

Supplemental information - Blast2GO analysis

Methods

The fasta sequences of the proteins were downloaded from <http://www.ncbi.nlm.nih.gov> using the GI code.

Data analysis was performed with Blast2GO using standard parameters. To obtain the pie charts of biological process and molecular function distribution - under the different experimental conditions - the proteins were classified with GO terms and two different cut-off levels – 2, 3 were applied.

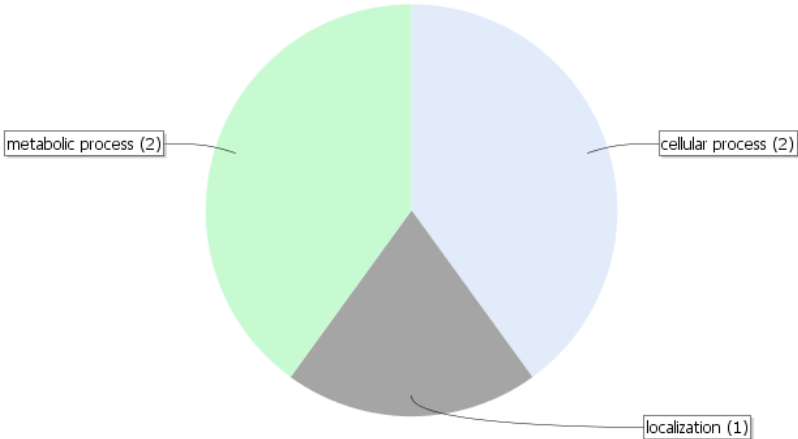
The data obtained with cut-off level = 3 are very poorly informative. We reported only the pie charts obtained with cut-off level 2.

All the proteins comigrating in a single spot were considered for the Blast2GO analysis.

