

PONDICHERRY UNIVERSITY
PROFILE OF THE DEPARTMENT
(FOR REACCREDITATION PURPOSE OF NAAC)

(Wherever applicable select the closest option and strike out the others which are not applicable.
 If something is Not Applicable write NA. Please use Separate Sheets wherever necessary)
(Information shall be given for the period from July 2004 to June 2009)

GENERAL INFORMATION

1. Name of the Department		Department of Biotechnology									
2. Location of Institution		Kalapet, Pondicherry-11.									
3. Name and Address of Institution		Pondicherry University, Kalapet, Puducherry 605014									
Web/URL Home page Email		www.pondiuni.edu.in									
4. Year (Date if available) of Establishment		1992									
5. Built-up Area in Sq. Ft.		6277 sq.ft.									
6. Institutional Autonomy		Yes									
7. Total Student Strength of the Department (2009)		60 (M.Sc – 37, Ph.D -23)									
8. Programs Offered:											
8.(i) Post-Graduate: (Please specify courses. If necessary use additional sheets) M.Sc Biotechnology											
Total Intake	Total Student Strength (Ist & IInd year)		Students from Pondicherry University		Students from Other Universities		Students from Other States		NRI Students		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
32											
I yr.	17	4	2	0	15	4	15	4	0	0	
II yr.	10	6	0	0	10	5	10	5	0	1	
8.(ii) Ph.D.: (Please specify subjects. If necessary use additional sheets)											
Total Intake	Total Student Strength *		Students from Pondicherry University		Students from Other Universities		Students from Other States		NRI Students		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
5	17	6	2	2	15	4	13	3	0	0	
9. Number of Permanent Teaching Faculty						Male: 7 Female: 1 Total: 8					
10. Number of Teaching Posts Sanctioned						Professor: 1 Reader: 2 Lecturer: 1 Others (Please specify): Lab. Assistant: -					
11. Number of Teaching Posts Occupied						Professor: 2 Reader: 2 Lecturer: 4 Others (Please specify):					

* Including 9 students offered admission for Ph.D Programme for the academic year 2009-10

12. List of Technical Staff:							
Sl. No.	Name	Sex	Date of Birth	Date of Super-annuation	Technical	Designation	Highest Qualification
1.	C. Balakrishnan	M	04.06.1957	30 th April 2017	-	Senior Technical Assistant	B.Sc
2.	S. Vadivelou	M	17.07.1980	-	-	Junior Lab Assistant (On consolidated basis)	B.Sc
3.	P. Vinothini	F	25.10.1983	-	-	Junior Lab Assistant (On consolidated basis)	M.Sc
13. Number of Administrative Staff				Clerical: Male: 1 Female: 0 Total: 1 Attenders: Male: 0 Female: 1 Total: 1 Peons: Male: 1 Female: 0 Total: 1 Total : 3			
14. Whether the Institution has been assessed and accredited by any Agency like NAAC/NBA/AICTE/DEC/etc.?				NAAC			
15. What are the admission policies in your institution? (Please strike our whichever is not applicable)							
(i) Admission based on Marks in Qualifying exam alone : NA							
(ii) Admission based on (i) and Entrance exam (University /State / National level): National Level Entrance Exam and University Entrance Exam.							
(iii) Admission based on (i) and / or (ii) and / or (iii) and / or Interview / Group Discussion: NA							
(iv) Counselling for students done before Admission: Yes. (For Ph.D admission)							
(v) Counselling for students done after Admission: NA							
(vi) Percentage of Reservations available for Admission under categories SC-2 + 1/ST-1+1/OBC /Sports-1/NRI-2/ Women / Category Percentage Internal students /Physically Challenged /Domicile of State / Other State students / Wards of employees, etc.							
(vii) Any others (please specify): Reservation Policy is maintained as per Govt. of India.							
16. Is there any review of the Admission Policy?				Nil			
17. When was the Admission Policy reviewed of late?				-			
18. How are the courses / programmes advertised?				Through National Newspapers, University website and Circular.			

