

Electronic Supplementary Information to

**Chemical Imaging and Overall Assessment of Cadmium Distribution  
in the Human Body**

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This online supplement contains:

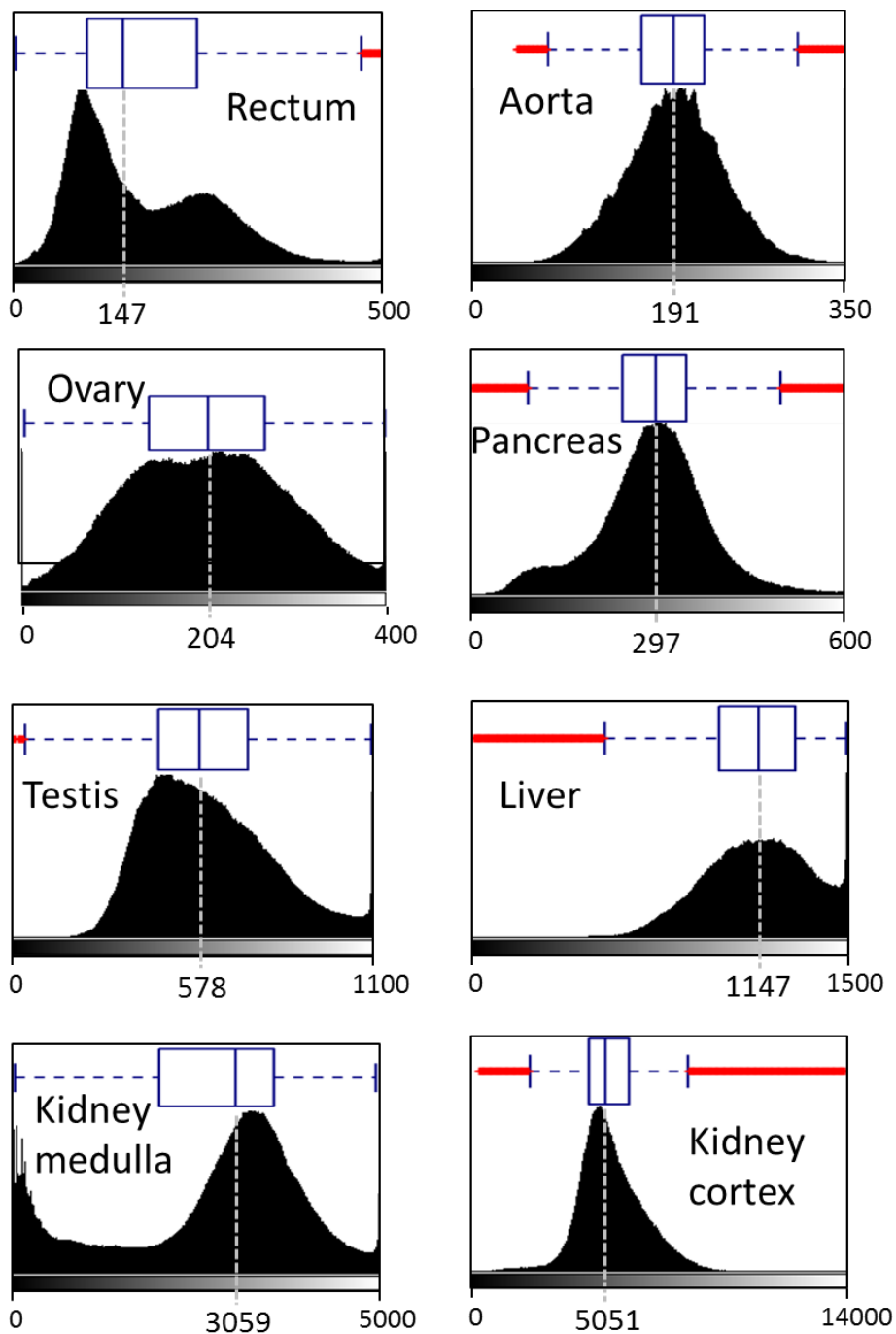
**Figure S1:** Determination of median cps calculated *via* box-plots of Cd distribution greyscale images.

**Table S1:** Instrumental setup and parameters for Cd quantification by ICP-MS.

Methods, results, and discussion of these data can be found in the manuscript.

## Figures

**Online supplemental Figure S1** – Determination of median cps calculated *via* box-plots of Cd distribution greyscale images.



**Figure S1:** Histograms visualizing the distribution of the recorded counts per seconds of  $^{114}\text{Cd}$  in LA-ICP-MS experiments of the respective tissue sections. A broad distribution confirms a heterogeneous tissue section. Box plots, as a measure to characterize the obtained distribution, are based on the median counts per second within the tissue section (dashed line). The boxes represent the first and third quartile of the distribution while the whiskers correspond to the 1.5-fold interquartile range. Red dots are considered as outliers. The median, obtained from histogram analysis was used to calculate the median cps value of the image.

## Tables

**Online supplemental Table S1** – Instrumental setup and parameters for Cd quantification by ICP-MS.

Autosampler	ASX-500, Agilent Technologies
Nebulizer	MicroMist
Spray Chamber	Scott spray chamber
Internal standard	Solution containing In (7 ng/g), added online <i>via</i> peristaltic pump prior to nebulization
Cones	Ni
RF-power	1500 W
Plasma	Ar
Plasma gas	15 L/min
Carrier gas	1.10 L/min
Registered isotopes	<sup>111</sup> Cd (analyte), <sup>115</sup> In (internal standard)
Registered at	Peak maximum
Dwell time	0.1 s
Replication rate and sweeps per mass	10
Software	MassHunter Version B01.03, 2013