

## BIODATA

**Dr. BADA PRIYADARSINI**

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### Academic Profile

- **At present working as a Lecturer in Microbiology**, Dr.V.S.Krishna GDC (A), Visakhapatnam, Visakhapatnam District From 6<sup>th</sup> March 2024 to till date.
- **Worked as a Lecturer in Microbiology, SKR & SKR GDCW (A), Kadapa, YSR Kadapa District. From 27<sup>th</sup> August, 2021 to 5<sup>th</sup> March 2024.**
- **Guest Faculty**, (February -2020 to July -2021) Dept. of Botany, Andhra University, Visakhapatnam, Andhra Pradesh, India.
- **Post Doctoral Fellow** (F.15-1/2014-15/PDFWM-2014-15-AND-26269 (SA-II), UGC-NEW DELHI) - 2<sup>nd</sup> February 2015 to 1<sup>st</sup> February 2020, Department of Botany, Andhra University, Visakhapatnam, Andhra Pradesh.  
**TITLE OF THE PROJECT: “SIGNIFICANCE OF SECONDARY METABOLITES IN DEFENSE MECHANISMS OF GERMINATING SEEDS OF ECONOMICALLY IMPORTANT FOOD CROP, PIGEONPEA [*CAJANUS CAJAN* (L.) MILLSPAUGH] UNDER CADMIUM STRESS”.**
- **Ph.D** in Botany (January, 2006 - June, 2014), Department of Botany, Andhra University, Visakhapatnam, Andhra Pradesh.  
**THESIS TITLE : “BIOCHEMICAL, PHYSIOLOGICAL AND ULTRASTRUCTURAL STUDIES WITH ENERGY DISPERSIVE X-RAY ANALYSIS OF GERMINATING SEEDS OF PIGEONPEA [*CAJANUS CAJAN* (L.) MILLSPAUGH] UNDER CADMIUM STRESS”.**
- **M.Sc in Microbiology** - (First class, 1999-2001), Department of Microbiology, Andhra University, Visakhapatnam.
- **M.Sc in Botany** - (First class, 2011-2013), Department of Botany, Acharya Nagarjuna University, Nagarjunanagar, Guntur.
- **B.Sc. (Biology)** - First class, 1996-1999, A.S. Government College for Women, Andhra University Visakhapatnam.
- **Intermediate** - Bi.P.C - Second Class, 1993-1995 - Board of Intermediate Education, Andhra Pradesh.
- **SSC** - First class, 1993, Board of Secondary Education, Andhra Pradesh.

## RESEARCH EXPERIENCE

A total of 13 years in the Department of Botany, Andhra University, Visakhapatnam during my Doctoral (RGNF-2006 to 2011) and Post Doctoral studies (PDFWM-2015 to 2020).

- a). Research Papers Published - **45**  
Under communication - **1**
- b). Total Number of Seminars and Workshops attended - **71**
  - **International - 10**
  - **National-61**

Papers Presented in Seminars - **21**

- **International - 5**
- **National - 16**

Conferences, Seminars and Workshops participated - **50**

- c). Book chapters published-**2**
- d). FIP -1  
OC - 1  
FDP -3  
TOT-2
- ❖ **Best Researcher Award from Researcher education solutions, International School of Technology and Sciences, Approved by AICTE, New Delhi& Affiliated to JNTUK, KAKINADA on 5<sup>th</sup> September, 2022.**

## • TEACHING EXPERIENCE

A Total of 8 years in the Department of Botany, Andhra University Visakhapatnam during my Doctoral (RGNF- SRF- 2008 to 2011) and Post Doctoral studies (PDFWM- 2015 to 2020) as a part of Department curriculum.

- Worked as a **Guest Faculty in the Department of Botany**, Andhra University, Visakhapatnam, from February, 2020 to July, 2021.
- A Total of 2.7 years as a **Lecturer in Microbiology**, From 27<sup>th</sup> August, 2021 till to date.
- **TOPICS HANDLED**

- **B.Sc -MICROBIOLOGY-APSCHE SYLLABUS- ALL PAPERS (Currently)**
- **M.Sc., Botany, II-Year** (Crop Physiology and Biotechnology) Theory and Practicals from 2008 to 2011 as a RGNF- SRF in the Department of Botany, Andhra University, Visakhapatnam.

- **M.Sc., Botany, I-Year** (Cell biology-Theory & Practicals SEM-I); **M.Sc., Botany, II-Year** (Genetic Engineering of Plants and Microbes-Theory SEM-IV); **M.Sc., HCLM-II Year** (Integrated Pest Management); **M.Sc., AGBT-I Year** (Cell biology-SEM-1 and Soil Science, Cropping Systems, Food Science And Special Types Of Agriculture-SEM-2) & **II Year** (Biodiversity and Intellectual Property Rights; Evolution and population studies) Theory and Practicals from 2<sup>nd</sup> February 2015 to 1<sup>st</sup> February 2020 as a **UGC-Post Doctoral Fellow** in the Department of Botany, Andhra University, Visakhapatnam.
- **M.Sc., AGBT-I Year** (Soil science, cropping systems, food science and special types of agriculture); **M.Sc., Botany, I-Year** (Cell biology-Practicals SEM-I) as a **Guest Faculty** in the Department of Botany, Andhra University, Visakhapatnam, for the period of February, 2020 to till date i.e. February, 2021.

