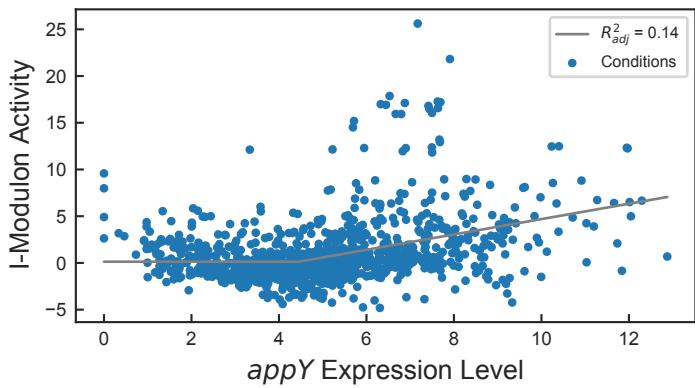
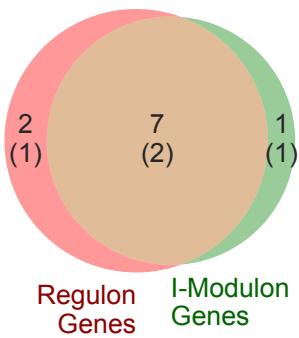
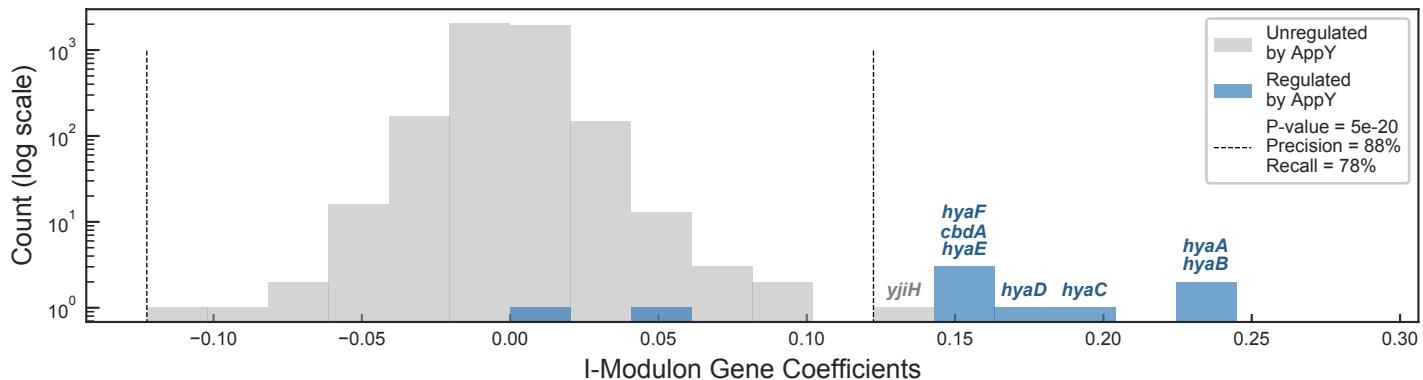
