

Department Of Botany-Biotechnology

The Department of Botany established in 1972, at present offers UG, PG and Ph.D. programmes in Botany. The Department has been highly appreciated by NAAC for its achievements. *The Department has been identified as one of the highly rated Department under College of Excellence.*

All the 5 faculty members possess Ph.D. (Science) Degree in Botany and are actively involved in research. There are 4 recognized research guides for Ph.D. in Botany and M.Sc. (by research) in Botany.

Two Major Research Projects sanctioned by UGC and One Major Research Project Sanctioned by NMPB, AYUSH, New Delhi has been completed. Similarly One Major Industrial Research Project sanctioned by Pepsico India Holdings Pvt. Ltd. has been completed. One Major Research Project sanctioned by UGC is in progress.

Department has founded 'Norkett, Chopra, Gangulee and Udar Memorial Lecture' for the students of Botany at University level, which is organised every year since last 7 years.

The Department aims to be a Centre of Excellence.

The Department of Biotechnology established in 2002, at present offers UG, PG and Ph.D. programmes in Biotechnology. There are 4 recognized research guides for Ph.D. in Biotechnology and M.Sc. (by research) in Biotechnology.

Name of the research centre:

Year of establishment :

No. of Seats for Ph.D.:

Botany-Biotechnology


Botany (M.Sc.)-1985

(Ph.D.)-1991

Biotechnology- 2006-07

Botany- 20

Biotechnology-10

Research guides in the centre	
Dr. Naresh Chandra Principal Former Pro Vice Chancellor, University of Mumbai	
<p>He has completed Post graduation and M. Phil in Botany. He has been awarded Ph.D. in 1979 for the thesis titled: “Bio-Chemical changes accompanying seed development and viability in <i>Mangifera indica L</i>”. He has a rich teaching experience for U.G. Teaching for more than 36 years and P.G. Teaching for more than 21 years (3 years for M. Phil.). He is a recognized Research Guide of University of Mumbai for M.Sc. and Ph.D. (Science) Degree in Botany (since 1991) and Biotechnology (since 2007). He is the Fellow and Life Member, Indian Botanical Society (FBS). He has worked on a major research project sanctioned by UGC and on a major research project sanctioned by NMPB, Department of AYUSH. He has published several research papers in National as well as International journals. He is the Associate Editor (West Zone) of “<i>Journal of Cell and Tissue Research</i>”.</p> <p>He has been the Principal of Birla College of Arts, Science and Commerce, Kalyan since 15th October 1988. He has worked as the Pro-Vice Chancellor, University of Mumbai, twice (from 17th April 1997 to 4th May 2000 and from 12th April 2012 to 11th May 2015) and President, University of Mumbai College Principals’ Association (2003 –2012).</p> <p>He has been Chairman / Member of several Expert Committees of Universities / UGC. As Chairman, Peer Team, NAAC visited many colleges in the country. He has visited several Universities/Institutions in UK, USA, Australia and China. In 2008 he was invited to attend <i>International Visitor Leadership Program on “Higher Education – Administration and Curriculum Development: A Project for India”</i>, at Washington and New York from 3rd to 7th November, 2008. Recently he has attended five days Workshop on “<i>Multidisciplinary Approach to University Leaders Development</i>” held at Harvard University, USA from 30th July, 2012 to 3rd August, 2012.</p> <p>Research Contribution:</p> <p>No. of Publications: 55; No. of papers presented: 43; Organized / participated in International / National / State Level Seminars / Conferences / Workshops: 69; Guided Ph. D. Students: 18 (Degree awarded); Students pursuing Ph. D.: 02</p> <p>Thrust area of research</p> <ul style="list-style-type: none"> ○ Plant Tissue Culture ○ Stress Physiology 	

- Medicinal Plants
- Phytochemistry
- Environmental Biology

Dr. Jossy Varghese

Sr. Vice Principal and Head, Department of Biotechnology



He has completed Post graduation in Botany with specialization in Palynology in 1982 from Institute of Science, Mumbai. Awarded Ph.D. (Science) Degree in Botany in 2008 for the thesis titled "*In vitro* culture studies of *Helicteres isora* L." under the guideship of Dr. Naresh Chandra. He has been working as a faculty in Department of Botany, Birla College from July 1983.

