prize for Science and Technology which was sponsored by Council of Scientific and Industrial Research in 1979. He was born on 12th November, 1935 in Kolkata and pursued his college studies from Presidency College and Calcutta University. He did his postdoctoral studies from Harvard Medical School and after returning back to India, he joined pharmacy department of JU. He worked here still he moved to IICB as a director. When he died on 5th June, 2003 in Kolkata, he was serving as an honorary professor in Jadavpur University.

Other eminent faculties from pharmacy department were Prof. S. K. Datta, Prof. P. K. Lala, Prof. (Mrs.) M. Pal, Prof. A. U. De, Prof. C Sengupta, Prof. A. N. Chakrabarty, Prof. A. Nandy, Prof. B. P. Saha, Prof. S. K. Ghosal, Prof. M Gupta, Prof. S. K. Mondal, Prof. (Mrs.) S Ghoshdastidar, Prof. S. C. Lahiri, Prof. I. C. Bhattacharya, Prof. A. K. Nag Chowdhury, Prof. S. P. Pal, Prof. A. Nanda, Prof. S. K. Basu, Prof. U. K. Mazumdar, Prof. J. K. Gupta, Prof. A. k. Bandopadhyay, Prof. B. Sa, Prof. M. Chatterjee, Prof. T. K. Pal, Prof. T. K. Chatterjee and Prof. T. Sen.



ABOUT THE DEPARTMENT

The Department of Pharmaceutical Technology was established in the year 1963, as the only one of its kind in Eastern India at that time. Currently, it is one of the pioneer institutions in Pharmaceutical education in India. It is centrally located and well-connected by road, rail and air. This Department was set up with a vision to create and disseminate knowledge for producing quality health care professionals with global standard. Now, it has well equipped student and research laboratories with modern and sophisticated analytical as well as production instruments and equipment. The department has been organizing workshops, seminars, and special invited lectures with the participation of experts from the field of academic institutions, research institutions, industries and regulatory authorities. The Department of Pharmaceutical Technology has extensive collaborations with several research grants from various funding agencies and consulting projects. It has built up excellent infrastructure and 'State of Art' facilities that empower the development of students in academia and research. The Department of Pharmaceutical Technology is continuously receiving several research grants from various central government funding agencies such as University Grants Commission (UGC), All India Council for Technical Education (AICTE), Department of Science and Technology (DST), Department of Biotechnology (DBT), Council of Scientific and Industrial Research (CSIR), Indian Council of Medical Research (ICMR) and state funding bodies. A good number of research scholars and scientists are currently working under UGC, DST, AICTE, CSIR, ICMR, DBT and other funding agency programmes. The Department has also built up strong collaborations with numerous reputed institutes in India and abroad to execute good quality research. A good number of teachers have associated themselves with innovative work in this regard.

VISION

- ❖ To become an eminent institute by providing state of the art pharmaceutical education and research to improve modern healthcare needs and technological aspects of industries.

MISSION

- ❖ Inspiring young minds through innovative educational experiences in Pharmaceutical Technology.
- ❖ Advancing scientific knowledge embedded with contemporary knowledge and technical skills across the different fields of Pharmaceutical Technology.
- ❖ Building and nurturing the relationships with different members of the field including the experts in the industry and regulatory bodies to meet the existing regional and global pharmaceutical needs.
- ❖ Promoting the entrepreneurial spirit among the U.G., P.G. and research Scholars to be the next generation leaders to establish different pharmaceutical industries and to improve further the pharmaceutical education and research.
- ❖ Promoting innovative research in pharmaceutical technology by collaborating with national and international universities and industries in Pharmacy.
- ❖ Taking up technological challenges of the State, Nation and beyond for ensuring social security and sustainable development.



COURSES OFFERED

- ❖ B.Pharm. (4 years degree course): Intake 70
- ❖ M.Pharm. (2 years degree course): Intake 34 in 2021 (Pharmaceutics - 12, Pharmaceutical Chemistry - 12, Pharmacology - 4, Pharmacognosy - 4, Pharmaceutical Biotechnology - 2)
- ❖ Ph.D. (Pharmacy)

ADMISSION PROCEDURE

a) Bachelor of Pharmacy (B. Pharm.)

Candidates who have passed the Higher Secondary (10+2) Examination in General Stream of West Bengal Council of Higher Secondary Education or any other equivalent examination of a University/Board with Physics, Chemistry, Mathematics and English are eligible for provisional admission to the First Year Class of the Undergraduate Engg/Tech/Arch/ Pharm courses. Provisional admission will be made on the basis of the Provisional Admission Letter for seat of Jadavpur University issued by the WB-JEEB for Admission to Engineering, Medical/Technological Degree provided that the candidate satisfies the prescribed following medical fitness (except for candidates applying under Physically Challenged quota).

