



9<sup>th</sup>  
**Annual**  
**Day Report**  
**2014**

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**A**  
**B**  
**I**  
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**A**

# Annual Report 2013-2014 Curricular Report

## Teaching

Teaching activity of ARIBAS is strengthened by declaring 11am to 5:30 pm as teaching hour and shifting all other activity in 9:30 to 11 am thus stopping rescheduling of classes and practicals. 9:30 to 11 am is also being utilized for student teacher interaction for research activity.

## Five years Integrated Biotechnology

ARIBAS is offering five and half year course in M.Sc. Integrated Biotechnology after 12<sup>th</sup> Science.

## Admission

This year 215 applications were received from which 86 students finally enrolled themselves in this course.

## Result

In 2013 examination results of all the students in all semesters was 100 %. There are few students who have not cleared one or more paper but they all are promoted to the next semester in the course. Students coming from Gujarati medium schools have difficulties in initial semesters. However it is apparent from the table that tireless effort of faculty members through remedial and tutorial classes they improve in sub sequent semesters.

| 2013-14          |                          |   |                                |                        |
|------------------|--------------------------|---|--------------------------------|------------------------|
| Examination      | No. of Students appeared | No. of Students promoted to next semester | No. of Students with NC status | % of students Promoted |
| M. Sc. IGBT-I    | 85                       | 85  | 31                             | 100%                   |
| M. Sc. IGBT-II   | 102                      | 102                                       | 18                             | 100%                   |
| M. Sc. IGBT-III  | 96                       | 89  | 10                             | 93%                    |
| M. Sc. IGBT-IV   | 84                       | 84  | 8                              | 100%                   |
| M. Sc. IGBT-V    | 83                       | 78  | 3                              | 94%                    |
| M. Sc. IGBT-VI   | 87                       | 87  | 1                              | 100%                   |
| M. Sc. IGBT-VII  | 87                       | 87  | 4                              | 100%                   |
| M. Sc. IGBT-VIII | 92                       | 92  | 1                              | 100%                   |
| M. Sc. IG-GBT-IX | 92                       | 92  | -                              | 100%                   |
| M. Sc. IG-GBT-X  | 122                      | 122                                       | -                              | 100%                   |
| M. Sc. IG-GBT-XI | 122                      | 122                                       | -                              | 100%                   |

## Dissertation

As per CVM's Hon'ble Chairman's instruction ARIBAS offers dissertation to all the final semester students. Though institute insists for in-house dissertation,

few students preferred to take their project in other national institute and research organization.

This year there were 122 students in final semester out of which 78 students preferred in-house dissertation where as 44 students done their project in other institute and research organization.

### ***Glimpses of Dissertation***

#### **Ragibase**

RagiBase is manually curated knowledgebase intended for researchers. It contains protein and nucleotide sequences, A paper entitled "Curation of genome data of neglected indigenous crop Finger millet (*Eleusine coracana*)" in "Plant Genome Evolution-2013" organized by Elsevier Ltd. (UK), an international conference at Amsterdam in Sep, 2013. The work is done in ARIBAS as a part of platform work of the submitted project to Indo-Swiss Collaboration in Biotechnology (ISCB).

#### **Effect of magnetism in seed germination**

One of our students got remarkable result by studying the effect of magnetism on seed germination and has a potential for commercialization. The work presented orally in "Science excellence" symposium arranged by Gujarat Science congress and received second prize.

#### **Plastic degradation**

The team of researchers under at ARIBAS identified one bacteria belonging to the family of Micrococcaceae, Gram positive bacteria and two bacteria belonging to the Enterobacterceae family that decomposed three different types of plastics. Chairman CVM appreciated the work by awarding the team leader by giving an extra increment.

#### ***National Competitive exam for PhD***

It is a matter of great pride for ARIBAS that students studying in M. Sc. Integrated Biotechnology course have achieved a grand success in UGC-CSIR-NET examination held during 2013.

Mr. Jay Rangani, IGBT-SEM-IX achieved 36<sup>th</sup> in Lectureship.

Mr. Jaydeep Bhadrakiya, IGBT-SEM-XI who cleared this exam twice for successive year 2012 & 2013 attained 39th AIR as JRF

Mr. Sachin Vyas, IGBT-SEM-XI secured 42nd AIR in Lectureship.

#### ***Placement in National Institute for PhD***

Mr. Jaydeep Bhadrakiya, IGBT-SEM-XI has been successful in thorough screening of interview and group discussion and got selected for Ph.D. at Center for Cell and Molecular Biology (CCMB), Hyderabad.

Mr. Sachin Vyas, Ms. Aakruti Shah and Mr. Joel Christie IGBT-SEM-XI of Industrial Biotechnology has qualified a entrance test of Tata Institute of Fundamental Research (TIFR), Mumbai and will soon be appearing for an interview in 10 leading research institute.

### ***Placement in Company***

25 students were offered job in R and D section at various Pharmaceuticals and biotech companies.

### **Two years MSc. Courses**

ARIBAS is offering two years course in M.Sc. Microbiology, Biotechnology, Genetics and Pharmaceutical Chemistry after Bachelor degree.

### ***Admission***

This year 50 applications were received from which 17 students finally enrolled themselves in these courses.

### ***Result***

In April 2013 and November 2013 examinations, a result of all the students in even semesters all the four courses was 100 %. There are few students who have not cleared one or more paper but they all are promoted to the next semester in the course.

| <b>2013-2014</b>   |                                 |  |                                       |  |
|--------------------|---------------------------------|--|---------------------------------------|--|
| <b>Examination</b> | <b>No. of Students appeared</b> | <b>No. of Students promoted to next semester</b> | <b>No. of Students with NC status</b> | <b>Percentage of Result of Promoted studetns</b> |
| M.Sc.BT.-I         | 1                               | 1  | -                                     | 100%   |
| M.Sc.BT.-II        | 18                              | 18   | 2                                     | 100%   |
| M.Sc.BT.-III       | 18                              | 18   | 1                                     | 100%   |
| M.Sc.BT.-IV        | 67                              | 67   | 4                                     | 100%   |
|                    |                                 |  |                                       |  |
| M.Sc.G.T.-I        | 3                               | 3  | -                                     | 100%   |
| M.Sc.G.T.-IV       | 21                              | 21   | -                                     | 100%   |
|                    |                                 |  |                                       |  |
| M.Sc.Micro-I       | 3                               | 3  | -                                     | 100%   |
| M.Sc.Micro-II      | 8                               | 8  | 3                                     | 100%   |
| M.Sc.Micro-III     | 9                               | 9  | 3                                     | 100%   |
| M.Sc.Micro-IV      | 9                               | 9  | 2                                     | 100%   |
|                    |                                 |  |                                       |  |
| M.Sc.PCH-I         | 11                              | 11   | -                                     | 100%   |
| M.Sc.PCH-II        | 35                              | 35   | -                                     | 100%   |
| M.Sc.PCH-III       | 35                              | 35   | -                                     | 100%   |
| M.Sc.PCH-IV        | 45                              | 45   | -                                     | 100%   |

### ***Dissertation***

This year there were 142 students in final semester and all of them preferred in-house dissertation.

### ***National fellowship for PhD***

One of the student of Genetics department received prestigious Inspire fellowship for research awarded by DST and another student received Rajiv Gandhi Fellowship for SC/ST for doing PhD. Both of the students joined ARIBAS for doing their PhD.

### ***Placement in Company***

10 students were offered job in R and D section at various Pharmaceuticals and biotech companies.

### ***Wi-Fi extension and smart class***

The institute has set up a Wi-Fi throughout the institute. Students are provided Wi-Fi access on their personal computers during their last two semester where their internet search related to their Dissertation Research is facilitated from anywhere in the institute.

The institute has made available a smart class to the students-C2C Class. It is used to achieve much more than any traditional learning process- learning, to practice what is just learned-Using and after mastering the topic in the course they can teach others what is learnt or become a teaching assistant.

ARIBAS also increased LCD enabled Classroom from two to four and six more is being added.

### ***Teachers evaluation by students and academic audit***

At the end of semester there is a faculty evaluation process by students that is carried out to assess the faculty on certain criteria related to teaching and learning. The students are given feedback questionnaires and are required to fill up details relating every faculty who taught them in the department. The data is collected without revealing the identity of the student. The data is collected, analyzed by the head of the Institution. Faculty members who are feeble in certain areas are guided and counseled to make improvements.

An academic auditing system has been adopted as suggested by Charutar Vidya Mandal. For evaluation of each faculty member for his/her performance during an academic year, uniform point system has been evolved. Credit points are taken in to account while annual performance appraisal of the faculty is done.

## **Research**

The institute is in constant pursuit of developing scientific temperament and research culture amongst the students as well as the faculty members.