Currently, he is the Sr. Vice Principal, Science, and Head, Dept, of Botany. He is also the Chairman, Examination Committee. He is also member of various committees. He is a Recognized Research guide for the University of Mumbai for, M. Sc. by Research in Botany and Biotechnology and Ph. D. (Science) Degree in Botany. He has completed 2 Minor Research Projects sanctioned by UGC. He has published 25 research papers in National Journals and presented 20 posters in National and International conferences. He has attended 25 Conferences and 18 workshops.

Currently 5 students are working under him for their Ph.D. (Science) Degree in Botany.

Thrust area of research

1. Plant Tissue Culture,
 2. Phytochemistry,
- Herbal Medicines,

Dr. Meeta Bhot

Associate professor



She has completed her Post graduation in Botany with specialization in Algae from University of Pune. Awarded Ph.D. in 2008 for the thesis titled “Tissue culture studies of croton varieties.” She has been working as a faculty in Department of Botany, Birla College for the past 27 years. She has an experience of several years in Post graduate teaching and research. Guided several PG- research projects

Currently, she is an Associate Professor in the Department of Botany. She is the Director, Women’s Studies Center and Convenor, Women Development Cell. She is the Co-ordinator for Art’s Circle, Birla College. She is involved in organizing various seminars, conferences, and orientation programmes at Birla College in the capacity of Joint Secretary/Treasurer/ member of Local Organizing Committee etc. She is a Recognized Research guide for the University of Mumbai for, M. Sc. and Ph. D. Degree in Botany and Biotechnology.

Research Contribution:

No. of Publications: 23; No. of papers presented: 40; Seminar Conference Attended: 24; Workshops / Training/ Orientation programs Attended: 19; Students pursuing Ph. D.: 02 (Botany), 03 (Biotechnology). Guide M.Sc. – II Biotech, Herbal sciences and Botany students for their project work every year

Thrust area of research

- Plant Tissue Culture
- Microbiological Techniques
- Phycology
- Biotechnology

Dr. Avinash Patil

Vice Principal and Associate Professor



He has completed Post graduation in Botany with specialization in Taxonomy of Spermatophyta from St. Xavier's College, Mumbai. He has been awarded Ph.D. in 2002 for the thesis titled 'PHYSIOLOGY OF CROP PLANTS: Response of *Vigna unguiculata* L. Var. Konkan Sadabahar to water stress' from University of Mumbai. He has been working as a faculty in Department of Botany, Birla College since 1990.

He is a member of-

RRC in Bioanalytical Sciences, University of Mumbai since 24th June, 2016

Ad-hoc Board of Studies in Bioanalytical Sciences, University of Mumbai since 31st August, 2015

IQAC since June 2011

Editorial Board, International Journal of Life Sciences.

Tree Authority Committee of Thane Municipal Corporation

District Environmental Impact Assessment Committee, Thane Collectorate since September 16, 2016

He is a life Member of-

Society of Science and Environment, India

Society of Applied Biology and Biotechnology, Mumbai

Society of Ethnopharmacology, Kolkatta, India

The Indian Science Congress Association, Kolkatta, India.

He is a Recognized Research guide for the University of Mumbai for, M. Sc. and Ph. D. (Science) Degree in Botany and Biotechnology. He has worked on Major Research Project sanctioned by UGC, NMPB (Dept. of AYUSH) and Pepsico India Holding Pvt. Ltd. He also worked on Minor Research Projects sanctioned by UGC and University of Mumbai. Provided consultancy to Thane Municipal Corporation, Thane for Bioremediation of Lakes. Visited Clayton State University, Atlanta, USA during March 2011 and University of West Georgia, Georgia, USA during March 2015 under faculty exchange programme.

Research Contribution:

No. of Publications: 40; No. of articles published in edited books: 05; No. of papers presented: 43; No. of Books authored: 04; No of talks delivered at Orientation/Refresher/Seminar/Conference: 11; Seminar Conference Attended: 44; Workshops / Training programs Attended: 23; Guided Ph. D. Students: 02 (Degree awarded); Students pursuing Ph. D.: 07; Major Research Projects Completed: 02; Industry Research Project Completed: 01; Consultancy Provided: 02.

