



## Sureyya Kose

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### Brief Summary

I am currently reading towards a PhD investigating the potential mechanisms behind cholelithiasis or gallstone disease. Our team is utilising an interdisciplinary approach that includes state-of-the art techniques in geochemistry, microbiology and analytical chemistry.

**Education:** Bachelor of Arts/Archaeology, La Trobe University. Master of Science (Geoscience), Macquarie University.

**Research interests:** Archaeology, Medical Geology, Geochemistry, Microbiology, Bioinformatics.

**Thesis title:** Molecular, Isotopic and genomic composition of human gallstones.

**Supervisors:** Kliti Grice, Marco J.L. Coolen, Mohammad Ballal

### Publications:

Kose, S., George, S.C., Lau, I.C. 2016, 'Distinguishing in situ stromatolite biosignatures from silicification and dolomitisation using short wave, visible-near and thermal infrared spectroscopy: A Mars analogue study. *Vibrational Spectroscopy*, Vol. 87, 67-80.

Kose, S. 2013, 'Glacial Advances in Europe, Asia and North America', in ed., *Encyclopedia of Global Archaeology*, Springer Reference, New York.

Ngarluma Aboriginal Corporation, Kose, S., Olowoyo, T., Hansen, K., 2012, 'The Aboriginal Site Recording and the Cultural Assessment of Aboriginal Sites in the Green Pool to Harding Area, Winyama Project (353 MTPA Project Area), West Pilbara Region, Western Australia [Documentary Film]

### Conferences:

Kose, S., George, S.C., Lau, I.C. "Distinguishing in situ stromatolite biosignatures from silicification and dolomitisation using short wave, visible-near and thermal infrared spectroscopy: A Mars analogue study' Poster presented to TIGeR Conference 2016, 26<sup>th</sup>-28<sup>th</sup> September 2016, Perth, Australia.

Kose, S., Grice, K., Ballal, M., and M.J.L. Coolen. 'Molecular, Isotopic and Genomic composition of Human Gallstones' talk presented to the 19<sup>th</sup> Australian Organic Geochemistry Conference, 4-7 Dec 2016, Fremantle, Australia.

Kose, S., Grice, K., Ballal, M., and M.J.L. Coolen. 'Molecular, Isotopic and Genomic composition of Human Gallstones' talk presented to the 7th International Conference on Medical Geology, Aug 28<sup>th</sup>-1 Sep 2017, Moscow, Russia