## RESEARCH AND PUBLICATIONS

### a) Publications

Research Papers Published - 45

Under communication - 1

Sl. No	NAME OF THE AUTHORS	YE AR	TITLE OF THE ARTICLE	JOURNALS DETAILS AND NATURE OF PUBLICATION	IMPACT FACTOR AND PLACE OF PUBLICATION
1.	B. Sujatha and <b>B. Priyadarshini</b>	2008	Ultrastructural changes in the root cells of ( <i>Cajanuscajan</i> (L.) Millspaugh) induced by low levels of cadmium in the medium.	Indian J. Plant Physiol., 13 (2): 107-110, 2008 Online	<b>IF: 0.72</b> ISSN: 0019-5502 New Delhi, India  <b>UGC Journal NO:115</b>  <b>Springer</b>
2.	B. Sujatha and <b>B. Priyadarshini</b>	2008	Effect of lead and cadmium on mineral composition of pigeon pea ( <i>Cajanuscajan</i> (L.) Millspaugh).	Proceedings A. P. Akademi of Sciences., 12 (4): 348-354, 2008 Print	ISSN: 0972-3358 Hyderabad, India
3.	B. Sujatha and <b>B. Priyadarshini</b>	2009	Influence of lead and cadmium on amino acids and protein content of pigeon pea seedlings.	Inter. J. Plant Science., 4(2): 482-486, 2009 Online	ISSN: 0973-1547 Bangalore, India <b>UGC Journal NO:154</b> HIND AGRI
4.	B. Sujatha and <b>B. Priyadarshini</b>	2009	Response to lead and cadmium during the early phases of pigeon pea ( <i>Cajanuscajan</i> (L.) Millspaugh) seed germination and nucleic acid metabolism.	Inter. J. Mendel., 26 (1-4): 73-74, 2009 Online	<b>IF: 0.03</b> ISSN: 0970-9649 Patna ( Bihar ), India
5.	B. Sujatha and <b>B. Priyadarshini</b>	2009	Ultrastructural alteration of nuclei in root cortical cells of pigeon pea under lead and cadmium stress.	Ann. Plant. Physiol., 23 (1): 6-11, 2009 Online	ISSN: 0970-9924 Ghaziabad, India
6.	B. Sujatha and	2009	Changes in growth	Ann. Plant. Physiol., 23	ISSN: 0970-9924

	<b>B. Priyadarshini</b>		and nitrogen metabolism of <i>Cajanuscajan</i> in response to low levels of lead and cadmium.	(2): 134-138, 2009 Online	Ghaziabad, India
7.	B. Sujatha and <b>B. Priyadarshini</b>	2009	Effect of lead and cadmium on lipids and phospholipids composition in pigeon pea seedlings.	J. Phytol. Res., 22 (1): 19-22, 2009 Online	ISSN: 0970-5767 New Delhi, India
8.	B. Sujatha and <b>B. Priyadarshini</b>	2010	Specific responses in carbohydrate metabolism of pigeon pea in heavy metal stress.	Inter. J. Plant Sciences., 5(2): 427-430, 2010 Online	ISSN: 0973-1547 Bangalore, India <b>UGC Journal NO:154</b> HIND AGRI
9.	B. Sujatha and <b>B. Priyadarshini</b> and V. Lakshiminarayana	2010	Stomatal changes in response to lead stress during growth of pigeon pea.	Inter. J. Mendel, 27 (1-2): 15-16, 2010 Online	<b>IF: 0.03</b> ISSN: 0970-9649 Patna ( Bihar), India
10.	B. Sujatha and <b>B. Priyadarshini</b>	2010	Growth and nuclear changes in pigeon pea under heavy metal stress.	J. Pharm. Res., 3(10):2457-2459, 2010 Online	<b>IF: 1.09</b> ISSN: 0974-6943 Madhya Pradesh, India <b>UGC Journal NO:218, ELSEVIER</b>
11.	B. Sujatha and <b>B. Priyadarshini</b>	2011	Antioxidative metabolism in seedlings of pigeon pea in response to lead and cadmium stress.	J. Phytology, 3 (5)L: 41-50, 2011 Online	ISSN: 2075-6240 Humnabad, India
12.	<b>B. Priyadarshini</b> and B. Sujatha	2011	Cadmium induced plant stress investigated by scanning electron microscope in <i>Cajanuscajan</i> .	J. Pharm. Res., 4 (3):938-941, 2011 Online	<b>IF: 1.09</b> ISSN: 0974-6943 Madhya Pradesh, India <b>UGC 218 ELSEVIER</b>
13.	B. Sujatha and <b>B. Priyadarshini</b>	2013	The effects of heavy metal on growth and mitochondrial changes in the <i>Cajanuscajan</i> (L.) Millsp.	Current Botany, 4(2):27-32, 2013 Online	ISSN: 2220-4822 Kerala, India

14.	B. Sujatha and <b>B. Priyadarshini</b>	2013	Effects of heavy metals in pigeonpea cultivars on total chlorophyll, $^{14}\text{CO}_2$ fixations and stomatal resistance.	Indian Journal of Research , 3(5): 109-111, 2013 Online	<b>IF: 0.3208</b> ISSN: 2250-1991 Gujarat, India
15.	<b>B. Priyadarshini</b> and B. Sujatha	2014	Cadmium Effects On Photosynthetic Pigments Of Germinating Seedlings of Pigeonpea ( <i>CajanusCajan</i> L.)	International Journal of Advanced Research, 2 (12): 483-492, 2014 Online	<b>IF: 4.588</b> ISSN 2320-5407 India
16.	<b>B. Priyadarshini</b> and B. Sujatha	2015	Toxicity of Cadmium on Mineral Nutrition of Seedlings of Pigeonpea ( <i>CajanusCajan</i> (L.) Millspaugh) Cultivars	International Journal of Science and Research, 4(6):2077-2090, 2015 Online	<b>IF : 4.438</b> <b>ISSN : 2319-7064</b> Maharashtra, India
17.	B. Sujatha, A. Satya Gowri Parvathi, <b>B. Priyadarshini</b> and J. Saraswathi	2015	Anatomical changes in the leaf cells of <i>Cajanuscajan</i> (L.) Millspaugh and <i>Amaranthuspaniculatus</i> (L.) By foliar application of aqueous sulphur dioxide.	Journal of environmental science, toxicology and food technology, 9(9) :35-44, 2015 Online	<b>IF: 1.823</b> ISSN: 2319-2399 Chennai, India
18.	<b>B. Priyadarshini</b> , A. Satya Gowri Parvathi, B. Sujatha and J. Saraswathi	2015	Effect of aqueous $\text{SO}_2$ incubation on stomatal behaviour of the leaf epidermal strips of <i>Cajanuscajan</i> (L.) Millspaugh and <i>Amaranthuspaniculatus</i> (L.)	Journal of Environmental and Applied Bioresearch, 3(4): 230-233, 2015 Online	<b>IF: 0.753</b> ISSN: 2319-8745 India

