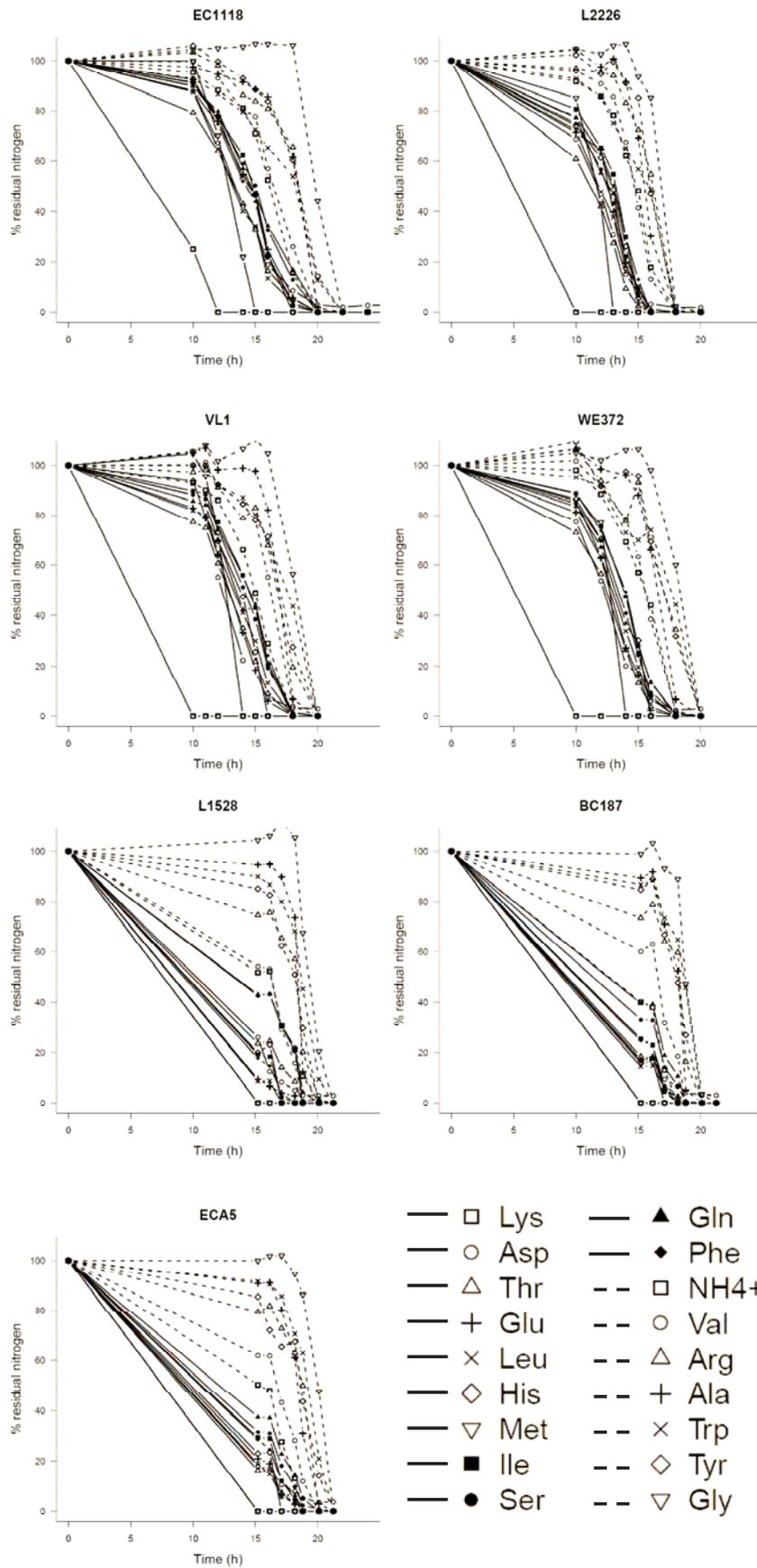
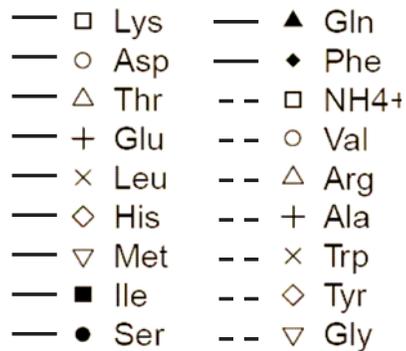
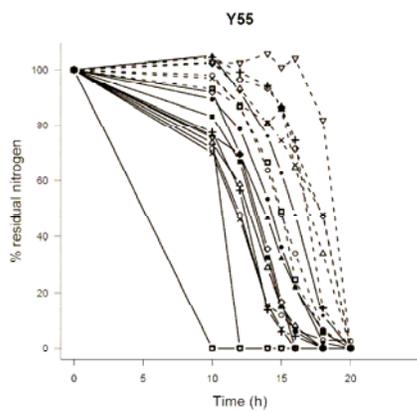
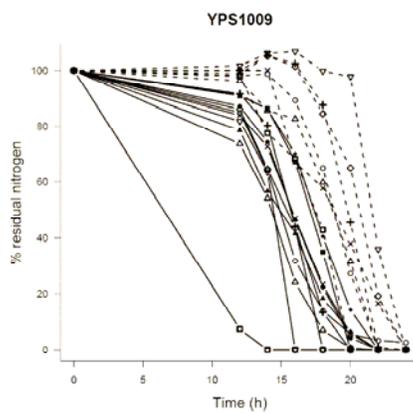
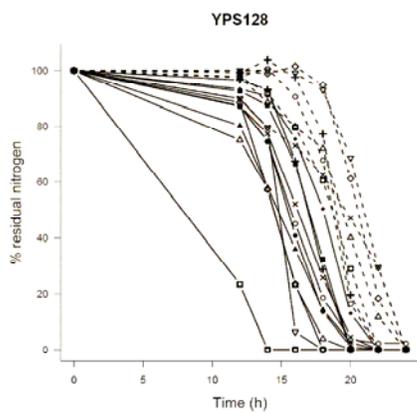
