**Key to image labelling for fig 8**

File names are of the format x-y-zzimage\_qnn

X = accelerating voltage of the electron beam in keV

y-zz is the electron beam current y.xx nA

qnn is the image reference number used in the lab

for example:

2-0-03image\_q92 is an EBIC image recorded at 2 keV and 0.03 nA and having reference number q92

**Image processing data.**

The files in this repository are the unprocessed original image files. As stated in the manuscript, the published versions have had the range of contrast expanded so as to occupy the full range of grey scale space from 0 to 100%.