19.	B. Sujatha, <b>B. Priyadarshini</b> , R. Aparajitha, M. Hephzibah Samatha and J. Saraswathi	2015	Stomatal responses of <i>Cajanuscajan</i> (C <sub>3</sub> ) and <i>Amaranthuspanicula</i> <i>tus</i> (C <sub>4</sub> )  plants exposed to varying doses of sulphur dioxide by scanning electron  microscopy	International Journal of Scientific& Engineering Research, 6(9):1643-1649, 2015 Online	<b>IF:3.8</b> ISSN 2229-5518 France
20.	Sujatha B., <b>Priyadarshini B.</b> , Hephzibah Samatha M., Aparajitha R and Saraswathi J	2015	The impact of aqueous SO <sub>2</sub> incubation on carbohydrate metabolism of leaf discs  under light and dark conditions of cajanuscajan (C <sub>3</sub> ) and amaranthuspaniculat us  (C <sub>4</sub> ) plants	International Journal of Current Life Sciences, 5(9):723-730, 2015 Online	<b>IF:0.570</b> ISSN: 2249- 1465 India
21.	B. Sujatha, <b>B. Priyadarshini</b> , M.V.V.P. Kumar, Ch. Umamahesh and J. Saraswathi	2016	Studies On Changes Of Some Macro- And Micronutrients Of The Leaf Discs Of <i>CajanusCajan</i> And <i>AmaranthusPanicul</i> <i>atus</i> Under Aqueous Sulphur Dioxide	International Journal of Environmental Pollution and Control Research, 2(1): 07-13, 2016 Online	ISSN: 2454 7573 India
22.	B. Sujatha,  <b>B. Priyadarshini</b> , Ch. Umamahesh, M.V.V.P. Kumar and J. Saraswathi	2016	Response of Trichome and stomatal frequency of leaves to exposure of aqueous sulphur dioxide by scanning	InternationalResearch  Journal of  Natural and Applied	<b>SJIF: 3.827</b>  ISSN:2349-4077  India

			electron microscopy in <i>Cajanuscajan</i> and <i>Amaranthuspaniculatus</i> .	Sciences, 3(2):191-206, 2016, Online	
23.	B. Sujatha, <b>B. Priyadarshini</b> , M.V.V.P. Kumar, K.M. Priyanka, Ch. Umamahesh and J. Saraswathi	2016	Changes in Lipid Metabolism by Thin Layer Chromatography in Leaf Discs of <i>CajanusCajan</i> and <i>AmaranthusPaniculatus</i> under Aqueous Sulphur Dioxide	The International Journal Of Engineering And Science (IJES), 5(4):15-23, 2016, Online	ISSN (e): 2319 – 1813 ISSN (p): 2319 – 1805  Egypt
24.	B. Sujatha, <b>B. Priyadarshini</b> , K.M. Priyanka, M.V.V.P. Kumar, Ch. Umamahesh and J. Saraswathi	2016	Influence of Aqueous SO <sub>2</sub> on Changes in the Leaf Discs of Free Amino Acid Composition and Free Organic Acid Metabolism under Light and Dark Conditions of <i>Cajanuscajan</i> and <i>Amaranthuspaniculatus</i>	The International Journal Of Science &Technoledge, 4(4): 84-92, 2016 Online	<b>IF: 1.002 (IIFS)</b>  ISSN 2321 – 919X  M.P, India
25.	B. Sujatha, <b>B. Priyadarshini</b> , Ch. Umamahesh, M.V.V.P. Kumar, K.M. Priyanka and J. Saraswathi	2016	Aqueous Sulphur Dioxide Effects on Nucleic Acid Metabolism Of Leaf Discs Underlight And Dark Conditions Of <i>Cajanuscajan</i> And <i>Amaranthuspaniculatus</i>	International Journal of Current Research, 8(06):32312-32318, 2016, Online	<b>SJIF:6.226</b>  ISSN: 0975-833X  India
26.	<b>B. Priyadarshini</b> and B. Sujatha	2016	Influence Of Cadmium Application On	Applied Research Journal,	<b>SIF 2015= 0.65</b>  ISSN: 2423-4796



			Carbohydrate Metabolism Of Pigeonpea ( <i>Cajanuscajan</i> (L.) Millspaugh) Cultivars	2(4):177-198, 2016 Online	Iran.
27.	<b>B. Priyadarshini,</b> B. Sujatha, M.V.V.P. Kumar, K.M. Priyanka, Ch. Umamahesh, J. Saraswathi	2016	Superoxide Dismutase A Possible Protective Enzyme Against Sulphur Dioxide Injury In <i>CajanusCajan</i> And <i>AmaranthusPaniculatus</i> Leaf Discs Under Light And Dark Conditions	International Journal Of Engineering Science And Computing, 6(7):1809- 1819, 2016 Online	<b>IF: 5.611</b> ISSN: 2321-3361 Bangalore, India
28.	<b>B.Priyadarshini,</b> B. Sujatha, Ch. Umamahesh, M.V.V.P. Kumar, L.B. DivyaJyothi, A. Satya Gowri Parvathi and J. Saraswathi	2016	Morphological and Biochemical Changes In The Leaves of <i>Cajanuscajan</i> and <i>Amaranthuspaniculatus</i> Under Foliar Application of Aqueous Sulphur Dioxide	International Journal of Engineering Inventions, 5(8): 36-47, 2016 Online	<b>IF: 3.152</b> e-ISSN: 2278-7461, p-ISSN: 2319-6491, Bangalore, India
29.	B. Sujatha, <b>B. Priyadarshini,</b> M.V.V.P. Kumar, L.B. DivyaJyothi, Ch. Umamahesh, A. Satya Gowri Parvathi and J. Saraswathi	2016	Effect Of Foliar Application Of Aqueous Sulphur Dioxide On Whole Plant Growth In <i>Cajanuscajan</i> And <i>Amaranthuspaniculatus</i>	International Journal of Engineering Science and Computing, 6(8): 2893- 2909, 2016 Online	<b>IF: 5.611</b> ISSN: 2321-3361 Bangalore, India