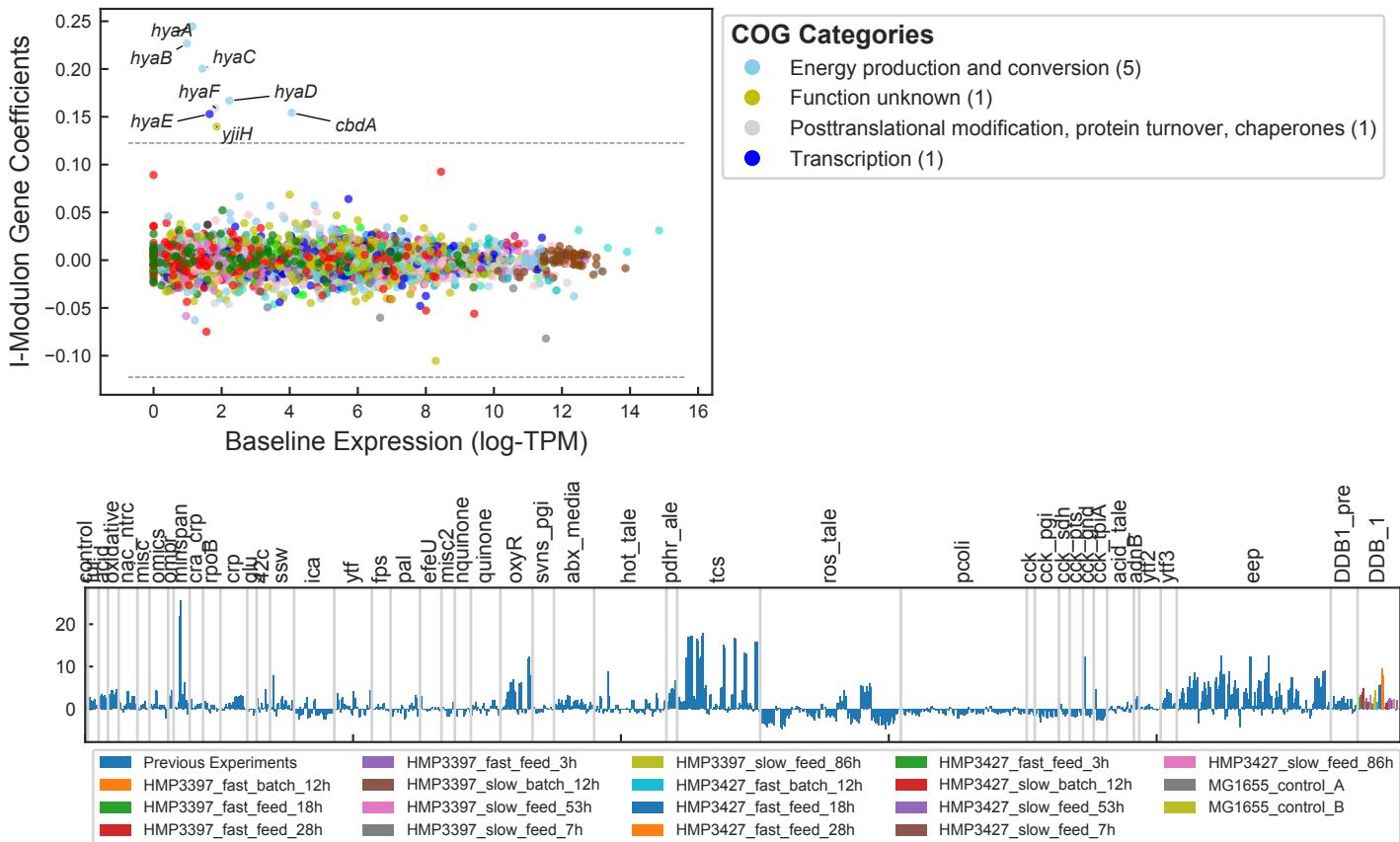


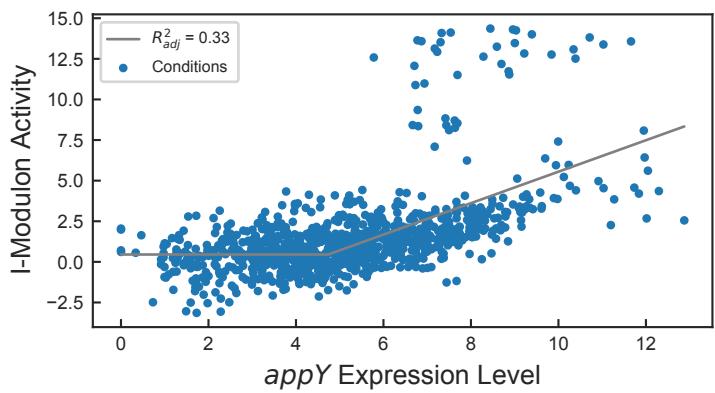
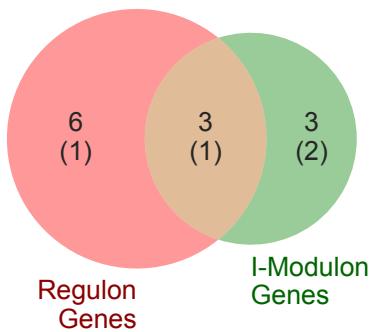
