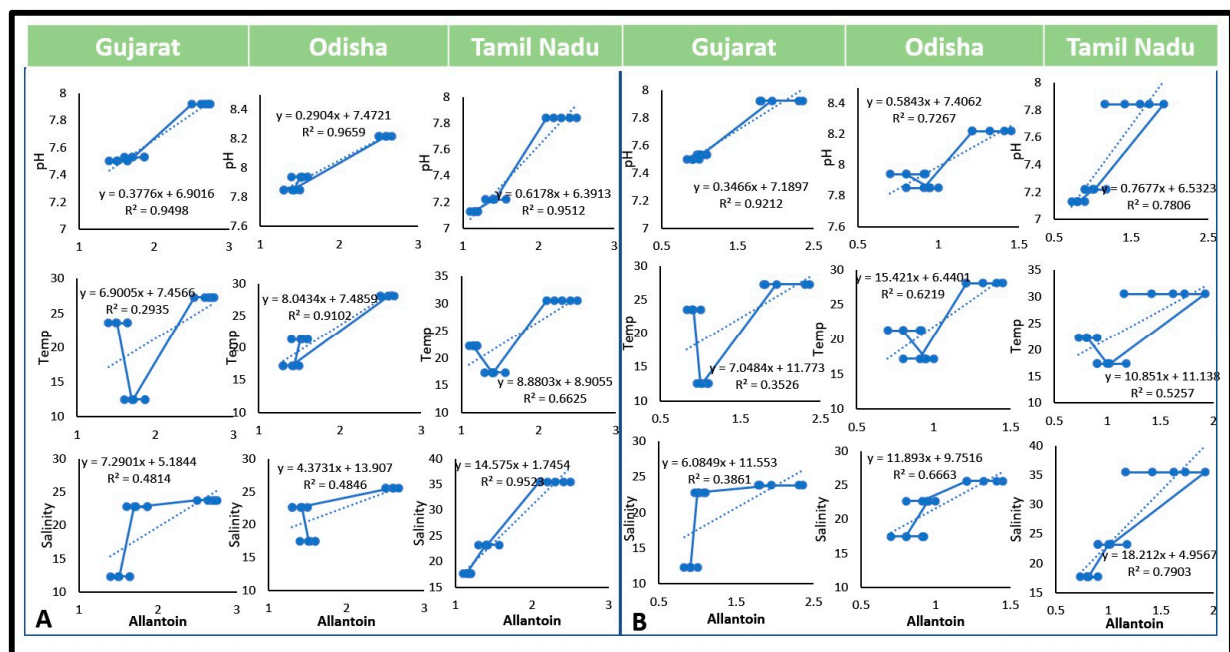
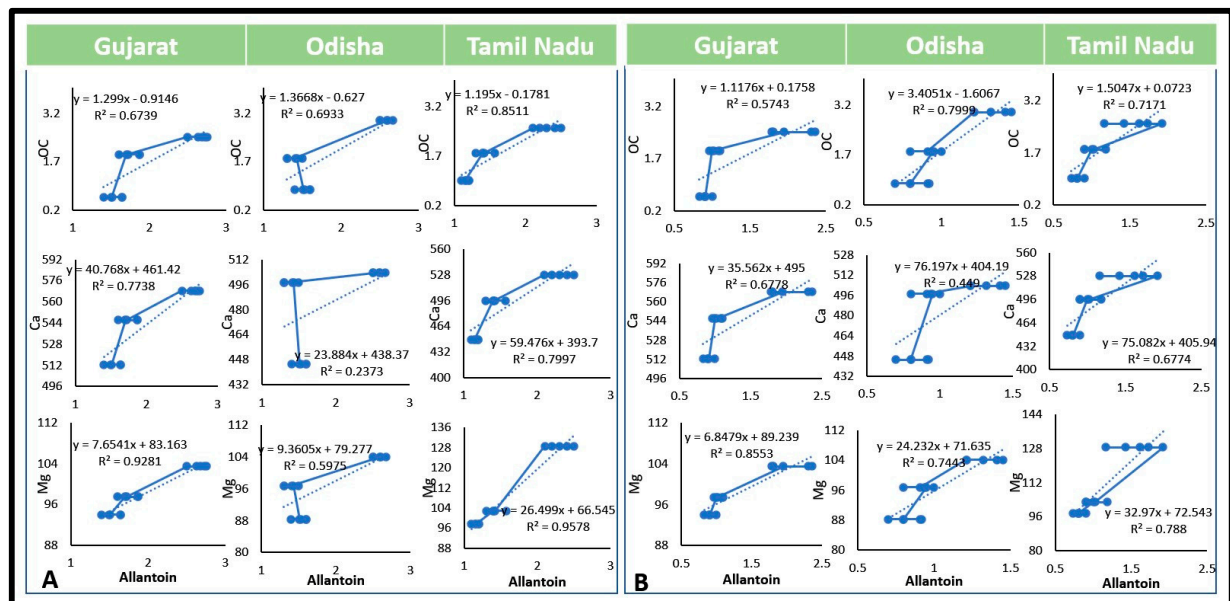


Figure S1. Correlation graph of physico-chemical properties of water and allantoin.