## **Digitization of library, N-list, Virtual lab, In-tech**

The institute is in constant pursuit of developing scientific temperament and research culture amongst the students as well as the faculty members. Library of the institute is made digital by connecting it with internet facility and software to keep up with the current trends.

## **OPAC**

Library is connected with internet and has Online Public Access Catalogue (OPAC). Hence faculty and students can check the availability of books in the library using internet.

## **N-LIST**

ARIBAS is registered under N-LIST program, an Initiative of Ministry of Human Resource Development (MHRD) under the National Mission on Education through ICT and have access for the e-resources of 3000+ e-journals and 75000+ e-books through campus wide LAN and Wi-Fi.

## **V-LAB**

Library has been equipped with a **virtual laboratory** link wherein reputed institutes including all IITs of India are participating and offering assistance in conducting a practical online.

## **In-Tech**

Library has also been equipped with **In-Tech** facility. In-Tech is a pioneer and world's largest multidisciplinary open access publisher of books covering the fields of Science, Technology and Medicine. Since 2004, In-Tech has collaborated with more than 86124 authors and published 2351 books and 6 journals with the aim of providing free online access to high-quality research and helping leading academics to make their work visible and accessible to diverse new audiences around the world.

## **e-Library**

The institute has fully computerized e-Library system using D-Space software. It is operational since June 2013. D-Space has total of 577 deposits including 255 articles, 170 books, 104-dissertation thesis, 5 PowerPoint presentations, 41-question paper of various competitive exams and 1 software for bioinformatics. The students can browse for the available e-books, Articles, Dissertation thesis, Presentations, Question Papers and Software by using this system.

### **Support to faculty:**

To strengthen the research activity, faculties are allotted a separate fully furnished laboratory with Internet facility through LAN and Wi-Fi networks and are provided with intercom facility. Faculty can spare time from their practical for guiding research students and monitor their progress.

### **PhD supervisor registration**

The institute has always encouraged faculty members to be eligible to guide Ph.D. students. Till date 8 faculties have recognition as a Ph.D. guide from Sardar Patel University and 20 faculties have applied this year.

### **PhD student admission**

12 Ph.D. students have already been enrolled under various disciplines and this year 8 students have registered.

### **PhD student research report presentation**

We have started presentation of six-month term progress report seminar. Ph.D. student have to present their work progress report before all the faculties and research students.

### **Funding proposal submission**

In 2013 we have submitted extramural funding proposal worth **12 crore** in various international and national funding agencies, proposal were submitted

#### ***International***

Indo-Denmark  
Indo Swiss  
Indo Hungarian

#### ***Inter-Institutional***

Projects were also submitted in collaboration with  
ARIBAS-GCET  
ARIBAS-Ayurveda  
ARIBAS-MBICT  
ARIBAS-CHARUSAT, Changa

#### ***ARIBAS-Industry***

We have also collaborated with industry  
ARIBAS-Xclaris  
ARIBAS- Total potential

### ***Individual***

Quite a few number of individual research projects were also submitted by individual faculty members 12 major research projects and 3 minor research projects were submitted to UGC, two in DST, two in DBT, one in ICMR, five in GSBTM and two in GUJCOST.

Our students have also submitted research projects, one in UNESCO, four in GUJCOST and one in KCG

### **Research Publication and seminar attended**

This year ARIBAS faculty published 83 which is 25% increase as compared to previous year detailed list is enclosed in **Annexure I**.

This year faculties presented their research work in 42 conferences and 11 workshops detailed list is enclosed in **Annexure II**.

11 Dissertation students attended various workshops along with 12 Ph.D. students presented their work in various national and international seminar and conferences detailed list is enclosed in **Annexure III**.

### **Google scholar registration**

All faculty members were registered in Google scholar to track their progress and record of research publication at a glance

### **Industry/Consultancy**

#### **Total potential**

ARIBAS has started collaboration with Baroda based Stem cell research company Total potential and submitted three research proposal to various funding agency like DBT and GSBTM

#### **AMC**

ARIBAS has also started talking of collaborative research on plastic degradation with Ahmadabad Municipality Corporation.



# Extracurricular Report

## National Service Scheme (NSS) club

100 student volunteers have registered for NSS and performed various activities like:

- A campus cleaning event wherein they segregated the collected waste in biodegradable materials which were used for composting and non bio degradable which were deposited at Municipal Corporation
- Tree plantation activities were carried out
- Incited anti tobacco mission in school by educating students about the harm caused by tobacco
- Organized a kite festival for the kids of standard 8 of four schools of Anand and presented them with festivities for celebrating utrayan
- With the help of accounts clerk Ms. Kavita Patel SC/ST scholarship drive reached a new height compared to past few years

2010---Rs. 44,260

2011---Rs. 1,83,300

2012---Rs. 74,127

**2013---Rs. 17,97,000**

## Red Ribbon Club (RRC)

Red Ribbon Club conducts various activities with a motto to spread awareness against AIDS in students. This year they conducted events like:

- Anti-HIV program in Brahmjyot, Central School, Kendriya Vidyalaya, V C Patel School, RPTP School was done on 26<sup>th</sup> and 27<sup>th</sup> of July, 2013 ARIBAS students briefed school students about HIV infection, AIDS and other STDs by audio visual aids.
- Anti-HIV radio talk show was organized to present the views of RRC the month of August 2013 from community radio station (90.4 FM).
- Various competitions related to HIV and AIDS awareness were conducted in GSACS sponsored event COHORT in schools closer to Anand and Nadiad district.
- Website of RRC was designed by Ms. Amrita Shah and her supporting member of RRC club with a motto of compiling all the events that have been organized.
- A proposal was submitted by Ms. Pooja Makwana of IGMBT – X sem in the context of the 8<sup>th</sup> UNESCO Youth Forum on ‘Social empowerment of youth and women awareness with HIV-AIDS and Cancer (SEWA-AC)’ of worth Rs. 60 Lacs.

## Society for Wild life and Nature (SWAN) Club

- Organized “Reptile Education Programme” on Tuesday, 06-08-2013.
- Organized “Sapling Plantation” on Tuesday, 06-08-2013.

- Analyzed water samples from the different ponds of before and after Ganesh Visarjan and published in local news paper as a part of public awareness.
- Organized a survey on “Status, distribution and conservation of Muggers in Charotar, Gujarat” On 14<sup>th</sup> and 15<sup>th</sup> of December, 2013 jointly with Voluntary Nature Conservancy (VNC)
- A workshop was conducted on “Vocational training in Horticulture and Composting” on 17<sup>th</sup> and 18<sup>th</sup> January 2014, wherein 30 participants (farmers) from different villages participated.
- Concept note submitted on “*Water quality maintenance for tribal people of Central Gujarat- Panchmahal and Dahod*” is accepted by Govt. of India and a funding proposal worth 20 lakhs submitted.

## **Gyan Club**

This club looks after for the empowerment of today’s youth by providing them with best and most relevant knowledge by organizing various events like:

- Conducted PDP classes to develop the communication skill and personality of the students
- NET coaching classes are being arranged to guide the higher semester students for various competitive exams.
- To update with recent advances in science, series of invited lectures were arranged by inviting renowned speakers were invited like:
  - Mr. Vipul Chaturvedi, Director, Innovative Eco-care Ltd., Ahmedabad: gave a talk on Municipal Solid-Waste Management
  - Dr. Alpesh Pathak, from, Intas Pharmaceuticals, A’bad talked about IPR
  - Dr. Rajesh Biswas, Chandigarh: who delivered talk on DNA fingerprinting
- Organized Quizzard 2013- a quiz competition on the occasion of teachers day 5<sup>th</sup> September for school students of Anand, Nadiad, Ahmedabad, Vadodra and Kheda district.
- Organized an International virtual Assay/Poster competition on global health and invited participation from schools and colleges.

A talk on “D-Space: Recycling the Digital Trash” was delivered in NAAC sponsored Two day National Seminar on Quality Footprints: Sustainable Development of Higher Education Institutions on 2<sup>nd</sup> & 3<sup>rd</sup> December, 2013 organized by SEMCOM, Vallabh Vidyanagar.

## **Nari Contractor Sports club**

Various sport activities were conducted at the institute under Nari Contractor Sports Club like Chess, Table Tennis, Lawn tennis and Cricket at various levels. For the first time ARIBAS cricket team won runners-up trophy beating all previous year champions cricket organized by Group of Progressive colleges.

## **Bhavai Cultural club (BCC)**

The institute was conducting various cultural activities round the year. All these activities were brought together in a club-formally given a name 'Bhavai Cultural Club' as a mark of respect to famous Gujarati traditional dance-BHAVAI.