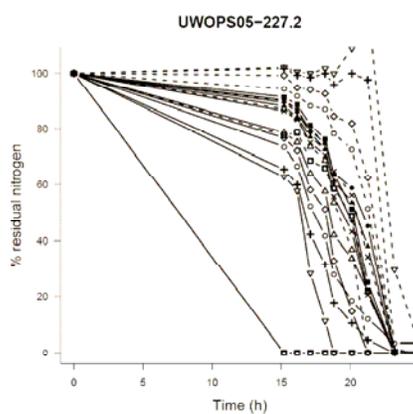
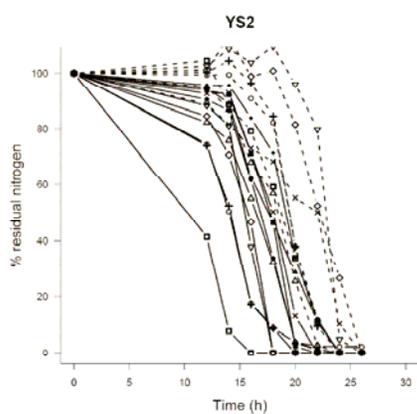
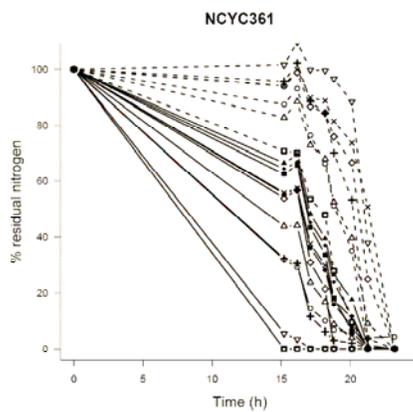
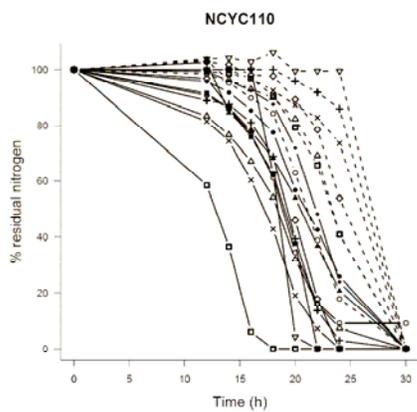