30.	<b>B. Priyadarshini,</b> D. Muni Kumar and B. Sujatha	2017	Differential Toxicity Of Cadmium On Nitrogen Metabolism And Enzymatic Activities In <i>CajanusCajan</i> L. Seedlings.	Asian Journal Of Science And Technology, 8(8): 5276-5284, August, 2017  Online	<b>SJIF Impact Factor: 6.315</b>  ISSN :0976- 3376  <b>UGC Journal NO:49294</b>
31.	<b>B. Priyadarshini,</b> D. Muni Kumar and B. Sujatha,	2017	Polyphenol oxidase, acid phosphatase and photosynthetic enzymes activity in <i>Cajanuscajan</i> seedlin gs under cadmium stress	Asian Journal Of Science And Technology,8(8): 5450-5462, September, 2017  Online	<b>SJIF Impact Factor: 6.315</b>  ISSN :0976- 3376  <b>UGC Journal NO:49294</b>
32.	<b>B. Priyadarshini</b> and B. Sujatha	2018	Cadmium Phytotoxicity Induces Lipid Peroxidation  And Alters The Antioxidant Enzyme Activities  In <i>Cajanuscajan</i> Seedlings	International Journal of Pharmacy and Biological Sciences,  Volume 8(2):88-109; 2018	<b>I.F.:0.888</b>  ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online)  <b>UGCJournal NO:46322</b>
33.	<b>B. Priyadarshini</b> and B. Sujatha	2018	Response Of Antioxidant Enzymes In <i>Cajanuscajan</i> Seedlings To Cadmium Stress	Journal of Pharmacy Research, 12(5):732-748; 2018	<b>IF: 1.09</b> ISSN: 0974-6943 Madhya Pradesh, India <b>UGC Journal NO:218, ELSEVIER</b>
34.	B. Sujatha, <b>B. Priyadarshini,</b> M.V.V.P. Kumar, L.B. DivyaJyothi and V. DurgaBhavani	2018	Varietal Differences Among <i>CajanusCajan</i> (L.) Genotypes In Germination, Electrophoresis And Mineral Analysis	Asian Journal Of Science And Technology, 9(6): 8303-8311, 2018  Online	<b>SJIF Impact Factor: 6.315</b>  ISSN :0976- 3376  <b>UGC Journal NO:49294</b>

35.	<b>B. Priyadarshini</b> and B. Sujatha	2018	Changes In Lipid And Phospholipid Content Of <i>CajanusCajan</i> Seedlings In Response To Cadmium Toxicity	International Journal of Current Advanced Research, 7(D): 14109-14118	<b>Impact Factor: 6.614</b>  ISSN: O: 2319-6475, ISSN: P: 2319-6505  <b>UGC Journal NO:43892</b>
36.	V. DurgaBhavani, <b>B. Priyadarshini</b> , L.B. DivyaJyothi, M.V.V.P. Kumar and B. Sujatha	2018	Genotypic Variation Between Different Cultivars Of <i>Cajanuscajan</i> (L.) On Carbohydrate And Nitrogen Fractions	International Journal of Pharmacy and Biological Sciences, Volume 8(3): 258-272; 2018	<b>I.F.:0.888</b>  ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online)  <b>UGCJournal NO:46322</b>
37.	B. Sujatha, <b>B. Priyadarshini</b> , M.V.V.P. Kumar, L.B. DivyaJyothi and V. DurgaBhavani	2018	Photosynthetic Enzyme Activities In Leaves Of <i>Cajanuscajan</i> (L.) At Three Different Phases Of Crop Growth	Asian Journal Of Science And Technology, 9(9): 8620-8629, 2018  Online	<b>SJIF Impact Factor: 6.315</b>  ISSN :0976-3376  <b>UGC Journal NO:49294</b>
38.	<b>B. Priyadarshini</b> and B. Sujatha	2018	Biochemical Changes And Protein Profiling By SDS-Page Of <i>Cajanuscajan</i> During The Early Stages Of Seedling Growth In Response To Cadmium Stress	International Journal of Current Advanced Research, 7(8F):14989-15003.	<b>Impact Factor: 6.614</b>  ISSN: O: 2319-6475, ISSN: P: 2319-6505  <b>UGC Journal NO:43892</b>
39.	B. Sujatha, V. DurgaBhavani, <b>B. Priyadarshini</b> , M.V.V.P. Kumar and L.B. DivyaJyothi	2018	Changes In The Activities Of Antioxidant Enzymes And Hill Reaction During Seedling Development Of <i>CajanusCajan</i>	International Journal of Pharmacy and Biological Sciences, Volume 8(4): 732-743; 2018	<b>I.F.:0.888</b>  ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online)  <b>UGCJournal</b>

			(L.) Genotypes		<b>NO:46322</b>
40.	V. DurgaBhavani, <b>B. Priyadarshini</b> , M.V.V.P. Kumar, L.B. DivyaJyothi and B. Sujatha	2018	Nitrogen Metabolism And Nitrate Reductase Activity In Different Parts At Three Phases Of <i>CajanusCajan</i> (L.) Genotypes	International Journal of Current Advanced Research, 7(10D):15981- 15991.	<b>Impact Factor: 6.614</b>  ISSN: O: 2319- 6475, ISSN: P: 2319-6505  <b>UGC Journal NO:43892</b>
41.	B. Sujatha, <b>B. Priyadarshini</b> , L.B. DivyaJyothi, M.V.V.P. Kumar and V. DurgaBhavani	2019	Amylase Activity And Carbohydrate Content Of The Different Plant Parts In <i>CajanusCajan</i> (L.) During Crop Growth	Journal of Global Trends in Pharmaceutical Sciences (Elsevier Covered Products), 10(1): 6049-6064.	<b>IMPACT FACTOR: 0.187</b>  ISSN-2230-7346,  <b>UGC Journal No.46113</b>
42.	<b>B. Priyadarshini</b> , M.V.V.P. Kumar, V. DurgaBhavani and B. Sujatha	2019	Free Amino Acid And Remobilized Nitrogen Composition In Leaves Of <i>CajanusCajan</i> (L.) At Three Different Phases Of Crop Growth	International Journal of Pharmacy and Biological Sciences, 9 (3): 548-555.	<b>I.F.:0.888</b>  ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online)  <b>UGCJournal NO:46322</b>
43.	MeeraIndracanti, Muni Kumar D, Pavan.C. Akkiraju, Hari Priya S, & <b>Priyadarsini B.</b>	2023	Assessment of Environmental Knowledge and Attitudes of Undergraduate Students at Malla Reddy University: A Study on Environmental Ethics.	Journal of Advanced Zoology, 44(S3), 1707– 1714.	<b>ISSN: 0253-7214</b>  <a href="https://doi.org/10.17762/jaz.v44iS3.2389">https://doi.org/10 .17762/jaz.v44iS 3.2389</a>