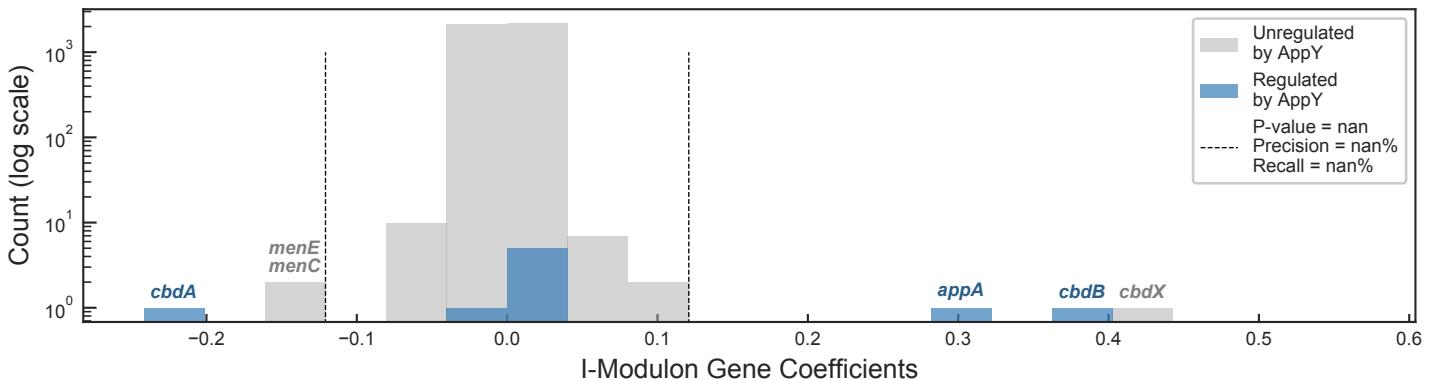
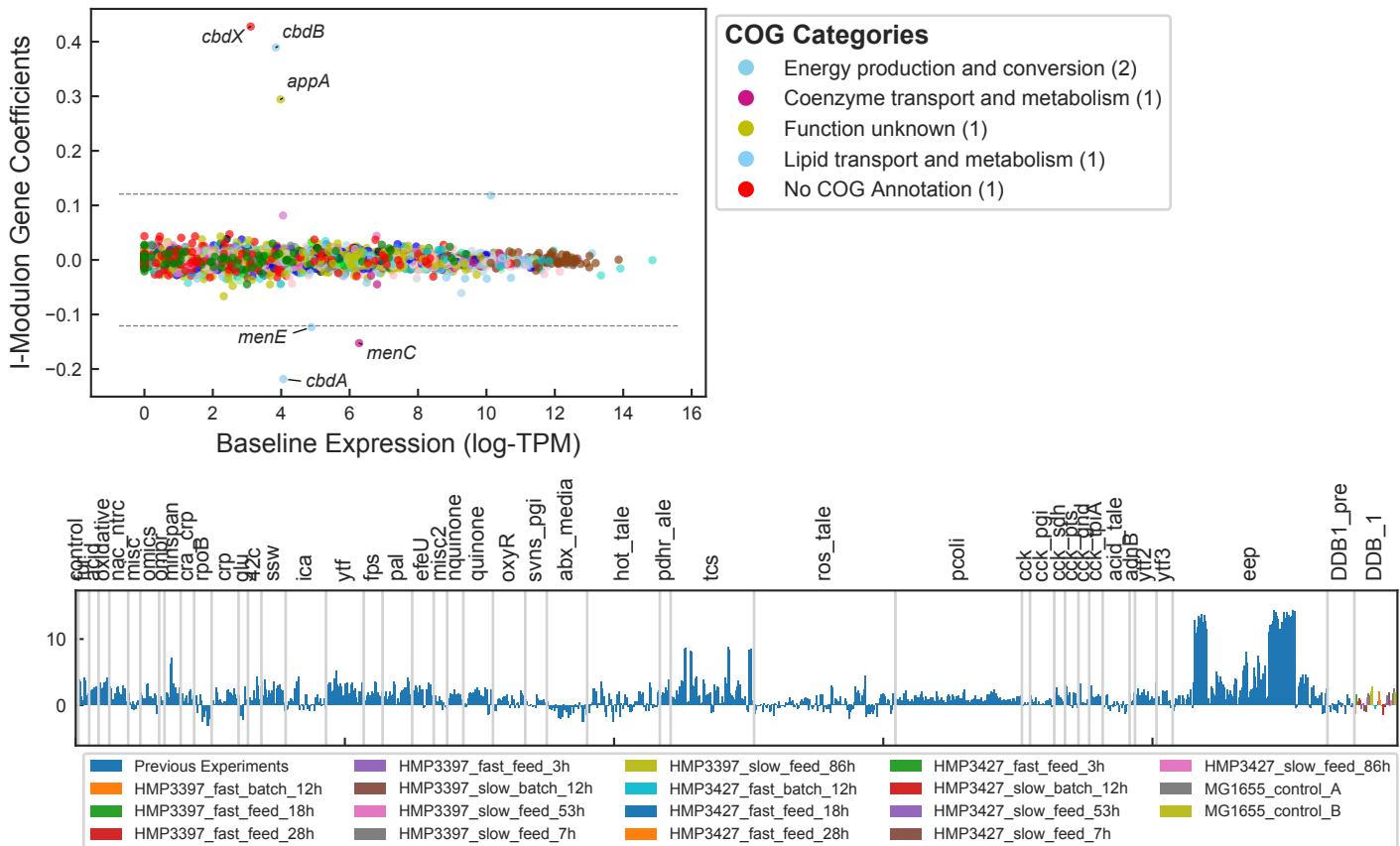
AppY – 1 I-Modulon

Regulated by: appY