19. Number of Working days per semester?	125 days
20. Number of Teaching days per semester?	115 days
21. Are there any policy guidelines for curriculum revision?	Curriculum revision is made periodically through PG Board of studies and School Board of studies, School of Life Sciences and approved by Academic Council. After the approval from Academic Council curriculum revision is implemented.
22. Is there any academic body for design and / or review of curriculum?	Yes, PG Board of Study Biotechnology and Academic Council
23. When was the curriculum last revised?	2008-09
24. Are the curricula revised for all programmes simultaneously or partially?	Partially
25. Does the institution have credit transfer System?	No
26. Methods of Instruction followed	Board Teaching, Power Point Presentation and Online Teaching.
27. Exam. System followed	Semester System
28. Is there Internal Assessment? If yes, what percentage of the total is this and in what faculty?	Yes. 40 % in Internal Biotechnology Exams.
29. Is there external valuation?	Yes
30. Has the institution introduced any Innovations in exam?	-
31. Are the exams held as per schedule? If not, give reasons.	Yes
32. Are the results declared as per schedule? If not, give reasons.	Yes
33. Grants received from various sources	<ol style="list-style-type: none"> 1. DBT, New Delhi - For strengthening M.Sc Biotechnology Programme releasing Funds every year. 2. Govt. of Pondicherry releasing Grant-in-Aid to support PG students admitted under domicile quota. 3. Pondicherry University Grants Non-Plan, and XI Plan. 4. UGC New Delhi – SAP grant. 5. DST, New Delhi – FIST grant. 6. CSIR, UGC, DST, DBT, BRNS – project Grants.
34. Fee structure per annum: M.Sc (I year) : Rs. 4779/- M.Sc (II year) : Rs. 3628/- Ph.D : Rs. 7660/-	

GENERAL AND INFRASTRUCTURAL FACILITIES

35. Does the Institution have Dept. Libraries? Are these connected with the main Library?	No Department Library. Books recommended for Biotechnology are available in the main Library
36. Area of the Library in Sq. Ft.	-
37. Number of Books in the Library Number of Text books in the Library Number of Reference books in Library Number of Audio cassettes Number of Video cassettes Number of CD ROMS	1453 1052 401 - - -
38. Number of Books purchased last year by Library	70 Books
39. Is there a Computer Laboratory?	Yes
40. Area of the Computer Laboratory in Sq.Ft.	242 sq. feet
41. Number of Computers in the Institution	
42. Number of Computers Available for use by Students	12
43. Number of Computers Available for Staff	7 (one per staff)
44. Is the Administration of the Institution computerized?	Yes
45. Does the Institution have an Auditorium?	Yes
46. Does the Institution have Canteen facilities?	Yes
47. Does the Institution have a Student Centre?	Yes
48. Does the Institution have facilities for Indoor Games / Reading Room / etc.?	-
49. Number of Class Rooms in the Institution Number of Laboratories Number of Reading Rooms Number of Staff Rooms Number of Common Rooms Number of Rest Rooms	2 9 - 7 1 4

RESEARCH AND DEVELOPMENT

50. Are the Faculty Members Active in Research?	Yes			
51. Research Projects Completed during last 5 years with Details:				
Name of the Principal Investigator, Name of the Project and Duration with Years	Funding Agency	Total Grants (in lakhs)	Number of Publications under the Research Project	Number of Patents, if any.
Dr. N. Sakthivel				
1. Molecular analysis of antifungal activities of antagonistic bacteria. (2000-2003)	DBT New Delhi	21.0	3	2
2. Biochemical and DNA fingerprinting of fluorescent pseudomonads isolated from agricultural field soils (2001-2004)	UGC New Delhi	4.40	1	-
3. Development of plant transformation Vectors with lipid transfer proteins (2003-2006)	DST New Delhi	14.0	6	-
4. Biocontrol of weeds using fluorescent pseudomonads (2004-2005)	CSIR New Delhi	4.29	1	-
5. Biochemical and molecular characterization of novel fluorescent pseudomonad strains and genetic analysis of antifungal metabolite production (2005-2007)	DBT New Delhi	34.0	3	-
Dr. S. Jayachandran				
1. Microbial ecology in the vicinity of a coastal Atomic Power Plant (2000-2004)	DAE Mumbai	15.0	4	-
2. Production of exopolysaccharides from marine bacteria (2001-2004)	UGC New Delhi	6.50	4	-
3. Biological control of sugarcane borer employing transgenic endophytic <i>Acetobacter diazotrophicus</i> containing PCF genes from <i>Bacillus thuringiensis</i> (2005-2008)	DBT New Delhi	26.50	-	-
4. Purification, characterization & synthesis of bioactive molecules produced by marine <i>Pseudomonas</i> strains PS03 and PS07 as antiviral and anticancer agents (2005-2008)	DBT New Delhi	44.30	2	-
Dr. V. Arul				
1. Immunoresponse of <i>Cyprinus carpio</i> and <i>Oreochromis mossambicus</i> to <i>Aeromonas hydrophila</i> and development of vaccine against <i>Aeromonas hydrophila</i> (2000-2003)	UGC New Delhi	4.65	2	Nil
Dr. N. Arumugam (Date of Joining 01.06.2006) Dr. Lata Shukla (Dt. of Joining 02.06.2005) Dr. Prashanth. K (Dt. of Joining 28.08.2006) Dr. V. Venkateswara Sarma (Dt. of Joining 29.04.2009) Dr. V. Balasubramanian (Dt. of Joining 20.04.2009)	Nil	Nil	Nil	Nil