- ❖ The candidates MUST have been allotted a seat of Jadavpur University through counselling of West Bengal Joint Entrance Examination by the West Bengal Joint Entrance Examination Board (WBJEEB) and MUST have paid the requisite seat acceptance fees at WBJEEB
- ❖ The candidates must pass Higher Secondary (10+2) Examination in science stream in regular class mode of West Bengal Council of Higher Secondary Examination or equivalent examination from a recognised Council/Board with
 - a) Individual pass mark in Physics, Chemistry and Mathematics as compulsory subjects.
 - b) Minimum of 60% marks in above subjects taken together (45% for SC, ST, OBC-A, OBCB, PwD candidates)
 - c) Having 60% marks in Mathematics (45% for SC, ST, OBC-A, OBC-B, PwD candidates)
 - d) Pass marks in English with a minimum marks 30% (for all category of candidates)
- ❖ As far as the medical fitness is concerned, the students should not have any physical deformity or infirmity and should not be suffering from any disease or illness that might incapacitate him/her in future.
- ❖ Eye-sight standard – myopia or myopic astigmatism with correcting lens not exceeding 8.00 and should not be colour blind for admission to Architecture, Chemical, Civil, Metallurgy, Pharmacy and Printing Engineering courses.
- ❖ Medical certificate conforming to the mentioned standard is to be taken from a registered medical practitioner.

b) Master of Pharmacy (M. Pharm.)

As far as the M. Pharm. degree is concerned, Jadavpur University offers M. Pharm. degree with specialization in 6 categories presently

- I. Pharmaceutical Chemistry
- II. Pharmaceutics
- III. Pharmacology
- IV. Pharmacognosy
- V. Pharmaceutical Biotechnology
- VI. Industrial Pharmacy

Candidates having a B. Pharm. degree are eligible to apply for M. Pharm. admission. Selection will be based upon GPAT score only and will follow the regulations set out in the admission information brochure.



Consolidated merit lists will be prepared on the basis of GATE score .

Eligible applicants will be considered for allotment according to merit. A candidate will be allotted a seat to the highest possible programme of his/her choice, if vacancy exists. Selection for a branch will automatically mean admission to that course and the applicant will not have any scope of not accepting that or reverting back to his earlier admitted seat, if any. At the closing of the round, a programme-wise list of admitted students will be published.

Admissions to these programmes of the Institute are open under the following categories –

- i) Candidate qualified through GPAT and having a valid GPAT score in terms of the validity period and the cut-off marks in the candidate's respective reservation category, if any. Award of scholarships for GPAT qualified candidates is not the responsibility of the University. The candidates with valid GPAT score, who will be admitted to a programme duly approved by the concerned authority, are to apply for the scholarship directly to the concerned regulatory authority, when notified for doing so and will start to enjoy the scholarship directly from the authority if sanctioned by the respective authority.
- ii) Sponsored for in-service professionals with a minimum experience, as stipulated in the eligibility condition, after passing the qualifying degree and duly sponsored by his/her employer.

EDUCATIONAL OBJECTIVES

To teach and help assimilate theoretical knowledge and practical/laboratory skills in several fields of Pharmaceutical Sciences/Technology namely

- a) Pharmaceutical Chemistry
- b) Pharmaceutics
- c) Pharmacology
- d) Pharmacognosy
- e) Pharmaceutical Biotechnology
- f) Industrial Pharmacy





TRAINING AND PLACEMENT CELL ,JU

JU has been a world class university and has acquired this status through meritorious and innovative students, dedicated and highly qualified faculty members and contribution by Alumni. There are a large number of organizations with whom we enjoy lasting and fruitful relationship and our vision is to convert all our recruiters into partners, where we will be sensitive about the mutual needs and value delivery. The University has a large pool of talent to recruit from, with a wide range of courses being offered at UG and PG levels. At present in the engineering faculty, we have 17 departments at UG level and 57 specializations at PG level. There are another 20 departments in Science and Arts faculties. Around 100 organizations have participated in the campus drive in the current session. Over the years, our university has become one of the preferred choices for campus recruitment drive by all leading organizations.

OUR RECRUITING COMPANIES



and
many
more

YEAR	2017-18	2018-19	2019-2020
No of students appeared for campus interview	49	48	34
Percentage placed	90%	83%	76%



Various Divisions in Dept. of Pharm. Tech.



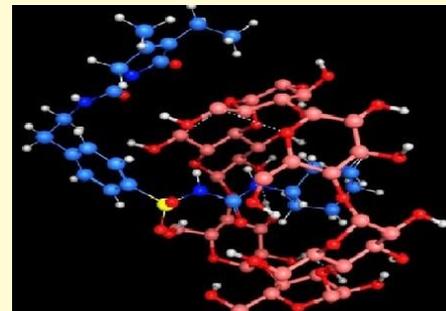
Division of Pharmaceutical Chemistry

a) Faculty

1. Prof. Tarun Jha
2. Prof. Tapan Kumar Maity
3. Prof. Pulkot Mukherjee
4. Prof. Kunal Roy
5. Dr. Probir Kumar Ojha
6. Dr. Nilanjan Adhikari
7. Dr. Shovanlal Gayen

b) Key research Areas

“Cheminformatics & QSAR Molecular Modelling”, “Synthetic Chemistry”, “Natural Products and Drug Discovery”, “Anticancer Drug Design”



Division of Pharmaceutics

a) Faculty

1. Prof. Lakshmi Kanta Ghosh
2. Prof. Biswajit Mukherjee
3. Dr. Tapan Kumar Giri
4. Dr. Ketousetuo Kuotsu
5. Dr. Manas Bhowmik
6. Dr. Kajal Ghosal
7. Mr. Kaushik Mukherjee

b) Key research Areas

“Novel drug delivery system”, “Nanomedicine”, “Formulation Development”