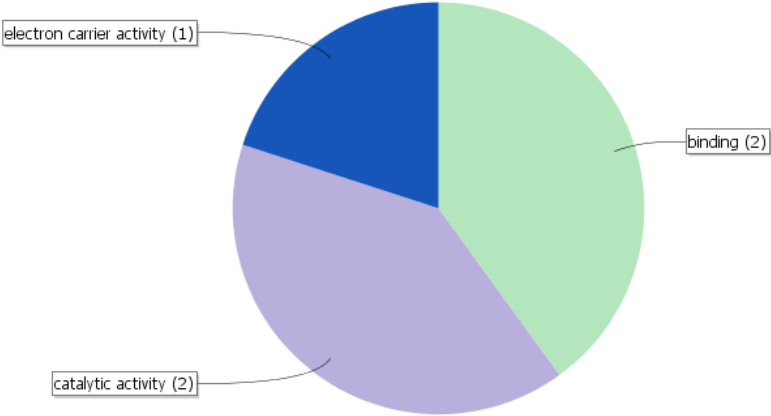
Results

Nickel EC25 – proteins up regulated – 2 proteins

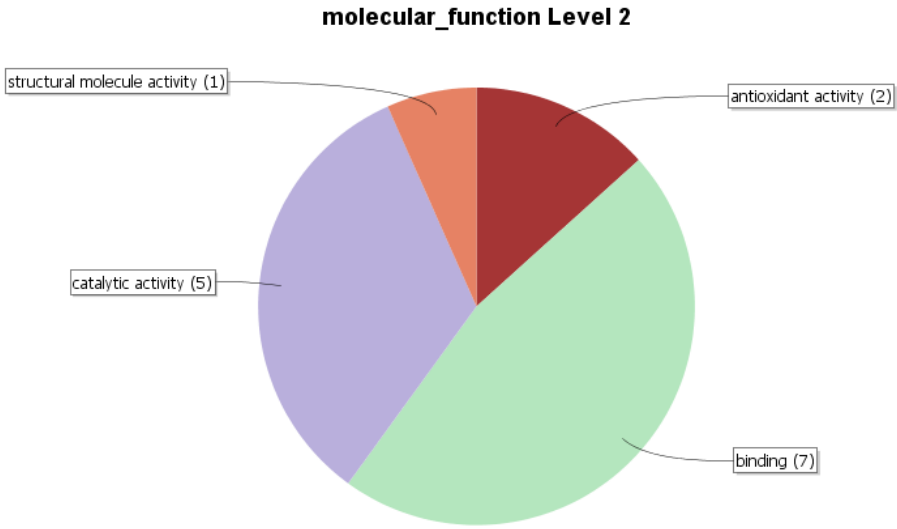
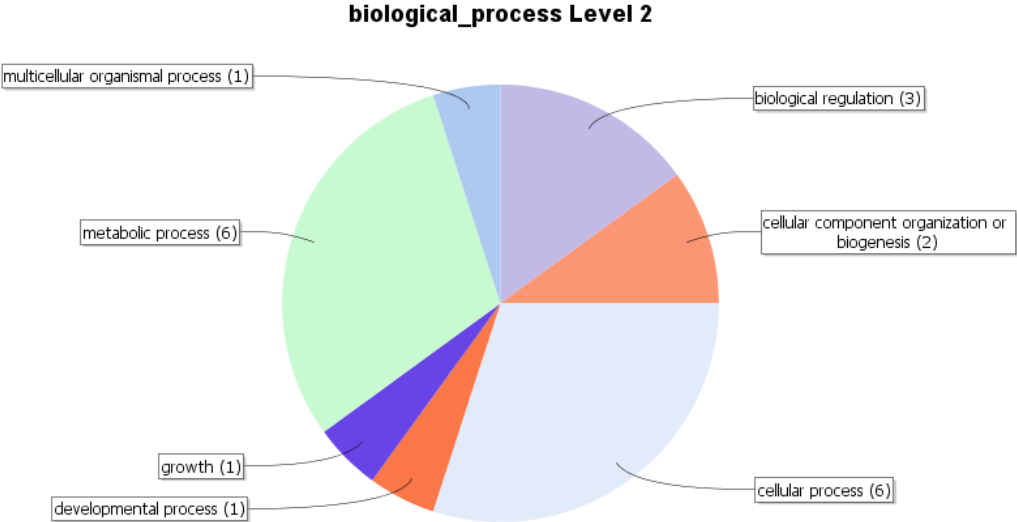
biological_process Level 2