- A devotional "Satyanarayan Katha" organized in the institute at the commencement of the academic year.
- Organized and participated in "Young Voter's Festival" as a initiative by election commission, Government of Gujarat
- "Chalo Garbe Ghumie"- a one day navaratri was celebrated with great fanaticism
- The students participated in "Run for Unity" on 15<sup>th</sup> Dec 2013, organized by Government of Gujarat.
- Students also participated in "Udaan 2013" organized by group of progressive colleges and won 9 prizes in different events **Annexure IV**
- Student participated in "Amul volcano-2014" organized by Rotary club Anand and won 4 prizes in different events namely graffiti, cookery show, scene a magic and GK quiz
- Students were participating and will participate in talent evening held after this annual day where in they will present their talents with respect to dance, singing and drama

## **Scientific Club**

Under the auspices of Scientific, number of activities like debates, quiz competitions, exhibitions, lectures, business idea, model making, poster presentation etc. is organized in which students and teachers from various colleges and schools participate. Every year a different theme is selected and all of these programmes and activities are based around that theme. This year scientific:

- Organized a one day orientation course on "Hands on training" program on "Bioinformatics" for Life Science faculties on 29<sup>th</sup> April, 2013 involved in graduate teaching free of cost.
- Organized a one day orientation course on "Hands on training" program on "Chemoinformatics" for Chemical Science faculties on 30<sup>th</sup> April, 2013 involved in graduate teaching free of cost.
- Organized a one day training program on "Basics of Protein Structure and Ramachandran Plot" on 4<sup>th</sup> October, 2013 for M.Sc. Integrated Biotechnology (Industrial Biotechnology) 9<sup>th</sup> Semester Students free of cost.
- To spread the knowledge further, ARIBAS had offered to conduct such program in participant faculties' institutes and committed to provide the technical supports by providing faculties to conduct training. One of participant faculties, Prof. Milind Dange from Government PG Arts and Science College, Ratlam (MP) took initiatives and arranged Hands on Training Program on Bioinformatics for Life Science Faculties of Madyapradesh on 12<sup>th</sup> Nov, 2013 at Ratlam. Two faculties of ARIBAS gave technical

assistance for providing the hands on training to 66 faculties and research students of different colleges in and around Ratlam, (MP).

- Organized a workshop on 'Microbiological Analysis in Pharmaceutical Industry' during 9<sup>th</sup> to 13<sup>th</sup> Sept. 2013 which was financially supported by Charutar Vidya Mandal for the students of M. Sc. Microbiology, Biotechnology and Pharmaceutical Chemistry of ARIBAS

### **Instrument Maintenance Facility (IMF)**

- ARIBAS has successfully created instrument maintenance facility. Three personal were trained in WRIC conducted workshop in Navsari. Autoclaving and distilled water facility is being run centrally in one room only.
- ARIBAS together with Western Regional Instrumentation Centre (WRIC) Mumbai organizes a five day workshop on Maintenance of Opto – Analytical Instruments from 7<sup>th</sup> – 11<sup>th</sup> Oct 2013.
- Under this team's supervision and guidance six technicians of ARIBAS, 22 technicians and students of ADIT, Ayurveda, VP Science, NVPAS, AR college of Pharmacy and ISTAR received training in repair and maintenance of analytical instruments.
- ARIBAS has also extended helping hand to its sister concern. 10 small equipments of IICP are also repaired by ARIBAS Instrument repair facility.
- Spectrophotometer, pH meter, micropipette maintenance training are also conducted for all technicians of ARIBAS by the trained technical staff

### **Women cell**

The institute has a functional Women's Cell, which looks after the matters related to female students/faculties. Events are organized by Women Cell to protest against social insecurity of women.

- A talk on "Women: Foundation pillar of revolutions in today's progressive world" was arranged on the occasion of 102<sup>nd</sup> International Women's day on 8<sup>th</sup> March by Brahmakumari centre, Vallabh Vidyanagar
- Arranged a talk on "Strategies of women empowerment" by Professor Amrapali Merchant, Ex. Vice Chancellor, Dr. Baba Saheb Ambedker University on 16<sup>th</sup> July 2013
- Women cell has attended one day workshop on "Women Awareness Program" organized by Sardar Patel university, Vallabh Vidyanagar on 31<sup>st</sup> August 2013.
- 20 students have applied for Indira Gandhi scholarship for single girl child out of which 13 girl students are awarded with scholarship

### **Placement cell**

- Institute has Career Counseling Cell (C-Cube) for career guidance and placement of students were established this year.

- C-cube has made online registration for the students for placement by various employers wherein 51 students have registered and many more will be registering soon.
- Resume of all the registered students were floated amongst the employers and 7 were offered a job in various industries like Intas Pharmaceuticals, Ahmedabad, Alembic, Vadodara and Lincoln Health care, Ahmedabad.
- C-cube has established a strong network for placement of the students with number of reputed companies like Intas Pharmaceuticals, Sorbead India, Alembic, Vrindi Inc., ICICI Bank, Hetero, Lincon etc.

### **Alumni cell**

- Alumni meet – First Alumni meet was held in ARIBAS auditorium on 6th October 2013. There were near about 200 alumni registered for the same. Alumni from academia, industries, entrepreneur and all students of ARIBAS were invited on the meet. Alumni Office Bearer were elected by alumni during the meet in.
- A panel discussion for present syllabus and requirement of industry academia current need were conducted and suggestion given by alumni were noted for further action.
- Secretary (Mr. Dhaivat Shah) of A-Cube took initiative to increase & smoothened the communication between the ARIBAS and companies for the placement of the students. As a result of this activity, out of 19 students of IGBT (appeared) in Intas Biopharmaceuticals Ltd and 03 of them got selected for R & D.
- President (Mr. Rajat Gupta) will give the practical training for couple of month in his company (Dwarkesh Pharmaceutical, Ahmedabad).

### **Cyber & press cell**

A special cell is created for disseminating information ARIBAS events and happenings to general public. This cell successfully disseminated information in newspaper radio and TV news channels. ARIBAS press is very active in Peer networking by regularly sending press notes to media. To increase ARIBAS presence in cyber space Face book page, Linked in Page & Twitter handles were created and happenings of ARIBAS were posted in all pages regularly.

### **Vir Narmad study Club**

The study circle of ARIBAS is renamed after the patriot and literary giant Vir Narmad, Several activities were initiated to increase literary skills of ARIBAS students.

- Bi-monthly ARIBAS news initiated to update ARIBAS alumni and well-wisher about ARIBAS.
- Quest was reorganized as scientific journal and application for ISSN is submitted. March issue of Quest is made Cohort Special issue. Now I request Honorable Chairman Dr. CL Patel to uncover Cohort Special issue of Quest
- Three students also received award in Minakshi Lalit and Essay Writing competitions. Details are in **Annexure V**

## Annexure: I

### List of publications by the faculty during 2013-2014

| <b>Dr. Nilanjan Roy</b>   |
|---|
| Knockdown of Asparagine Synthetase A Renders <i>Trypanosoma brucei</i> Auxotrophic to Asparagine<br>I Loureiro, J Faria, C Clayton, SM Ribeiro, N Roy, N Santarém, J Tavares, ...<br>PLoS neglected tropical diseases 7 (12), 2578  |
| <i>In silico</i> screening for identification of novel HIV-1 integrase inhibitors using QSAR and docking methodologies<br>P Gupta, P Garg, N Roy<br>Medicinal Chemistry Research 22 (10), 5014-5028   |
| Ischemia and Reperfusion Injury; The killer of the Modern Times<br>K Prajapa, N Roy<br>Quest 1 (1), 10  |
| QSAR study of curcumine derivatives as HIV-1 integrase inhibitors<br>P Gupta, A Sharma, P Garg, N Roy<br>Current computer-aided drug design 9 (1), 141-150  |
| Cytotoxicity and Cell Death Mechanisms Induced by a Novel Bis naphthalimido propyl Derivative against the NCI-H460 non-small Lung Cancer Cell Line<br>R T Lima, G A Barron, J A Grabowska, G Bermano, S Kaur, N Roy, ...<br>Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal ... |
| <b>Dr. Ritu Dixit</b>   |
| Synthesis and in vitro antimicrobial activity of some newer quinazolinone–sulfonamide linked hybrid heterocyclic entities derived from glycine<br>SF Vanparia, TS Patel, RB Dixit, BC Dixit<br>Medicinal Chemistry Research 22 (11), 5184-5196  |
| Synthesis and antimicrobial activities of new mono and bisphenyl linked bispyrazole and bispyrazolone derivatives<br>HB Mehta, PK Patel, BC Dixit, RB Dixit<br>Arabian Journal of Chemistry   |
| Histology and scanning electron microscopy observations of cryopreserved protocorm-like bodies of <i>Dendrobium sonia</i> -28<br>R Poobathy, UR Sinniah, X Rathinam, S Subramaniam<br>Turkish Journal of Biology 37 (2), 191-198  |
| Synthesis of rhodanine substituted 4 (3H)-quinazolinone derivatives and their antimicrobial evaluation<br>NA Sojitra, TS Patel, RB Dixit, BC Dixit<br>Journal of Chemica Acta 2 (1), 46-52  |
| Synthesis and Antimicrobial Study of Pyrimidinone Substituted 4 (3H)-Quinazolinone Derivatives<br>NA Sojitra, RK Patel, RB Dixit, BC Dixit<br>Organic Chem Curr Res 2 (118), 2161-0401.1000118  |
| <b>Dr. Jenabhai B. Chauhan</b>  |
| Anticariogenic and phytochemical evaluation of Eucalyptus globules Labill<br>AAGAMT Kalpesh B. Ishnava, Jenabhai B. Chauhan<br>Saudi Journal of Biological Sciences 20, 69-74   |
| Study of mutations in beta globin gene at codon 19 and codon 41/42 locus in thalassemia   |