44.	Meera Indracanti , Muni Kumar Dokka, Pavan Chand Akkiraju, Tejovathi Bandike, <b>Priyadarsini Bada</b> , and Prem Kumar Essgir	2023	A Study Of Knowledge And Perception On Biodiversity Among The Undergraduate Students Of Allied Healthcare Sciences, Mru, Hyderabad	Chelonian Conservation And Biology Vol. 18 No. 2 (2023): 1255-1265 <a href="https://www.acgpublishing.com">https://www.acgpublishing.com</a>	ISSN - 1071- 8443  DOI: <a href="https://doi.org/10.18011/2023.11(2).1255.1265">doi.org/10.18011/2023.11(2).1255.1265</a>
45.	Bogale Damtew , Meera Indracanti, Katherine G. Menon, <b>Priyadarsini B</b> , Tekeba Sisay , and Nega Berhane	2023	Isolation And Characterization Of Phosphate Solubilizing Bacteria From Agricultural Soils Of Amhara And Afar Regions Ethiopia.	Chelonian Conservation And Biology,  Vol. 18 No. 2 (2023):1266.1294  <a href="https://www.acgpublishing.com">https://www.acgpublishing.com</a>	ISSN - 1071- 8443 DOI: <a href="https://doi.org/10.18011/2023.11(2).1266.1294">doi.org/10.18011/2023.11(2).1266.1294</a>
46.	<b>B.</b> <b>Priyadarshini</b> and B. Sujatha	2024	Genotypic Differences In Effect Of Cadmium On Germination And Ultrastructural Changes Of Cell Membranes In Root Cortical Cells Of Pigeonpea ( <i>Cajanus Cajan</i> (L.) Millspaugh)	Under communication	

**b). BOOK CHAPTERS**

Total Number of Book Chapters -2

Sl. No	NAME OF THE AUTHORS	YEAR	TITLE OF THE BOOK CHAPTER	TITLE OF THE BOOK	IMPACT FACTOR AND PLACE OF PUBLICATION
1.	Muni Kumar Dokka, Usha Bolleddu, <b>PriyadarsiniBada</b> , K. P. J. Hemalatha and Siva Prasad Davuluri.	2022 October	Chapter 12:Plant Protease Inhibitors from Abelmoschus seeds: Characterization, Inhibitory and Kinetic studies.	Challenges and Advances in Pharmaceutical Research.	DOI: 10.9734/bpi/capr/v8/317C. Vol 8, 133-151.  Print ISBN: 978-93-5547-807-8, eBook ISBN: 978-93-5547-808-5.  Publisher: B.P. International, London, U.K.
2.	Manisha, Mohd. Shaikhul Ashraf, <b>B.Priyadarsini</b>	2022 November	Chapter 3:Changing Face of Agriculture,Agri - Business, AgricultureMarketing and Organic Farming-Innovation and Strategies	Prospects and Challenges of OrganicFarming in India: A Holistic Approach	ISBN: 978-81-959356-2-8  PUBLISHER:Iterative International Publishers IIP  Page no.16-23.

**b) Papers presented in Conferences, Seminars, Workshops, Symposia**

Total Number of Seminars and Workshops attended - 76

<b>Sl. No</b>	<b>Seminar/ Title</b>	<b>Presentation Title</b>	<b>Place &amp; Date</b>	<b>National/International</b>
1.	Essence of Bioinformatics in today's world and the importance of its products in exploring different fields of studies.	Participated	Dept. of Botany, Andhra University, Visakhapatnam, A.P., India, on Jan. 24 <sup>th</sup> , 2007.	National
2.	The Indian Science Congress Association	Participated	Dept. of Botany, Andhra University, Visakhapatnam, A.P., India, on Jan. 3 <sup>rd</sup> -7 <sup>th</sup> , 2008.	National
3.	Women scientists scheme [WOS] 5 <sup>th</sup> sensitization workshop	Participated	Advanced sciences Bhavan, Andhra University, Visakhapatnam, A.P., India, on Jan. 6 <sup>th</sup> , 2008.	National
4.	Solid and hazardous wastes management for safety, health and environment	<b>Growth and nuclear changes in pigeonpea under heavy metal stress</b>	Dept. of Environmental Sciences, Andhra University, Visakhapatnam, A.P., India, on March 16-17 <sup>th</sup> , 2009	National
5.	Biological and alternative energies- present and future	<b>Cadmium induced plant stress investigated by scanning electron microscopy in <i>Cajanuscajan</i></b>	Dept. of Biochemistry, Andhra University, Visakhapatnam, A.P., India, on August 30-31 <sup>st</sup> , 2009	National
6.	Voice of the voiceless: Articulating women of the fourth world literatures	Participated	Dept. of English, Andhra University, Visakhapatnam, A.P., India, during 4-5 <sup>th</sup> Sept., 2009	<b>International</b>
7.	Emerging trends in aquaculture	Participated	Dept. of Zoology, D.N.R. college, Bhimavaram, E.G. Dt., A.P., India,	National

			during 5-6 <sup>th</sup> Oct., 2009	
8.	Biodiversity conservation and management of bioresources	<b>Cadmium effects on plant growth and photosynthetic pigments of <i>Cajanuscajan</i></b>	Dept. of Zoology, Andhra University, Visakhapatnam, A.P., India, during 28-29 <sup>th</sup> Oct., 2009	National
9.	New frontiers in microbial biotechnology	Participated	Dept. of Microbiology, Andhra University, Visakhapatnam, A.P., India, during 28-30 <sup>th</sup> June, 2010	National
10.	Cellular and Molecular Immunology	<b>Cadmium effects on antioxidative enzymes activities in pigeonpea seedlings</b>	Dept. of Biochemistry, Andhra University, Visakhapatnam, A.P., India, held during 25-26 <sup>th</sup> Sept., 2010	National
11.	Environmental pollution and role of biotechnology	Participated	MVR Degree & PG college, Gajuwaka, Visakhapatnam, A.P., India, during 20-21 <sup>st</sup> Oct., 2010	National
12.	Advanced techniques in molecular biology and genetic engineering	Participated	Dept. of Biochemistry, Andhra University, Visakhapatnam, A.P., India, on 30 <sup>th</sup> Oct., , 2010	National
13.	Future challenges in biochemical education and a colloquium on protease inhibitors: Noble role in physiology and medicine.	<b>Influence of cadmium application on carbohydrate metabolism in pigeonpea cultivars</b>	Dept. of Biochemistry, Andhra University, Visakhapatnam, A.P., India, on 31 <sup>st</sup> Oct., 2010	National
14.	Biotechnology : A global scenario	<b>Inhibition of growth and protein content in pigeonpea in response to cadmium stress</b>	Dept. of Biotechnology, Kakatiya University, Warangal, Telangana, India, during 2-4 <sup>th</sup> Nov., 2010	<b>International</b>