Division of Pharmacology

a) Faculty

1. Prof. Sanmoy Karmakar
2. Prof. Pallab Kanti Halder

b) Key research Areas

“Molecular Pharmacology”, “Cancer Biology”



(Source : unsplash.com)

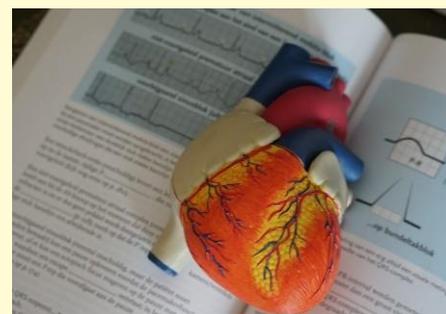
Division of Pharmacognosy

a) Faculty

1. Prof. Subhash Chandra Mandal
2. Dr. Saikat Dewanjee

b) Key research Areas

“Natural Product and Drug Discovery”, “Phytochemistry”



(Source : unsplash.com)

Division of Pharmaceutical Biotechnology

a) Faculty

1. Prof. Tanmoy Bera
2. Prof. Amalesh Samanta

b) Key research Areas

“Biomaterials & Nanomedicine”, “Microbiology & Tissue Engineering”

Division of Industrial Pharmacy

a) Faculty

1. Prof. Jasmina Khanam

b) Key research Areas

“Nanotechnology and Formulation Development”, “Nanomedicine”

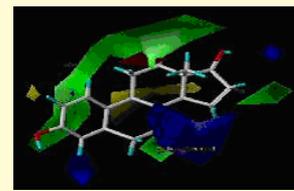


(Source : unsplash.com)



Thrust Areas

- ❖ Cheminformatics & QSAR Molecular Modelling
- ❖ Synthetic & Natural products Chemistry
- ❖ Novel drug delivery system
- ❖ Formulation Development
- ❖ Nanomedicine
- ❖ Cancer Biology
- ❖ Microbiology & Tissue Engineering
- ❖ Molecular Pharmacology
- ❖ Biomaterials & Nanomedicine



Laboratories

- ❖ Pharmaceutical Chemistry & Natural products Laboratory
- ❖ Synthetic & Analytical Chemistry Laboratory
- ❖ Pharmaceutical Engineering Laboratory
- ❖ Pharmaceutics Research Laboratory
- ❖ Microbiology Laboratory
- ❖ Pharmacology Laboratory
- ❖ Pharmacognosy Laboratory
- ❖ Biochemistry Laboratory



Instruments/Equipments Available

- ❖ Auto Dissolution Apparatus
- ❖ Auto analyzer
- ❖ Binocular Microscope
- ❖ Bio-Rad Gel Electrophoresis
- ❖ CO₂ INCUBATOR
- ❖ Cold Centrifuge
- ❖ FTIR
- ❖ Flow cytometer
- ❖ Lyophilizer
- ❖ Micro ultracentrifuge CS150FNX
- ❖ Micro-Synthesis Station
- ❖ MULTISCAN GO Thermo Fisher
- ❖ Olympus Fluorescence Microscope (Inverted & Upright)
- ❖ Phase Contrast microscope
- ❖ Vacuum Dryer
- ❖ Gel Doc Bio-Rad
- ❖ Gel Doc Apparatus
- ❖ Gene Sequencer
- ❖ HPLC
- ❖ ITBS100 Integrated Tissue Bath System & ECG
- ❖ LCMS-MS
- ❖ LCMSMSQTOF
- ❖ Low pressure liquid chromatography for proteins
- ❖ Porosity testers
- ❖ Real Time PCR System
- ❖ Rotary Vacuum Evaporator
- ❖ Shaking BOD Incubator
- ❖ UV Spectrophotometer
- ❖ Zetasizer



Library

The department has well- organized library having approximately 6926 books covering various areas. Several high impact international journals of different reputed publishing houses (American Chemical Society, Elsevier, Wiley- Blackwell, Bentham Science Publishers, Springer, Taylor and Francis etc.) are subscribed through online. Some following journals are also been subscribed as hard copies.

- ❖ Journal of Pharmaceutical sciences (Wiley-Blackwell)
- ❖ Phytochemical Analysis (Wiley-Blackwell)
- ❖ Journal of Medicinal Chemistry (ACS)
- ❖ Drug Development & Industrial Pharmacy (Taylor & Francis)
- ❖ Indian Journal of Traditional Knowledge (NISCARE)
- ❖ Indian Journal of Natural Products (Society of Pharmacognosy)
- ❖ Indian Journal of Biotechnology (NISCARE)
- ❖ Indian Journal of Pharmaceutical Education & Research (APTI)
- ❖ Journal of Biosciences (Indian Academy of Sciences)
- ❖ Indian Journal of Biochemistry & Biophysics (NISCARE)





Photo Gallery : Faculty

Dr. Kunal Roy

Ph. D (Pharmacy)

