



SYMBIOSIS SCHOOL OF BIOLOGICAL SCIENCES

Symbiosis International University

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)

7.2.1_SSBS_Best Practices (1)_2018-2019

Index

| S.No. | Name of Practice |
|-------|---------------------------------|
| 1 | Industry Academia Collaboration |



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7.2.1 Best Practices 1 (2018 – 2019)

1. Title of the Practice: Industry Academia Collaboration

2. Objectives of the Practice:

- Intense interactions with biotechnology industries at various platforms mutually beneficial and to create springboards for students and faculty
- Visit of Industrial and Academic Experts to SSBS and Interaction with students and also students visit to Industries
- Students dissertation work in Industries and joint publications between Industries and SSBS
- To create awareness among students about the current developments, job opportunities and start-ups and to establish new contacts with food and bio-tech industries

3. The Context:

The post graduate students in Biotechnology and Nutrition and Dietetics are offered courses such as Bioprocess Engineering and Food Science. In these students are exposed to theoretical and experimental aspects. As a part of practical sessions students visit to Industries and Industrialists visit to SSBS provides students with unique experience of understanding industrial sector that can be replicated in practice.

4. The Practice:

Visit to Industries such as Vasant Dada Sugar Institute, KEM Hospital Research Centre, National Centre for Cell Science, Mothers recipe plant, Venky's nutrition plant and other food industries exposed the students to techniques and technologies used in processing and manufacturing various products such as food, nutraceuticals, pharmaceuticals, biopharmaceuticals, vaccines etc. In-depth analysis of scientific research problems by students and faculty leading to publications.

5. Evidence of Success:

Students showed improved interests in equipping their skills in laboratory techniques. These visits have fueled the student's interests to take up internships and dissertation work in various industries and institutes. Students have joined in companies like IISER, CFTRI, NEERI, DIPAS-DRDO, IIAR etc. Ph.D. students work had resulted in collaborative research publication with NCMR labs. Research Grants from Industries to carry out collaborative research work in SSBS.

6. Problems Encountered and Resources Required:

Traffic related issues during Industrial visits.



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7/8/18

Report on visit to Vasantdada Sugar Institute, Pune

Programme: Industrial visits

Date: 7/8/18

Academic year: 2018-19

Venue: Vasantdada Sugar Institute, Manjari Budruk, Pune,
Maharashtra – 412307

Number of Participants: 22 M.Sc (Biotechnology, 17-19 batch) students, one Faculty member, one Research Associate and one Teaching Assistant

Concerned Subjects: Bioprocess Engineering, Emerging Technologies, Molecular biology and Environmental Biotechnology

Coordinators: Dr. Selvan Ravindran, Dr. Nuton Mhetras and Mr. Dasharath Shinde

Students visited environmental sciences, alcohol technology & biofuels and molecular biology & genetic engineering departments. Scientists from environmental sciences unit explained the students about the process of converting sugarcane waste to biofertilizers. In the fermentation facility, students witnessed the production of wine from grapes with the aid of microorganism. Importance of analytical technologies such as spectroscopy, chromatography and mass spectrometry in research and development was also explained. Students also learned about the generation of drought tolerant and salinity tolerant variety of sugarcane from molecular biology & genetics department. Students had fruitful interactions with the industrial professionals.

Report prepared by: Dr. Selvan Ravindran



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Visit to Vasantdada Sugar Institute on 7/8/18



Symbiosis School of Biological Sciences

Attendance sheet for M.Sc (Biotechnology, 17-19 batch, Sem III)

Date: 7/8/18

| S.No | PRN | Name of the student | Attendance |
|------|-------------|--------------------------------|------------|
| 1 | 17040342001 | NIHARIKA ARAVINDAN | Present |
| 2 | 17040342002 | MAHIMKAR DEVIKA DNYANRAJ | Present |
| 3 | 17040342003 | T APOORVA | Present |
| 4 | 17040342004 | MADANGIRIKAR SAILI ALIAS LAXMI | Present |
| 5 | 17040342006 | DIGRAJKAR SANIKA MAKARAND | Present |
| 6 | 17040342007 | DEY ADITI MAHENDRA | Present |
| 7 | 17040342008 | VISHALAAKSHI SINGH | Present |
| 8 | 17040342009 | ARUNIMA MUKHERJEE | Present |
| 9 | 17040342010 | CHATE ADITY DILIP | Present |
| 10 | 17040342011 | PRIYANJANA DASGUPTA | Present |
| 11 | 17040342012 | PRACHI YOGESH MEHTA | Present |
| 12 | 17040342013 | SRISHTI GUPTA | Present |
| 13 | 17040342014 | GADRE SANIKA NITIN | Present |
| 14 | 17040342015 | KADAM VAIBHAV VANKATRAO | Present |
| 15 | 17040342016 | VAISHAKHI TRIVEDI | Present |
| 16 | 17040342017 | SALUNKHE AMEY UMESH | Present |
| 17 | 17040342018 | GHOSH SAYANI BISWARANJAN | Present |
| 18 | 17040342019 | HIMANSHI KAIN | Present |
| 19 | 17040342020 | ATHIRA J | Present |
| 20 | 17040342021 | ZAIN PARDAWALA | Present |
| 21 | 17040342022 | ADITI CHIMOTE | Present |
| 22 | 17040342024 | SAKINA BOMBAYWALA | Present |



