

**Dr. Uma Anand Masur**  
**Assistant Professor in Botany**  
**Parvatibai Chowgule College, Gogol**



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**Status:** Married

**Date of birth:** 20<sup>th</sup> January, 1972.

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**Education: Goa University**

1. **PhD in** "Screening and development of plant tissue culture of Tylophora sps. for production of commercially feasible bioactive alkaloids from Western Ghats". The Department of Biotechnology, Goa University. 1997-2004.
2. **M.Sc. (Botany)** 1992- 1994, Goa University. First grade
3. **B.Ed.** (Annamalai University), 1996. Second grade
4. **B.Sc.** (Botany) 1989-1992, Carmel College for Women, Nuvem. First grade

**Books Publication:**

1. Sangodkar UMX and Masur U. (2018). Fundamentals in Environmental Biotechnology. Cinnamon Teal publication, Margao-Goa. ISBN 978-93-87676-02-2

## Areas of consultancy and income generated:

1. Medicinal plant cultivation, Raia GSREPL, Raia income generated Rs. 62,965/- from Gold shield Real estate company, guided eight students for Internship within.

## Government body:

1. Coordinated Goa Govt. Initiative through DHE and GIPARD for Economic revival Plan (ERP) of Village bodies of Goa- Curtorim and submitted report.
2. Selected and appointed as a member of Technical support group (TSG) by Goa state biodiversity board (GSBB) for preparation of people's biodiversity register (PBR).
3. Involved in preparation of proposal for Biodiversity Heritage site for Curtorim and Chandor village in Goa.

**Exchange Programme:** Student and faculty exchange programme on "Athena project" sanctioned by Sweden Government and visited Sweden along with students from 14th March to 30th March 2011.

## Research Project

1. **2017.** Molecular characterization of *Dysoxylum binectariferum* Hook. f. regenerated plants *in vitro* by RAPD, SSR and ISSR methods. Funded Rs. 3.5 lacs by **Department of Higher education, Goa.**
2. **2009.** Minor research project "Efficacy of leaf and callus extracts of *Dysoxylum* species against malarial larvae *Anopheles stephensi*". Funded Rs. 3 lacs by **UGC, Western Region Pune. Jan 2009-11.**

## Other Projects

1. Junior research fellow under DOD project, in the Department of Marine Sciences and Biotechnology, Goa University on "*Sesuvium portulacastrum* for oxytocin studies", 1996-1997.
2. Submitted dissertation as a partial fulfillment of the M.Sc. degree in Botany department on "Morphological and anatomical studies in *Aponogeton*. Linn", 1993-94 under the guidance of Dr. S.R.Yadav.

## Publications: Research Papers

1. **Masur U., Hima Kumari P., Gokhale K. and Sangodkar U.M.X. (2018).** Genetic relationships in *Tylophora* species of Goa as revealed by simple sequence repeats (SSR) and inter simple sequence repeats (ISSR) pooled with Random amplification of polymorphic DNA (RAPD). Int J Pharma Bio Sci 2018 January;9(1):(B) 257-264. UGC listed
2. **Masur U., Hima Kumari P., Gokhale K. and Sangodkar U.M.X. (2016).** Genetic Polymorphism of *Tylophora* Species of Goa as Revealed by RAPD. Current trends in Biotechnology and Pharmacy. 0973-8916; Vol 10, Issue 1 UGC listed.
3. **Masur U., Ferrao D., Naik DD., Rodrigues MJ., Rodrigues, VS. (2016):** Micropropagation of *Tylophora indicasp.* Proceedings of National Seminar on “Advances in Life Sciences” St. Xavier’s College of Arts, Science and Commerce ,Mapusa Goa. ISBN: 978-93-84298-49-4. 152-158
4. **Masur U. (2015). Antiasthmatic Medicinal Plant: Tylophora indica (Burm. F.) Merr.** The Interdisciplinary Research Journal “ Vision” Volume VII-[1]- Parvatibai Chowgule College of Arts &Science Autonomous Margao Goa.
5. **Masur U., Kumar H., Kumar A. (2015).** Larvicidal effect of *Dysoxylumbinectariferum* Hook against *Anopheles stephensi* Liston, *Culexquinquefasciatus* Say and *Aedesaegypti* L. International Journal of Bioassays 4.12: 4685-4688.<http://www.ijbio.com/index.php/ijb/article/view/861/pdf>
6. **Masur U., Ferrao D., Naik DD., Rodrigues MJ., Rodrigues VS . (2015):** Phytochemical studies of *Tylophoraspecies* of Goa. Journal of Natural Products Volume 8:100-105.  
<http://www.journalofnaturalproducts.com/Volume8.html>
7. **Masur U. and Kumar K (2014):** Antibacterial and antifungal activity of *Dysoxylumbinectariferum* Hook. f. Journal of international academic research for multidisciplinary. (2) 2: 101-104.
8. **Masur U., Kumar H. and Kumar A. (2014):** Anti-larval effects of leaf and callus extract of *Dysoxylum binectariferum against* urban malaria vector, *Anopheles stephensi* Journal of Natural Products, Vol. 7(2014): 147-154
9. **Patil Uma& U.M.X. Sangodkar. (2004):** “Minimum hormonal application for earliest alkaloid detection and micropropagation in *Tylophora indica* (Burm. F.)Merr”..i. Biotechnology for a better future, Edited by L. D’ Souza, Anuradha M., ShashikiranNivas, SmithaHegde and K. Rajendra. (SAC publications,