Thrust areas of research:

- Plant Tissue Culture,
- Medicinal Plants
- Herbal Medicines,
- Ethnobotany
- Taxonomy

Dr. Geeta Unnikrishnan

Associate professor and Head,
Department of Zoology.



She has completed Post graduation in Zoology with specialization in Animal Physiology. Awarded Ph.D. in 2002 for the thesis titled “Effects of Antidepressants in Rats”. She has been working as a faculty in Department of Zoology, Birla College for the past 30 years. She has an experience of 20 years in Post graduate teaching and research. She has guided several PG- research projects.



She is currently the Head, Department of Zoology, Birla College. She has worked in capacity of co-ordinator IQAC, PG Environmental Sciences, UGC Sponsored Addon Course in Bioinformatics and DBT-Star College Scheme. Recognized as a Research guide for M.Sc. (2006) and Ph.D (2009) Zoology and Ph.D. in Biotechnology (2010) (University of Mumbai). 02 Students have completed Ph.D in Biotechnology and 02 are






pursuing Ph.D in Biotechnology and 02 in Zoology.



➤ **Thrust area of research**

- Animal Tissue Culture
- Environmental Biotechnology
- Physiology
- Molecular Biology
- Bioinformatics

Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. Naresh Chandra




No.	Name Of Student	Year of Award	Photograph
1.	Ms. Shubhangi Parulekar (M.Sc) Salt Tolerance studies in Rice(<i>oryza Sativa</i>)	1987	
2.	Dr. Anita Phatak Effect of Nacl Salinity on some Aspects of physiology of seed Germination, seedling growth and early Plant growth of <i>Cajanus cajan (L)Millsp.</i> Var. Konkan-Tur-1	1996	
3.	Dr. Darshana Patil Physiology of crop plants: Response of Dolichos lablab L. Va. Kon Val-2 to different levels of salinity	1997	
4.	Dr. G.T Paratkar Physiology of Halophytes: Studies on some aspects of senescence in <i>Salvadora persica (L.)</i>	1998	
5.	Dr. Marie Castello <i>Invitro</i> Culture studies of <i>Bixa Orellana L.</i>	2001	
6.	Ms. Sugandha Godambe (M.Sc) Effect of Nacl salinity on germination and seedling growth of <i>Mung (Vigna radiate L. var. TAP -7)</i> and <i>Nagli (Eleusine coracana Gaertn</i> var. Dapoli, Nagli-2)	2002	
7.	Dr. Avinash Patil Physiology of crop plants : Response of <i>vigna unguiculata (Linn)</i> Var. Konkan Sadabaharto water stress	2002	
8.	Dr. Chandrashekhar Urban ecosystem- A case study of the city of Thane	2002	




9.	Dr. Sunita Shailajan Standardization of herbal medicines: <i>Astracantha longifolia</i> (Neer)	2002	
10.	Dr. Moitreyee Saha <i>In vitro</i> culture studies of different varieties of <i>Carica Papaya L.</i>	2003	
11.	Dr. Devaki B. Differential requirements of Invitro culture of varieties of Ashwagandha (<i>Withania somnifera</i> L.) and identification of somaclonal variants by DNA fingerprinting	2007	
12.	Dr. Jossy Varghese <i>In vitro</i> culture studies of <i>Helicteris isora</i> Linn.	2008	
13.	Dr. Meeta Bhot Tissue culture studies of Croton varieties.	2008	
14.	Dr. Anju Varshney Antimicrobial activity of <i>Bacopa monnerii</i>	2013	

15.	Dr. Puja Gupta Study of Antidiabetic, Antimicrobial and Antioxidant property of plant parts of <i>Butea monosperma</i> (Lamk.) Taub.	2013	
16.	Dr. Abhishek Sharma Phytochemical and Pharmacological studies on <i>Bryophyllum pinnatum</i> (Lam) Kurz.	2014	


Ph.D. (Science) Degree in the subject of Biotechnology


Name of Guide	Dr. Naresh Chandra
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No.	Name Of Student	Year of Award	Photograph
1.	Dr. (Mrs.) Maninder Kaur Dhaliwal Study of production of carotenoids by pigmented yeasts.	2012	
2.	Dr. (Ms.) Indu Sanadhya Comparative study of Effect of Elicitors on production of secondary metabolites in calli derived from <i>Anthocephalus indicus</i> A. Rich.	2013	
3.	Dr. (Ms.) Sayali R. Naphade Biodegradation of hazardous pesticides using soil microbes.	2013	

