

## 12th May 2015 Biology B2 Mark Scheme

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current academic studies in educational sciences

research on microbes plays an essential role in the improvement of  
biotechnological and biomedical areas it has turned into a subject of expanding  
significance as new organisms and their related biomolecules are being  
characterized for several applications in health and agriculture microbial  
biomolecules confer the ability of microbes to cope with a range of adverse  
conditions however these biomolecules have several advantages over the plant  
origin which makes them a suitable target in drug discovery and development  
the reasons could be that microbial sources can be genetically engineered to  
enhance the production of desired natural production by large scale  
fermentation the interaction between microbes and their biotic and abiotic  
environment is fundamental to numerous processes taking place in the  
biosphere the natural environments and hosts of these microorganisms are  
extremely diverse being reflected by the fact that microbes are widespread and  
occur in nearly every biological community on earth this metabolic versatility  
makes microbes interesting objects for a range of economically important  
biotechnological applications most of the biotechniques are established but  
inefficient genetic engineering strategies are still a bottleneck for selected  
microbe producing industrial scale biomolecules therefore untapped microbial  
biodiversity and related metablomics give a noteworthy wellspring of  
biologicals for the advancement of meds immunizations enhanced plants and  
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microbial secondary metabolites microbial biosynthetic potential including  
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dr bourin works in a biotechnology company that develops a production process of asc for clinical uses dr gimble is a co founder co owner and chief scientific officer at obatala sciences and lacell biotechnology companies focused on the clinical translation of adipose derived cells and tissues the other guest editors declare no competing interests with regard to the research topic subject

food security crop protection biodiversity and human and environmental health

are among the main needs and concerns of society modern biotechnology and life sciences represent a constantly evolving area that is key for the rational use of natural resources resources that in turn are indispensable for societal development this book features the outcomes of the iv international biotechnology and biodiversity congress held in guayaquil ecuador 2018 it includes extensive reviews of the trends in agricultural and forestry biotechnology molecules and materials biodiscovery ethnomedicine environmental impact and bioindustry research describing many of these topics from the latin america perspective and showing how the biodiversity and ancient knowledge of these countries are vital for worldwide sustainable development

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written with the advanced undergraduate in mind this book introduces into the field of bioinformatics the authors explain the computational and conceptional background to the analysis of large scale sequence data many of the corresponding analysis methods are rooted in evolutionary thinking which serves as a common thread throughout the book the focus is on methods of comparative genomics and subjects covered include alignments gene finding phylogeny and the analysis of single nucleotide polymorphisms snps the volume contains exercises questions answers to selected problems

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