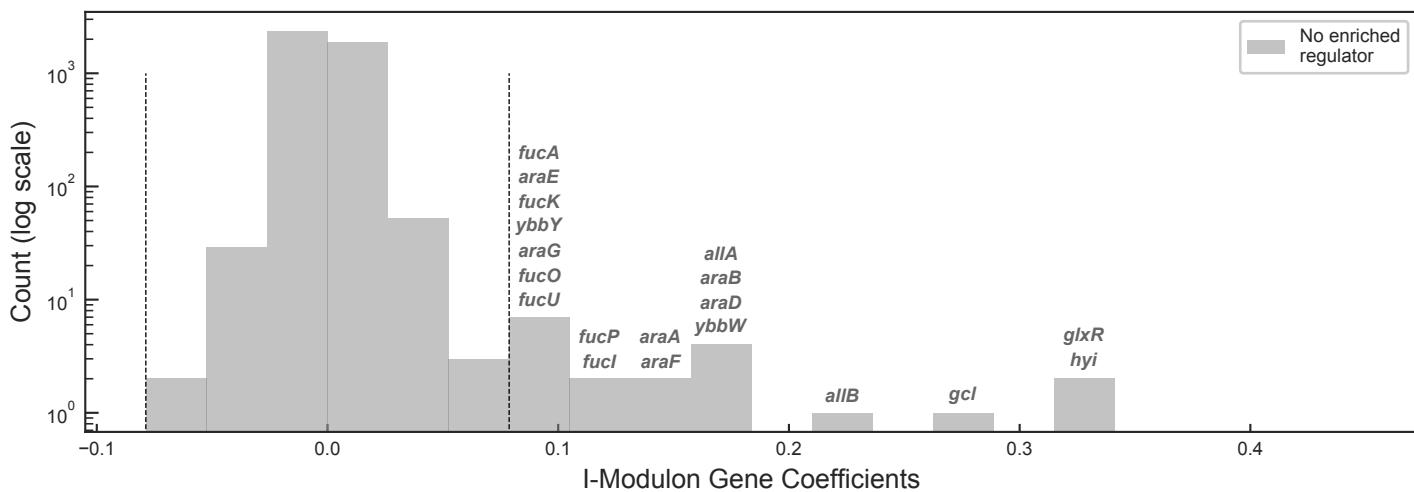
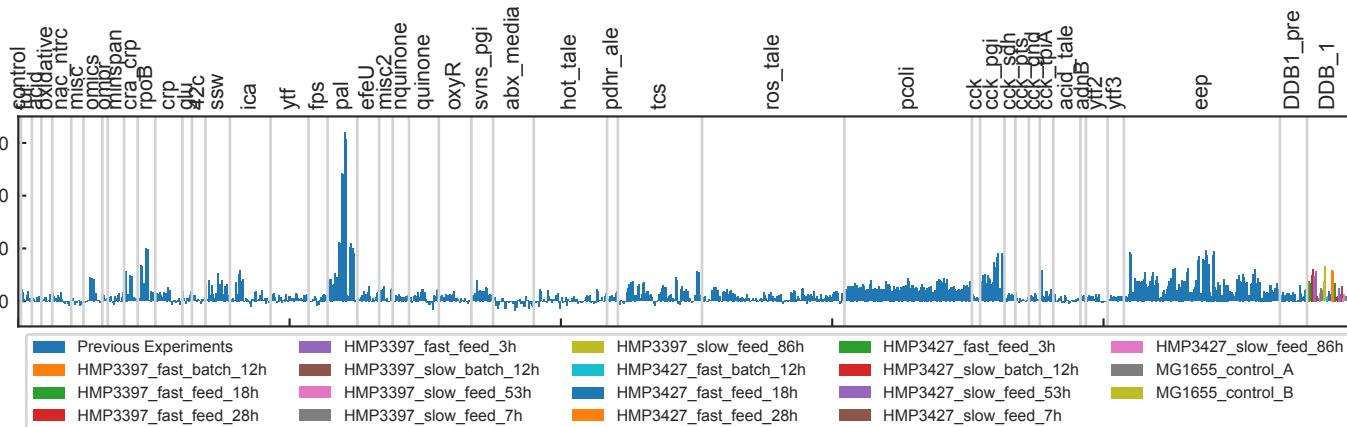
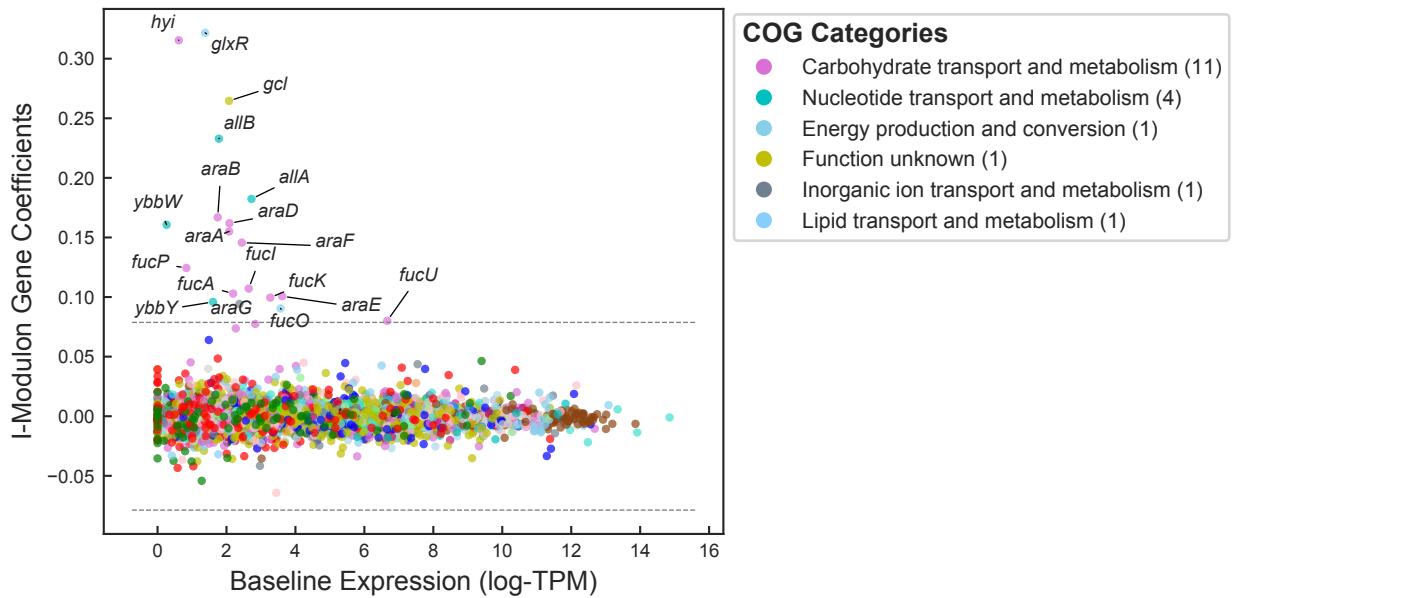