4.	Dr. (Ms.) Annika A. Durve Bioaccumulation and nanoparticle synthesis of heavy metals using microbial isolates.	2014	
5.	Mrs. Bharati Devaguptapu Transgenic approaches for nutritional quality improvement of food crops. (Synopsis submitted)	Registered in 2008	
6.	Mrs. Vandana Gupta Application of organic wastes for biosorption of heavy metals and nanoparticle synthesis. (Ongoing)	Registered in 2016	

Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. Anita Phatak


No.	Name Of Student	Year of Award	Photograph
1.	Dr. Vijaya Lobo Study of antioxidant properties of some Indian medicinal plants.	2011	
2.	Ms. Radhika B. J (MSc) Micropropagation studies on selected <i>Dendrobium</i> hybrid Hiang Beauty	2011	
3.	Dr. Shashi Naghare Phytochemical studies of <i>Mucuna pruriens</i> (L.) DC	2013	




4.	Ms. Geeta Kumary (MSc) Promising wild ornamental plants of Thirvanananthapuram, District (Kerala).	2013	
5.	Ms. Sulekha Phadke (MSc) Comparative study of phytochemical constituents of different plant parts and callus of <i>Baliospermum montanum</i> (Willd.) Muell.-Arg.	2016	
6.	Mr. Swapneel Koli Comparative study of phytochemical constituents and antidiabetic potential of <i>Lagenaria scceraria</i> (Molina) Standl. and <i>Trichosanthes dioica</i> Roxb. frosts.	2016	

Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. G. T. Dabhade



No.	Name Of Student	Year of Award	Photograph
1.	Dr. Vijay Kisan Hile Studies on mosses of Thal Ghats And Tryambhak in Western Ghats	2007	




Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. Madhuri Sharon

No.	Name Of Student	Year of Award	Photograph
1.	Dr. Sejal Shah In Vitro culture of leaves and Roots of <i>Curculigo orchiodes</i> in presence of carbon Nano-particles	2007	


2.	Dr. Arvind Gupta Secondary metabolite contents and <i>in vitro</i> culture study of <i>Lasiosiphon eriocephalus</i> (Syn. <i>Gnidia glauca</i>)	2009	
3.	Dr. Goldie Oza Biosynthesis of nano-metal and/or its complex by algae and bacteria	2013	
4.	Dr. Sunil Pandey Biosynthesis of nano-metal and/or its complex by plants and fungi	2013	


Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. Jossy Varghese

No.	Name Of Student	Year of Award	Photograph
1.	Mrs. Hareeshma Shiju Pharmacological studies on multipurpose tree species – <i>Khaya senegalensis</i> A.Juss. (Ongoing)	Registered in 2013	
2.	Mr. Sachin S. Lad. Study of Phytoremediation Properties of Some Plants from Industrial Area (Ongoing)	Registered in 2013	




3.	Ms. Misbah Hamid Shaikh Antioxidant and Antimicrobial Studies on <i>Gmelina arborea</i> Roxb. (Ongoing)	Registered in 2013	
4.	Ms. Anita Poonia “Study of two varieties of <i>Polyalthia longifolia</i> with special reference to antimicrobial, antioxidant and anticancer potential”. (Ongoing)	Registered in 2015	
5.	Ms. Vibha Aggarwal Study of Bioactive compounds from fruit of two species of Annonaceae: with reference to Anticancerous activity against human cancer cell lines. (Ongoing)	Registered in 2016	

Ph.D. (Science) Degree in the subject of Botany	
Name of Guide	Dr. Meeta Bhot

No.	Name Of Student	Year of Award	Photograph
1.	Mr. Vishal Rasal Planktonic Diversity, Biomonitoring and Phytoremediation of selected urban lakes in Mumbai. (Ongoing)	Registered in 2013	






2.	Mrs. Ujwala Patil Bioprospecting of Algae. (Ongoing)	Registered in 2013	
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Ph.D. (Science) Degree in the subject of Biotechnology	
Name of Guide	Dr. Meeta Bhot