molecular_function Level 2

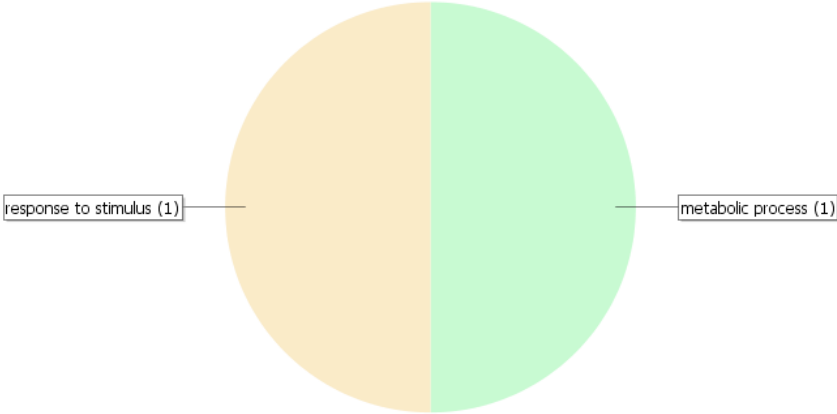


Nickel EC25 – proteins down regulated – 14 proteins

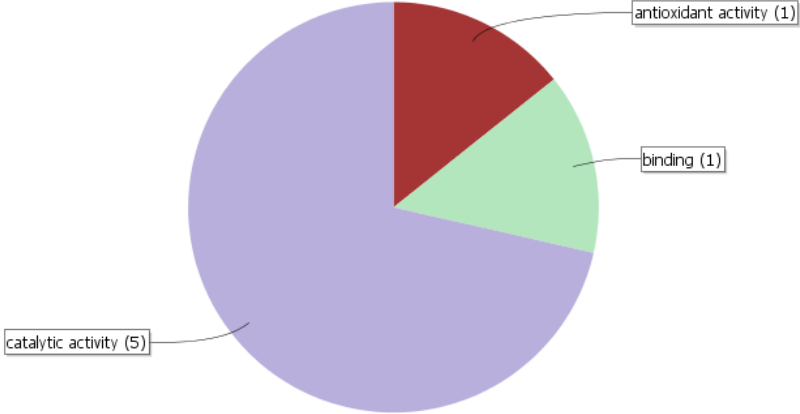


Nickel EC50 – proteins up regulated – 6 proteins

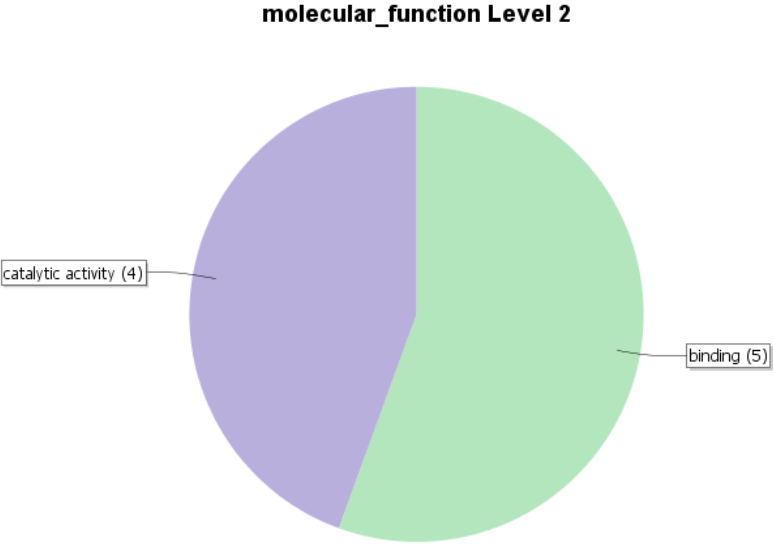
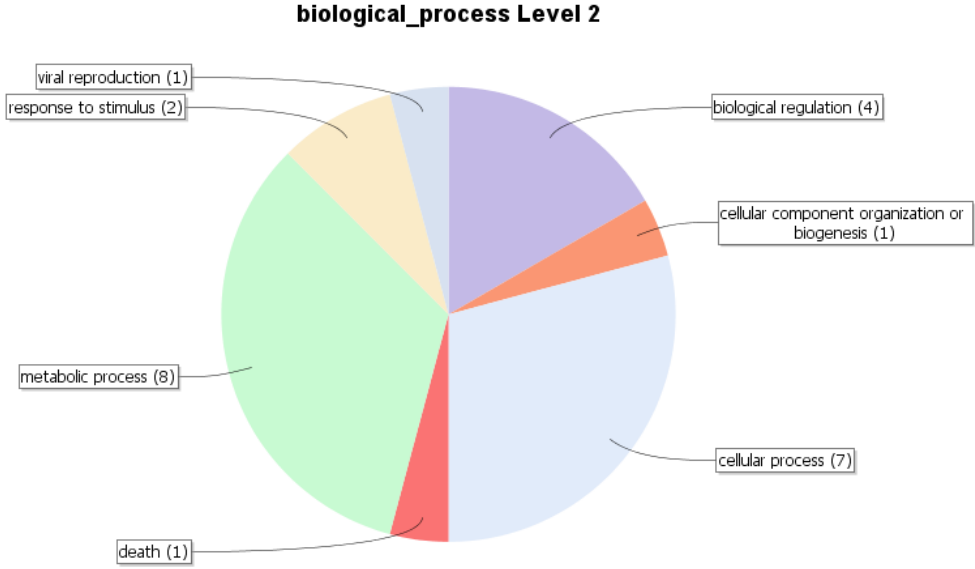
biological_process Level 2