52. Ongoing Research Projects, if any, with Details:

(Please use separate sheet if necessary)

Name of the Principal Investigator, Name of the Project and Duration with Years	Funding Agency	Total Grants (in lakhs)	Number of Publications under the Research Project	Number of Patents, if any.
Dr. N. Sakthivel				
1. Molecular diversity of fluorescent pseudomonads that degrade agricultural chemical pesticides. (2006-2009)	UGC New Delhi	7.20	2	-
2. Identification of novel functional genes that encode antifungal metabolites from metagenome of soil microbiota (2007-2010)	DBT New Delhi	56.8	-	-
3. Cloning and expression of novel cellulase genes from potent cellulase producing bacteria (2008-2011)	DBT New Delhi	21.9	-	-
Dr. S. Jayachandran				
1. Microbial biofilm formation and corrosion of firewater pipelines in NPPs (2008-2011)	AERB Mumbai	14.78	-	-
2. Metagenomics of the Andaman sea: Under explored care biosphere (2008-2011)	DBT New Delhi	34.61	-	-
3. Purification and characterization of anti-inflammatory compounds Produced by marine bacterial strains (2009-2012)	UGC New Delhi	11.85	-	-
Dr. V. Arul				
1. Studies on control of pathogenic vibrios in Penaeus monodon by probiotics isolated from shrimp and fish intestine (2006-2009)	DBT New Delhi	21.0	1	-
2. Purification characterization and large scale production of bacteriocin from the bacterial probiotics Enterococcus faecium MC13, Lactococcus garvie LC149 and PI80 as food biopreservatives and probiotics.	DBT New Delhi	38.9	1	-
Dr. N. Arumugam	Nil	Nil	Nil	Nil
Dr. Lata Shukla				
1. Identification of microRNAs associated with plant regeneration capacity of different genotypes of indica rice (2009-2012)	DST- New Delhi	17.0	-	-
Dr. Prashanth. K				
1. Investigations on allelic polymorphisms in genes encoding cell surface and cell adhesion molecules associated with the pathogenesis of Staphylococcus epidermidis infection (2009-2012)	UGC New Delhi	7.34	-	-
Dr. V. Venkateswara Sarma (Date of Joining 29.04.2009) Mr. V. Balasubramanian (Date of Joining 20.04.2009)	Nil	Nil	Nil	Nil