|   |
|---|
| <p>patients<br/> KNDK Anjali Kulkarni, Jenabhai B. Chauhan, K. M. Singh<br/> International Journal of Pharmaceutical Research and Development 5 (3), 37-40</p>  |
| <p><b>Dr. Hiren V. Doshi</b></p>  |
| <p>Genetic Variability of <i>Nicotiana tabacum</i> (Linn.) Using SSR Marker<br/> MCT Sunil Agrawal, Mitesh Patel, Arif Khan, Hiren V<br/> World Journal of Agricultural Research 1 (6), 124-129</p>   |
| <p>Biodegradation of Turquoise Blue Dye by <i>Bacillus Megaterium</i> Isolated from Industrial Effluent<br/> B Joshi, K Kabariya, S Nakrani, A Khan, FM Parabia, HV Doshi, ...<br/> American Journal of Environmental Protection 1 (2), 41-46</p>                               |
| <p><b>Dr. Bhakti Bajpai</b></p>   |
| <p>High Capacity Vectors<br/> B Bajpai<br/> Advances in Biotechnology, 1-10</p>   |
| <p><b>Dr. Kishor Chauhan</b></p>  |
| <p>Evaluation of in vitro efficacy for decolorization and degradation of commercial azo dye RB-B by <i>Morganella</i>. sp. HK-1 isolated from dye contaminated industrial landfill<br/> H Pathak, D Soni, K Chauhan<br/> Chemosphere</p>  |
| <p>Prospects of Fabric Dyeing Using Biochromes<br/> H Pathak, K Chauhan<br/> J Textile Sci Eng 3, e118</p>  |
| <p><b>Dr. Arif Khan</b></p>   |
| <p>Genetic Variability of <i>Nicotiana tabacum</i> (Linn.) Using SSR Marker<br/> MC Thakur, S Agrawal, M Patel, A Khan, HV Doshi<br/> World Journal of Agricultural Research 1 (6), 124-129</p>   |
| <p>Biodegradation of Turquoise Blue Dye by <i>Bacillus Megaterium</i> Isolated from Industrial Effluent<br/> MCT, Bhoomi Joshi, Khyati Kabariya, Sweta Nakrani, Arif Khan<br/> American Journal of Environmental Protection 1 (2), 41-46.</p>                                   |
| <p><b>Dr. Devjani Chakraborty</b></p>   |
| <p>Purification Of B Defensin 3 From Chiken's Blood<br/> Devjani Banerjee*, Tejas Gohil<br/> International Journal of Pharmacy and Pharmaceutical Sciences 6 (1), 773 - 776</p>   |
| <p>Antiproliferative Activity Of Piper Betel Leaf Extracts On Human Lung Cancer Cell Line (A549)<br/> DBB Shah<br/> International Journal of Pharmacy and Pharmaceutical Sciences 6 (1), 432 - 435</p>  |
| <p>To Optimise the Cultural Conditions on the Production of Kojic Acid by <i>Aspergillus</i> Species<br/> Banerjee Devjani<br/> International Journal of Life Sciences 2 (3), 168-175</p>   |
| <p>Isolation of <math>\alpha</math>-Haemolysin-Producing <i>Staphylococcus aureus</i> from the Blood Sample of <i>Gallus domesticus</i> (Chicken) resistant to few Antibiotics<br/> Banerjee Devjani, Shah Swara<br/> International Journal of Life Sciences 2 (3), 163-167</p> |
| <p><b>Dr. Pinakin Dhandhukia</b></p>  |
| <p>Screening of PGPR from saline desert of Kutch: Growth promotion in <i>Arachis hypogea</i> by <i>Bacillus licheniformis</i></p>   |

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| D Goswami, P Dhandhukia, P Patel, JN Thakker<br>Microbiological research 169 (1), 66-75  |
| Delineating <i>Kocuria turfanensis</i> as a credible PGPR: A novel IAA producing bacteria isolated from saline desert<br>D Goswami, S Pithwa, P Dhandhukia, JN Thakker<br>Journal of Plant Interactions, 1-34  |
| Plant growth promoting potentials of <i>Pseudomonas</i> spp. strain OG isolated from marine water<br>D Goswami, H Vaghela, S Parmar, P Dhandhukia, JN Thakker<br>Journal of Plant Interactions 8 (4), 281-290  |
| Soil property apotheosis to corral the finest compressive strength of unbaked adobe bricks<br>P Dhandhukia, D Goswami, P Thakor, JN Thakker<br>Construction and Building Materials 48, 948-953   |
| <b>Dr. Kumar Suranjit Prasad</b>   |
| Biogenic Synthesis of Selenium Nanoparticles and Their Effect on As (III)-Induced Toxicity on Human Lymphocytes<br>KS Prasad, K Selvaraj<br>Biological trace element research, 1-9   |
| Nanotechnology in sustainable agriculture: Present concerns and future aspects<br>P Ram, K Vivek, P Kumar Suranjit<br>African Journal Biotechnology 13 (6), 705-713  |
| Biosorption of arsenite ( $As^{+3}$ ) and arsenate ( $As^{+5}$ ) from aqueous solution by <i>Arthrobacter</i> sp. biomass<br>KS Prasad, AL Ramanathan, J Paul, V Subramanian, R Prasad<br>Environmental Technology 34 (19), 2701-2708                      |
| Biosynthesis of Se nanoparticles and its effect on UV-induced DNA damage<br>KS Prasad, H Patel, T Patel, K Patel, K Selvaraj<br>Colloids and Surfaces B: Biointerfaces 103, 261-266  |
| <b>Dr. Shilpa Gupte</b>  |
| Nutrient improvement for simultaneous production of exopolysaccharide and mycelial biomass by submerged cultivation of <i>Schizophyllum commune</i> AGMJ-1 using statistical optimization<br>M Joshi, H Patel, S Gupte, A Gupte<br>Biotech (4), 307-318    |
| Toxicity analysis of azo Red BS and Methyl Red dye solutions on earthworm ( <i>Pheretima posthuma</i> ), micro-organisms, and plants<br>S Gupte, H Keharia, A Gupte<br>Desalination and Water Treatment 51 (22-24), 4556-4565                              |
| Optimization of culture condition for enhanced decolorization and degradation of azo dye reactive violet 1 with concomitant production of ligninolytic enzymes by <i>Ganoderma cupreum</i> AG-1<br>M Gahlout, S Gupte, A Gupte<br>3 Biotech 3 (2), 143-152 |
| Microbial remediation of azo dyes using bacterial consortium PES<br>SA Gupte<br>Vallabh Vidyanagar   |
| <b>Dr. Sushil kajal</b>  |
| Heterogeneity in lignin deposition   |