A





B

a

Strains	Rep	TLAG																	
		Lys	Asp	Thr	Glu	Leu	His	Met	Ile	Ser	Gln	Phe	NH4	Val	Arg	Ala	Trp	Tyr	Gly
BC187	1	Lys	Met	Asp	Leu	Glu	Thr	His	Phe	Ser	Ile	Gln	NH4	Val	Tyr	Arg	Trp	Ala	Gly
EC1118	1	Lys	Asp	Thr	Leu	Glu	Ser	Phe	His	Met	Val	Trp	Ile	NH4	Tyr	Ala	Arg	Gln	Gly
EC1118	2	Lys	Gln	Thr	Leu	Asp	Ser	Phe	Ile	Met	His	Glu	NH4	Val	Trp	Tyr	Arg	Ala	Gly
ECA5	1	Lys	Met	Asp	Thr	Leu	Glu	Ser	Phe	Gln	Ile	His	NH4	Val	Tyr	Arg	Trp	Ala	Gly
L1528	1	Lys	Met	Asp	Glu	Leu	Thr	Phe	Ile	His	Gln	Ser	NH4	Val	Tyr	Arg	Trp	Gly	Ala
L2226	1	Lys	Thr	Glu	Leu	His	Met	Ile	Phe	Asp	Ser	NH4	Gln	Val	Trp	Tyr	Ala	Arg	Gly
L2226	2	Lys	Thr	Asp	Leu	Ser	Gln	Glu	Met	Phe	Ile	His	NH4	Trp	Val	Arg	Ala	Tyr	Gly
NCYC110	1	Lys	Asp	Thr	Leu	Ser	His	Met	Glu	Val	Ile	Phe	Gln	NH4	Arg	Tyr	Trp	Ala	Gly
NCYC110	2	Lys	Gln	Leu	Thr	Trp	His	Ile	Asp	Met	Ser	NH4	Val	Phe	Glu	Arg	Tyr	Ala	Gly
NCYC361	1	Lys	Met	Asp	Glu	Thr	Leu	Ser	Gln	Phe	Ile	His	NH4	Arg	Val	Tyr	Ala	Trp	Gly
UWOPS05-227.2	1	Lys	Met	Glu	Asp	Thr	His	NH4	Gln	Phe	Ser	Trp	Ile	Arg	Val	Tyr	Ala	Gly	Gly
VL1	1	Lys	Met	Asp	Glu	Thr	Leu	Ser	Phe	His	Ile	NH4	Val	Gln	Trp	Arg	Tyr	Ala	Gly
VL1	2	Lys	Thr	Gln	Asp	Leu	Glu	Ser	Phe	Met	Ile	NH4	His	Arg	Trp	Val	Tyr	Ala	Gly
WE372	1	Lys	Met	Ile	Asp	Thr	Leu	Glu	Ser	His	Phe	NH4	Arg	Trp	Val	Gln	Tyr	Ala	Gly
WE372	2	Lys	Met	Thr	Gln	Asp	Leu	Glu	Ser	Phe	Ile	NH4	Val	His	Arg	Trp	Tyr	Ala	Gly
Y55	1	Lys	Met	Asp	Leu	Glu	Thr	Ile	His	Ser	Val	NH4	Phe	Gln	Trp	Arg	Ala	Arg	Gly
Y55	2	Lys	Asp	Leu	Thr	Gln	Glu	Ile	Met	Ser	His	Val	Phe	NH4	Arg	Tyr	Trp	Ala	Gly
YPS1009	1	Lys	Thr	Asp	Leu	Trp	Ser	Glu	Met	Phe	Ile	His	Arg	NH4	Val	Tyr	Gln	Ala	Gly
YPS1009	2	Lys	Gln	Trp	Thr	Leu	Asp	Ser	Met	Phe	Glu	NH4	His	Ile	Arg	Val	Tyr	Ala	Gly
YPS128	1	Lys	Thr	Asp	Leu	Ser	Glu	His	Met	Phe	Ile	Gln	NH4	Trp	Arg	Val	Ala	Tyr	Gly
YPS128	2	Lys	His	Met	Trp	Gln	Thr	Leu	Asp	Ser	Ile	Arg	NH4	Phe	Glu	Ala	Tyr	Gly	Val
YS2	1	Lys	Asp	Glu	Thr	Met	His	Arg	NH4	Ser	Phe	Leu	Val	Ala	Ile	Tyr	Gln	Trp	Gly
YS2	2	Lys	Trp	Asp	Glu	Gln	Thr	Met	Arg	NH4	Ser	His	Leu	Phe	Ile	Val	Tyr	Ala	Gly