Professor &HOD

Experience (Year): 26

Specialization: Pharmaceutical Chemistry

Research area: QSAR &Molecular Modeling

h-index: 43(Scopus), 51 (Google Scholar)



Dr. Tarun Jha

Ph. D (Pharmacy)

Professor

Experience (Year): 35

Specialization: Pharmaceutical Chemistry

Research area: Anticancer Drug Design &Discovery

h-index: 25(Scopus), 29 (Google Scholar)

Dr. Lakshmi Kanta Ghosh

Ph. D (Pharmacy)

Professor

Experience (Year): 29

Specialization: Pharmaceutics

Research area: Novel Drug Delivery Systems

h-index: 13(Scopus), —



Dr. Tanmoy Bera

Ph. D (Pharmacy)

Professor

Experience (Year): 29

Specialization: Biochemistry

Research area: Nanomedicines

h-index: 14(Scopus), 20 (Google Scholar)

Dr. Tapan Kumar Maity

Ph. D (Pharmacy)

Professor

Experience (Year): 29

Specialization: Pharmaceutical Chemistry

Research area: Synthetic &Natural Product Research

h-index: 14(Scopus), 21 (Google Scholar)



Dr. Biswajit Mukherjee

Ph. D (Pharmacy)

Professor

Experience (Year): 27

Specialization: Pharmaceutics

Research area: Drugtargeting &Antisense Therapeutics

h-index: 23(Scopus), 29 (Google Scholar)

Dr. Jasmina Khanam

Ph. D (Pharmacy)

Professor

Experience (Year): 30

Specialization: Pharmaceutical Engineering

Research area: Dosage Form Design

h-index: 16(Scopus), —



Dr. Subhash C. Mandal

Ph. D (Pharmacy)

Professor

Experience (Year): 24

Specialization: Pharmacognosy

Research area: Traditional Medicine &Drug Discovery

h-index: 37(Scopus), —

Dr. Pulok Kumar Mukherjee

Ph. D (Pharmacy)

Professor (On lien)

Experience (Year): 26

Specialization: Pharmaceutical Chemistry

Research area: Natural Product Studies

h-index: 47(Scopus), 67 (Google Scholar)



Dr. Sanmoy Karmakar

Ph. D (Pharmacy)

Professor

Experience (Year): 22

Specialization: Pharmacology

Research area: Cardiovascular &Toxicology

h-index: 14(Scopus), 16 (Google Scholar)



Photo Gallery : Faculty

Dr. Amalesh Samanta

Ph. D (Pharmacy)

Professor

Experience (Year): 31

Specialization: Pharmaceutical Microbiology

Research area: Drug Delivery & Tissue Engineering

h-index: 15(Scopus), 20 (Google Scholar)



Dr. Pallab Kanti Haldar

Ph. D (Pharmacy)

Professor

Experience (Year): 20

Specialization: Pharmacology

Research area: Phytotherapy and Pharmacology

h-index: 20(Scopus), —



Dr. Saikat Dewanjee

Ph. D (Pharmacy)

Associate Professor

Experience (Year): 14

Specialization: Pharmacognosy

Research area: Discovery of lead & Toxicity

h-index: 24(Scopus), 33 (Google Scholar)



Dr. Tapan Kumar Giri

Ph. D (Pharmacy)

Associate Professor

Experience (Year): 20

Specialization: Pharmaceutics

Research area: Novel Drug Delivery Systems

h-index: 18(Scopus), 23 (Google Scholar)



Dr. Probir Kumar Ojha

Ph. D (Pharmacy)

Associate Professor

Experience (Year): 10

Specialization: Pharmaceutical Chemistry

Research area: QSAR & Molecular Modeling

h-index: 16(Scopus), 17 (Google Scholar)



Dr. Ketousetuo Kuotsu

Ph. D (Pharmacy)

Assistant Professor

Experience (Year): 13

Specialization: Pharmaceutics

Research area: Novel Drug Delivery Systems

h-index: 9(Scopus), 12 (Google Scholar)



Dr. Shovanlal Gayen

Ph. D (Pharmacy)

Assistant Professor

Experience (Year): 11

Specialization: Pharmaceutical Chemistry

Research area: Drug Design and Discovery

h-index: 22(Scopus), 24 (Google Scholar)



Dr. Kajal Ghosal

Ph. D (Pharmacy)

Assistant Professor

Experience (Year): 15

Specialization: Pharmaceutical Engineering

Research area: Novel Drug Delivery Systems

h-index: 11(Scopus), 13 (Google Scholar)



Dr. Manas Bhowmik

Ph. D (Pharmacy)

Assistant Professor

Experience (Year): 11

Specialization: Pharmaceutics

Research area: Formulation Development

h-index: 14(Scopus), 16 (Google Scholar)



Dr. Nilanjan Adhikari

Ph. D (Pharmacy)

Assistant Professor

Experience (Year): 12

Specialization: Pharmaceutical Chemistry

Research area: QSAR & Molecular Modeling

h-index: 21(Scopus), 22 (Google Scholar)





Photo Gallery : Faculty

Mr. Kaushik Mukherjee
M.Pharm.

