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fungus as exhibited by both of the bacterial isolates indicates that, in light of environmental concerns and increasing cost of fungicides, these bacterial isolates may have potential as a biological control agent of Sclerotinia stem rot of Brassica in India.

Keywords: Sclerotinia, Stem Rot Disease, Mustard, Pathogenesis, antifungal activity

Growth Parameters of Direct-Seeded Rice as Influenced by Crop Establishment Methods and Zinc Fertilization

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An experiment of direct-seeded rice involving three crop establishment methods (conventional till-direct seeded rice, conventional till-wet direct seeded rice and zero till-direct seeded rice) in the main plots and five zinc fertilization treatments (foliar application), 3 kg zinc ha¹ (basal application), 6 kg zinc ha¹ (basal application) and 6 kg zinc ha¹ (soliar application) in the sub-plots was undertaken in a split-plot design with three replications at Agricultural Research Farm, parametersviz., plant height, dry matter accumulation m¹ row length and the total number of tillers m¹ row length were recorded at and 90 days after sowing and at harvesting stage whereas leaf count m¹ row length and leaf area index were observed at 30, 60 observed higher plant height (40.94, 83.88, 108.26 and 108.54 cm), dry matter accumulation (38.41, 82.24, 182.23 and 194.45 g), total number of tillers (46.64, 71.90, 63.20 and 60.79) leaf count (146.09, 238.54 and 249.83) and leaf area index (1.41, 3.51 and 4.84) at all the crop growth stages. With respect to zinc fertilization, 6 kg Zn ha¹ (basal application) was found superior over rest of the treatment and recorded higher plant height (41.34, 83.98, 108.43 and 108.81 cm), dry matter accumulation (41.41, 81.68, 180.16 and 190.77 g), total number of tillers (40.51, 74.39, 66.56 and 64.90) leaf count (147.95, 234.98 and 246.11) and leaf area index (1.41, 3.43 and 4.73) at all the crop growth stages. Based on the results, it is concluded that conventional till-wet direct seeded rice and 6 kg Zn ha¹ (basal application) was found to be better for growth parameters of direct-seeded rice.

Keywords: Crop establishment methods, Zinc fertilization, Direct-seeded rice, Growth parameters, Conventional tillage, Zero tillage

Computational Resources for the Modeling Biding Affinity of Steroids to Sex Hormone-Binding Globulin (SHBG) Vishal M. Balaramnavar

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The circulating endogenous steroids bound to a highly specific sex hormone-binding globulin (SHBG) and in lower-affinity to the proteins like the corticosteroid-binding protein and albumin in vertebrate including fish are transported in the bloodstream. The xenobiotics are primarily released in the aquatic environment, there is a need to evaluate the binding affinity of xenosteroid mimics on fish SHBG, especially on Zebrafish (*Danio rerio*), a small freshwater fish originating from India, which is xenosteroid mimics on fish SHBG, especially on Zebrafish (*Danio rerio*), a small freshwater fish originating from India, which is widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG widely used in ecotoxicology, toxicology, and genetics. Previously we developed a homology model for the zebrafish SHBG and Threater developed pharmacophore model will differentiated between zebrafish binders and non binders. Thus this approach may be a useful tool in the identification of anthropogenic between zebrafish binders and non binders. Thus this approach may be a useful tool in the identification of anthropogenic between zebrafish binders and may augment the consciousness of vulnerability posed by existing commercial chemicals at compounds inhibiting zfSHBG and may augment the consciousness of vulnerability posed by existing commercial chemicals at compounds inhibiting zfSHBG and may augment the consciousness of vulnerability posed by existing commercial chemicals at compounds inhibiting zf

Keywords: Danio rerio; Zebrafish SHBG; Ecotoxicology; Homology modeling; Molecular docking; Pharmacophore modeling