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29/9/18

Report on visit to KEM Hospital Research Centre, Pune

Programme: Visit to Industries and Research Institutes

Date: 29/9/18

Academic year: 2018-19

Venue: KEM hospital research centre, Rasta peth, Pune, Maharashtra-411011

Number of Participants: 14 M.Sc (Biotechnology, 17-19 batch) students, two faculty members and one Research Associate

Concerned Subjects: Clinical Biochemistry and Emerging Technologies

Coordinators: Dr. Neetu Mishra, Dr. Selvan Ravindran and Mr. Anil Thomorthe

Students learned about the importance of automated random access biochemistry analyzers, automated cell counters, blood gas analyzers, nephelometers, thermal cycler and geldoc and in house electrophoresis unit for in hospital research centre. Working principle of these instruments was explained to the students. Students also learned about the processing of patients samples and sample flow in the clinics from one lab to another.

Students also learned about the Detection of Mycobacterium tuberculosis by PCR technique, Detection of Hepatitis viral markers by PCR. And Estimation of therapeutic drug levels using HPLC. Students learned about the importance of quality control laboratories in patient sample analysis.

Report prepared by: Dr. Selvan Ravindran



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Visit to KEM hospital research centre on 29/9/18



Symbiosis School of Biological Sciences

Attendance sheet for M.Sc (Biotechnology, 17-19 batch, Sem III)

Date: 7/8/18

| S.No | PRN | Name of the student | Attendance |
|------|-------------|--------------------------------|------------|
| 1 | 17040342001 | NIHARIKA ARAVINDAN | Absent |
| 2 | 17040342002 | MAHIMKAR DEVIKA DNYANRAJ | Absent |
| 3 | 17040342003 | T APOORVA | Present |
| 4 | 17040342004 | MADANGIRIKAR SAILI ALIAS LAXMI | Present |
| 5 | 17040342006 | DIGRAJKAR SANIKA MAKARAND | Absent |
| 6 | 17040342007 | DEY ADITI MAHENDRA | Absent |
| 7 | 17040342008 | VISHALAAKSHI SINGH | Present |
| 8 | 17040342009 | ARUNIMA MUKHERJEE | Present |
| 9 | 17040342010 | CHATE ADITY DILIP | Present |
| 10 | 17040342011 | PRIYANJANA DASGUPTA | Present |
| 11 | 17040342012 | PRACHI YOGESH MEHTA | Present |
| 12 | 17040342013 | SRSHTI GUPTA | Absent |
| 13 | 17040342014 | GADRE SANIKA NITIN | Present |
| 14 | 17040342015 | KADAM VAIBHAV VANKATRAO | Absent |
| 15 | 17040342016 | VAISHAKHI TRIVEDI | Present |
| 16 | 17040342017 | SALUNKHE AMEY UMESH | Absent |
| 17 | 17040342018 | GHOSH SAYANI BISWARANJAN | Present |
| 18 | 17040342019 | HIMANSHI KAIN | Present |
| 19 | 17040342020 | ATHIRA J | Present |
| 20 | 17040342021 | ZAIN PARDAWALA | Absent |
| 21 | 17040342022 | ADITI CHIMOTE | Present |
| 22 | 17040342024 | SAKINA BOMBAYWALA | Present |



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28/2/19

Report on visit to National Centre for Cell Science (NCCS), Pune

Programme: Visit to Industries and Research Institutes

Date: 28/2/19

Academic year: 2018-19

Venue: National Centre for Cell Science, University of Pune campus, Ganeshkhind, Pune, Maharashtra - 411007

Number of Participants: 28 M.Sc (Biotechnology, 18-20 batch) students and one faculty member.

