***C. glabrata* strain (genetic background),**	**Reference condition**	**Iron condition (reference condition +)**	**Temperature**	**Reference**
Parental BG2 **Deleted strain** BG2*Δhog1*	YNB + 2% dextrose	– **Iron enriched** 500 µM ferric chloride (Fe3+) – **Iron depleted:** 50 µM BPS Analysis at 2h for parental and *Δhog1 versus* parental	**30°C**	**Srivastava et al.** FEBS Journal 2015
Parental **2001HTU**= ATCC 2001 his5Δ /trp1Δ /ura3Δ **Deleted strain** HTU*Δyap5*	YPD	– **Iron enriched:** 5 mM iron sulfate (Fe2+) – **Iron depleted:** 0.5mM BPS Analysis at 0h, 0.5h, 1h, 1.5h, 2h	**30°C**	**Merhej J. et al.** Front in Microbiol 2016
Parental **KUE200** = ATCC2001 *trp1Δ his3Δ* ::ScURA3 *ura3Δ* FRT-YKU80	SD	– **Iron depleted:** 100 µM ferrozine – Iron replete: SD Analysis at 4h	NS	**Nagi M. et al.** Autophagy 2016 ***Suppl Data : only genes with increased expression*** ***Other results available via Devaux and Thiébault*** *Microbiology 2019*
Parental **HTL** = ATCC 2001 his3Δ/trp1Δ/leu2Δ **Deleted strain** HTL *aft1Δ*	SD citrate buffered (ph 5.8)	– **Iron depleted:** + 5 µM ferric chloride **(Fe3+)** Analysis at 0 h, 0.5 h, 1 h, 2 h, and 4 h. – **Iron replete**: + 5 µM FeCl3+100 µM ferric chloride (Fe3+) Analysis at 0.5 h, *aft1Δ vs* WT	37°C	**Gerwien F. et al.** MBio 2016
Parental strain HTL **Deleted strain** HLT *hap5Δ*	CMS YPD	– **Iron enriched**: 2 mM iron sulfate (Fe2+) in CMS – **Iron depleted: 0.5mM BPS** in YPD Analysis at 30 min, *hap5Δ* vs WT**,** analysis	30°C	**Thiebaut A. et al.** Nat Scient reports 2017
Parental strains CBS 138=ATCC2001 and HTL **Deleted strain** HTL *aft2 Δ*	YPD	– **Iron enriched: 5 mM iron sulfate (Fe2+)** – **Iron depleted: 0.5mM BPS** Analysis at 20 and 40 min for the WT strain at 30 min for *aft2 Δ versus* WT	30°C	**Benchouaia M. et al.** Front in Microbiol 2018
ATCC 2001	YPD	– **Iron enriched: 0,5 mM iron sulfate (Fe2+)** – **Iron depleted: 0.5mM BPS** Analysis at 4h	30°C and 37°C	**Our data**

Supplementary Data S5: *In vitro* models with transcriptomic analysis to study the impact of iron availability on *C. glabrata*, deficient or overload conditions at different temperatures.

WT, wild type, HLT, auxotrophy for histidine, leucine, and tryptophan; SD (1.7 g/L yeast nitrogen base, 0.75 g/L complete supplement mixture, 5 g/L ammonium sulfate and 2% dextrose); YNB, yeast nitrogen base YPD (1% yeast extract, 2% peptone and 2% dextrose); CSM (2% glucose, 0.67% Yeast Nitrogen base, 0.08% Complete Synthetic Media (MP Bio)) BPS bathophenanthroline disulfonate; NS, not specified;