Mangalore) 2004, 125-132.

### **Presentations Oral at conferences:**

#### **International**

1. Uma Masur, P. Hima Kumari, Kailas Gokhale and U.M.X. Sangodkar Genetic relationships in *Tylophora* species of Goa as revealed by SSR and ISSR. International Conference On Frontiers in Integrated Science and Technology For Sustainable Development (FISTSD 2016), November 11-15, 2016. Bangkok Thailand.

#### **National**

1. Uma Masur, Genetic Polymorphism of *Tylophora* Species of Goa as Revealed by RAPD. National Seminar on "Recent developments in Biotechnology" at St. Xaviers College, Mapusa Goa

### **Poster Presentations at conferences:**

1. Masur U., Ferrao D., Naik DD., Rodrigues MJ., Rodrigues VS . (2016): Micropropagation of *Tylophora indica* ssp. and won second place at National Seminar on "Advances in Life Sciences" St. Xaviers College of Arts , Science and Commerce , Mapusa Goa of held from 7th -8th Dec. 2015.
2. Masur U., Ferrao D., Naik DD., Rodrigues MJ., Rodrigues VS . (2015): Phytochemical studies of *Tylophora* species of Goa at National Seminar on "Advances in Life Sciences" St. Xaviers College of Arts , Science and Commerce , Mapusa Goa held from 7th -8th Dec. 2015.
3. Participated in International conference on "Current trends in medicinal plants organized by the Department of Botany, University of Pune, during 10th -12th January 2012 and presented poster "Effects of leaf and callus extract of *Dysoxylum binectariferum* Hook on larvae of vector mosquitoes, *Anopheles stephensi* Liston".
4. Effects of methanolic leaf extract of *Dysoxylum binectariferum* Hook on larvae of vector mosquitoes, *Anopheles stephensi* Liston, *Culex quinquefasciatus* Say and *Aedes aegypti* L. "XI th International symposium on vectors and vector borne diseases" from 15th- 17th October 2011, organised by Regional Medical Research centre for Tribals (ICMR) Nagpur Road, Garha Jabalpur and presented.
5. Uma Patil & U.M.X. Sangodkar, "Minimum hormonal application for earliest alkaloid detection and micropropagation in *Tylophora indica* (Burm. F.) Merr" ..in Biotechnology for a better future.

### **Research Guide:**

#### **Guided under graduate students for the projects entitled:**

1. Organogenesis of *Dysoxylum binectariferum* Hook. f. 2019
2. Phytochemical analysis and micropropagation of *Tylophora* species.2014
3. Tissue culture of *Epidendrum radicans* Lindl. 2012
4. Callus induction for alkaloid detection in *Tylophora indica*. 2001
5. General analytical methods for comparative studies of alkaloids in some medicinal plants from Western Ghats. 1997