No.	Name Of Student	Year of Award	Photograph
1.	Ms. Shivani Kakkar Bioprospecting of few fruit and vegetable peel waste	2017	
2.	Ms. Meenakshi Barua Evaluation of anticancer activity of few <i>Cassia</i> species (Ongoing)	Registered in 2014	
3.	Mrs Varsha Shelke <i>In vitro</i> culture study and evaluation of anticancer activity of <i>Asclepias curassavica</i> L. (Ongoing)	Registered in 2015	

Ph.D. (Science) Degree in the subject of Botany





Name of Guide	Dr. Avinash Patil
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No.	Name Of Student	Year of Award	Photograph
1.	Dr. Priyanka Sharma <i>In vitro</i> culture study and phytochemical analysis of <i>Crataeva tapia</i> Linn. sp. <i>odora</i> (Jacob.) Almeida (syn. <i>C. religiosa</i> var. <i>nurvula</i> Hook. f.)	2015	
2.	Dr. Aqsa Ansari Standardization of Unani Polyherbal Formulation for Vitiligo (Bars.)	2016	
3.	Ms. Kanchan Nene <i>In vitro</i> culture studies of <i>Stevia rebaudiana</i> Bertoni for production of steviol glycosides. (Ongoing)	Registered in 2013	
4.	Ms. Anuttara Shah Evaluation of nutritional content, <i>in vitro</i> studies and antioxidant properties of an important medicinal plant, <i>Moringa pterigosperma</i> Gaertn. (Ongoing)	Registered in 2013	
5.	Ms. Shraddha Vichare Phytochemical analysis, antioxidant activity and anti-obesity study of <i>Momordica dioica</i> Roxb. fruits. (Ongoing)	Registered in 2013	



6.	Mr. Yogesh Salavi Screening of Mangrove Plants for Medicinal Properties (Ongoing)	Registered in 2013	
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Ph.D. (Science) Degree in the subject of Biotechnology

Name of Guide	Dr. Avinash Patil
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No.	Name Of Student	Year of Award	Photograph
1.	Ms. Khyati Vadera Screening of some Indian medicinal plants for anticancer activity	2017	
2.	Mr. Kishore Desai Characterization of <i>Mycobacterium tuberculosis</i> causing MDR-TB and XDR-TB through Genomic Studies. (Ongoing)	Registered in 2015	
3.	Ms. Leena Koshti <i>In vitro</i> culture studies of <i>Gymnema sylvestre</i> R. Br. for production of Gymnemic acid.	Registered in 2017	
4.	Ms. Priyanka Gupta Phytochemical Characterization and evaluation of <i>Careyaarborea</i> Roxb. for its antioxidant, antibacterial and <i>in vitro</i> anticancer studies.	Registered in 2017	

Ph.D. (Science) Degree in the subject of Biotechnology	
Name of Guide	Dr. (Mrs.) Geetha Unnikrishnan

No.	Name Of Student	Year of Award	Photograph
1.	Dr. (Mrs.) Sonali ZankarPatil Thermophiles And Bioremediation: The New Insights From Hot Water Springs	2016	
2.	Dr. (Mrs.) Anju R Unnithan A Phytolavicide Against Aedesaegypti,an edge over Dengue Fever: An Eco-Friendly Approach	2016	

List of Major Research Projects

Name of Investigator	Title of project	Amount Sanctioned
PI-Dr. Naresh Chandra Completed	“ <i>In vitro</i> culture studies of <i>Lawsonia inermis</i> L. for generating coloured callus for the mass production of herbal hair dye and coloured streaks.”	Sanctioned by UGC Rs. 8.74 Lac
PI-Dr. Anita Phatak and Co PI- Dr. Avinash Patil Completed	“Phytochemical analysis and Pharmacological evaluation of <i>Averrhoa carambola</i> L., <i>Lagenaria vulgaris</i> Ser. and <i>Curculigo orchiodis</i> Gaertn. with reference to antidiabetic and antihyperlipaemic properties.”	Sanctioned by UGC Rs. 10.54 Lac
PI-Dr. Naresh Chandra Co PI- Dr. Anita Phatak, Dr. Avinash Patil, Dr. Darshana Patil)	“Evaluation of some Indian Medicinal Plants for Anticancer properties”	Sanctioned by NMPB, Dept. of AYUSH Rs. 23.00 Lac in 2012
PI- Dr. Avinash Patil	Industrial Research Project from Pepsico India Holdings Pvt. Ltd.	Sanctioned amount of Rs. 9.54 Lac in 2012
PI-Dr. Meeta Bhot	“Comparative study of few Indian <i>Cassia sp.</i> For its Anticancer Properties”	Sanctioned by UGC Rs. 10.20 Lac in 2013

