

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Metabolites associated with cancer cachexia.

File name: Supplementary Data 2

Description: Candidate metabolites and concentration.

File name: Supplementary Data 3

Description: Altered genes of cancer.

File name: Supplementary Data 4

Description: Metabolism related oncogenes.

File name: Supplementary Data 5

Description: Gender, age, stage, primary tumor, BMI, weight change in the last 6 months, idh1 R132H mutation and serum D2HG (ng/ml) of cancer and cancer patients.

File name: Supplementary Data 6

Description: IDH1 alteration frequency.

File name: Supplementary Data 7

Description: D2HG induced gene alteration.

File name: Supplementary Data 8

Description: D2HG induced metabolites alteration in two sets of the experiment, and the common altered metabolites.

File name: Supplementary Data 9

Description: D2HG induced gene alteration in two sets of the experiment, and the common altered genes.

File name: Supplementary Data 10

Description: Significantly altered genes and metabolites of D2hgdh.

File name: Supplementary Data 11

Description: Significantly altered genes and metabolites of D2hgdh+D2HG vs. D2hgdh.

File name: Supplementary Data 12

Description: Significantly altered genes and metabolites of D2hgdh + D2HG vs. D2HG.

File name: Supplementary Data 13

Description: Shared enriched and depleted genes of D2hgdh.

File name: Supplementary Data 14

Description: Shared enriched and depleted metabolites of D2hgdh.

File name: Supplementary Data 15

Description: Primers and oligos.

File name: Supplementary Data 16

Description: Metabolites and testing parameters.

File name: Supplementary Data 17

Description: All source data underlying the graphs and charts presented in the main figures.