

Contents

	<i>Page No.</i>
<i>General introduction</i>	1-38
<i>Aims and objectives</i>	39-40
<i>Chapter 1</i> Isolation, identification and growth optimization of chromium resistant fungal strain aiming biotransformation of Cr(VI) in industrial effluent	41-62
<i>Chapter 2</i> Investigation of the altered morphology and protein profile of <i>Fusarium</i> MMT1 strain during biotransformation of Cr(VI) to Cr(III)	63-77
<i>Chapter 3</i> Green synthesis of protein capped anisotropic nano-gold particle using <i>Fusarium</i> sp. MMT1: Characterization of the NGPs	78-98
<i>Chapter 4</i> Green synthesis of protein capped nano-silver particle using <i>Fusarium</i> sp. MMT1: Characterization of the NSPs	99-113
<i>Chapter 5</i> Recyclable biocatalytic reduction of nitroaromatics and synthetic dyes utilizing biosynthesized nano-gold and nano-silver particles	114-139
<i>Summary</i>	140-143
<i>Publication</i>	144