Dr. Meeta Jain

Research Articles

- Meeta Jain and Rekha M. Puranik: "Protective Effect of Reduced Glutathione on Inhibition of Chlorophyll Biosynthesis by Mercury in Greening Maize Leaf Segments". Ind. J. Exp. Biol. 31, 708 (1993). ISSN: 0975-1009 (Online); 0019-5189 (Print).
- Meeta Jain and Rekha (Puranik) Gadre: "Inhibition of 5-Amino Levulinic Acid Dehydratase Activity by Selenium in Excised Etiolated Leaf Segments during Greening". Ind. J. Exp. Biol. 32, 804 (1994). ISSN: 0975-1009 (Online); 0019-5189 (Print).
- Meeta Jain, Jot Vyas, and Rekha (Puranik) Gadre: "Effect of Reduced Glutathione on Cadmium induced Inhibition of Chlorophyll Biosynthesis in Excised Maize Leaf Segments". Proc. Natl. Acad. Sci. Ind. 64 BIII, (1994). ISSN: 0369-8211 (print version) ISSN: 2250-1746 (electronic version).
- Meeta Jain, Mamta Jain and Rekha (Puranik) Gadre: "Inhibition of Chlorophyll Biosynthesis by Selenium in Greening Maize Leaf Segments". Physiol. Mol. Biol. Plants. 2, 159 (1996). ISSN: 0971-5894 (printversion) ISSN: 0974-0430 (electronic version).
- Meeta Jain and Rekha (Puranik) Gadre: "Effect of As on Chlorophyll and Protein Contents and Enzymic Activities in Greening Maize Tissues". Water, Air and Soil Pollution 93, 109 (1997). ISSN: 0049-6979 (Print) 1573-2932 (Online).
- Jot Vyas, Meeta Jain and Rekha (Puranik) Gadre: "Effect of Reduced Glutathione on the inhibition of Chlorophyll Biosynthesis by Lead in Excised Greening Maize Leaf Segments". Physiol. Mol. Biol. Plants 3, 77 (1997). ISSN: 0971-5894 (printversion) ISSN: 0974-0430 (electronic version).
- Meeta Jain and Rekha (Puranik) Gadre: "Inhibition of Chlorophyll Synthesis and Enzymes of Nitrogen Assimilation by Selenite in Excised Maize Leaf Segments during Greening". Water, Air and Soil Pollution 104, 161 (1998). ISSN: 0049-6979 (Print) 1573-2932 (Online).
- Meeta Jain and Rekha (Puranik) Gadre: "Inhibition of 5-Amino Levulinic Acid Dehydratase Activity by Arsenic in Excised Etiolated Maize Leaf Segments during Greening". Journal of Plant Physiology 161, 251 (2004). ISSN: 0176-1617.
- Meeta Jain and Rekha Gadre: "Inhibition of Chlorophyll Biosynthesis by Mercury in Excised Etiolated Maize Leaf Segments during Greening: Effect of 2-Oxoglutarate". Ind. J. Exp. Biol. 42, 419 (2004). ISSN: 0975-1009 (Online); 0019-5189 (Print).
- Meeta Jain, Monika Pal, Priyanka Gupta and Rekha Gadre: "Effect of Cadmium on Chlorophyll Biosynthesis and Enzymes of Nitrogen Assimilation in Greening Maize Leaf Segments: Role of 2-Oxoglutarate". Ind. J. Exp. Biol. 45, 385 (2007). ISSN: 0975-1009 (Online); 0019- 5189 (Print).
- Meeta Jain and A.S. Raghavendra: "Effect of Osmotic Stress on Production of Hydrogen Peroxide in Pea (*Pisum sativum*) Leaves and its Relationship to Shrinkage". The Journal of Plant Science Research. 23(1-2), 87 (2007). ISSN: 0970-2539; eISSN: 0976-3880.
- Meeta Jain, Anuradha Kaushal, Priyanka Gupta and Rekha Gadre: "Osmotic stress Induced Reduction in Chlorophyll Formation in Bean Leaf Discs". The Journal of Plant Science Research. 25 (1), 53 (2009). ISSN: 0970-2539; eISSN: 0976-3880.