Concerned Subjects: Cell biology

Coordinator: Dr. Bishnoodeo Roy

M.Sc (biotechnology) students visited National Centre for cell science on 28th, February, 2019. NCCS has state of the art facilities including mass spectrometers, imaging techniques and cell analyzers. Students were introduced to the advanced mass spectrometers used for protein analysis, fluorescence activated cell sorters and laser scanning confocal microscopy.

These advanced technologies are essential for Scientists involved in cell science research. NCCS is focussed on biology of cancer and chronic diseases, pathogenesis of cellular response, stem cells and regeneration and macromolecular structure and cell function. Students had an opportunity to interact with renowned scientists working in this key area of cell science research. Students also learned the importance of cell repository and cell banks

Report prepared by: Dr. Selvan Ravindran



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Visit to National Centre for Cell Science (NCCS), Pune on 28/2/19



Symbiosis School of Biological Sciences

Attendance sheet for M.Sc (Biotechnology, 18-20 batch, Sem III)

Date: 28/2/19

| Sr. No. | PRN | Name of Student | Attendance |
|---------|-------------|--------------------|------------|
| 1 | 18040342001 | ANDREA DIANA | Present |
| 2 | 18040342002 | ARMAANMISTRY | Present |
| 3 | 18040342003 | BENTABIJAPUR | Absent |
| 4 | 18040342004 | BERAWALANIKITA | Present |
| 5 | 18040342005 | BHAGYASHREEPATIL | Present |
| 6 | 18040342006 | BHANDERI TRUPTI | Present |
| 7 | 18040342007 | CHITNIS AKHILESH | Present |
| 8 | 18040342008 | DESAI VEDIKA | Present |
| 9 | 18040342009 | DUBEY RACHNA | Present |
| 10 | 18040342010 | G T SUSIVADANI | Absent |
| 11 | 18040342011 | GAIGORE ANUSHREE | Present |
| 12 | 18040342012 | GIRISH KUMAR SAHU | Present |
| 13 | 18040342013 | GUPTA MANDIRA | Present |
| 14 | 18040342014 | JACQUES AVRIL | Present |
| 15 | 18040342015 | JACQUESEDEN | Present |
| 16 | 18040342016 | JOYLEEN FERNANDES | Present |
| 17 | 18040342017 | KULKARNI AJINKYA | Present |
| 18 | 18040342018 | KULKARNIHIMANI | Present |
| 19 | 18040342019 | KUMBHAR ROHIT | Present |
| 20 | 18040342020 | MIRIMACHCHHAR | Present |
| 21 | 18040342021 | MUSKAN THAKUR | Present |
| 22 | 18040342022 | OZA VISHNU | Present |
| 23 | 18040342023 | PANKHUDI BHUTADA | Present |
| 24 | 18040342024 | PARIN VYAS | Present |
| 25 | 18040342025 | PATIL SHIVANI | Present |
| 26 | 18040342026 | PRABHU SINARI | Present |
| 27 | 18040342027 | SHEJALE POOJA | Present |
| 28 | 18040342028 | SHREYA MISHRA | Absent |
| 29 | 18040342029 | SHWETA GULIA | Present |
| 30 | 18040342030 | SURABHI AGARWAL | Present |
| 31 | 18040342031 | SUSHMITA JOSHI | Absent |
| 32 | 18040342032 | VAIJANAPURKAR MANA | Present |



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2/3/2019

Visit to Mother's Recipe Plant, Pune

Programme: Visit to Industries and Research Institutes

Date: 2/3/19

Academic year: 2018-19

Venue: National Centre for Cell Science, University of Pune campus, Ganeshkhind, Pune, Maharashtra - 411007

Number of Participants: M.Sc (Nutrition, 18-20 batch) students and one faculty member.

Concerned Subjects: Nutrition and Dietetics

Coordinator: Ms. Radhika Hedao

M.Sc (Nutrition & Dietetics, 18-20 batch) students visited Mother's recipe plant in Pune on 2nd, March, 2019. Cooking paste, instant mixes, pickles, chutney and many such food products are from Mother's Recipe. Students interacted with employees of Mother's Recipe and witnessed the various methods that are employed to produce these food products.

Visit was very valuable for nutrition and dietetics students because many students have an opportunity to start their own ventures. Many of these packaged products are helpful to cook in short period of time. Twenty three students visited the facility.

Report prepared by: Dr. Selvan Ravindran



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Visit to Mother's Receipt Plant, Pune on 2/3/2019



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8/3/2019

Visit to Venky's Nutrition Plant, Pune

Programme: Visit to Industries and Research Institutes

Date: 8/3/19

Academic year: 2018-19

Venue: Venky's Nutrition plant, Venkateshwara house, Sinhagad road, Pune, Maharashtra - 411030

Number of Participants: M.Sc (Nutrition, 18-20 batch) students and one faculty member.