Assistant Professor

Experience (Year): 5

Specialization: Pharmaceutics

Research area: Novel Drug Delivery Systems

h-index: 2(Scopus), —



Photo Gallery : Campus





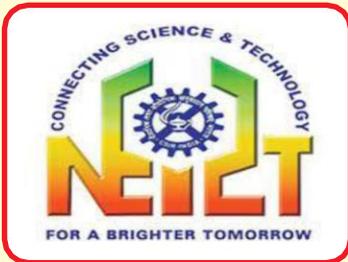
Research Collaborations



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Research Collaborations



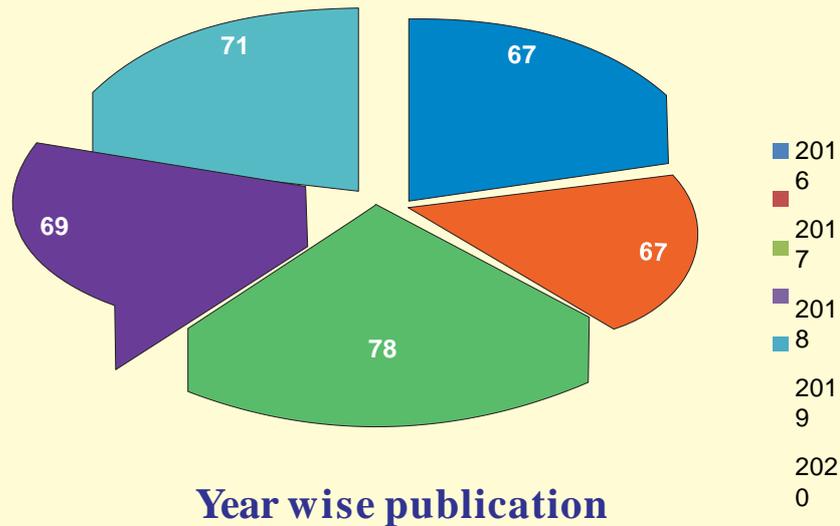
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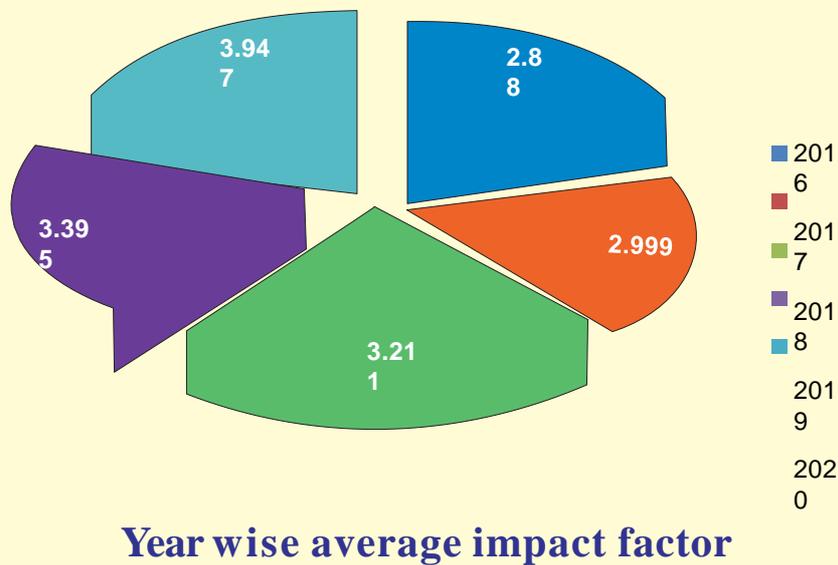


Publication: Research Journal (2016-2020)