- Sangeeta Jain, Meeta Jain and C. S. Sharma: "Effect of Yoga and Relaxation Techniques on Cardiovascular System". Indian Journal of Physiology and Pharmacology 54(2):183-185 (2010). ISSN: 0019-5499.
- Meeta Jain, Swati Tiwary and Rekha Gadre: "Sorbitol Induced Changes in Various Growth and Biochemical Parameters in Maize". Plant, Soil and Environment. 56(6): 263-267(2010). ISSN 1214-1178(Print) ISSN 1805-9368 (On-line).
- Sangeeta Jain, Meeta Jain and C.S. Sharma: "Changes In Respiratory Function And Lipid Profile Due To Yoga And Relaxation Techniques". International Journal of Pharmacology and Biological Sciences. 5(2): 79-84 (2011). eISSN: 2230-7605; pISSN: 2321-3272.
- Juliana Sarangthem, Meeta Jain and Rekha Gadre: "Inhibition of δ-Aminolevulinic Acid Dehydratase Activity by Cadmium in Excised Etiolated Maize Leaf Segments during Greening" . Plant, Soil and Environment 57(7): 332-337 (2011). ISSN 1214-1178(Print) ISSN 1805-9368 (On-line).
- Bapna R.S., Bhargava S., Singh C.P. and Jain M. "A Study on Evaluation of Correlation between Different Therapy Options, Inhalation-Devices, Methods of Devices and Safety Outcome in COPD Patients". Research Journal of Chemistry and Environment, Vol.15 (2): 724-729, June (2011). ISSN: 0972-0626.
- Prakash Malviya, S.V. Sai Prasad, Meeta Jain and Amit Gautam: "Assessing grain yield and its components in durum wheat using canopy temperature as selection parameter under early heat stress conditions". Progressive Research 7 (special): 122-126 (2012). Print ISSN: 0973-6417 Online ISSN: 2454-6003.
- Priyanka Gupta, Juliana Sarangathem, Meeta Jain and Rekha Gadre: "Inhibition of 5-Aminolevulinic Acid Dehydratase by Mercury in Excised Greening Maize Leaf Segments". Plant Physiology and Biochemistry 62: 63-69 (2013). ISSN: 0981-9428.
- Meeta Jain, Mini Mittal and Rekha Gadre: "Effect of PEG-6000 imposed water deficit on chlorophyll metabolism in maize leaves". Journal of Stress Physiology and Biochemistry 9(3): 262-271 (2013). ISSN, 1997-0838.
- Prakash Malviya, S.V. Sai Prasad, Meeta Jain, Jang Bahadur Singh and Amit Gautam: "Identification of imperative selection parameters for increasing grain yield and grain quality under early sown and moisture conditions in durum wheat (*Triticum durum desf.*)". Progressive Research 9 (1): 276-280 (2014). Print ISSN: 0973-6417 Online ISSN: 2454-6003.
- Seema Kelotra, Meeta Jain, Ankit Kelotra, Ish Jain, Srinivas Bandaru, Anuraj Nayarisseri and Anil Bidwai: "An *in silico* Appraisal to Identify High Affinity Anti-Apoptotic Synthetic Tetrapeptide Inhibitors Targeting the Mammalian Caspase 3 Enzyme". Asian Pacific Journal of Cancer Prevention 15, 10137-10242 (2014) Print ISSN: 1513-7368.
- Meeta Jain, Menka Thapa, Prachi Pradhan, Seema Meena, Jayesh Vaishnav and Rekha Gadre: "Effect of arsenic on δ-aminolevulinic acid formation in greening maize leaf segments". Indian Journal of Plant Physiology, 20(3):191–196 (July–September 2015). ISSN: 0019-5502.
- Meeta Jain, Arpita Shrivastava, Prakash Malviya and Jayesh Vaishnav. "Comparative evaluation of biochemical characteristics in three genotypes of Maize (*Zea mays*)". Indian Journal of Agricultural Biochemistry 28 (1): 61-64 (2015). ISSN: 0970- 6399.

- Jayesh Vaishnav and Meeta Jain. "Influence of halopriming and hydropriming on seed germination and growth characteristics of *Zea mays* L. cv. GSF-2 under salt stress".

Research Journal of Chemistry and Environment 19(10): 1-6 (October 2015). ISSN: 0972-0626.