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| S Kajal<br>Quest 1 (2), 8  |
| Studies on Lignification in young branches of <i>Kigelia Pinnata</i><br>SS Kajal<br>Vallabh Vidyanagar   |
| <b>Dr. Kinnari Mistry</b>  |
| Bioaccumulation of Lead by LD2 Bacterial Strain Isolated from Lead Contaminated Soil of Gujarat<br>Dmandbd Kinnari N. Mistry*, Sanjay Lal<br>International Journal of Biochemistry and Biotechnology 4 (2), 87-95  |
| Bioaccumulation of Cadmium by Bacterial Strains Cdrb1 Isolated from Cadmium Contaminated Soil of Gujarat<br>Dmandrt Brijesh Dabhi, Kinnari N. Mistry, Sanjay Lal<br>International Journal of Biotechnology research 4 (2), 72-79                                   |
| Assessment Of Genetic Diversity In Chakkarakolli ( <i>Gymnema Sylvestre</i> R. Br.) Using Randomly Amplified Polymorphic DNA (RAPD) Marker From Different Locations Of Gujarat, India<br>KNM, Sanjay Lal<br>journal of Biochemistry and Biotechnology 6 (1), 21-19 |
| Calpain 10 Gene Polymorphism and Its Association in Cardiomyopathy and Type 2 Diabetes<br>KN Mistry, A Solanki, A Thakkar<br>International Journal of Advanced Diabetes Research 1 (1), pp. 16-22  |
| Association of MT2A Gene Polymorphism in the Patients Suffering from Type 2 Diabetes Mellitus and Dilated Cardiomyopathy<br>KN Mistry, A Thakkar, A Solanki<br>International Journal of Advanced Diabetes Research 1 (1), pp. 09-15                                |
| In Vitro Anti-Diabetic And Anti-Inflammatory Activity Of Stem Bark Of <i>Bauhinia Purpurea</i><br>MG Chaudhari, BB Joshi, KN Mistry<br>Bulletin of Pharmaceutical and Medical Sciences (BOPAMS) 1 (2)  |
| In Vitro Phytochemical Analysis And Anti-Microbial Activity Of Crude Extract Of Bacopamonniera<br>BB Joshi, MGH Patel, B Dabhi, KN Mistry<br>Bulletin of Pharmaceutical and Medical Sciences (BOPAMS) 1 (2)  |
| Random Amplified Polymorphic DNA (RAPD) Fingerprinting for Evaluation of Intraspecific <i>Catharanthus roseus</i> populations collected from Gujarat, India<br>Lal S<br>International journal of Biology, Pharmacy and allied Sciences 2 (2), 373-385              |
| Resistin Gene Polymorphism is associated with type 2 Diabetes in Indian populations<br>Kinnari N. Mistry, Sanjay Lal<br>International Journal of Molecular Genetics 3 (1), 5-12  |
| <b>Dr. Farzin Parabia</b>  |
| Biodegradation of Turquoise Blue Dye by Bacillus Megaterium Isolated from Industrial Effluent<br>B Joshi, K Kabariya, S Nakrani, A Khan, FM Parabia, HV Doshi, ...<br>American Journal of Environmental Protection 1 (2), 41-46                                    |
| <b>Dr. Tarunkumar Nanjibhai Akhaja</b>   |
| New carbodithioate derivatives: synthesis, characterization, and in vitro antibacterial, antifungal, antitubercular, and antimalarial activity   |

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| TN Akhaja, JP Raval<br>Medicinal Chemistry Research 22 (10), 4700-4707   |
| <b>Dr. Sanjay Lal</b>  |
| Association of MT2A Gene Polymorphism in the Patients Suffering from Type 2 Diabetes Mellitus and Dilated Cardiomyopathy<br>ATAS Kinnari N. Mistry, Sanjay Lal<br>International Journal of Advanced Diabetes Research                  |
| In-vitro Screening of Antibacterial and Antifungal Activity of Crude Extract of <i>Argyrea Nervosa</i><br>BDS Bhoomi B.Joshi, Megha G. Chaudhari, Kinnari N<br>IJPRT 5, 88-96  |
| Calpain 10 Gene Polymorphism and Its Association in Cardiomyopathy and Type 2 Diabetes<br>ASAT Kinnari N. Mistry, Sanjay Lal<br>International Journal of Advanced Diabetes Research 1, 16-22   |
| Resistin Gene Polymorphism (-420(C:G) is associated with type 2 Diabetes in Indian populations<br>ERVM Kinnari N. Mistry, Sanjay Lal<br>International Journal of Molecular Genetics 3, 5-12  |
| In Vitro Antimicrobial Activity of Stem Bark of <i>Bauhinia Purpurea</i><br>Megha G. Chaudhari<br>IJBSP 4, 29-35   |
| Bioaccumulation of Lead by LD2 Bacterial Strain Isolated from Lead Contaminated Soil of Gujarat<br>Kinnari N. Mistry, Sanjay Lal<br>JBB 4, 87-95   |
| Assessment of genetic diversity in Chakkarakolli ( <i>Gymnema sylvestre</i> r. Br.) Using randomly amplified polymorphic dna (rapd) marker from different locations of Gujarat, India<br>Sanjay Lal<br>IJBR 6, 21-29                   |
| Evaluation of Amplified r DNA Restriction Analysis (ARDRA) for Identification and Characterization of Arsenite resistant Bacterial isolates<br>K. Mistri, Sanjay Lal<br>IJBR 6, 12-20  |
| Molecular Diversity Analysis of Different Varieties of <i>Solanum</i> Using Random Amplified Polymorphic DNA (RAPD) Molecular Marker as a Genetic Resources<br>SanjayLal, Kinnari N. Mistry<br>IJBR 6, 70-79                           |
| Random Amplified Polymorphic DNA (RAPD) Fingerprinting For Evaluation Of Intraspecific <i>Catharanthus Roseus</i> Populations Collected From Gujarat, India.<br>Lal S<br>IJBPAS, 373-385.  |
| <b>Dr. Mukund Thakur</b>   |
| Biodegradation of Turquoise Blue Dye by <i>Bacillus megaterium</i> Isolated from Industrial Effluent<br>B Joshi, K Kabariya, S Nakrani, A Khan, FM Parabia, HV Doshi, ...<br>American Journal of Environmental Protection 1 (2), 41-46 |
| Genetic Variability of <i>Nicotiana tabacum</i> (Linn.) Using SSR Marker   |

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| <p>MC Thakur, Sunil Agrawal, Mitesh Patel, Hiren V. Doshi<br/>World Journal of Agricultural Research 1 (6), 124-129</p>   |
| <p><b>Dr. Anju Kunjadia</b></p>   |
| <p>Herbal Plants: A Potential Agent to Cure Infectious Mastitis in Bovine Animals<br/>R Patel, Y Patel, C Joshi, AP Kunjadia<br/>International Journal of Phytomedicine 5 (3)</p>   |
| <p>A resequencing program in India detects the rare JAK2 L579F mutation in patients suffering from polycythemia vera and negative for JAK2 V617F<br/>A Acharya, S Vaniawala, H Parekh, H Sheikh, H Patel, R Ali, A Khan, ...<br/>International journal of laboratory hematology</p>   |
| <p>Varying influence on different biomarkers related to hepato-recovery events in liver-injured rats when treated with extracts of Andrographis paniculata, Phyllanthus amarus or their active principles individually and in combination.<br/>A Bapat, U Mukundan, PN Mukhopadhyaya, H Parekh, A Nagee, ...<br/>International Journal of Phytomedicine 5 (2)</p> |
| <p>Distinct Geographical Clustering of HIV-1 and a Signature Amino Acid at Position 41 of the p24 Unveiled by gag Variability in India<br/>A Acharya, S Vaniawala, H Parekh, A Nagee, R N Misra, M Wani, ...<br/>Current HIV research 11 (4), 295-303</p>   |
| <p>Isolation, characterization and molecular identification of heavy metal resistant bacteria from industrial effluents, Amala-khadi-Ankleshwar, Gujarat<br/>RJ Pandit, B Patel, PD Kunjadia, A Nagee<br/>International Journal of Environmental Sciences 3 (5), 1689-1699</p>  |
| <p><b>Dr. Anamika jha</b></p>   |
| <p>Isolation and Molecular Characterization of Arsenite-Tolerant Alishewanella sp. GIDC-5 Originated from Industrial Effluents<br/>R Jain, S Jha, H Adhikary, P Kumar, V Parekh, A Jha, MK Mahatma, ...<br/>Geomicrobiology Journal 31 (1), 82-90</p>   |
| <p>Investigation on Phosphate Solubilization Potential of Agricultural Soil Bacteria as Affected by Different Phosphorus Sources, Temperature, Salt, and pH<br/>A Jha, J Saxena, V Sharma<br/>Communications in Soil Science and Plant Analysis 44 (16), 2443-2458</p>  |
| <p>Impact of a phosphate solubilizing bacterium and an arbuscular mycorrhizal fungus (Glomus etunicatum) on growth, yield and P concentration in wheat plants<br/>MAJ Jyoti Saxena<br/>Clean-Soil, air and water, 10.1002/clen.201300492</p>  |
| <p>Role of Biotechnology In Utilization of Bioresources as Sources of Plant Nutrition in Bioresources for sustainable Plant Nutrient Management<br/>Anamika Jha<br/>Satish Serial Publishing House, Delhi</p>   |
| <p>Food Microbiome Research: New Insights Into Function in Molecular biology of bacteria<br/>Anamika Jha<br/>NOVA publishers</p>  |
| <p><b>Dr. Kirti Pawar</b></p>   |
| <p>Microbial Transformation of Steroids: Current Trends in Cortical Side Chain Cleavage<br/>SM Rao, K Thakkar, K Pawar<br/>Quest 1 (2), 16</p>  |
| <p>In-vitro Evaluation of Guar Gum Mediated Colon Specific Tablet Dosage form Containing</p>  |