No. of Publications : 352

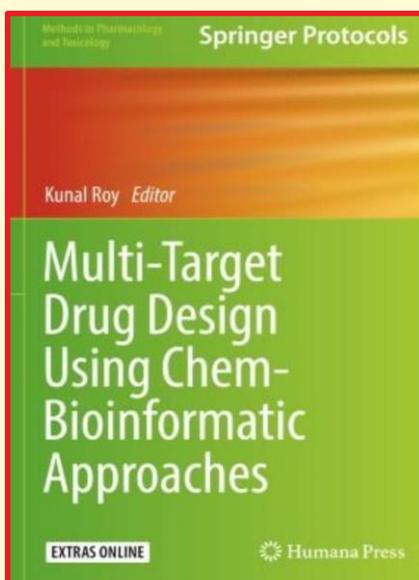
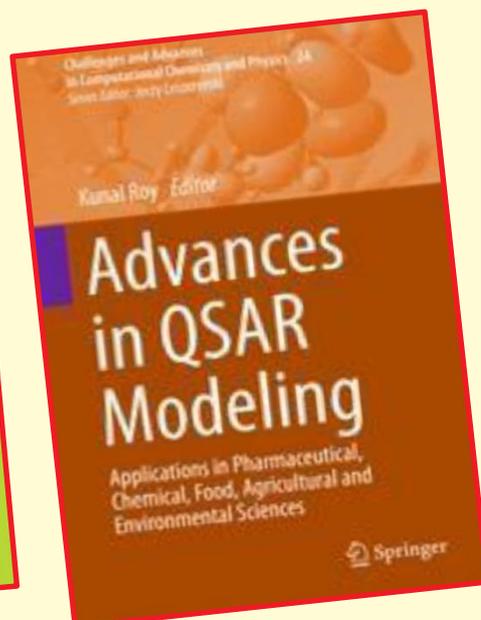
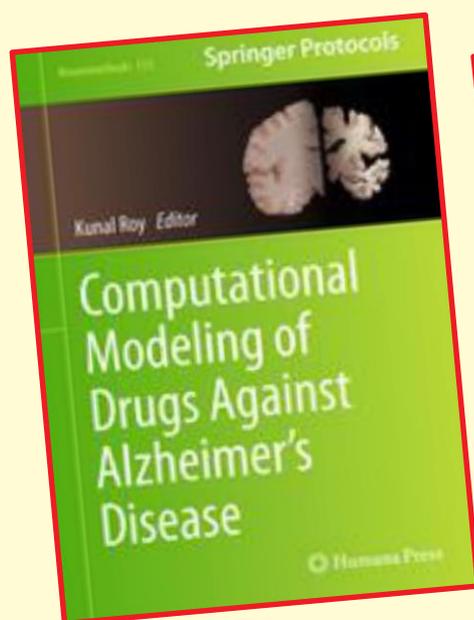
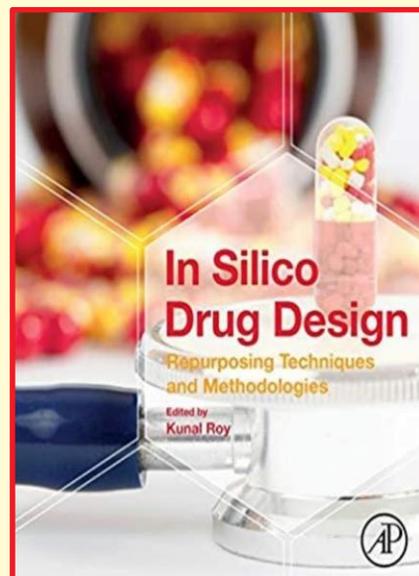
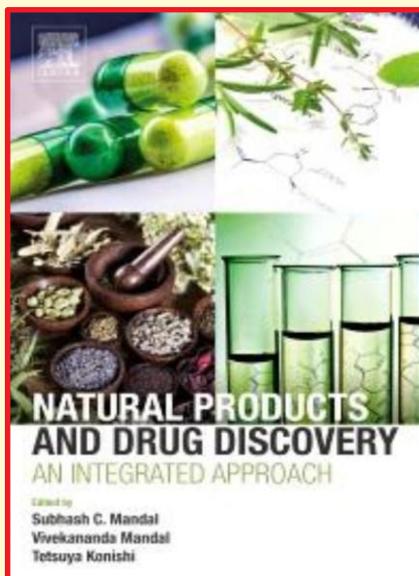


Average Impact Factor : 3.286





Publication: Edited Books (6 nos.) (2016-2020)





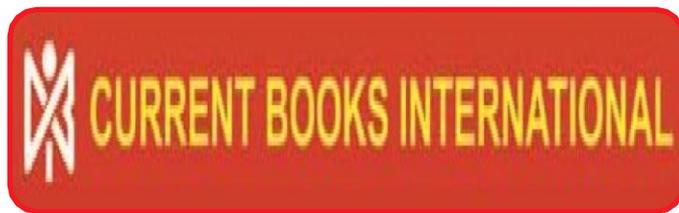
Publication: Book Chapters (60 nos.)
(2016-2020)