List of Minor Research Projects

Name of Investigators	Title of project	Amount Sanctioned	Year
PI -Dr. Anita Phatak	Standardization of protocol for Micropropagation of <i>Gerbera</i>	Sanctioned by UGC Rs.90,000/-	2004-05
PI- Dr. Jossy Varghese	Phytochemical analysis of <i>Helicteris isora</i> L.	Sanctioned by UGC Rs. 45,000/-	2000-01
PI- Dr. Avinash Patil	<i>In vitro</i> studies of <i>Jasminum sambac</i> Ait	Sanctioned by UGC Rs. 45,000/-	2003-04

PI- Mr. Suhas Karvekar	<i>Oyster Mushroom Cultivation (Plurotus sajorcaju) as a Waste Management Tool in Urban and Semiurban Cities.</i>	Sanctioned by UGC 45,000/-	2003-04
PI- Dr. Darshana Patil	<i>In vitro</i> culture studies of <i>Cardiospermum halicacabum</i> L.	Sanctioned by UGC Rs. 1.00 Lac	2009-10
PI- Dr. Jossy Varghese	“Study of pesticide degrading bacteria from soil”	Sanctioned by UGC Rs. 1.50 Lac	2011-12
PI- Dr. Meeta Bhot	Micropropagation of some croton varieties	Sanctioned by UGC Rs. 45,000/-	2000-01
PI- Dr. Meeta Bhot	Bioremediation of Heavy Metals”	Sanctioned by University of Mumbai Rs.27,400	2012-13
PI- Dr. Avinash Patil	‘Determination of glycoside content in leaves of <i>Stevia rebaudiana</i> Bertoni by analytical methods’	Sanctioned by University of Mumbai Rs. 20,000/-	2013-14
PI- Dr. Avinash Patil	‘In vitro studies of <i>Averrhoa bilimbi</i> L.’	Sanctioned by UGC. (Rs. 1,00,000/-)	
PI- Dr. Annika Gupta	<i>Effect of heavy metals on microorganisms by FTIR analysis.</i>	Sanctioned by University of Mumbai Rs. 45,000/-	2016-17

LIST OF PUBLICATIONS

1. Anushi Jain, Aachal Jain, Vandana Mudaliyar, Annika Durve-Gupta, (2017). Isolation, Characterization and Application of Endophytic Bacteria isolated from Medicinal plants. International research journal of natural and applied sciences, 4(8):4-20 (Impact Factor: 5.46).
2. Pratik Gosavi, Yogita Chaudhary and Annika Durve-Gupta, (2017). Production of biofuel from fruits and vegetable wastes. European Journal of Biotechnology and Bioscience. 5(3): 69-73 (Impact Factor : RJIF 5.44).
3. Tejas Suryawanshi, Vineetha Nair, Pratima Patel and Annika Durve-Gupta, (2017). Extraction of cellulose and biofuel production from groundnut shells and its application to increase crop yield, World Journal of Pharmacy and Pharmaceutical Sciences. 6(6); 1820-1831. (SJIF Impact Factor 6.647).
4. Darshana Patil, **Avinash Patil**, Swapnil Koli (2016). A review on Pharmacognosy, Phytochemistry, Pharmacology and HPTLC Fingerprint Profile of *Averrhoa bilimbi* L. Medicinal Plants – Phytochemistry, Pharmacology and Therapeutics; **Volume 4**: 223-232. Editors: V. K. Gupta *et al.* Published by Daya Publishing House a Division of Astral International Pvt. Ltd. New Delhi- 110002. (ISBN No: 978-93-5124-704-3)
5. Ansari Aqsa, Darshana Patil and **Avinash Patil (2016)**. Unani: An Approach to Holistic Medicine. Traditional and Folk Medicine: Recent Researches **Volume 3**: 313-321; Editor: V. K. Gupta; Published by Daya Publishing House a Division of Astral International Pvt. Ltd. New Delhi- 110002. (ISBN No: 978-93-5124-703-6)
6. Hareeshma, S.; Poonia, A.A.; **Varghese, J.** and Shaikh, M. (2016). Pharmacognostic evaluation of *Khaya senegalensis* (Desr.) A. Juss. – A multipurpose tree species. Management Guru : Journal of Management Research. IV(4):273-277.[ISSN-2319-2429]
7. Poonia, A.A.; Hareeshma, S. and **Varghese, J.** (2016). Pharmacognostical and phytochemical evaluation of leaf and stem of *Polyalthia longifolia* var *angustifolia* Thw. Management Guru : Journal of Management Research. IV(4):278-283.[ISSN-2319-2429]
8. Hareeshma, S. and **Varghese J.** (2016). Gas Chromatography Mass Spectrometry (GCMS) Analysis of Bioactive Compounds of *Khaya senegalensis* (Desr.) A. Juss.

