Supplementary Information for:

Profiling changes to natively-bound metals during Caenorhabditis elegans development

Dominic J. Hare\textsuperscript{1,2†}, Blaine R. Roberts\textsuperscript{2†} and Gawain McColl\textsuperscript{2*}

\textsuperscript{1} Elemental Bio-imaging Facility, University of Technology Sydney, Broadway, New South Wales, 2007, Australia
\textsuperscript{2} The Florey Institute of Neuroscience and Mental Health, The University of Melbourne, Parkville, Victoria, 3052, Australia

\textsuperscript{†} These authors contributed equally

Correspondence to:
Gawain McColl
gawain.mccoll@florey.edu.au; Ph. +61 3 903 56608; Fax. +61 3 9035 3107
Supplementary Figure 1: Molecular weight calibration trace for SEC-ICP-MS for Agilent BioSEC5 column.
Supplementary Figure 2: Molecular weight calibration curve for Agilent BioSEC5 column using ferritin, catalase and SOD1 retention volumes from Supplementary Figure 1.
**Supplementary Table 1:** Total metal levels per mg of protein, determined by integration of total area under the curve for iron, copper and zinc and quantified using injected metalloprotein standards. \(^a\) Calculated area under the curve below limit of detection, indicative only.

<table>
<thead>
<tr>
<th>Developmental stage</th>
<th>Fe (pg mg(^{-1}) protein)(^a)</th>
<th>Cu (pg mg(^{-1}) protein)</th>
<th>Zn (pg mg(^{-1}) protein)(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eggs</td>
<td>364.0</td>
<td>52.95</td>
<td>9.146</td>
</tr>
<tr>
<td>L1</td>
<td>440.4</td>
<td>25.35</td>
<td>5.332</td>
</tr>
<tr>
<td>L2</td>
<td>700.4</td>
<td>28.82</td>
<td>5.794</td>
</tr>
<tr>
<td>L3</td>
<td>447.7</td>
<td>24.89</td>
<td>3.919</td>
</tr>
<tr>
<td>L4</td>
<td>472.0</td>
<td>31.17</td>
<td>4.539</td>
</tr>
<tr>
<td>Young adult</td>
<td>785.6</td>
<td>36.28</td>
<td>7.529</td>
</tr>
</tbody>
</table>