15.	Andhra Pradesh Science Congress	<b>Growth and mitochondrial changes under heavy metal stress</b>	Gitam University, Visakhapatnam, A.P., India, during 14-16 <sup>th</sup> Nov., 2011	National
16.	Advances in biotechnology for sustainable initiatives in 21 <sup>st</sup> century & exhibition on biovizag 2K12	<b>Effects of heavy metals in pigeonpea cultivars on total chlorophyll, <sup>14</sup>CO<sub>2</sub> fixations and stomatal resistance</b>	Dr.V.S.Krishna Govt. College, P.G.Dept. of Biotechnology, Visakhapatnam, A.P., India, during 30&31 <sup>st</sup> March, 2012.	National
17.	Present perspectives of bioactive molecules and biotechnology	Participated	Dept. of Biochemistry, Biotechnology and Microbiology, Andhra University, Visakhapatnam, A.P., India, on 30 <sup>th</sup> -31 <sup>st</sup> Oct., 2012	National
18.	Genomes, Environment & Human welfare- Retrospect & Prospect	<b>Ultrastructural changes of pigeonpea leaf exposed to cadmium</b>	Dept. of Botany, Andhra University, Visakhapatnam, A.P., India, on 22 <sup>nd</sup> -23 <sup>rd</sup> March, 2013	National
19.	Present scenario on potential of bioactive compounds	<b>Cellular damage induced by cadmium in the roots of <i>Cajanuscajan</i></b>	Dept. of Biochemistry, Andhra University, Visakhapatnam, A.P., India, on 25 <sup>th</sup> -26 <sup>th</sup> March, 2013	National
20.	Short term course on Applied Statistics for Teachers & Research Scholars	Participated	UGC-Academic Staff College, Andhra University Visakhapatnam, A.P., India, from 24-10-2013 to 29-10-2013.	National
21.	“Immune Interface of Host – Pathogen Interactions”	Participated	Dept. of Biochemistry Andhra University Visakhapatnam, A.P., India, from 7 <sup>th</sup> – 8 <sup>th</sup> December, 2014.	National

22.	Gender mainstreaming: Issues and strategies for Empowerment	Participated	Dr. DurgabhaiDeshmu kh Centre for Women Studies, Andhra University, Visakhapatnam, A.P., India, from 5 <sup>th</sup> -6 <sup>th</sup> March, 2014.	<b>International</b>
23.	Emerging trends in value addition to plants and plant products	<b>Physiological and ultrastructural changes of cadmium on pigeonpea leaves</b>	St. Joseph's college for women (Autonomous), Visakhapatnam, A.P., India, from 24 <sup>th</sup> -25 <sup>th</sup> July, 2014.	National
24.	English language teaching: A blended approach	Participated	Dept. of Humanities and social sciences, Andhra University, Visakhapatnam, A.P., India, on 18 <sup>th</sup> August, 2014.	National
25.	Obesity- A Life style challenge	Participated	Dr. V.S. Krishna Govt. Degree & P.G. College (A), Dept. of Biochemistry, Visakhapatnam, A.P., India, on 3 <sup>rd</sup> & 4 <sup>th</sup> , February, 2015.	National
26.	Recent Trends in Plant Sciences	<b>Accumulation And Phytotoxicity Of Cadmium InPigeonpea [CajanusCajan].</b>	Dept. of Botany, Andhra University, Visakhapatnam, A.P., India, on 26 <sup>th</sup> &27 <sup>th</sup> , February, 2015	National
27.	Theme: Discovery and development of botanicals as phytomedicines: A Holistic approach for safe and effective health care.	<b>Vacuolar Compartmentalizati on And Complexation Of Heavy Metals At A Subcellular Level In Root Cortical Cells Of</b>	A.U. College of Pharmaceutical Sciences, Andhra University, Visakhapatnam, A.P., India, on 20 <sup>th</sup> - 22 <sup>nd</sup> , March, 2015.	<b>International</b>

		<b>Pigeonpea [<i>CajanusCajan</i>] Under Cadmium Analyzed By Tem-Edx Technology.</b>		
28.	Frontiers in modern biochemistry from molecules to diseases	<b>Quantitative Changes Of Secondary Metabolites Of <i>CajanusCajan</i> By Heavy Metal Stress</b>	Dept. of Biochemistry Andhra University, Visakhapatnam, A.P., India, on 23 <sup>rd</sup> – 24 <sup>th</sup> , March, 2015.	National
29.	Marine biodiversity and management of coastal ecosystems (MBMCE-2015)	Participated	Dept. of Marine Living Resources, Andhra University, Visakhapatnam, A.P., India, on 8 <sup>th</sup> – 9 <sup>th</sup> , April, 2015.	National
30.	Climate change-ecosystems-environment and society	<b>Stomatal responses of <i>Cajanuscajan</i>(C<sub>3</sub>) and <i>Amaranthuspaniculatus</i> (C<sub>4</sub>) plants exposed to varying doses of sulphur dioxide by scanning electron microscopy</b>	Dept. of Environmental Sciences, Andhra University, Visakhapatnam, A.P., India, on 21 <sup>st</sup> and 22 <sup>nd</sup> September, 2015.	National
31	workshop on “Advanced analytical and molecular techniques”	Participated	Advanced analytical laboratory, DST-PURSE Programme, under phase-2, Andhra University, Visakhapatnam, A.P., India, held on 30 <sup>th</sup> November and 1 <sup>st</sup> December, 2015.	National