b

Strains	Rep	T50N																	
		Lys	Asp	Thr	Glu	Leu	His	Met	Ile	Ser	Gln	Phe	NH4	Val	Arg	Ala	Trp	Tyr	Gly
BC187	1	Lys	Asp	Leu	Thr	His	Met	Glu	Phe	Ile	Ser	Gln	NH4	Val	Tyr	Arg	Ala	Trp	Gly
EC1118	1	Lys	Leu	Asp	Thr	Met	Glu	Phe	Ile	His	Ser	Gln	NH4	Val	Trp	Tyr	Ala	Arg	Gly
EC1118	2	Lys	Met	Leu	Thr	Asp	Phe	His	Ile	Gln	Glu	Ser	NH4	Val	Arg	Ala	Tyr	Trp	Gly
ECA5	1	Lys	Asp	Thr	Leu	Met	Glu	Phe	His	Ile	Ser	Gln	NH4	Val	Ala	Tyr	Arg	Trp	Gly
L1528	1	Lys	Phe	Thr	Ile	Met	His	Glu	Asp	Leu	Ser	Gln	NH4	Val	Tyr	Arg	Ala	Trp	Gly
L2226	1	Lys	Thr	Met	Asp	Glu	Leu	Ser	His	Phe	Ile	Gln	Val	NH4	Tyr	Ala	Trp	Arg	Gly
L2226	2	Lys	Thr	Asp	Met	Leu	Ser	Gln	Glu	His	Phe	Ile	Val	NH4	Trp	Ala	Tyr	Arg	Gly
NCYC110	1	Lys	Met	Leu	Thr	Asp	Ile	Glu	His	Gln	Ser	Val	Phe	NH4	Arg	Tyr	Trp	Ala	Gly
NCYC110	2	Lys	Leu	Met	His	Ile	Asp	Gln	Thr	Glu	Ser	Val	Phe	Arg	NH4	Trp	Tyr	Ala	Gly
NCYC361	1	Lys	Asp	Glu	Met	Thr	His	Ser	Leu	Ile	Phe	Gln	NH4	Val	Arg	Ala	Tyr	Gly	Trp
UWOPS05-227.2	1	Lys	Met	Glu	Asp	His	Thr	Arg	Leu	NH4	Phe	Ile	Gln	Trp	Ser	Val	Tyr	Ala	Gly
VL1	1	Lys	Asp	Glu	Thr	Leu	His	Ser	Met	Phe	Ile	Gln	NH4	Val	Tyr	Ala	Trp	Arg	Gly
VL1	2	Lys	Asp	Met	Thr	Glu	Leu	His	Gln	Ser	Ile	Phe	NH4	Val	Arg	Ala	Tyr	Trp	Gly
WE372	1	Lys	Asp	Glu	Thr	Leu	Ser	His	Phe	Gln	Ile	Val	NH4	Ala	Tyr	Arg	Trp	Gly	Met
WE372	2	Lys	Asp	Thr	His	Glu	Leu	Gln	Ser	Ile	Phe	NH4	Val	Ala	Arg	Tyr	Trp	Gly	Met
Y55	1	Lys	Asp	Leu	Glu	Thr	Ile	His	Gln	Ser	Val	NH4	Phe	Ala	Arg	Tyr	Trp	Gly	Met
Y55	2	Lys	Met	Leu	Asp	Glu	Thr	Ile	His	Gln	Ser	NH4	Val	Phe	Ala	Arg	Gly	Tyr	Trp
YPS1009	1	Lys	Thr	Met	Glu	Asp	His	Leu	Ser	Gln	Ile	Phe	NH4	Val	Arg	Trp	Ala	Tyr	Gly
YPS1009	2	Lys	Thr	Met	Asp	Gln	His	Glu	Leu	Ser	Ile	NH4	Phe	Trp	Arg	Val	Ala	Tyr	Gly
YPS128	1	Lys	Thr	Met	Asp	Ser	Gln	His	Leu	Glu	Ile	Phe	NH4	Val	Trp	Ala	Arg	Tyr	Gly
YPS128	2	Lys	Thr	His	Gln	Met	Ser	Asp	Leu	Glu	Ile	Phe	NH4	Val	Ala	Arg	Trp	Tyr	Gly
YS2	1	Lys	Glu	Asp	Met	His	Thr	Ser	Ile	Leu	Gln	Arg	Phe	NH4	Ala	Val	Tyr	Trp	Gly
YS2	2	Lys	Asp	Glu	Met	His	Thr	Ser	Ile	Gln	Leu	Arg	NH4	Phe	Ala	Val	Trp	Tyr	Gly

Supplemental material S1: Consumption of ammonium and amino acids by 14 *S. cerevisiae* strains during fermentation in SM200.

A. Consumption profiles. Residual concentrations of (□) Lys, (○) Asp, (Δ) Thr, (+) Glu, (x) Leu, (□)His, (Ñ) Met, (□) Ilen (●)Ser, (▲) Gln, (□) Phe, solid lines, and (□)NH₄ +, (○)Val, (Δ) Arg, (+)Ala, (x) Trp, (□) Tyr and (Ñ) Gly, dashed lines. Residual concentrations are expressed as percentages of the initial concentration. One representative experiment of two is shown.

B. Classification of nitrogen sources (indicated by a colored box) according to (a) TLAG and (b) T50N. The number of replicates (Rep) is indicated.