

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4637 | Cape Town | 8001
www.sahra.org.za

Enquiries: Ragna Redelstorff, PhD

Tel: +27 (0)21 202 8651

Email: rredelstorff@sahra.org.za

CaseID: 16492

Date: Monday May 31, 2021

Page No: 1

Letter

In terms of Section 35(4) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Dr Jennifer Botha

National Museum Bloemfontein - Karoo Palaeontology Department

PO Box 266

Bloemfontein 9300

No study has investigated the bone microanatomy pattern of a large sample of Anomodontia. The present study seeks to elucidate the different bone microanatomies of various anomodont taxa spanning the entire clade. The aim of the study is to assess the lifestyle, phylogeny, and biomechanics of anomodont therapsids using bone microanatomy. The objectives of the study are to (1) quantitatively describe the patterns in the bone microanatomy of South African anomodonts and (2) investigate possible reasons for the differences and/or similarities in the microanatomy. This is an important study as recent research has suggested that the infilling of medullary cavities indicates an aquatic lifestyle and as most anomodonts have infilled medullary cavities, this would suggest that the anomodont clade was aquatic. As the historical literature indicates that anomodonts were terrestrial, it is important that we resolve this issue regarding anomodont palaeobiology.

Dear Dr Jennifer Botha,

Thank you for your application for invasive sampling of the humerus of *Kannemeyeria* specimen SAM-PK-10555 from the Karoo for osteohistological analysis at the National Museum, Bloemfontein.

SAHRA has reviewed your application and decided to approve it.

We wish you every success with this project.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

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Ragna Redelstorff, PhD
Heritage Officer
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <https://sahris.sahra.org.za/node/574405>

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.