Bionano Frontier. 9(2):232-235 [ISSN-0974-0678 (Impact Factor: 4.856, Naas Rating: 3.22]

9. Sachin Lad and **Josy Varghese** (2016). Comparative Biochemical evaluation of Leaf and Calli of *Calotropis gigantea* (L.) Dryand: A Natural Heavy Metal Accumulator. *Bionano Frontier*. 9(2):185-187. [ISSN-0974-0678 Impact Factor: 4.856, Naas Rating: 3.2]
10. Sachin Lad and **Josy Varghese** (2016). Establishment of an efficient protocol for callus culture of Castor (*Ricinus communis* L.): an oil medicinal plant. *Management Guru: Journal of Management Research*. IV(4): 163-168.[ISSN-2319-2429]
11. Shaikh, M.; Hareeshma, S. and **Varghese, J.** (2016). Analysis of compound from *Gmelina arborea* Roxb. by gas chromatography mass spectroscopy (GCMS) analysis. Research dimension, multi disciplinary national research journal. II(5):291-294 [ISSN0976-8564].
12. Abhishek Sharma, **Meeta Bhot** and **Naresh Chandra**. (2016). Gastroprotective effect of aqueous extract and mucilage from *Bryophyllum pinnatum* (Lam.) Kurz. Ancient Science of Life. 33(4):252-258.
13. Abhishek Sharma and **Naresh Chandra**. (2016). Isolation and Antioxidant Activity of Caffeic Acid from Roots in *Bryophyllum pinnatum*(Lam.) Kurz. Asian Journal of Chemistry. 29(2): 267-270.
14. **Dhaliwal M.K.** and **Chandra N.** (2016). Isolation of carotenoids producing marine red yeast. *Indian Journal of Geo-Marine Science*, 45(8):1029-1034. NISCAIR publication.
15. Bharati Devaguptapu, **Naresh Chandra** and **Meeta Bhot** (2016) Effect of Elicitors on the Iron and Calcium content of *in vitro* Potato (*Solanum tuberosum* L.) plantlets. *Imperial Journal of Interdisciplinary Research (IJIR)* Vol-2, Issue-11, ISSN: 2454-1362.
16. Khyati Vadera and **Avinash Patil** (2016). *In vitro* Anticancer Activity of Selected Indian Medicinal Plants on Different Human Brest Cancer Cell Lines. *International Journal of Pharmaceutical Research and Bio-science* 5(6): 108-117. [ISSN-2277-8713 (Impact Factor: 5.567)].
17. **Avinash Patil**, Khyati Vadera and Darshana Patil (2016). Quantification and validation of β -sitosterol from *Careya arborea* Roxb bark using High Performance Thin Layer

Chromatography. *Special Volume of Indian Botanical Society edited by Prof. R. H. Shete* pp 37-43. (ISSN-0019-4468).

18. Priyanka Sharma, **Avinash Patil** and Darshana Patil (2016). Method Development and Validation for Quantification of Lupiol from Bark of *Crataeva tapia* L. using HPTLC. *Journal of Pharma Research* 5(10): 217-219 [ISSN:2319-5622 (SJ Impact Factor: 4.521)]
19. Kanchan Nene and **Avinash Patil** (2016). Pharmacognostic Standardisation, PhysicoChemical Analysis and HPTLC Fingerprint of *Stevia rebaudiana* Bertoni Leaves. *Special Volume of Indian Botanical Society edited by Prof. R. H. Shete* (ISSN-0019-4468) pp 235-248.
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