Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite

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This document serves as instructions for the location of the data within the directory **Hanna\_MDPI Materials\_Repository** available from the University of Warwick open access research data repository, WRAP (Warwick Research Archive Portal). This data directory contains the raw data files for all the data presented in the *Materials MDPI* manuscript entitled “Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite“.

The directory is separated into the subdirectories below

**Antibacterial**

This contains an excel sheet **Antibacterial** of the antibacterial assay data.

**FTIR**

This contains the Individual text files named **CaXX\_Abs** where **XX** is the amount of copper doping.

**NMR**

This contains two subfolders **Solid\_State and Wet\_Chemistry** for the solid state synthesised materials and wet chemistry synthesised materials respectively. The are two files for each sample donated **HAXSS** or **HAXWCM** for the solid state or wet chemistry materials respectively where **X** is the level of copper doping for the raw Bruker TopSpin data. The second file donated **HAXSS\_Fits**  or **HAXWCM\_Fits** contains the simulated fits.

**Raman**

There are four subfolders for **X HAP** where **X** is the amount of copper doping, within these there are **Cu X SS** for the solid state materials. The text files are the raw data for the raman spectra, SRDB and Certificate are instrument files there are 3 repeats from different areas of the sample.

**SEM**

This contains two .tif files, **FESEM\_HA\_Main** and **SEM\_HA\_Appendix**, the field emission scanning electron microscopy images for the hydroxyapatites in the main text and appendix B respectively.

**XAS**

This contains the XAS NOR files for the XAS samples.

**XRD**

This contains the .xy files of the XRD data labelled **HAXSS** or **HAXWCM** where **X** is the level of copper doping for the solid state and wet chemistry materials respectively.