



FIG. 1. Growth rate and amino acid pool labeling over time of *Arabidopsis* cell culture. A, cell culture growth rate in media with different sources of N. B, ^{15}N incorporation rate into different amino acids. The colors show amino acids in different synthesis pathway families. C, kinetics of incorporation as proportion of ^{15}N (H) compared with both ^{15}N and natural abundance (H + NA) into the amino acids with the fastest (Gln) and slowest (Cys) ^{15}N incorporation rates.