



Studies Towards the Isolation and Structure Elucidation of Bioactive Compounds from Actinobacteria

Dr Hadiza Aminu Isah^a, Aaron Baksh^b, Dr Bernhard Kepplinger^b, Dr Olga Chrobak^a, Dr. Corinne Wills^a, Dr. Nick Allenby^b, Dr. Michael Hall^a

^aChemistry, School of Natural and Environmental Sciences (SNES), Newcastle University, Newcastle Upon Tyne, NE1 7RU, UK. ^bDemuris Ltd., The Biosphere Draymans Way, Newcastle Helix Newcastle upon Tyne NE4 5BX, UK, ^cUmaru Musa Yar'adua University, Dutsin-ma Road, Katsina State, Nigeria.

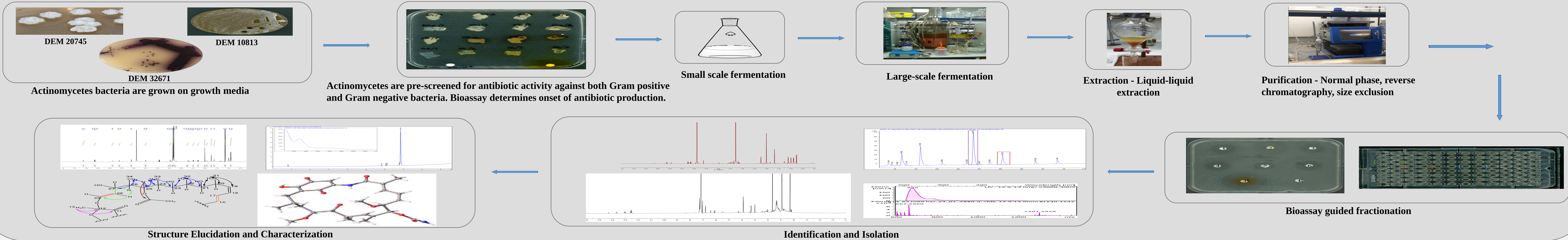
hadiza.aminu@yahoo.com



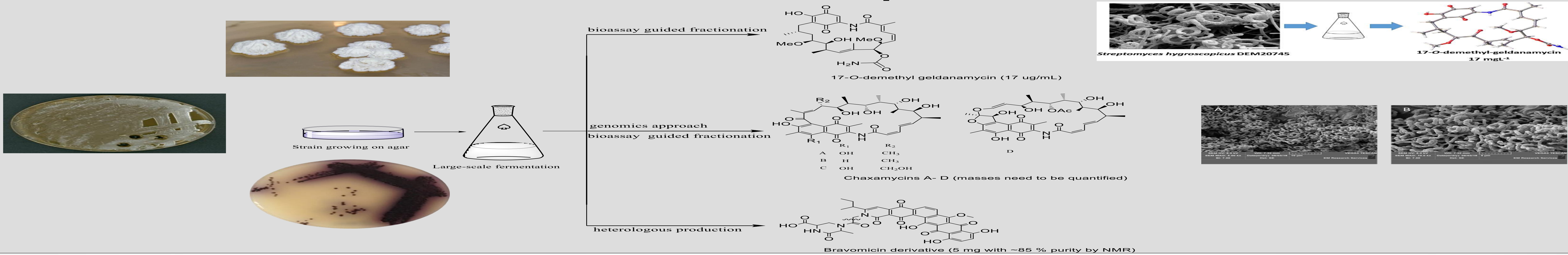
Introduction

Microorganisms have been sources of bioactive compounds used for the treatment of different ailments.¹ Actinomycetes bacteria belonging to the order Actinomycetales are prolific producers of these bioactive compounds. With the rise of alternative techniques, the search of bioactive compounds using actinomycetes decreased. However, with the increase in anti-therapeutic resistance with no treatment there has been a revival in the search for bioactive compounds from actinomycetes.^{1,2} Herein using three case studies we approach the search for bioactive compounds from actinomycetes sourced from different environments.

Identification, Isolation and Characterisation Novel Bioactive Compounds



Identified Bioactive Compounds



Conclusion and Future work

Actinomycetes are excellent sources of antibiotics, therefore using genomics, bioassay guided fractionation and heterologous production we have been able to identify, develop isolation protocols and characterise some antibiotics.

References

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