- Vaishali Mourya, Vineet Kumar, Anita Rani, Meeta Jain and S. M. Husain. "Near-Infrared Reflectance Spectroscopy for Protein Content in Soybean Flour and Screening of Germplasm Across Different Countries". Agricultural Research 5(1): 29–34 (March 2016).ISSN: 2249-720X (printversion) ISSN: 2249-7218 (electronic version).
- Swati Tiwary, Rekha Gadre and Meeta Jain. "Osmotic Stress Induced Changes in Chlorophyll Biosynthesis and Antioxidative System in Light Grown Maize Leaves". Journal of Bioinnovation 5(1): 123-137 (2016). ISSN: 2277- 8330.
- Swati T., and Meeta J. "Impact of Osmotic Stress on Biochemical and Physiological Parameters in *Zea mays* L. cv. Ganga Safed-2 Genotype, Maize Genomics and Genetics, 7(01): 1-14 (doi: 10.5376/mgg.2016.07.0001) (2016). ISSN: 1925-1971.
- Prakash Malviya, S.V. Saiprasad, Meeta Jain and Divya Ambati: Genetic divergence and gene source studies in durum wheat genotypes under early sown and moisture stress conditions. Indian Journal of Plant Genetic Resources. 30(2): 144- 148, 2017. ISSN: 0971-8184.
- Influence of Selenium Supplementation on δ-Aminolevulinic Acid Formation in Greening Maize Leaf Segments. Meeta Jain, Mahija Panwar and Rekha Gadre: Research Journal of Phytochemistry, 11 (3): 111-117, 2017. ISSN: 1819-3471.
- Modulation of δ-Aminolevulinic Acid Dehydratase Activity by the Sorbitol Induced Osmotic Stress in Maize Leaf Segments. M. Jain, S. Tiwary, and R. Gadre: Biochemistry (Moscow), 2018, Vol. 83, No. 1, pp. 32-36. ISSN: 0006-2979.

Book Chapters

- Sunita Kataria, Meeta Jain, Anshu Rastogi, Marek Živčák, Marian Brestic and Durgesh Kumar Tripathy (2018). Role of Nanoparticles on Photosynthesis: Avenues and applications. In: Nanomaterials in Plants, Algae and Microorganisms: Concepts and Controversies. Volume 2. 103-127. Editors: Parvaiz Ahmed, Durgesh Tripathy, D.K. Chouhan, N.K. Dubey and Shivesh Sharma. Publisher: Elsevier Incorporation. ISBN: 978-0-12-811488-9.
- Sunita Kataria, Meeta Jain (2018) Magnetopriming alleviates adverse effects of abiotic stresses on plants.. In: Plant Tolerance to Environmental Stress: Role of Exogenous Phytoprotectants. Editors: Mirza Hasanuzzaman, Masayuki Fujita, Hirosuke Oku and Md. Tofazzal Islam. Publisher: Taylor & Francis Group, LLC, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, Florida 33487, U.S.A.(In Press).
- Sunita Kataria, Meeta Jain, Mansi Kanungo and Sonika Sharma. Wheat responses and tolerance to UV-B radiation: an Overview (2018). In: Wheat Production in Changing Environments -Management, Adaptation and Tolerance. Editors: Editors: Dr. Mirza Hasanuzzaman, Dr. Kamrun Nahar and Dr. Amzad Hossain Publisher: Springer Nature, Singapore. 2018 (In Press).
- Prakash Malviya, S.V. Sai Prasad, Meeta Jain and Divya Ambati. Canopy Temperature as Selection Parameter for improving Grain Yield under early Heat Stress conditions in Durum Wheat (2018). *Multilogic in Science,* VOL. VIII, ISSUE XXVII, OCT 2018. ISSN No. 2277-7601.
- Meeta Jain*, Sunita Kataria, Mamta Hirve and Rajkumar Prajapati. Water Deficit Stress Effects and Responses in Maize. In: Plant abiotic stress tolerance- Agronimic,

molecular and biotechnological approaches (2018). Editors: Mirza Hasanuzzaman, Khalid Rehman Hakeem, Kamrun Nahar, Hesham Alharby, Springer Publisher, (In Press).

- Mamta Hirve , Meeta Jain*, Sunita Kataria and Dugresh Kumar Tripathy. Heavy metals, water deficit and their interaction in plants: An overview. In: Plant life under changing environment- Responses and management. Elsevier (2018). Editors: D.K. Tripathy, V.P. Singh. S. Sharma. S.M. Prasad, D.K. Chauhan. N.K. Dubey, N. Ramawat. (In Press).
- Sonika Sharma, Sunita Kataria, Meeta Jain and Dugresh Kumar Tripathy. Regulation of Calvin cycle under abiotic stresses: An overview. In: Plant life under changing environment- Responses and management. Elsevier (2018). Editors: D.K. Tripathy, V.P. Singh. S. Sharma. S.M. Prasad, D.K. Chauhan. N.K. Dubey, N. Ramawat. (In Press).