53. Has the Institution organized any Research Meetings During the last 5 years?		Yes		
54. Details of Research Meeting, if any, organized during last 5 years. (Please give separate list with full details, wherever necessary)				
Name of the Meeting	Level (National / International)	Type of Meeting (Seminar/ Workshop/ Conference/ Symposia/ Other (specify))	Number of Persons who attended (Male: Female: Total:	Dates of the Meeting
National Science Day Celebration	National	Seminar	Male : 124 Female : 98 Total : 26	2004
National Science Day Celebration	National	Seminar	Male : 137 Female : 112 Total : 25	2005
Refresher Course in Biotechnology	National	Refresher Course	Male : 21 Female : 9 Total : 30	06.07.2006 to 26.07.2006
Bidecennial Celebrations	National	Seminar	Male : 216 Female : 165 Total : 51	27.10.2006
Refresher Course in Biotechnology	National	Refresher Course	Male : 15 Female : 1 Total : 16	13.08.2008 to 02.09.2008
National Science Day Celebration	National	Seminar	Male : 162 Female : 58 Total : 220	28.02.2007
55. Has the Department Participated in any Special Schemes like UGC DRS / DSA / COSIP / ASIST / DST FIST / DBT , others. (Please Specify).		1. UGC DRS, New Delhi has sanctioned Rs.60 lakhs to the Department for 5 years. (Vide Sanction Lr. No. F.3-21/2009(SAP-II dated 31 st March 2009)) 2. DBT FIST Program - 2008 has sanctioned Rs.70 lakhs to the Department for 5 years. (Vide Sanction Lr. No. SR/FST/LSI-059/2008 dated 9/1/2009).		
56. Has the Institution introduced any Innovations in Teaching (Please give details)		Power Point Presentation and Online Teaching.		

INSTITUTIONAL / DEPARTMENTAL INFORMATION

57. Annual Budget of the Institution / Department during last 5 years.		Rs.62.3 lakhs											
58. Research Funds per Faculty Member during last 5 years		Dr. N. Sakthivel - 163.59 lakh Dr. S. Jayachandran - 153.54 lakh Dr. V. Arul - 64.55 lakh Dr. Lata Shukla - 17.0 lakh											
59. Ratio of Students to Faculty during last 5 years		2004-05 - 4:1 2005-06 - 3:1 2006-07 - 4:1 2007-08 - 3:1 2008-09 - 3:1 Overall Ratio 4:1											
60. Ratio of Number of Applications to Available Intake during last 5 years		Ratio of Applications and the allotment of students to M.Sc Biotechnology Program to all Participating Universities in India every year is being maintained by JNU New Delhi.											
61. Ratio of Number of Students Appearing for Exam. to Number of Successful Candidates during last 5 years (Final exam. Only)		1:1											
62. Number of Students Admitted to Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years													
Program	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
M.Sc	04-05	5	4	1	-	1	-	-	-	-	-	7	4
M.Sc	05-06	4	4	1	1	-	-	-	-	-	-	5	5
M.Sc	06-07	8	7	2	1	-	1	-	-	-	-	10	8
M.Sc	07-08	6	8	1	1	1	-	-	-	-	-	8	9
M.Sc	08-09	9	3	3	1	1	0	-	-	5	0	18	4
63. Number of Student Drop-outs in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years													
Program	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
M.Sc	04-05	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	05-06	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	06-07	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	07-08	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	08-09	-	-	1	-	-	-	-	-	-	-	1	0
64. Number of Students who Appeared for Final Exam. In Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years													
Program	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.
M.Sc	04-05	5	4	1	-	1	-	-	-	-	-	7	4
M.Sc	05-06	4	4	1	1	-	-	-	-	-	-	5	5
M.Sc	06-07	8	7	2	1	-	1	-	-	-	-	10	8
M.Sc	07-08	6	8	1	1	1	-	-	-	-	-	8	9
M.Sc	08-09	9	3	2	1	1	0	-	-	5	0	17	4

65. Number of Students who Passed Final Exam. In Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem	Male	Fem	Male	Fem	Male	Fem	Male	Fem	Male	Fem
M.Sc	04-05	5	4	1	-	1	-	-	-	-	-	7	4
M.Sc	05-06	4	4	1	1	-	-	-	-	-	-	5	5
M.Sc	06-07	8	7	2	1	-	1	-	-	-	-	10	8
M.Sc	07-08	6	8	1	1	1	-	-	-	-	-	8	9
M.Sc	08-09	9	3	2	1	1	0	-	-	5	0	17	4

66. Number of Students who Secured University Ranks (please specify) in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem
M.Sc	04-05	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	05-06	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	06-07	-	-	-	-	-	-	-	-	-	-	0	0
M.Sc	07-08	1	-	1	-	-	-	-	-	-	-	2	0
M.Sc	08-09	-	1	1	-	-	-	-	-	-	-	1	1