32.	Contours of women leadership in India	Participated	Dr. Durgabai Deshmukh Centre for women studies, Andhra University, Visakhapatnam, A.P., India, on 4 <sup>th</sup> - 5 <sup>th</sup> December 2015.	National
33.	Advances in Plant And Microbe Research (ICAPMR 2016),	<b>“Structural Changes In Pigeonpea(<i>Cajanus cajan</i>) Seedlings Exposed To Low Levels Of Cadmium In The Medium”</b>	Department of Botany, Nagarjuna University, Guntur, A.P., India, held on 6 <sup>th</sup> - 8 <sup>th</sup> January, 2016.	<b>International</b>
34.	Biodiversity & Phyto-Luxuriance as a way & means for eternal green globe	<b>Consequences of various levels of Zinc toxicity on C<sub>3</sub> (<i>Cajanus cajan</i>) and C<sub>4</sub> (<i>Sorghum bicolor</i>) plants growth and development.</b>	Department of Botany, Visakha Govt. Degree & PG College for women, Visakhapatnam, A.P., India, held on 29 <sup>th</sup> - 30 <sup>th</sup> January, 2016.	National
35.	Workshop on Desalination, In DICON-2016	Participated	Andhra university college of Engineering (A) Andhra university, Visakhapatnam, A.P., India. Date 29 <sup>th</sup> -31 <sup>st</sup> January, 2016.	<b>International</b>
36.	Workshop on Intellectual property rights: Challenges and opportunities for startups		Andhra university college of Engineering (a) (Celebrating Diamond Jubilee) Controller General of patent, Design and trademark,	National

		Participated	Govt of India and National Research Development Corporation, New Delhi, India, date; January 30-01-2016.	
37.	Dimensions of Tribal Health in India	Participated	Department of Anthropology, Andhra University, Visakhapatnam, A.P., India, Date: 20 <sup>th</sup> and 21 <sup>st</sup> February, 2016.	National
38.	Teaching and researching on English language studies,	Participated	Department of Humanities and Social sciences, Au college of Engineering (A) Andhra university, Visakhapatnam, A.P., India. Date 22 <sup>nd</sup> February, 2016.	National
39.	Workshop On Innovative and Sustainable Waste Water Treatment, IWISWTP-2016	Participated	A.U. college of Engineering (A) Andhra University, Visakhapatnam, A.P., India. Date: 25-26 <sup>th</sup> February, 2016.	National
40.	National Seminar on Challenges to Indian constitutional fundamentals and Ambedkarism.	Participated	Dr.B.R.Ambedkar College of Law, Andhra University, Visakhapatnam, A.P., India, March 19 <sup>th</sup> -20 <sup>th</sup> , 2016.	National

41.	National workshop on DNA Science : Principles, Practice and analysis-A workshop for hands-on training in wet-bench experiments and <i>in-silico</i> analysis.	Participated	Department of Botany, Andhra University, Visakhapatnam, A.P., India, April 1 <sup>st</sup> -7 <sup>th</sup> , 2016.	National
42.	National workshop on Principles and Practice of Molecular Modelling in Teaching and Research.	Participated	A.U. College of Pharmaceutical sciences, Andhra University, Visakhapatnam, A.P., India, July 21 <sup>st</sup> -23 <sup>rd</sup> , 2016.	National
43.	2 <sup>nd</sup> Andhra Pradesh science congress,	Participated	Andhra Pradesh Akademi of sciences, Amaravathi (APSC-2016) held at P.B. Siddhartha college of arts and sciences, Vijayawada, A.P., India, during 7 <sup>th</sup> – 9 <sup>th</sup> November 2016.	National
44.	International conference on recent advances in aquaculture (RAA-2016).	Participated	Department of Marine living resources, Andhra University, Visakhapatnam, Andhra Pradesh, India, from 16 <sup>th</sup> – 17 <sup>th</sup> December 2016.	<b>International</b>
45.	Green wealth for		Dr. V.S. Krishna Govt. Degree &	

	global health	Participated	P.G. College (A), Dept. of Botany, Visakhapatnam,A.P , India, on 15 <sup>th</sup> &16 <sup>th</sup> , February, 2017.	National
46.	National workshop on “Electron spin resonance spectrometer”	Participated	Advanced analytical laboratory, DST- PURSE Programme, under phase-2, Andhra University, Visakhapatnam, A.P., India, held on 7 <sup>th</sup> April, 2017.	National
47.	National seminar on Environment, Urbanization and Bio-Resources Management (NS- EUBRM)	Participated	Dept. of Environmental Sciences, Andhra University, Visakhapatnam, A.P., India, on June 28 <sup>th</sup> -30 <sup>th</sup> , 2017.	National
48.	National seminar on DNA Barcoding and Phylogenetics.	Participated	Department of Marine living resources, Andhra University, Visakhapatnam, Andhra Pradesh, India from 09 <sup>th</sup> – 12 <sup>th</sup> August, 2017.	National
49.	Andhra Pradesh science congress, 2017	Participated	Andhra Pradesh Akademi of sciences, 2017 held at Andhra University, Visakhapatnam, during 7 <sup>th</sup> - 9 <sup>th</sup> November, 2017.	National

50.	International conference on Environmental Biotechnology, EBIO-2017	<b>“Cadmium Effects On Polyphenol Oxidase, Acid Phosphatase And Photosynthetic Enzymes Activity In CajanusCajan Seedlings”</b>	Dept. of. Chemical Engineering, A .U. College Of Engineering AUCE (A),Andhra University, Visakhapatnam, A.P., India, during 23 <sup>rd</sup> - 25 <sup>th</sup> November, 2017.	<b>International</b>
51.	National workshop on “Advanced technologies for Biomolecules separations”	Participated	Dept. of. Chemical Engineering, A .U. College Of Engineering(A), Dept of Chemical Engineering, Andhra University, Visakhapatnam, A.P., India, during 16 <sup>th</sup> -17 <sup>th</sup> February, 2018	National
52.	National workshop on “Strategies for prevention and Control of Industrial Pollution.”	Participated	Dept. of. Chemical Engineering, A .U. College Of Engineering AUCE (A), Andhra University, Visakhapatnam, A.P., India, during 3 <sup>rd</sup> March, 2018.	National
53.	National Workshop on Advanced Techniques related to Analytical, Molecular, Material testing and Statistical Tools.	Participated	Advanced analytical laboratory, DST-PURSE Programme, under phase-2, Andhra University, Visakhapatnam, A.P., India, held during 27 <sup>th</sup> -29 <sup>th</sup>	National