#### **Seminars/ workshops/ training attended:**

1. UGC sponsored refresher course in ICT in life sciences at Academic staff college, DAVV, Indore, May 2016.
2. Attended National symposium on Biotechnology and Molecular biology for Industry and common man at St. Aloysius College, Mangalore
3. UGC sponsored Refresher course in life science (Botany) from 5<sup>th</sup> to 25<sup>th</sup> March 2014 at Academic staff college, RTM, Nagpur University, Nagpur.
4. Participated in 6<sup>th</sup> Practical Summer training on chromatography, molecular biology and Bioinformatics conducted by SBST at VIT Vellore from 05<sup>th</sup> June to 14 June 2013.
5. Participated in One day workshop on "Phytochemical analysis of therapeutically active constituents of Pharmaceutically important medicinal plants" on 13<sup>th</sup> January 2012 organized by the Department of Botany, University of Pune.
6. UGC sponsored workshop on "Capacity building of Woman managers in higher education" organized by MES College of Arts and Commerce, Zuarinagar Vasco, Goa from 23-27<sup>th</sup> Feb 2010.
7. International conference on "Recent advances in Environmental biotechnology" organized by Birla college, Kalyan under the auspices of Society of science and environment sponsored by UGC and University of Mumbai from 14<sup>th</sup> -15<sup>th</sup> Nov. 2009.
8. The International symposium on "vectors and vector borne diseases" organized by Goa University and National institute of malaria research (NIMR) from 4-6<sup>th</sup> Nov. 2009.
9. Attended the UGC sponsored National workshop on "Techniques in Plant Taxonomy" organized by the Department of Botany, Carmel college of Arts, Science and Commerce for Women from 18<sup>th</sup> -20<sup>th</sup> Sept. 2008.
10. Attended UGC sponsored Special Summer School in Basic Sciences at Academic Staff College, Goa University from 8-29<sup>th</sup> August 2008

11. Attended UGC-SAP seminar on “Biodiversity and Bioprospecting” at Goa University. 6<sup>th</sup> March 2006.

### **College Committee:**

1. Students’ Welfare Committee (Scholarships, Freeships, Prizes, Students’ Aid Fund), Convenor Since 2021
2. Women's welfare and SC/ST student Welfare Committee, CO- Convenor Since 2021
3. College Alumni Convenor Since 2021

### **Co-Curricular, Extension, Professional Development Related Activities**

#### **Organizing experience:**

1. Organized Yuva Shakti Abhiyan a workshop on Youth transformation program as secretary of Pradnya Shakti Goa online under the banner of National Shakti 2020
2. International Indian science festival as jury for women conclave and entrepreneurship competition on traditional food recipes. 2020
3. Member of organizing committee. International Conference On Frontiers in Integrated Science and Technology For Sustainable Development (FISTSD 2016), November 11-15, 2016. Bangkok Thailand.
4. Member of organizing committee. 26<sup>th</sup> Biennial conference of the Asian Association for biology education. Trends in biology education & research: Practices and challenges. International centre, Goa. Sept. 2016
5. Member of organizing committee. Symposium on Scientific insight into Mandovi: The lifeline of Goa. Organised by Vidnyan Parishad Goa in association with Goa Science centre, Miramar Goa Oct. 2016.
6. Member of organizing committee. One day workshop on Journey of Science in India from Kanaad to Kalam’ Organised by Vidnyan Parishad Goa in association with Goa Science centre, Miramar Goa August, 2016.
7. Organized “**Science fest**” for school and college students in association with Vidnyan Parishad, Panajim, Goa on 6<sup>th</sup> Feb, 2017
8. Organized Lecture By Dr. A.K.Saran Senior scientist from NIO, Goa
9. 4<sup>th</sup> Bharatiya Vigyan Sammelan and Expo, Panaji Goa February 2015, in conducting the proceedings and Organisation of sammelan.
10. Worked as Chowgule College teachers Committee member as Treasurer and organized various activities since 2014-2016

### **Membership in various associations:**

1. Executive Member of Vidnyan Parishad Goa Unit affiliated to Vignan Bharati, New Delhi working for bringing Scientific awareness and temper among students
2. Executive Member of Pradnya Shakti, Goa (National movement for Women Shakti), working as Secretary from 2019, for bringing Scientific awareness and temper among women
3. Member of Indian Women scientist Association

### **Acheivement:**



1. Best College Magazine award for VIDYA an annual College magazine and received Late VN Kamat Trophy as an Editor, 207-18 for college.