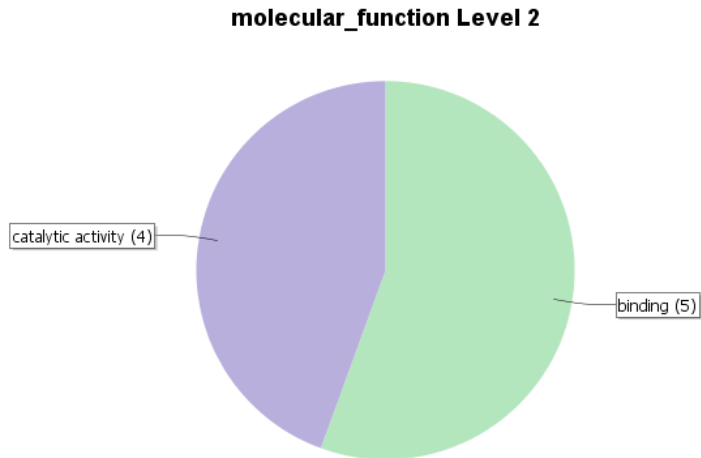
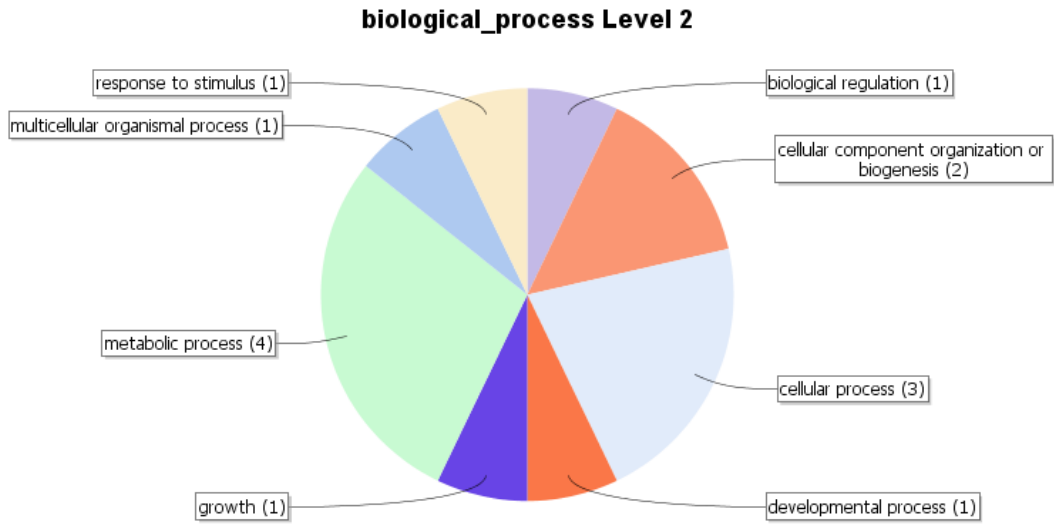
molecular_function Level 2