67. Number of Students who won Recognitions in Various Fields (Academic / Cultural / Sports, et cetera (please specify) in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program & Field of Recognition	Year	General		SC		ST		Cat. 1		OBC		Total	
		Male	Fem.	Male	Fem	Male	Fem	Male	Fem	Male	Fem.	Male	Fem
	04-05	-	-	-	-	-	-	-	-	-	-	0	0
	05-06	-	-	-	-	-	-	-	-	-	-	0	0
	06-07	-	-	-	-	-	-	-	-	-	-	0	0
	07-08	-	-	-	-	-	-	-	-	-	-	0	0
Sports	08-09	-	-	-	-	1	-	-	-	-	-	1	0

68. Any Other Information

69. Contact Information of Institution / Department

Name of Contact Person	Dr. N. Sakthivel Professor and Head
Address for Communication	Department of Biotechnology, Pondicherry University, Kalapet, Pondicherry- 605 014.
FAX Numbers	0413-2654300
Telephone Numbers (please include codes)	0413-2654430
E-mail	puns2005@gmail.com

70. Any efforts made by the Department to promote Campus Recruitment -

Industry placement/recruitment is arranged through Biotechnology Consortium India Ltd., (BCIL).

71. Healthy practices of the Department.

Impartial treatment of students

ADDITIONAL INFORMATION

Are there any overseas students?

Students are obtaining fellowship and placement to continue their studies in abroad.

List of students in abroad.

1. Deepak Dash
Research Scholar
Institute of Neuroinformatics, Ruhr University
Germany.
2. Harini Bathyulapalli
Research Scholar, Alabama University,
USA.
3. Tenzin Lhawang
Research Scholar
Canada
4. Sourav Datta
Research Scholar
Gothenberg University
Sweden
6. Devrishi Goswani
Research Scholar, Max Planck Institute
Germany
7. Nirakar Sahoo
Research scholar, University of Jena
Germany
8. Juhi Ojha
Research Scholar, Georgia Medical College,
Georgia, USA.
9. Jayendra Kumar
Research Scholar,
Germany
10. Arpita Singh
Research Scholar,
USA
11. Krishna Naskar,
Research Scholar
USA.
12. Shamima Akthar
Research Scholar
Germany.

13. Uma Karthika
Research Scholar
Canada.
14. Divya Dahiya
Research Scholar
Netherland.
15. Pushpalatha,
Research Scholar,
Germany.

Has the Department organized Lectures - Yes

Details of Lectures organized by the Department

1. Dr. Muralidharan Jayaraman, Scientist, Department of Cell Biology and Physiology, Washington University, St. Louis, Mo, USA. Delivered lecture on “Novel mechanism to augment modulatory G-protein signaling in synaptic maturation” on 19th March 2007.
2. Dr. R. Sunish Kumar, Scientist, Department of Molecular Microbiology, Case School of Medicine, Case Western Reserve University, Ohio, USA. Delivered a lecture on Concessions of a lysozyme homolog in regulating asymmetric cell division of a bacterium on 25.1.2008.
3. Dr. Shivakumar Vasanth, Scientist, National Institute of Environmental Sciences, NIH, Triangular Park, North Carolina, USA. delivered Lecture On “Cleavage and nuclear translocation of the cytoplasmic tail of polycystin, the protein affected in polycystic kidney disease” on 27.2.2008
4. Dr. K.K Narayanan, Managing Director, Metahelix Life Sciences Pvt Ltd, Bangalore delivered Lecture on Does India Need the Transgenics? & Creating Value in Agriculture through Novel Biotech Products and Services on 18.3.2008
5. Dr. Ashok Pandey, Deputy Director, Biotechnology Division, National Institute for Interdisciplinary Science and Technology, (Formerly RRL), CSIR, Trivandrum delivered a lecture on “New Generation Biofuels: Status and perspectives” on 19.3.2008
6. Dr. A.V. Rao, Deputy Director, Arid Zone Research Center, Udaipur delivered Lecture On “Bioremediation” & “Development of transgenics for arid zone cultivation” on 20.03.08
7. Dr. R. C. Kuhad, Professor & Head, Department of Microbiology, University of Delhi, New Delhi delivered Lecture On “Bioconversion of Agro-byproducts” & “Bioprospection of secondary metabolite from fungi” - Date: 21.3.2008
8. Dr. S. Mathavan, Visiting Scientist, Genome Institute, Biopolis, Singapore delivered lecture on “Application of Microarray in genetics – Model: Zebra fish” on 10.7.2008

