**Read-me for DOI D1506: Dataset for: Reptile-like physiology in Early Jurassic stem mammals**

This folder comprises ‘virtual thin-sections’ representing the fossilised dental cementum of the early mammals *Morganucodon* and *Kuehneotherium.* These data were created during a four day synchrotron-radiation based X-ray tomographic (SRCT) experiment at the ID19 beamline of the European Synchrotron Radiation Facility (Grenoble, France) and a three day SRCT experiment at the TOMCAT beamline of the Swiss Light Source (Villigen, Switzerland). All data was reconstructed using single distance phase contrast reconstruction techniques. Virtual thin-sections were created by summing ten 0.33-µm-thick transverse SRCT slices together.

Dataset DOI: <https://doi.org/10.5258/SOTON/D1506>

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Date of data collection: 1/4/2014 – 1/4/2015

For further discussion of this data and its acquisition, please refer to:

Newham, E., Gill, P. G., Brewer, P., Benton, M. J., Fernandez, V., Gostling, N. J., Haberthür, D., Jernvall, J., Kankanpää, T., Kallonen, A., et al. (2020). Reptile-like physiology in Early Jurassic stem-mammals. *Nature Communications.* In press.

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