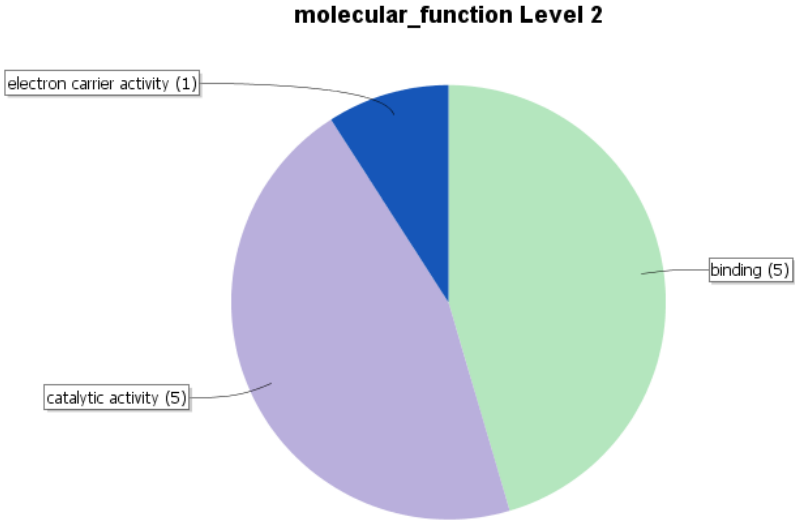
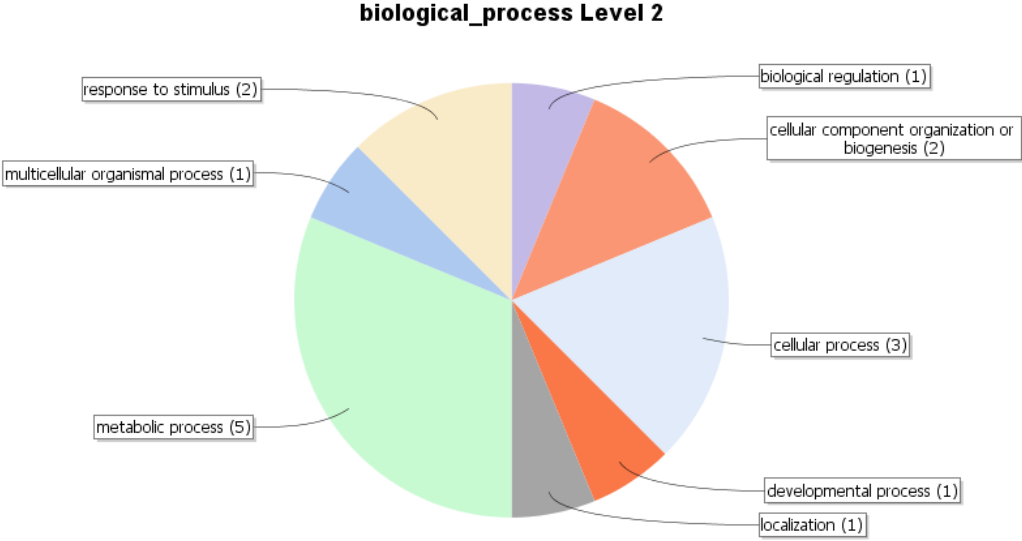
Nickel EC50 – proteins down regulated – 12 proteins



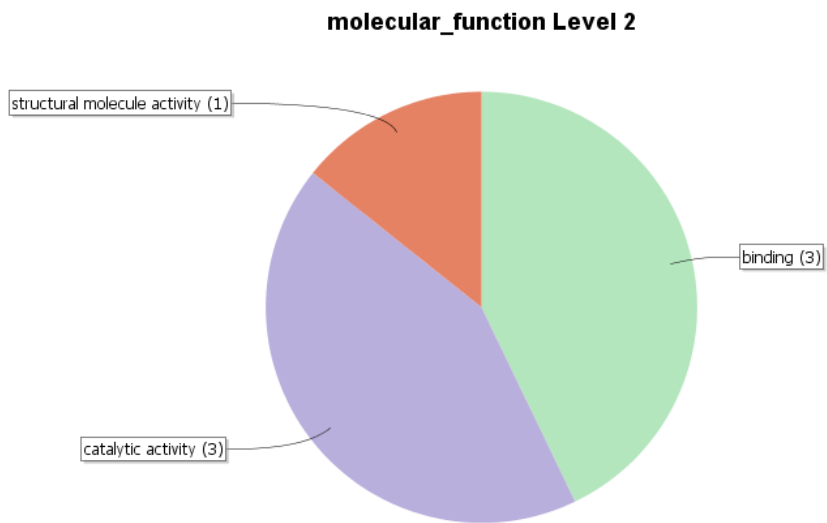
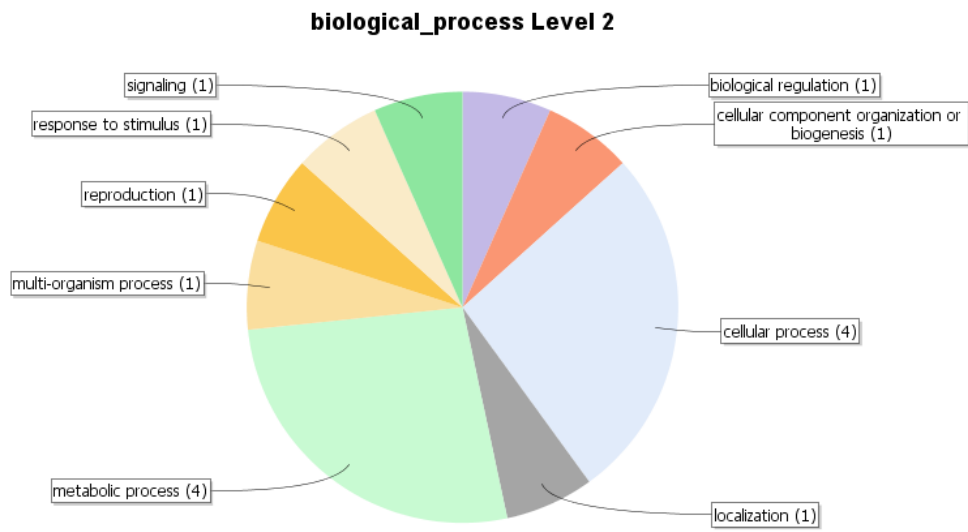
Chlorpyrifos EC25 – proteins down regulated – 6 proteins