9. Dr. Arunkumar Dhayalan, Visiting Scientist, Department of Biochemistry JACOBS University, Germany. Delivered a lecture on “Protein-protein interaction analysis of epigenetic protein domains” on 29.08.2008.
10. Dr. Yaspal Singh Sodhi, Principal Scientist, Centre for Genetic Manipulation of Crop Plants, Dhara Fruit and Vegetable Company Limited (DOFCO), Baroda. Delivered a lecture on “Recent Developments in Plant Breeding and Advances in *Brassica* Breeding” on 06.09.2008.
11. Dr. Natesan Sankar, Research Scientist, Department of Microbiology, Northwestern University Medical School, Chicago, USA. Delivered a lecture on “Breaking Quiescence: Intriguing relationships and unexpected consequences” on 14.11.2008.
12. Dr. B. Velmurugan, Research Scientist, University of Colorado, Health Science Center, Colorado, USA. Delivered lecture on “Chemoprevention of colon cancer by silibinin” on 08.12.2008.
13. Jyothi Sunil, Expert Biobase Databases India Pvt. Ltd., Bangalore. Delivered lecture on “Gene Expression Analysis Software – Upstream and Downstream analysis” on 29.01.2009.
14. Dr. A. Gopalakannan, Intern Scientist, West Sea Mariculture Research Centre, NFRADI, South Korea. Delivered lecture on “Heterotrophic Bacterial community study in limited water exchange shrimp culture system” on 09.04.2009.

If yes, what is the nature and extend of student participation? Average of 100 Students.

Distinguished visitors to Department of Biotechnology:

1. Prof. Sukhadeo Thorat, Chairman UGC, New Delhi.
2. Dr. M. K. Bhan, Secretary, DBT, New Delhi
3. Dr. S. Selvamurthy, Comptroller, DRDO, New Delhi.
4. Dr. Upendra Nath Behera, Joint Secretary, DBT, New Delhi.
5. Dr. J. Shanmugam, Dean, Gulf Medical College, Ajman, UAE.
6. Prof. Takashi Yamane, Nagoya University, Japan.
7. Dr. K. Narayanan, Director, Project Directorate of Biocontrol.
8. Dr. P. Balasubramanian, Director, CPMB, Tamil Nadu Agriculture University, Coimbatore.
9. Dr. Arun Balakrishnan, Director, Center for Biotechnology, Anna University. Chennai
10. Dr. Devaraj, Head, Department of Life Sciences, University of Madras, Chennai.
11. Dr. D. J. Bagyaraj, Head, University of Agricultural Sciences, Bangalore.
12. Dr. K. P. Gopinath, I.I.Sc., Bangalore.
13. Dr. Y. D. Sharma, AIMS, New Delhi.
14. Dr. Aparna Gupta, Head, Dept. of Animal Sciences, University of Hyderabad, Hyderabad.

15. Dr. B. B. Chattoo, Former Vice Chancellor, Head, Dept of Applied Biology, M.S. University, Baroda.
16. Dr. H. S. Prakash, University of Mysore, Mysore.
17. Prof. S. Shunmugasundaram, Head, Microbial Technology, Madurai Kamraj University, Madurai.
18. Dr. K.S.P.K. Subba Rao, Director, JIPMER, Pondicherry.
19. Dr. P. Kaliraj, Director, A C College of Technology, Chennai.