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| <p>Aspirin.<br/> SP Pawar, VA Patel, KS Pawar, HV Patel<br/> International Journal of Pharmaceutical Sciences Review &amp; Research 19 (1)</p>  |
| <p>Optimization of culture condition for enhanced decolorization of Reactive Orange 16 by <i>Comamonas acidovorans</i> MTCC 3364<br/> DM Rudakiya, KS Pawar<br/> Int. J. Curr. Microbiol. App. Sci 2 (10), 467-476</p>  |
| <p>Evaluation of remediation in heavy metal tolerance and removal by <i>Comamonas acidovorans</i> MTCC 3364<br/> K Pawar<br/> IOSR Journal Of Environmental Science, Toxicology And Food Technology (IOSR ...</p>   |
| <p>Bioconversion of Progesterone Using Aqueous Two Phase System by <i>Comamonas acidovorans</i> MTCC 3364<br/> K Pawar<br/> International Journal of Biotechnology</p>  |
| <p><b>Dr. Kalpesh Ishnava</b></p>   |
| <p>Anticariogenic and phytochemical evaluation of Eucalyptus globules Labill.<br/> KB Ishnava, JB Chauhan, MB Barad<br/> Saudi journal of biological sciences 20 (1), 69-74</p>   |
| <p>Plant mediated synthesis of silver nanoparticles by using dried stem powder of <i>Tinospora cordifolia</i>, its antibacterial activity and comparison with antibiotics<br/> KB Ishnava<br/> International Journal of Pharma and Biosciences, 849 - 863</p> |
| <p><b>Dr. Snehal Ingale</b></p>   |
| <p>Degradation and selective ligninolysis of wheat straw and banana stem for an efficient bioethanol production using fungal and chemical pretreatment<br/> S Thakur, B Shrivastava, S Ingale, RC Kuhad, A Gupte<br/> 3 Biotech 3 (5), 365-372</p>            |
| <p><b>Dr. Nisha Daxini</b></p>  |
| <p>Role of Biotechnology In Utilization of Bioresources As Sources of Plant Nutrition In Bioresources For Sustainable Plant Nutrient Management<br/> A Jha<br/> Satish Serial Publishing House, Delhi</p>   |
| <p>food Microbiome Research: New Insights Into Function in Molecular biology of bacteria<br/> A Jha<br/> NOVA publishers</p>  |
| <p>Assessment of Genetic Diversity Inchakkarakolli (<i>Gymnema sylvestre</i> R. Br.) Using Randomly Amplified Polymorphic DNA (RAPD) Marker From Different Locations Of gujarat, India<br/> KNM, N Daxini, Sanjay Lal<br/> IJBR 6 (1), 21-29</p>              |

## Annexure II

### FACULTIES IN CONFERENCES / SEMINARS / SYMPOSIUM

#### 1. Dr. Anju Kunjadia

1. Reena Patel, Ramesh Pandit, Prakash Koringa, Prashant Kunjadia Chaitanya Joshi and Anju Kunjadia (2013), "Antibiotic resistant profiling of clinical and subclinical mastitis in cattle through Metagenomics", at international conference on Integrating basic and translational research in modern biology, 27th – 28th Dec. 2013 at Dept. of microbiology, MS University, Baroda (Poster).
2. Patel Reena, Ramesh Pandit, Prakash Koringa, Prashant Kunjadia, Chaitanya Joshi and Anju Kunjadia (2013), "Metagenomic Approach to Study Taxonomic Diversity of Bacterial Community in Clinical And Subclinical Bovine Mastitis", at international conference on Integrating basic and translational research in modern biology, 27th – 28th Dec. 2013 at Dept. of microbiology, MS University, Baroda (Poster, 2nd prize).
3. Ramesh Pandit, Reena Patel, Chaitanya Joshi and Anju Kunjadia (2013). "Predicted Secretome of *Arthrotrichum conoides*", a nematophagous fungus at international conference on Integrating basic and translational research in modern biology, 27th – 28th Dec. 2013 at Dept. of microbiology, MS University, Baroda (Poster).
4. Ramesh Pandit, Vaibhav Bhatt, Prashant Kunjadia, Chaitanya Joshi, Pratap Mukhopadhyaya and Anju Kunjadia (2013). "Gene expression profile of *D. flagrans* in response to nematodes through RNASeq" at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology & Bioinformatics Institute along with The Biotech Research Society, India (2nd prize).
5. Reena Patel, Yogi Patel, Chaitanya Joshi, Prashant Kunjadia and Anju Kunjadia (2013). "Isolation characterization and Insilco identification of putative drug targets among mastitis causing pathogenic organism in *Bubalus bubalis*" at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology & Bioinformatics Institute along with The Biotech Research Society, India (Poster).
6. Yati Vaidya<sup>1</sup>, Prashant Kunjadia<sup>2</sup>, Chaitanya Joshi<sup>3</sup> and Anju Kunjadia (2013). "Exploring the Probiotic Bacteria from Breast milk" at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology &

Bioinformatics Institute along with The Biotech Research Society, India (Poster).

7. Ramesh Pandit, Vaibhav Bhatt, Reena Patel, Chaitanya Joshi, Babulal Patel and Anju Kunjadia (2013). Virulence aspects of *A. conoides* against *Meloidogyne* sp. of root-knot nematodes studied through RNASeq. At an International conference on Next generation Genomics and Bioinformatics (NGBT) at IGIB, New Delhi, on 14-16 Nov, Organized by SciGenom research foundation (Best Poster prize).
8. Ramesh Pandit, Vaibhav Bhatt, Prashant Kunjadia and Anju Nagee (2013) Study the expression of serine protease gene in *Arthrobotrys conoides*, a nematode trapping fungus through RT-PCR at national seminar on Recent Advances in Applied Sciences (RAAS-2013) organised by A.N. Patel post graduate institute, Anand on 8th March 2013 (Poster).
9. Darji Nikita, Chauhan Mansi, Nagee Anju and Kunjadia Prashant (2013) Isolation and characterization of probiotic bacteria from human milk at national seminar on Recent Advances in Applied Sciences (RAAS-2013) organised by A.N. Patel post graduate institute, Anand on 8th March 2013 (Poster).
10. Attended one day national seminar on Bioinformatics Challenges in Cutting Edge Metagenomic Research (2013) at GSBTM Sponsored National seminar at BIT virtual Node-AAU Anand on 7th March.
11. Ramesh Pandit, Prashant Kunjadia, Pratap N. Mukhopadhyaya and Anju Nagee (2013). Isolation and molecular characterization of nematode trapping fungi from agriculture soils of Anand, Gujarat (2013) at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).
12. Patel Reena, Joshi Shaily, Nagee Anju and Kunjadia Prashant (2013). Isolation and identification of lignocellulosic waste degrading fungi from environmental samples and studying their dye decolorizing efficiency. at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).
13. Darji Nikita, Thakor Khushbu, Nagee Anju and Kunjadia Prashant (2013). Isolation and molecular identification of heavy metal resistant fungi from industrial effluent of south Gujarat (Ankleshwar) and studying their dye decolorizing efficiency. at XXVII Gujarat Science congress 2013, Recent

breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).

14. Dharmesh Vaghasiya, Reena Patel Prutha Patel, and Anju Nagee (2013). Assessment of genetic diversity among five species of *Jasminum* using RAPD, SSR, ISSR, and DAMD. . at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).
15. Dharmesh Vaghasiya, Reena Patel, Shriram Patel, and Anju Nagee (2013). Phytochemical screening, antioxidant and antimicrobial properties among five sp. of *Jasminum*. . at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).
16. Anju Nagee, Hardik Panjabi, Yogesh Patel and Prashant Kunjadia (2013). Isolation and characterization of phosphate solubilizing bacteria and studying its growth promoting activity on mung bean at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).