Chlorpyrifos EC50 – proteins up regulated – 8 proteins

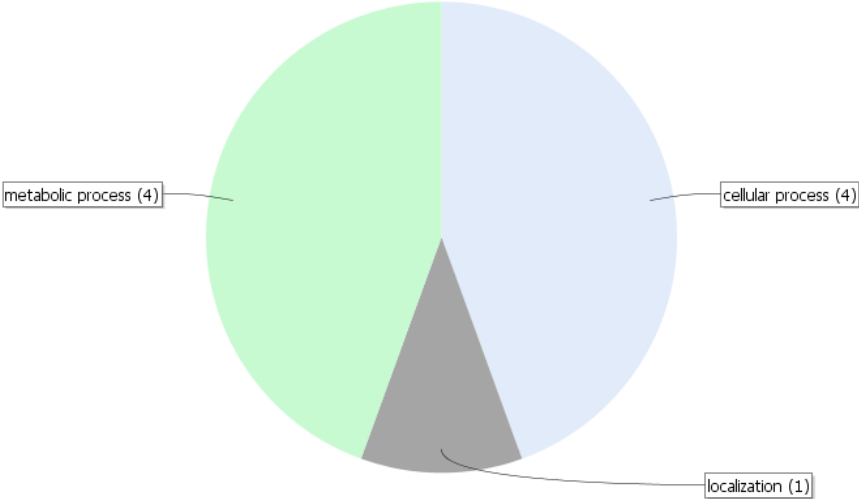


Chlorpyrifos EC50 – proteins down regulated – 5 proteins

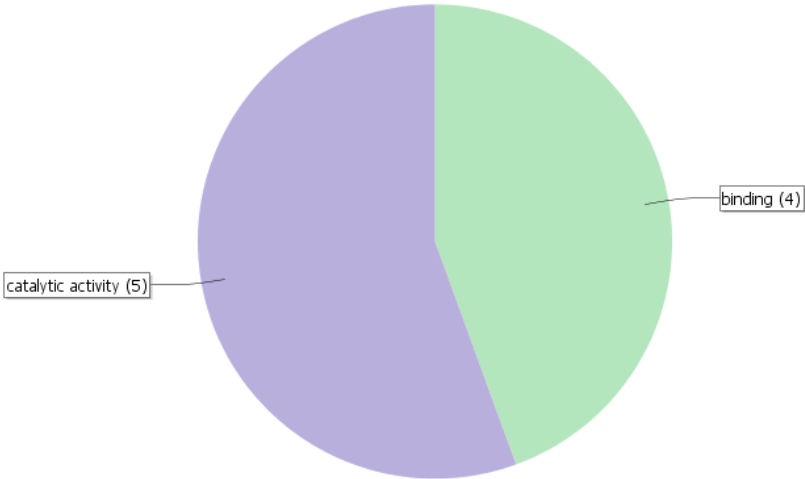


Mixture - proteins up regulated – 6 proteins

biological_process Level 2



molecular_function Level 2



Mixture - proteins down regulated – 12 proteins