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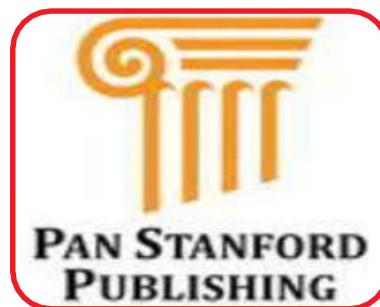
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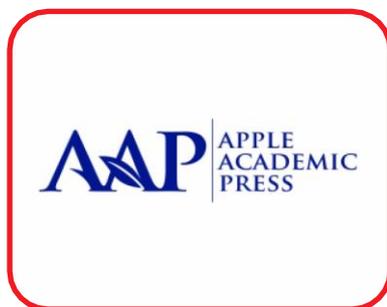
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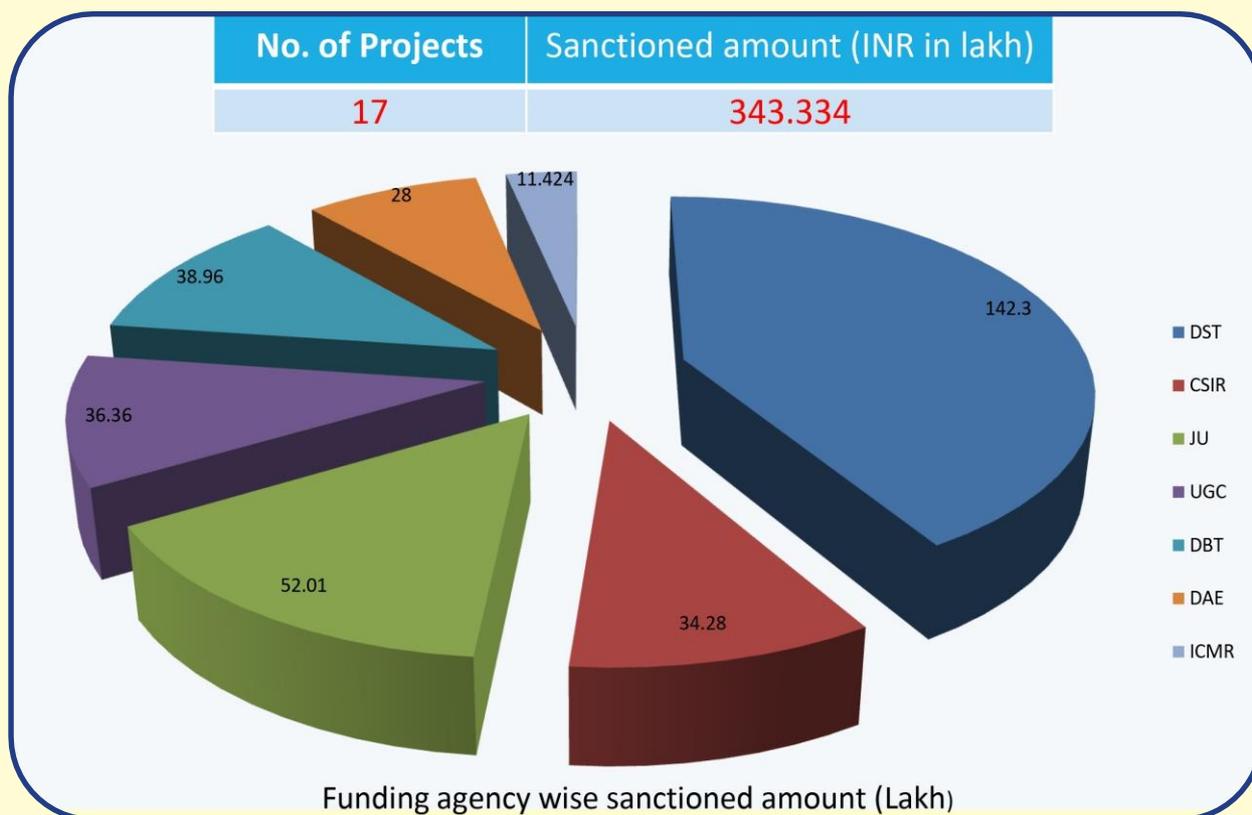
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Research Projects: Completed (2016-2020)



Prof.K.Roy

In silico modeling of property toxicity activity of nano materials using chemometric tools (CSIR; 2017-2020).

Prof.K.Roy

Application of QSARs for the design of PET and SPECT imaging agents (DAE BRNS; 2018-2020).

Dr. S.Dewanjee

Strategies for dereplication of novel anti-diabetic leads from Myricaesculanta Myricaceae A Sikkim himalayan medicinal plant (CSIR; 2017-2020).

Prof. T.K.Maity

Design Microwave assisted synthesis Molecular Docking and Evaluation of Anticancer and Antibacterial Activity of Hybrid Thiadiazole Derivatives (RUSA-II; 2019-2020).

Prof. T.K.Maity

Synthesis Characterization and Evaluation of Anticancer Activity of Some Novel Pyrimidine Derivatives (UPE-II; 2016-2019).



Research Projects: Completed (2016-2020)



Prof. A. Samanta Natural Product and Drug Delivery

(UPE-II; 2016-2019).

Prof. A. Samanta

Designing of Campecitafine Loaded Gum Odina-Alginate Based Microsphere for colon Cancer Management (RUSA; 2019-2020).

Prof. B. Mukherjee

Nanoparticle based apigenin delivery intended to control hepatocellular carcinoma (DST; 2013-2018).

Prof. B. Mukherjee

Development of Paclitaxel loaded PLGA nanoparticles directed against liver cancer (UPE-II; 2013-2016).

Prof. B. Mukherjee

Targeted delivery of Doxorubicin to Breast cancer cells by using Antibody conjugated nanoparticles as Drug carrier (ICMR; 2013-2018).

Prof. B. Mukherjee

Development of Apigenin loaded nanoliposomes (Govt. of West Bengal; 2016-2018).

Prof. B. Mukherjee

Design and development of Galactosamine conjugated biodegradable nanoparticles containing Paclitaxel for specific distribution of drugs in the hepatocellular carcinoma (DST PURSE II; 2016-2018)

Dr. K. Kuotsu

Design, Development and Characterization of Colon Targeted Oral Anticancer Drug Delivery System, Modulation with Poly-L-lysine (RUSA-II; 2019-2020).

