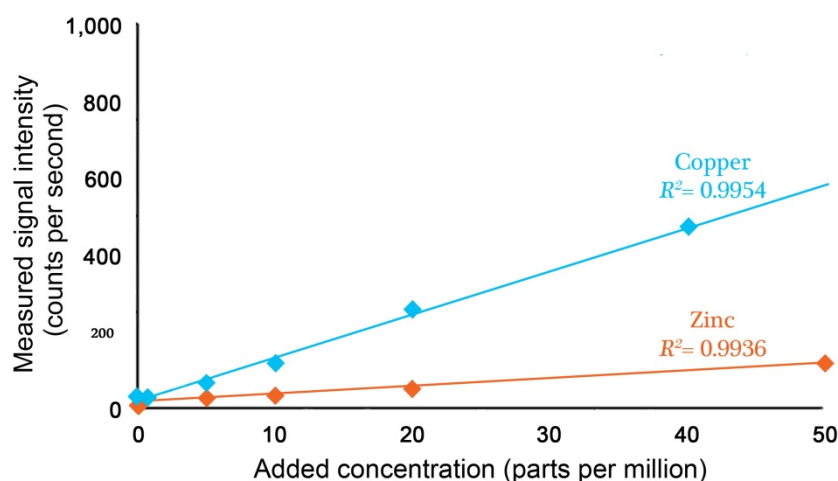


Metal concentrations and distributions in the human olfactory bulb in Parkinson's disease..

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Matrix-matched standards



Supplementary Figure 1: Graph showing the linear relationship between added metals and measured signal intensity from LA-ICP-MS.

```
R P:\LA-ICP-MS\Good heat map script purple red white.R - R Editor
Map <- read.csv("P:\LA-ICP-MS\2015.4.30 OFB 30.4.15\For Maps Smoothed\Mn 8.csv", sep=",")
Map_matrix <- data.matrix(Map)
Colorme <- colorRampPalette(c("black", "dark blue", "blue", "purple", "red", "orange", "yellow", "light yellow", "white"))(n = 1000)
Map_heatmap <- heatmap(Map_matrix, Rowv=NA, Colv=NA, col = Colorme, scale="none", margins=c(5,5))

Colorme <- colorRampPalette(c("black", "white"))(n = 10000)
Map_heatmap <- heatmap(Map_matrix, Rowv=NA, Colv=NA, col = Colorme, scale="none", margins=c(5,5))

R P:\LA-ICP-MS\Colour bar for good heat map purple red white.R - R Editor
color.bar <- function(lut, min, max=min, nticks=2, ticks=seq(min, max, len=nticks), title='') {
  scale = (length(lut)-1)/(max-min)
  dev.new(width=1.75, height=5)
  plot(c(0,10), c(min,max), type='n', bty='n', xaxt='n', xlab='', yaxt='n', ylab='', main=title)
  axis(2, ticks, las=1)
  for (i in 1:(length(lut)-1)) {
    y = (i-1)/scale + min
    rect(0,y,10,y+1/scale, col=lut[i], border=NA)
  }
}

Colorme <- colorRampPalette(c("white", "light yellow", "yellow", "orange", "red", "purple", "blue", "dark blue", "black"))(n = 1000)
lut = rev(Colorme)
color.bar(lut, 0, 45)
```

Supplementary Figure 2: R code used to create heat maps from LA-ICP-MS data