

**Differential morpho anatomical and physio  
biochemical responses to Cadmium, Lead and  
Manganese in Cowpea (*Vigna unguiculata*) and  
Bhindi (*Abelmoschus esculentus*)**

*Thesis submitted to*

*The Mahatma Gandhi University, Kottayam*



*For the Degree of*

*Doctor of Philosophy*

*in*

*Botany*

*Under The Faculty of Science*

*By*

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*Under the guidance of*

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*PhD. Thesis, Under The Faculty of Science, M.G. University*

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