			March, 2018.	
54.	State of environment: Environmental protection, management and governance (NS-SEEPMG)	Participated	Dept. of Environmental Sciences, Andhra University, Visakhapatnam, A.P., India, on June 29-30 <sup>th</sup> , 2018.	National
55.	National seminar on Recent trends in applied biology	Participated	School of life and health sciences, AdikaviNannaya University, Rajamahendravaram, E.G.Dt., A.P., India, held on 16 <sup>th</sup> -17 <sup>th</sup> August 2018.	National
56.	Environmental Health And Biotechnological Applications On Food & Pharma Industries (EHBAFPI)	Participated	Dept. of Biotechnology and Food, Nutrition & Dietetics, Andhra University, Visakhapatnam, A.P., India, on 27-28 <sup>th</sup> October, 2018.	National
57.	Workshop on Field Plant Taxonomy and Sampling Protocols under Dept of Biotechnology-Dept of Space joint National project	Participated	Department of Botany, Andhra University, Visakhapatnam, A.P., India, on 12 - 14 <sup>th</sup> November, 2018.	National
58.	National seminar on 'Emerging solutions in medical and environmental biotechnology (ESMEB)	<b>Genotypic differences in effect of cadmium on ultrastructural changes of cell membranes in root cortical cells of pigeonpea</b>	Dr. LankapalliBullayya college, Dept. of Biotechnology, Visakhapatnam, A.P., INDIA held on 22 <sup>nd</sup> and 23 <sup>rd</sup> February 2019.	National

		<b>(<i>CajanusCajan</i> L.) Millspaugh</b>		
59.	International conference on Recent Advances in chemical, Pharmaceutical and Life processes (RACPL-2019)	<b>Phytochemical Components And Ultrastructural Changes Of Root Cortical Cells Of Pigeonpea (<i>CajanusCajan</i>(L.) Millspaugh) In Effect Of Cadmium</b>	Department of Chemistry, Andhra University, Visakhapatnam, A.P., India, on 13 <sup>th</sup> -15 <sup>th</sup> July, 2019.	<b>International</b>
60.	National webinar on Nutraceuticals and medicinal herbs for Health & Immunity	Participated	Dept of Botany, St. Joseph's college for women (Autonomous), Visakhapatnam, A.P., India, on 20 <sup>th</sup> June, 2020.	National
61.	National webinar on Recent advances in modern analytical techniques	Participated	Placement cell, A.U. college of science and technology, Andhra University and PerkinElmer India Pvt. Ltd. On 22 <sup>nd</sup> - 24 <sup>th</sup> June, 2020	National
62.	Government of India, Ministry of Environment, Forest and Climate Change, organized by BSI, Deccan Regional Centre, Hyderabad	Participated	Department of Botany, Andhra University, Visakhapatnam, A.P., India, on 6 <sup>th</sup> January, 2021.	National
63.	Virtual International Conference on 'Recent Trends in Biochemistry and Molecular Biology' (RTBMB-2021)	Participated	Department of Biochemistry, Andhra University, Visakhapatnam, A.P., India, on 7 <sup>th</sup> - 8 <sup>th</sup> January, 2021.	<b>International</b>
64.	One week Virtual	Participated Online	Department of	

	Faculty Development program on Integration of ICT in Teaching Learning Process– Success and Challenges		Commerce, Bon Secours College for Women, Thanjavur from 11.05.2022 to 17.05.2022.	National
65.	Commissionerate of Collegiate Education, 5 day FIP Program for newly recruited Lectures working under Government degree college of AP	Participated	YVU, Kadapa from 29-06-2022 to 03-07-2022 at YVU, Kadapa.	National
66.	Commissionerate of Collegiate Education, Offline Faculty Induction programme (OC).	Participated	UGC-HRDC, Andhra University, Visakhapatnam from 14-07-2022 to 10-08-2022.	National
67.	Faculty development Program on E-Content Generation for LMS	Participated	SKR & SKR GOVT COLLEGE FOR WOMEN (A), KADAPA from 20-10-2022 to 21-10-2022.	National
68.	Two day workshop on learning management system and innovative pedagogies	Participated	Acharya Nagarjuna University, Guntur from 28-12-2022 to 29-12-2022, organized by CCE, A.P., Mangalagiri.	National
69.	Science Academies Lecture Workshop on “Recent Trends in Genetics”	Participated	Department of Biotechnology, Government College for Men, Kadapa from 19-01-2023 to 20-01-2023.	National

70.	Three days non residential training program on Internship and LMS	<b>MASTER TRAINER</b> <b>Presentation on E-CONTENT-4QUADRANT</b>	Nodel Resource Centre,Government College for Men, Kadapa from 23-01- 2023 to 25- 01- 2023, organized by CCE,A.P.,Mangala giri.	National
71.	Three days training program on Internship and LMS	Participated	Nodel Resource Centre,Government College for Men, Kadapa from 06-02-2023 to 08-02-2023, organized by CCE,A.P., Mangalagiri.	National
72.	Six day Training of the Trainers programme on English medium of Instruction, Proficiency in English	Participated	Nodel Resource Centre,Government College for Men, Kadapa from 19-06-2023 to 24-06-2023, organized by CCE,A.P., Mangalagiri.	National
73.	Two day conference on New and Renewable energy resources for sustainable future-2023	Participated	Yogi vemana university, Kadapa from 07- 12- 2023 to 08- 12- 2023.	National
74.	FDP -One week online faculty development programme on 'Pedagogical innovations and strategies in higher education'	Participated	Jointly organized by A.C.T.Academy,Tamil Nadu, and SKR&SKR GDCW(A), Kadapa from 27- 12- 2023 to 03- 01- 2023.	National

75.	FDP- Capacity Building Programme-10 days Residential Training Programme in Botany, Zoology & Life Sciences (Microbiology, Biotechnology & Biochemistry)	Participated	Capacity Building Programme at University of Hyderabad(UOH). Hyderabad for Key Resource Persons from 19.01.2024 to 31.01.2024 organized by CCE,A.P., Mangalagiri.	National
76.	Training of Trainers (TOT)-05 days Non-residential Training Programme in Botany & Microbiology Subjects	<b>MASTER TRAINER</b>	Nodal Resource Centre, Government College for Men, Kadapa from 29.02.2024 to 05.03.2024 , organized by CCE,A.P., Mangalagiri.	National