Biotechnological Innovations through Fungi
V. K. Gukpa, I.V. Grigoriev, Jean-Guy Berrin, R.S. Upadhyaya, S. Zeilinger-Migsich

To cite this version:
V. K. Gukpa, I.V. Grigoriev, Jean-Guy Berrin, R.S. Upadhyaya, S. Zeilinger-Migsich. Biotechnological Innovations through Fungi. Mycosphere Journal, Guizhou Academy of Agricultural Sciences, 2016, 7 (10), pp.1490. 10.5943/mycosphere/si/3b/11 . hal-01594532

HAL Id: hal-01594532
https://hal.archives-ouvertes.fr/hal-01594532
Submitted on 27 May 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Distributed under a Creative Commons Attribution - NonCommercial - ShareAlike| 4.0 International License
Biotechnological Innovations through Fungi

Gupta VK¹, Grigoriev IV², Berrin JG³, Upadhyay RS⁴, Zeilinger-Migsich S⁵

¹Molecular Glyco-biotechnology Group, Discipline of Biochemistry, National University of Ireland Galway, Ireland Phone: +353 86 200 1820
²Department of Energy Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, The Center for Integrative Genomics, University of California and Genomics Division, Lawrence Berkeley National Laboratory, Mailstop 84-171, Berkeley, CA 94720, USA
³Laboratoire de Biotecnologie des Champignons Filamenteux, Marseille, France
⁴Department of Botany, Dy. Coordinator, Centre of Advanced Study, Banaras Hindu University Varanasi 221 005, India.
⁵Institute of Microbiology, University of Innsbruck, Technikerstrasse 25, 6020 Innsbruck, Austria

Email: vijaifzd@gmail.com; vijai.gupta@nuigalway.ie

Gupta VK, Grigoriev IV, Berrin JG, Upadhyay RS, Zeilinger-Migsich S 2016 – Biotechnological Innovations through Fungi. Mycosphere 7 (10), 1490, Doi 10.5943/mycosphere/si/3b/11

Research on fungal systems assumes a key part in the biotechnological and biomedical sectors. It has transformed into a subject of growing importance as new fungi and their related biomolecules are described. Fungal interactions with their biotic and abiotic environment is essential to various procedures occurring in the biosphere. The indigenous habitats and hosts of these eukaryotic microorganisms are to a great degree, variously reflected, by the way that fungi are far reaching and found in almost every organic group on Earth. This metabolic flexibility makes fungus intriguing organisms for a scope of industrially important biotechnological applications. Understanding the science of particular fungi in contrasting natural biological communities and their relationship with their living and non-living surroundings is vital to bolster effective and innovative enhancements. To comprehend the potential and to truly grasp the different qualities and science of these eukaryotes, continuing with change of experimental design and strategies are significant. The basic target of this volume is to compile the work from the experts in various researches of fungal biology and biotechnology and review the most recent advances using current developments.