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EDUCATION

Ph.D in Life Science (2004, Jadavpur University, Kolkata, India) Thesis title : *In vitro* studies of *Phyllanthus amarus* Schum.&Thonn.: Micropropagation and evaluation of culture raised plants and organs in relation to antiviral activities

MEMBER OF SCIENTIFIC BODY

- Life member of National Botanical Society
- Life member of Indian Society of Plant Genetic Resources
- Member of Society for Conservation Biology

CURRENT RESEARCH INTEREST

I am currently working on biodiversity and ecological aspects of sacred groves, one of the traditional mode of nature conservation in India. I am studying ecological, environmental as well as conservation importance of these groves at landscape level.

Ecological niche modeling is another part of my current research activities. I am interested to use this technique to understand rare and threatened plant ecology and their conservation. Issues like distribution pattern, threats to the habitat and conservation measures are under investigation.

PUBLICATIONS

International :

- Predictive distribution modeling for rare Himalayan medicinal plant *Berberis aristata* DC.
Journal of Environmental Biology 32:725-730, 2011
Rajasri Ray, K.V.Gururaja and T.V.Ramchandra
- The potential of certification for conservation and management of wild MAP resources
Biodiversity and Conservation , 18:3441-3451, 2009 (DOI 10.1007/s10531-009-9653-z)
Rajasri Bhattacharyya, Aparna Asokan, Prodyut Bhattacharya and Ram Prasad
- Towards certification of wild medicinal and aromatic plants in four Indian states
Unasylva 230 (59): 35-44, 2008
P. Bhattacharya, R.Prasad, **R. Bhattacharyya** and A.Asokan
- Certification – An effective way for improvement of medicinal plant sector in India
International Journal of Forest Usufructs Management 9 (2) : 91-100, 2008
Rajasri Bhattacharyya and Avik Ray
- An investigation on in vitro propagation of *Colchicum luteum* and its evaluation of colchicine for the economic benefit of rural people in West Bengal
M. Gangopadhyay, **R. Bhattacharyya**, D. Chakraborty, S.Bhattacharya, A.Mitra, S.Bhattacharya
(**Planta Medica 2007;73**) DOI: **10.1055/S-2007-987405**
- Medicinal plant conservation and relevance of developing electronic database --
Biodiversity and Conservation 15: (8): 2705-2717, July 2006-
Rajasri Bhattacharyya, Sabita Bhattacharya and Siddhartha Chaudhuri
- Development of a potent *in vitro* source of *Phyllanthus amarus* roots with pronounced activity against surface antigen of hepatitis B virus.
IN VITRO PLANT Cellular and Developmental Biology. 40: (5): 504-508, September-October 2004-
Rajasri Bhattacharyya and Sabita Bhattacharya
- *In vitro* multiplication of *Coleus forskohlii* Briq. An Approach Towards Shortening the Protocol.
IN VITRO PLANT Cellular and Developmental Biology.37:(5):572-575,2001-
Rajasri Bhattacharyya and Sabita Bhattacharya

National :

- Small sacred grove in local landscape : Are they really worthy for conservation?
Current Science 98: (9): 1078-1080, 2010
Rajasri Ray and T.V.Ramachandra.

- Sacred grove : nature conservation tradition of the ancient world.
Sahyadri E-News (Online), Issue – XXXII, 2010.
http://wgbis.ces.iisc.ernet.in/biodiversity/sahyadri_eneews/newsletter/issue32/index.htm
Rajasri Ray, M.D.Subhas Chandran and T.V.Ramachandra
- Medicinal Weed – A different story
MFP News, Vol. XIX: (1): 10-13, January-March, 2009.
Avik Ray and **Rajasri Bhattacharyya**
- *In vitro* conservation of *Plumbago Indica* – A rare medicinal plant
Plant Cell Biotechnology and Molecular Biology, 8:(1&2):39-46,2007
Rajasri Bhattacharyya, Avik Ray, Moumita Gangopadhyay, Sabita Bhattacharya
- Change in Plant Names- Implementation of Rules and Problem.
MFP News, Vol. XV: (1): 9-11, January-March, 2005.
Rajasri Bhattacharyya, Avik Ray and Sabita Bhattacharya
- A study on introduction of *Coleus forskohlii* in West Bengal agroclimate – a lab to land study report.
Proceedings of First National Interactive Meet on Medicinal & Aromatic Plants, eds, A.K. Mathur, S. Dwivedi, D.D. Patra, G.D. Bagchi, N.S. Sangwan, A. Sharma & S.P.S. Khanuja, CIMAP, Lucknow (India) (2003) pp. 169-172.
Rajasri Bhattacharyya, & Sabita Bhattacharya.
- Establishment of a *Phyllanthus amarus* root clone with significant activity against Bovine viral diarrhea virus – a surrogate model of hepatitis C virus.—
Current Science 84: (4): 529-533, 2003.
Rajasri Bhattacharyya, S. Bhattacharya, M. Wenzel-Mathers and V.E.Buckwold.
- *In vitro* conservation and encapsulation of *Coleus forskohlii*.
Indian J. Plant Genet. Resour. 14: 312-315, 2001 –
Rajasri Bhattacharyya, Bidisha Mondal and Sabita Bhattacharya.
- High frequency *in vitro* propagation of *Phyllanthus amarus* Schum. & Thonn. by shoot tip Culture.
Indian Journal of Experimental Biology. 39: 1184-1187, 2001-
Rajasri Bhattacharyya and Sabita Bhattacharya

Accepted / Communicated / Under preparation–

- Conservation impact on sacred forest fragments – a case study from Karnataka, India
Rajasri Ray, M.D.Subhas Chandran and T.V.Ramachandra (**Accepted by Indian Forester**)
- Predictive distribution and conservation status assessment of threatened endemic plant *Syzygium travancoricum* Gamble. in Western Ghats, India (**Submitted**)
Rajasri Ray and T.V.Ramachandra

- Hydrological Importance of sacred groves (**Under preparation**)
Rajasri Ray, M.D.Subash Chandran and T.V.Ramachandra
- Conservation of endemic plant diversity in culturally protected fragments (**Under preparation**)
Rajasri Ray, M.D.Subash Chandran and T.V.Ramachandra

Technical Report

- Sacred groves in Siddapur Taluk, Uttara Kannada, Karnataka: Threats and Management Aspects
ENVIS Technical Report – 38, July 2011
Rajasri Ray, M.D. Subash Chandran and T.V. Ramachandra
http://wgbis.ces.iisc.ernet.in/energy/water/paper/ETR38/TR38_sacred_grove.pdf
- Developing strategies for conservation of threatened endemic biodiversity of the sacred groves of Central Western Ghats
Rufford Small Grant Foundation 2010-2011
Rajasri Ray
http://www.ruffordsmallgrants.org/rsg/projects/rajasri_ray

Book Chapter

- Biodiversity and Sacred grove – Present scenario and Gap analysis (**Submitted to CPREEC, Chennai**)
Rajasri Ray and T.V.Ramachandra