Concerned Subjects: Nutrition and Dietetics

Coordinator: Ms. Radhika Hedao

M.Sc (Nutrition & Dietetics, 18-20 batch) students visited Mother's recipe plant in Pune on 2nd, March, 2019. Cooking paste, instant mixes, pickles, chutney and many such food products are from Mother's recipe. Students interacted with employees of Mother's recipe and witnessed the various methods that are employed to produce these food products.

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Visit to Venky's Nutrition Plant, Pune on 8/march/2019



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2. M.Sc (Biotechnology) students dissertation work in Industries/CSIR labs/National and International Labs

| Name | Guide | Institute |
|---------------------|--------------------------|---------------------|
| Himanshi Kain | Dr. Anju Bansal | DIPAS, DRDO |
| Sailee Madangirikar | Dr. Nagraj Balsubramaium | IISER, Pune |
| Vaishakhi Trivedi | Dr. Veena Rajput | IIAR, Pune |
| Prachi Mehta | Dr.Nandini Prasad Shetty | CSIR-CFTRI |
| Srishti Gupta | Dr. Jitendra Chugh | IISER, Pune |
| Sakina Bombaywala | Dr. Hemant Purohit | NEERI, Nagpur |
| Niharika Aravindan | Dr. Ian Mendenhall | DUKE-NUS, Singapore |
| Aditi Chimote | Dr. Kavita Lole | NIV, Pune |
| Devika Mahimkar | Dr. Sanjeev Galande | IISER, Pune |



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SSBS Pune Lecture Series for graduating students

Symbiosis School of Biological Sciences, Pune Lecture

Finishing School for M.Sc. Biotechnology & M.Sc. Nutrition & Dietetics (Batch- 2016-18)

Date: May 30, 2018

Venue: SIT Seminar Hall, Symbiosis School of Biological Sciences, Lavale Campus, Pune

Schedule:

| | Speakers | Topic | Time |
|---|--------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|
| 1 | Priya Nagaraj | Building Scientific Startups: Ecosystem and funding opportunities | 9.30 am – 10.15 am |
| 2 | Dr. Amol Raut, CEO, GeneOmbio, Pune | Opportunities in Industrial Genomics | 10.15 am – 11.00 am |
| | | | 10 minute break |
| 3 | Dr. Rabindra Hendry, Director, Pralhad P. Chhabria Research Center, Pune | Opportunities in Science and Technology | 11.10 am – 11.55 am |
| 4 | Mr. Sameer Chaudhary, CEO, RASA Life Sciences Informatics, Pune | Career Opportunity in Bioinformatics | 11.55 am – 12.40 pm |



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Ph.D. student's dissertation work at Industries, CSIR labs and ICMR labs

Students are also registered for Ph.D. in SSBS and work in Industries or at Council of Scientific and Industrial Research labs towards task-oriented projects to address practical problems.

All the Ph.D. students are mentored by SSBS Faculty members

| S.No | Name of the Student | Year | Name of the Guide | Institute |
|------|-----------------------------|------|----------------------|------------------------------------------------------------------------------------------------------------|
| 1 | Srividya Ravi | 2014 | Dr. Anuradha Vaidya | National Chemical Laboratory, Pune |
| 2 | Priyanka Patel | 2014 | Dr. Vinay Rale | National Institute for Research in Tribal Health, Indian Council of Medical Research, Jabalpur, M.P.-India |
| 3 | Vishal Nanasaheb Pavitrakar | 2016 | Dr. Selvan Ravindran | Lupin Research Park, Pune |
| 4 | Amalesh Jayant Tambe | 2016 | Dr. Selvan Ravindran | Serum Institute of India Pvt Ltd (SIPL), Pune |
| 5 | Digamber Singh Chahar | 2016 | Dr. Selvan Ravindran | Serum Institute of India Pvt Ltd (SIPL), Pune |
| 6 | Santosh Balu Dumbare | 2016 | Dr. Selvan Ravindran | Lupin Research Park, Pune |
| 7 | Akshay Deshpande | 2016 | Dr. Sunil Saroj | Serum Institute of India Pvt Ltd (SIPL), Pune |
| 8 | Kunal Jani | 2016 | Dr. Vinaykumar Rale | Microbial Culture Collection (MCC), NCCS, India |
| 9 | Neihenuo Chuzho | 2016 | Dr. Neetu Mishra | National Institute of Pathology (NIP), New Delhi |
| 10 | Rohini Raman | 2017 | Prof. Kavitha Menon | Sanzyme-nutrus Ltd Hyderabad |
| 11 | Krunal Patel | 2017 | Dr. Vinaykumar Rale | Serum Institute of India Pvt Ltd (SIPL), Pune |
| 12 | Harshal Nikam | 2018 | Dr. Selvan Ravindran | Serum Institute of India Pvt Ltd (SIPL), Pune |
| 13 | Ritu Singh | 2018 | Dr. Anuradha Vaidya | ICMR - National Institute for Research in Tribal Health |
| 14 | Dr. Chakrapani Chatala | 2018 | Dr. Neetu Mishra | Novartis, Hyderabad |
| 15 | Kunal Dixit | 2018 | Dr. Sunil Saroj | Microbial Culture Collection (MCC), NCCS, India |