## **2. Dr. Mukund Chandra Thakur**

1. Presented a poster entitled "Isolation, Identification and characterization of antibacterial compounds from Chicory root extract" at A N Patel Postgraduate Institute, Charotar Education Society, Anand, Gujara in National Seminar on "Recent Advances in Applied Sciences" on 8th March 2013
2. Attended National Seminar on "Cancer: From Biologist's Perspective" Organized at GCRI, Ahmedabad by GCRI, GCS, IACR and GSBTM. National Seminar on 28th Feb., 2013
3. Presented a poster entitled "Isolation and Characterization of Endophytic bacteria from root nodule of Cowpea" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
4. Presented a poster entitled "Determination of genetic diversity in *Oryza sativa* (Rice) with the help of SSR and RAPD markers" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
5. Presented a poster entitled "Synthesis, characterizations and antibacterial activity of 7-Azaindoles condensed pyrimidine derivatives" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013

6. Presented a poster entitled "Formulation and evaluation of sildenafil citrate as anti-impotent drug by fast dissolving film approach" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
7. Presented a poster entitled "Isolation and characterization of halophilic bacteria from saline water sample of Gujarat" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
8. Presented a poster entitled "Isolation, characterization and optimization of amylase producing microorganisms from gastrointestinal tract of *Labeo rohita*" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
9. Presented a poster entitled "PON 1 gene 192 Gln/Arg Polymorphism and risk of coronary artery disease in type 2 *Diabetes Mellitus*" at CHARUSAT, Changa in International conference on Diabetes and its complications on 18 – 20<sup>th</sup> January 2013
10. Presented a poster entitled "Larvicidal activity of *Calotropis procera* plant extracts against *Anopheles stephansi*" at CHARUSAT, Changa in National conference on Drug Discovery from Natural products on 8<sup>th</sup> and 9<sup>th</sup> January 2013

### 3. Dr. Arif Khan

1. Presented a poster entitled "Isolation, Identification and characterization of antibacterial compounds from Chicory root extract" at A N Patel Postgraduate Institute, Charotar Education Society, Anand, Gujarat in National Seminar on "Recent Advances in Applied Sciences" on 8th March 2013
2. Attended National Seminar on "Cancer: From Biologist's Perspective" Organized at GCRI, Ahmedabad by GCRI, GCS, IACR and GSBTM National Seminar on 28th Feb., 2013
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5. Presented a poster entitled "Synthesis, characterizations and antibacterial activity of 7-Azaindole condensed pyrimidine derivatives" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013
6. Presented a poster entitled "Formulation and evaluation of sildenafil citrate as anti-impotent drug by fast dissolving film approach" at CHARUSAT, Changa in XXVII Gujarat Science Congress on 24th February 2013



7. Attended a one day seminar on “Innovations in Pharmaceutical Sciences 2013” Organized at and by AMA, Ahmedabad, Gujarat, India. National Symposium on 16th Feb., 2013.

#### **4. Dr Digvijaysinh Rana**

Presented Two papers at “stem cell & Regenerative medicine symposium” at National Burns Centre, Navi Mumbai on 13<sup>th</sup> July 2013

#### **5. Dr.Farzin Parabia**

1. First Prize in Oral Presentation at National Conference at Hingoli, Maharashtra:

K.A. Desai, M.R. Ladani, P. Dhandhukia, F. Sheth, M.H. Parabia and F.M. Parabia. (9-10<sup>th</sup> Dec 2013). Improved Protocol for Isolating DNA from Medicinal Plants Suitable for DNA Barcoding - An Authentic Tool for Identification of Raw Material. Proceeding of National Conference on Conservation of Medicinal Plants and Their Utilization (CMPTU-2013)Vol. 2, ISBN - 978-81-924365-9-3, pp.132-143. Organized by Dept. of Botany, Adarsh Education Society's Arts, Commerce and Science College, Hingoli (M.S.) India.

2. International Travel Grant Achieved from DST, UGC and DBT to Present Research Paper in International conference at Amsterdam, The Netherlands:

F.M. Parabia, G.T. Dhedhi and N. Roy. (8<sup>th</sup> to 10<sup>th</sup> September 2013). Curation of genome data of neglected indigenous crop Finger millet (*Eleusine coracana*). International conference “The 2<sup>nd</sup> Current Opinion Conference on Plant Genome Evolution” at Amsterdam, The Netherlands. Organized by Elsevier Limited.

#### **6. Dr. Kalpesh. B. Ishnava**

1. Kalpesh Ishnava and Nevy K Patel (2013) “Micropropagation and Medicinal Properties of *Praecitrullus fistulosus* Pangalo (Cucurbitaceae) - An Underutilization Vegetable” at three day XXIII Annual conference of Indian Association for Angiosperm Taxonomy and international symposium on “Recent Advances in Plant Taxonomy Research”. During December 27-29, 2013, organized by Post Graduate Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-4440033.

#### **7. Dr. Anamika**

1. Nikunj Patel, Debayan Baidya, Anamika Jha. Presented a poster on “Nanopesticides- An Application of Nanoparticles for Biofertilizers” in Recent Advances in life sciences conference organized by M.B Patel Science College, Anand on 10<sup>th</sup> August 2013.
2. Debayan Baidya, Anamika Jha. Presented a paper on “Phosphate Solubilizing Bacteria- A boon to Agriculture” in Recent Advances in Science

Excellence 2014, Gujarat University, Ahmedabad on 4<sup>th</sup> January 2014.

#### 6. Dr. Devjani Chakraborty

1. Yashvant Khimsuriya, Devjani Chakraborty, Swara Shah, Dharmishtha Dudhat, Tejas Gohil. Isolation Of B-Hemolysin Producing Pathogenic Bacteria From Blood Sample Of *Gallus Domesticus* (Chicken). National seminar on Recent Advances in Applied Sciences (RAAS-2013) organised by A.N. Patel post graduate institute, Anand on 8th March 2013 (Poster).
2. Tejas Gohil, Devjani Chakraborty, Yashvant Khimsuriya Isolation And Characterization Of A-Hemolysin producing Antibiotic Resistant *Enterobacter* Species. UGC Sponsored National Conference on recent Advances in Life Sciences and Chemical Sciences (RALC), August 10, 2013 (Poster) .
3. Barkha Shah, Devjani Banerjee Antiproliferative Activity Of *Piper Betel* Leaf Extracts On Human Cancer Cell Lines. International Conference on Recent Advances in Cancer Prevention and Therapeutics. November 19-20, 2013 School of Life Sciences, Central University of Gujarat, Gandhinagar

#### FACULTIES IN WORKSHOP

1. Dr. Shilpa Gupte, Dr. Digvijaysinh Rana and Dr. Kishor Chauhan organized a workshop on “Opto-analytical Instruments” with WRCI, Mumbai on 7<sup>th</sup> – 11<sup>th</sup> October 2013.
2. Dr. Digvijaysinh Rana and Dr. Kalpesh Ishnava organized a two days vocational training on “Horticulture and Composting” on 17<sup>th</sup> and 18<sup>th</sup> January 2014.
3. Dr. Anju Kunjadia Attended three day Indo-UK Workshop on ‘The use of molecular epidemiology and functional genomics to underpin the development of novel interventions to combat bovine *Staphylococcus aureus* mastitis in India’ was organized by NIVEDI (Formerly PD\_ADMAS), Bengaluru from 1st-3rd February, 2014. Also delivered a talk on: “Mastitis in Human”
4. Dr. Mukund Chandra Thakur Worked as Resource person in Workshop entitled “Research Skill Development Program – I” at ARIABS on 7<sup>th</sup> October-2013 for Sem III students of M.Sc. Biotechnology, M.Sc. Microbiology and M.Sc. Pharmaceutical Chemistry.

5. Dr. Arif Khan Worked as Resource person in Workshop entitled “Research Skill Development Program – I” at ARIABS on 7<sup>th</sup> October-2013 for Sem III students of M.Sc. Biotechnology, M.Sc. Microbiology and M.Sc. Pharmaceutical Chemistry.
6. Dr. Kalpesh Ishnava Participated in a training programme on “18<sup>th</sup> UGC-Sponsored Orientation Programme” (June 6<sup>th</sup> to July 2<sup>nd</sup> 2013) organized by academic staff college, Sardar Patel University, Vallabh Vidyanager-388120, Anand , Gujarat.
7. Mr. Snehal Ingale participated in 18th Orientation programme conducted at Academic Staff College, Anand (Sardar Patel University) from 06/05/2013 to 02/06/2014.
8. Dr.Sunil Christe Training –cum-awareness programme on “Protection of Plant Varieties & Farmers’ Rights Act” held at the DMAPR, Anand, Gujarat on February 18, 2013.
9. Dr. Devjani Chakraborty Attended 2 Days Workshop in SICART. Hands on Training on MS – MS, GC-MS and LC- MS. Jan 2014.
10. Hemul Patel National Seminar on Recent Advances in Applied Sciences. Organized by Shri A.N.Patel Postgraduate Institute, Charotar Education Society, Anand, Gujarat, India on 8 th March, 2013. (Paper Presentation).
11. Arunabh Mishra, National Seminar on Recent Advances in Applied Sciences. Organized by Shri A. N. Patel Postgraduate Institute, Charotar Education Society, Anand, Gujarat, India on 8th March, 2013. (Poster Presentation).