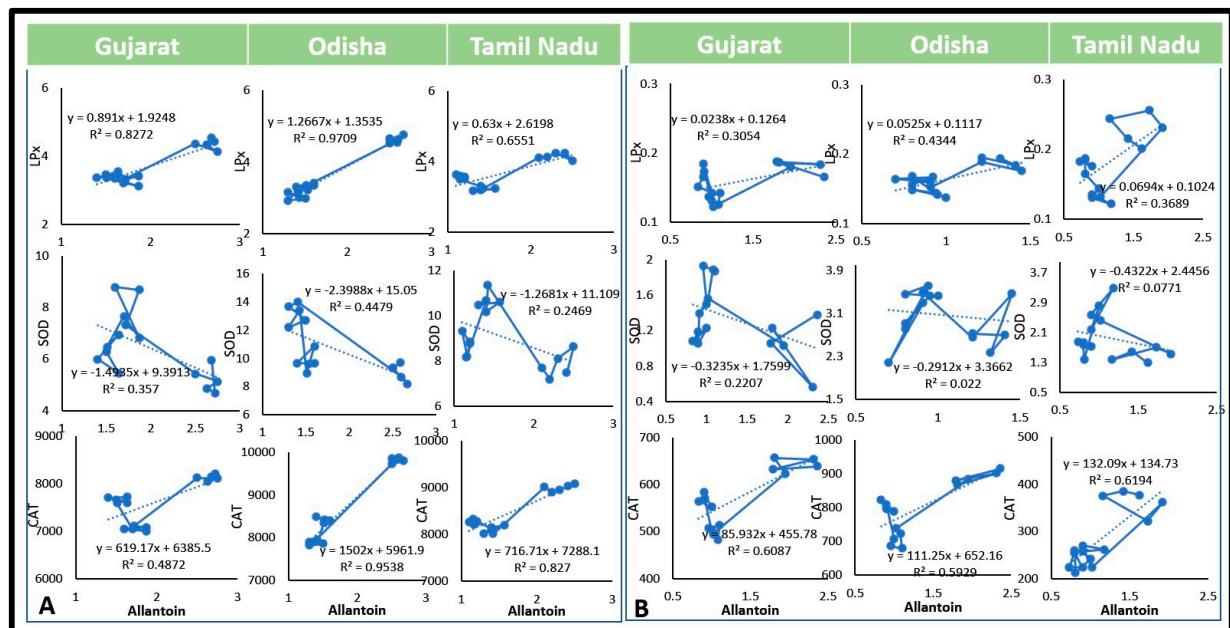
Correlations were formed by taking allantoin (x axis) and physico-chemical properties of water (y axis) and each graph having slope equation and “ r^2 ” values. Seasonal correlation graph of temperature, pH and salinity with allantoin of hepatopancreas (A) and muscle (B) tissue of *S. serrata*.

Figure S2. Correlation graph of sediment factors and allantoin.



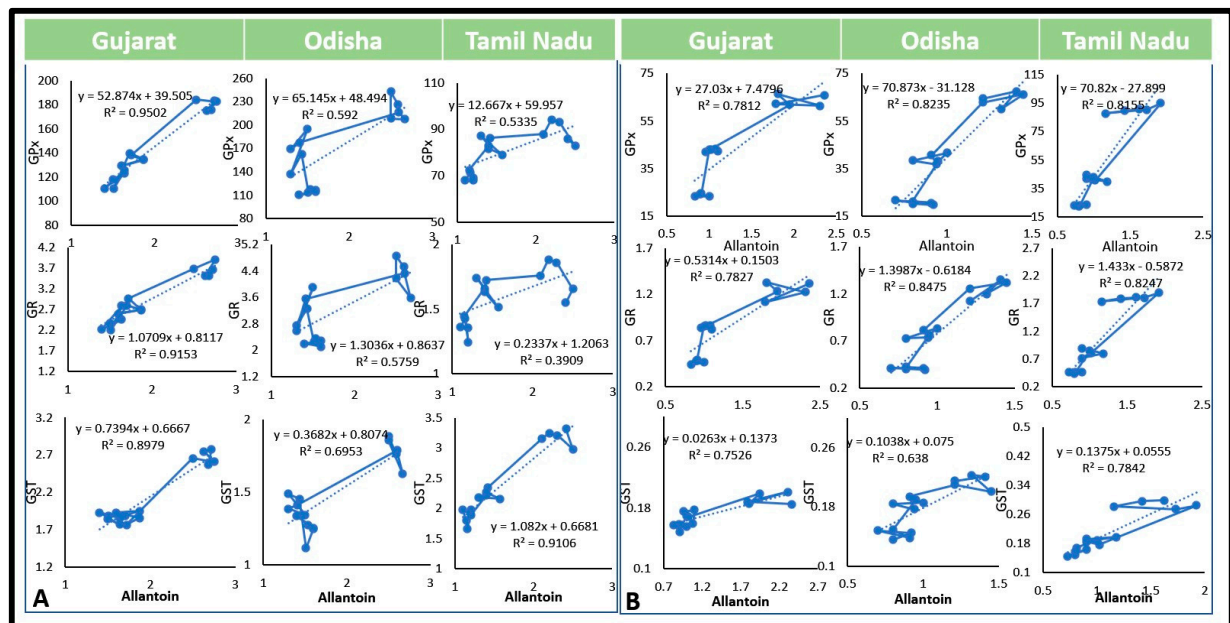
Correlations were formed by taking allantoin (x axis) and sedimental factors (y axis) and each graph having slope equation and " r^2 " values. Seasonal correlation graph of OC, Ca and Mg with allantoin of hepatopancreas (A) and muscle (B) tissue of *S. serrata*.