Prof. P. K. Haldar

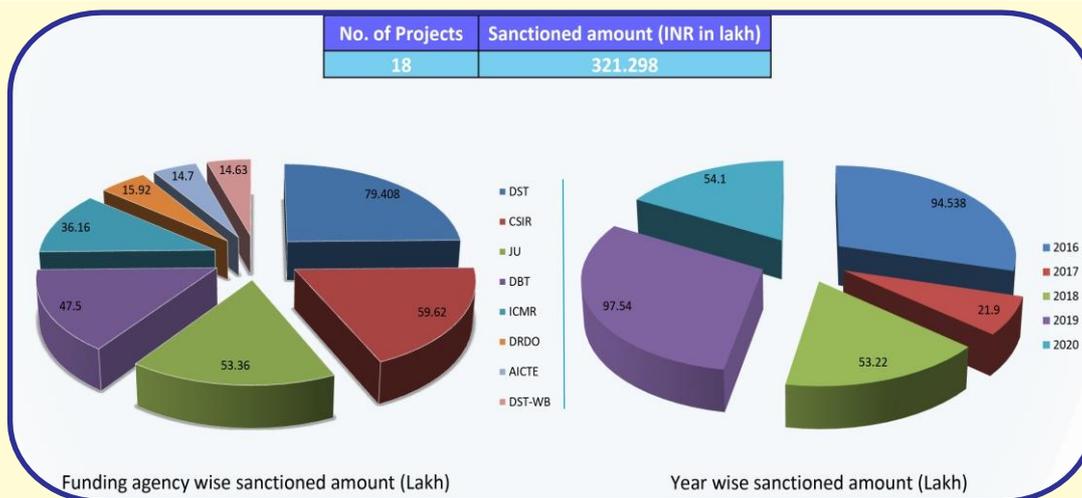
Induction of Apoptosis: Target for Cancer treatment from natural sources (DST SERB; 2013-2016).

Prof. S. C. Mandal

Chemical Profiling of Joha and Black rice of NER for Nutritional, Nutraceutical Parameters and Aromatic Compounds (DBT; 2016-2019).



Research Projects: Ongoing (2016-2020)



Prof. K. Roy

Development of a novel workflow of Quantitative Read-Across QRA analysis for application as a non testing method in regulatory toxicology (DST-SERB;2020-2022).

Dr.SouvikDey (Ramalingaswamy Fellow)

Regulatory roles of Glycogen Synthase Kinase and Calcineuria in mammalian sperm physiology: development of potential male contraceptive (DBT;2020-2025).

Prof.A. Samanta

Fabrication and Characterization of Natural Polysaccharide Based Bioerodible Localized Spongy Scaffold: A New Advanced Wound Care Tool (DRDO-LSRB;2018-2021)

Prof. P.K.Haldar

Studies on anti-SARS-CoV-2 activity of selected medicinal plants and formulations in cell culture model of virus (DBT-AYUSH;2020-2023).

Prof. P.K.Haldar Zebrafish: Model for drug development (RUSA-II;2019-2022)

Prof. P.K.Haldar

In vitro and in vivo screening of phytoconstituent against streptozotocin induced metabolic disorder (DST-West Bengal; 2016-2021).

Prof. P.K.Haldar

Strategies for dereplication of novel antidiabetic leads from Myricaesculenta (Myricaceae): A Sikkim Himalayan Medicinal Plant (CSIR;2016-2021).

Prof.S. Karmakar

Micro Organic decomposer in BiotoiletA sustainable development initiative in Indian Scenario (RUSA-II; 2019-2022).

Prof.S. Karmakar

Investigating combinations of Indian Medicinal Plant Isolates for Human Histamine Receptor Type-I Suppression -With a focus on Management of allergy (RUSA-II; 2019-2020)

Prof.S. Karmakar

Medicinal Plants of Cucurbitaceae family –Metabolomic study and Therapeutic Evaluation (DST-SERB;2016-2021).

Prof. T.Jha

Design and experimental validation of some derivatives and analogs of isoglutamineas dual inhibitors of matrix metlloproteinase MMP and histone deacetylase HDAC by synthesis and biological evaluation to get some useful anticancer agents (RUSA-II;2019-2020).



Patent

Gum Odina As New Pharmaceutical Excipients

Application No: 00061/KOL/2006A; dated: 20.01.2006

International classification: A61K 9/00, 9/20.

Biswajit Mukherjee & Amalesh Samanta [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India]

Isolation of Phytoconstituents from Bombaxceiba

Patent No-304196, 2018

Subhash C Mandal [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India], **Emdad Hossain** (College of Pharmacy, Azamgarh, UP) and **JK Gupta (JU)** [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India]

Process and carrier for targeting drugs/diagnostics of peripheral and central nervous system.

Application No: 201731033454; Dated: 20.10.2017

(Published on 20.10.2017)

Mukherjee Biswajit, Sengupta Soma, Paul Paramita, [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India]

AMicrowave Assisted Process for Extraction of Total Phenolic Antioxidants from plant material

Patent No-290354, 2017

Subhash CMandal [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India], **VMandal** (Guru Ghasidas University) and **AKDas** (Assam University)

Design, synthesis and amino acid composition of fullerene based peptidomimetics against leukemia and ovarian cancer

201611004953 A, 12/02.201633/2017,

18/08/2017

Dr. K. Nagarajan [KIET School of Pharmacy, KITE Institute, Ghaziabad 201206, UP, India], **Parul Grover, Mayuri Mishra, Dr. Vinayak Kumar, Dr. L. K. Ghosh** [Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India]

Two novel triterpenoid isolated from Terminalia arjuna

Ref.No. E-2/527/2012-KOL

Prof. Pallab Kanti Haldar [Department of Pharmaceutical Technology, Jadavpur University]



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Pharmacy Council of India



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