**Biotransformation of some steroids by *Aspergillus glaucus***

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**Abstract**

Fungal steroid biotransformations have been widely used for a long time in order to convert and synthesize steroids since they can be carried out by their remarkable regio- and stereoselectivities [1].

*Aspergillus* is an extremely important fungal genus concerning mycotoxins, pathogenicity, fundamental eukaryotic genetics and biotechnological exploration [2]*. Aspergillus* species are ubiquitous fungi found in soil, water, and decaying materials. A few *Aspergillus* species are considered pathogenic to humans and animals [3,4].

*Aspergillus glaucus* is known to be a cosmopolitan fungus due to its physiological hardiness under more extreme conditions. *A. glaucus* may be mildly pathogenic for humans [3,4].

In this work, three steroids, pregnenolone, progesterone, epiandrosterone, were incubated with *A. glaucus* MRC 200914 for 5 days. Incubation of these steroids with *A. glaucus* mainly afforded some hydroxylated metabolites. The metabolites were separated by column chromatography. Structure determinations of the metabolites were performed by comparing melting points, NMR and IR spectra of starting materials with those of metabolites.

***Keywords:*** Biotransformation, *Aspergillu*s, Pregnenolone, Progesterone, Epiandrosterone

**References**

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