Figure S3. Correlation graph of OS and AD enzymes with allantoin.



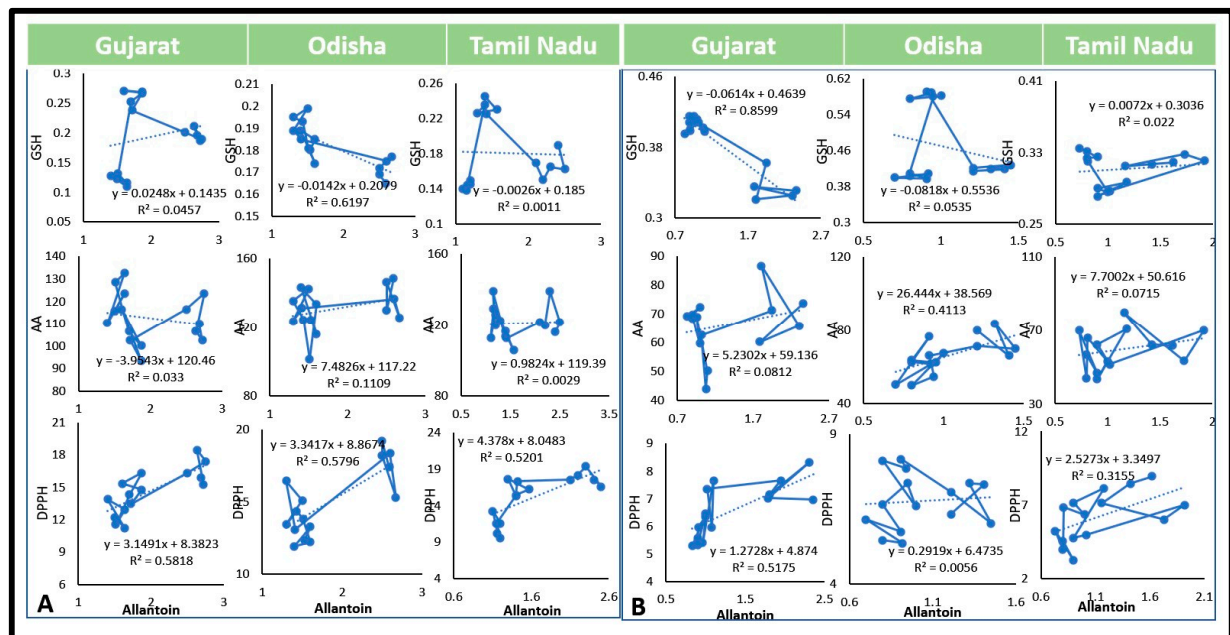
Correlations were formed by taking allantoin (x axis) and AD enzymes (y axis) and the graph includes slope equation and “ r^2 ” values. Seasonal correlation graph of LPx, CAT and SOD with allantoin of hepatopancreas (A) and muscle (B) tissue of *S. serrata*.

Figure S4. Correlation graph of AD enzymes with allantoin.



Correlations were formed by taking allantoin (x axis) and AD enzymes (y axis) and the graph includes slope equation and “ r^2 ” values. Seasonal correlation graph of GPx, GR and GST with allantoin of hepatopancreas (A) and muscle (B) tissue of *S. serrata*.

Figure S5. Correlation graph of small AD molecules and total antioxidant capacity with allantoin.



Correlations were formed by taking allantoin (x axis) and small AD enzymes (y axis) showing slope equation and " r^2 " values. Seasonal correlation graph of GSH, AA and DPPH with allantoin of hepatopancreas (A) and muscle (B) tissue of *S. serrata*.