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Joint publication between SSBS and National Centre for Microbial Resource, Pune. Ph.D. student Kunal Jani is registered for Ph.D. in SSBS and working under the guidance of Dr. Vinay Rale in SSBS and Dr. Yogesh Shouche at National centre for microbial resource, Pune.

Microbial Ecology (2018) 76:706–718
<https://doi.org/10.1007/s00248-018-1169-1>

ENVIRONMENTAL MICROBIOLOGY



World's Largest Mass Bathing Event Influences the Bacterial Communities of Godavari, a Holy River of India

Kunal Jani^{1,2} · Dhiraj Dhotre¹ · Jayashree Bandal³ · Yogesh Shouche¹ · Mangesh Suryavanshi¹ · Vinay Rale² · Avinash Sharma¹

Received: 27 August 2017 / Accepted: 22 February 2018 / Published online: 13 March 2018
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INTERNATIONAL
JOURNAL OF SYSTEMATIC
AND EVOLUTIONARY
MICROBIOLOGY

TAXONOMIC DESCRIPTION

Jani et al., *Int J Syst Evol Microbiol* 2019;69:2452–2458
DOI 10.1099/ijsem.0.003512



Chakrabartia godavariana gen. nov., sp. nov., a novel member of the family *Sphingomonadaceae* isolated from the Godavari River, India

Kunal Jani,^{1,2} Guang-Da Feng,³ Hong-Hui Zhu,³ Om Prakash,¹ Jayashree Bandal,⁴ Vinay Rale,² Yogesh Shouche¹ and Avinash Sharma^{1,*}



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7.2.1_SSBS_Best Practices (2)_2018-2019

Index

| S.No. | Name of Practice |
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| 1 | Training for competitive exams |



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BEST PRACTICE 2

1. Title of the Practice: TRAINING FOR COMPETITIVE EXAMS

2. Objectives of the Practice

- To facilitate students' participation in competitive exams such as UGC-CSIR, GATE, DBT-JRF, IELTS through training
- To train students for competitive exams

3. The Context:

It is necessary for Masters' students to clear the competitive exams to be able to pursue Ph.D. program at national institutes and universities

4. The Practice:

Training is given in the form of talks by the respective experts and also by qualified candidates pursuing Ph.D. at national institutes.

5. Evidence of Success: Students have shown keen interest to appear for exams such as GATE, DBT-JRF, IELTS. UGC-CSIR exams.

6. Problems encountered and Resources required: More books related to competitive exams are needed.



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One day Workshop on “Cracking the code of Competitive Exams: Your first step towards Ph.D.”. was conducted on 8/September/2018

Talks and students interaction:

Students from both 1st and 2nd year of MSc Biotechnology were invited for the talks. Thirty five students attended the workshop. The workshop involved question answer sessions and personal interaction with speakers at the end of the workshop.



Mr. Abhishek Kanyal and Mr. Mrinmoy Pal



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M.Sc (BT) 17-19 batch student Ms. Sakina Bombaywala was qualified in DBT-JRF exam

|  DEPARTMENT OF BIOTECHNOLOGY Ministry of Science & Technology, Government of India DBT-JUNIOR RESEARCH FELLOWSHIP (DBT-JRF) IN BIOTECHNOLOGY (2019) Biotechnology Eligibility Test (BET) 2019 | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
| SCORE CARD | | |
| Application Sequence Number | 1004016 | |
| Candidate's Name | SAKINA AKBAR BOMBAYWALA | |
| Roll Number | 25079360037 | |
| Sections | Maximum Marks | Marks Obtained |
| Sections A | 150 | 75 |
| Sections B | 150 | 110 |
| Total | 300 | 185 |
| CO-ORDINATOR DBT-JRF PROGRAMME | | |

Report prepared by : Dr. Selvan Ravindran



Selvan Ravindran