No. of students who have passed the following during the last six years

▪ NET	:	37
▪ SLET	:	35
▪ CAT	:	Nil
▪ TOEFEL	:	10
▪ GRE	:	17
▪ G-MAT	:	Nil
▪ KAS	:	Nil
▪ IAS	:	Nil
▪ Defense entrance	:	Nil
▪ Ph.D (Abroad)	:	15

Titles of Research Projects :

Dr. N. Sakthivel

1. Molecular analysis of antifungal activities of antagonistic bacteria (DBT project – completed, 2000-2003).
2. Biochemical and DNA fingerprinting of fluorescent pseudomonads isolated from agricultural field Soils (UGC project – completed, 2001-2004).
3. Development of plant transformation Vectors with lipid transfer proteins (DST project- completed, 2003-2006)
4. Biocontrol of weeds using fluorescent pseudomonads (CSIR project – completed, 2004-2005)
5. Biochemical and molecular characterization of novel fluorescent pseudomonad strains and genetic Analysis of antifungal metabolite production (DBT project – completed, 2005-2007).

6. Molecular diversity of fluorescent pseudomonads that degrade agricultural chemical pesticides. (2006-2009)
7. Identification of novel functional genes that encode antifungal metabolites from Metagenome of soil Microbiota (2007-2010)
8. Cloning and expression of novel cellulase genes from potent Cellulase producing bacteria (2008-2011)

Dr. S. Jayachandran

1. Microbial ecology in the vicinity of a coastal atomic power plant (DAE project – Completed, 2000-2004).
2. Production of exopolysaccharides from marine bacteria (UGC project – completed, 2001-2004).
3. Biological control of sugarcane borer employing transgenic endophytic *Acetobacter diazotrophicus* containing PCF genes from *Bacillus thuringiensis* (DBT completed, 2005-2008).
4. Purification, characterization & synthesis of bioactive molecules produced by marine Pseudomonas strains PS03 and PS07 as antiviral and anticancer agents (DBT project Completed, 2005-2008).
5. Microbial biofilm formation and corrosion of Firewater Pipelines in NPPs. (2008-2011)
6. Metagenomics of the Andaman Sea: Under explored care biosphere (2008-2011)
7. Purification and characterization of anti-inflammatory compounds Produced by marine bacterial strains (2009-2012)

Dr. V. Arul

1. Immunoresponse of Cyprinus carpio and Oreochromis mossambicus to Aeromonas hydrophila and development of vaccine against Aeromonas hydrophila.(UGC-completed, 2000-2003).
2. Studies on control of pathogenic vibrios in Penaeus monodon by probiotics isolated from shrimp and fish intestine.2006- 2009 -DBT -sanctioned – Rs. 21lakhs. (2006-2009).
3. Purification characterization and large scale production ob bacteriocin from the bacterial probiotics Enterococcus faecium MC13, Lactococcus garvie LC149 and PI80 as food biopreservatives and probiotics.-DBT –38.9 lakhs (2007-2010).

Dr. Lata Shukla

1. Identification of microRNAs associated with plant regeneration capacity of different genotypes of indica rice (2009-2012)

Dr. Prashanth. K

1. Investigations on Allelic Polymorphisms in genes encoding cell surface and cell adhesion molecules associated with the pathogenesis of *Staphylococcus epidermidis* infection (2009-2012)

Is there any Student Counseling center in the Department Yes

Is there any Grievance Redressal cell Yes

When did the Alumni – Association of the department got established? How many members are actively involved? Give enrolment statistics.

Establishment of Alumni-Association is underway.

Place: Puducherry

Date: 18.08.2009

Signature with Seal of Chairperson



**PONDICHERY UNIVERSITY
SCHOOL OF LIFE SCIENCES
DEPARTMENT OF BIOTECHNOLOGY**

**Dr. N. Sakthivel
Professor and Head.**

PU/DBT/2009-10/NAAC/

Dt. 18.08.2009

To
The Director,
Culture and Cultural Relations,
Pondicherry University.
Pondicherry -14.

Sir:

Sub: Forwarding of Profile of the Department for Reaccreditation Purpose of NAAC- Reg.
Ref: Lr.No. PU/DR(P&D)/NAAC/08/09 Dated 28.07.2009.

With reference to the letter cited above, I am forwarding herewith the Profile of the Department for Reaccreditation Purpose of NAAC (hard copy & soft copy) for further necessary action at your end.

Thanking you,

Yours faithfully,

(N.Sakthivel)

Encl: as above.

Copy to
The Deputy Registrar (P&D), Pondicherry University, Pondicherry-14