### Annexure III

#### ACHIEVEMENTS BY STUDENTS

##### 1. Students in Workshop / Seminar and Conferences

| Sr. No. | Name of the student | Sem        | Activity                       | Place            | Date         |
|---------|---------------------|------------|--------------------------------|------------------|--------------|
| 1.      | Ajay Bhut           | PCh Sem IV | Oral Presentation              | NVPAS VVNagar    |              |
|         |                     | PCh Sem IV | Workshop on LC-MS/MS and GC MS | SICART VVNagar   | January 2014 |
| 2.      | Keyur K Lad         | PCh Sem IV | Poster presentation            | RPCP Changa      | March 2013   |
| 3.      | Hetal M. Patel      | PCh Sem IV | Workshop                       | ISTAR VVNagar    |              |
| 4.      | Vishal Khunt        | PCh Sem IV | Conference                     | ISTAR            | August       |
| 5.      | Patel Pankit        | PCh Sem IV | Conference                     | ISTAR            | August       |
| 6.      | Patel Shreyas       | PCh Sem IV | Workshop on LC-MS/MS and GC MS | SICART VVNagar   | January 2014 |
| 7.      | Jay Shah            | PCh Sem IV | Conference                     | ISTAR            | August       |
|         |                     | PCh Sem IV | Workshop on LC-MS/MS and GC MS | SICART VVNagar   | January 2014 |
| 8.      | Hardik D Patel      | PCh Sem IV | Workshop                       | ISTAR VVNagar    | January 2014 |
| 9.      | Palak Patel         | PCh Sem IV | Workshop                       | ISTAR VVNagar    | January 2014 |
| 10      | Jatin V. Patel      | PCh Sem IV | Conference                     | ISTAR            | August       |
| 11      | Vipul A Patel       | PCh Sem IV | Workshop on LC-MS/MS and GC MS | SICART VVNagar   | January 2014 |
|         |                     | PCh Sem IV | Poster Presentation            | IICP New VVnagar | Feb 2014     |

## 2. PhD Students in Workshop / National / International Conference / Seminar

### 1. Mr. Ramesh Pandit :

1. Ramesh Pandit, Vaibhav Bhatt, Reena Patel, Chaitanya Joshi, Babulal Patel and Anju Kunjadia (2013). Virulence aspects of *A. conoides* against *Meloidogyne* sp. of root-knot nematodes studied through RNASeq. At an International conference on Next generation Genomics and Bioinformatics (NGBT) at IGIB, New Delhi, on 14-16 Nov, Organized by Sci Genom research foundation (Best Poster Prize).
2. Ramesh Pandit, Vaibhav Bhatt, Prashant Kunjadia, Chaitanya Joshi, Pratap Mukhopadhyaya and Anju Kunjadia (2013). "Gene expression profile of *D. Flagrans* in response to nematodes through RNASeq" at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology & Bioinformatics Institute along with The Biotech Research Society, India (2nd prize).
3. Ramesh Pandit, Vaibhav Bhatt, Prashant Kunjadia and Anju Nagee (2013) Study the expression of serine protease gene in *Arthrobotrys conoides*, a nematode trapping fungus through RT-PCR at national seminar on Recent Advances in Applied Sciences (RAAS-2013) organised by A.N. Patel post graduate institute, Anand on 8th March 2013 (Poster).
4. Ramesh Pandit, Prashant Kunjadia, Pratap N. Mukhopadhyaya and Anju Nagee (2013). Isolation and molecular characterization of nematode trapping fungi from agriculture soils of Anand, Gujarat (2013) at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).

### 2. Ms. Reena Patel:

1. Reena Patel, Ramesh Pandit, Prakash Koringa, Prashant Kunjadia Chaitanya Joshi and Anju Kunjadia (2013), "Antibiotic resistant profiling of clinical and subclinical mastitis in cattle through Metagenomics", at International conference on Integrating basic and translational research in modern biology, 27th – 28th Dec. 2013 at Dept. of microbiology, MS University, Baroda (Poster).
2. Reena Patel, Yogi Patel, Chaitanya Joshi, Prashant Kunjadia and Anju Kunjadia (2013). "Isolation characterization and *Insilco* identification of

putative drug targets among mastitis causing pathogenic organism in *Bubalus bubalis*” at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology & Bioinformatics Institute along with The Biotech Research Society, India (Poster).

3. Patel Reena, Joshi Shaily, Nagee Anju and Kunjadia Prashant (2013). Isolation and identification of lignocellulosic waste degrading fungi from environmental samples and studying their dye decolorizing efficiency. at XXVII Gujarat Science congress 2013, Recent breakthrough in science jointly organised by CHARUSAT and Gujarat Science academy Ahmedabad on 24th Feb 2013 at Changa (Poster).

### **3. Mrs. Yati Vaidya:**

1. Yati Vaidya<sup>1</sup>, Prashant Kunjadia<sup>2</sup>, Chaitanya Joshi<sup>3</sup> and Anju Kunjadia (2013). “Exploring the Probiotic Bacteria from Breast milk” at an International Conference on Advances in Biotechnology and Bioinformatics organised by Dr. D.Y. Patil Vidyapeeth, Pune's Dr. D. Y. Patil Biotechnology & Bioinformatics Institute along with The Biotech Research Society, India (Poster).

### **4. Mr. Tejas Gohil**

1. Attended UNESCO sponsored workshop “Proteomics and Biomarkers” in Regional Centre of Biotechnology, Gurgaon, Haryana. 21<sup>st</sup> – 25<sup>th</sup> Oct, 2013.
2. Attended workshop in SICART for Hands on Training of Different Analytical Instruments. July 24-26, 2013. Workshop On HPLC, HPTLC and GC & GC-MS.
3. Tejas Gohil,\*Devjani Chakraborty, Yashvant Khimsuriya. Isolation And Characterization Of A-Hemolysin producing Antibiotic Resistant *Enterobacter* Species. UGC Sponsored National Conference on recent Advances in Life Sciences and Chemical Sciences (RALC), August 10, 2013.

### **5. Mr. Yashvant Khimsuriya**

1. Yashvant Khimsuriya, Devjani Chakraborty, Swara Shah, Dharmishtha Dudhat, Tejas Gohil. Isolation Of B-Hemolysin Producing Pathogenic Bacteria From Blood Sample Of *Gallus Domesticus* (Chicken). National seminar on Recent Advances in Applied Sciences (RAAS-2013) organised by A.N. Patel post graduate institute, Anand on 8th March 2013 (Poster)

### Annexure IV

| Sr. No. | Event                   | Rank In The Event | Name of Students   |
|---------|-------------------------|-------------------|--|
| 1       | Mime                    | 1 <sup>st</sup>   | Komal Patel<br>Anunay Sinha<br>Shrushti Rajyguru<br>Ronit Patel<br>Roshan Gandhi<br>Tej Shah   |
| 2       | Creative Dance          | 2 <sup>nd</sup>   | Stuti Chitaria   |
| 3       | Skit                    | 2 <sup>nd</sup>   | Komal Patel<br>Shrushti Rajyguru<br>Ronit Patel<br>Roshan Gandhi<br>Tej Shah<br>Akanksha Rawat                                       |
| 4       | Spot Photography        | 2 <sup>nd</sup>   | Vatsal Panchal   |
| 5       | Tableau                 | 2 <sup>nd</sup>   | Komal Patel, Anunay Sinha,<br>Shrushti Rajyguru, Ronit Patel<br>Roshan Gandhi, Tej Shah, Dixit<br>Patel, Nikita Bhatt, Shirley Dixit |
| 6       | Extempore               | 3 <sup>rd</sup>   | Komal Patel  |
| 7       | Group Song<br>(Western) | 3 <sup>rd</sup>   | Liza Patel<br>Nancy Patel<br>Arpit Patel<br>Shrey Patel<br>Sadab Khan  |
| 8       | Quiz                    | 3 <sup>rd</sup>   | Jashkaran Gadhvi<br>Amrit Visa<br>Samyak Chaturvedi  |
| 9       | Mimicry                 | 3 <sup>rd</sup>   | Akanksha Rawat   |

### Annexure V

| Sr. No. | Name Of Student     | Course     | Event   | Prize           |
|---------|---------------------|------------|---|-----------------|
| 1       | Anjali Nair         | IGIBT-VIII | Meenakshi Lalit   | 1 <sup>st</sup> |
| 2       | Divya Eshwaran Iyer | IGGBT-VIII | All India Essay Writing Competition<br>Organized By Shree Ram Chandra<br>Mission. (English) | 1 <sup>st</sup> |
| 3       | Arundhati Lahiri    | IGIBT-VIII | All India Essay Writing Competition<br>Organized By Shree Ram Chandra<br>Mission (Hindi)    | 1 <sup>ST</sup> |



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New Vallabh Vidyanagar-388121, Dist. Anand, Gujarat, India  
Phone: +91 2692 229189, 231894; fax: +91 2692 229189