AppY – 2 I-Modulon

Regulated by: appY



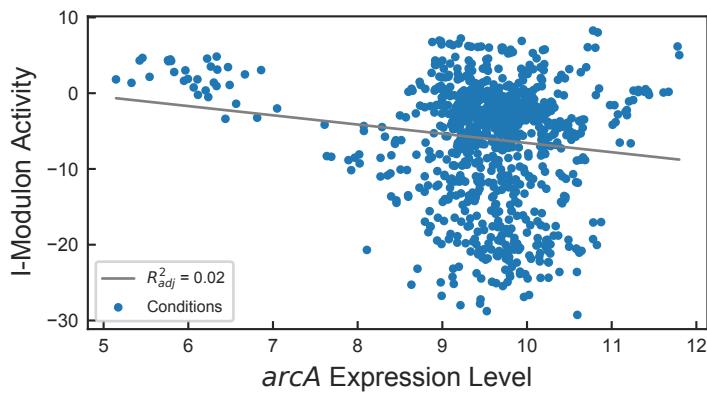
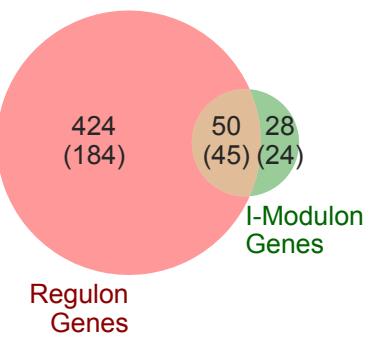
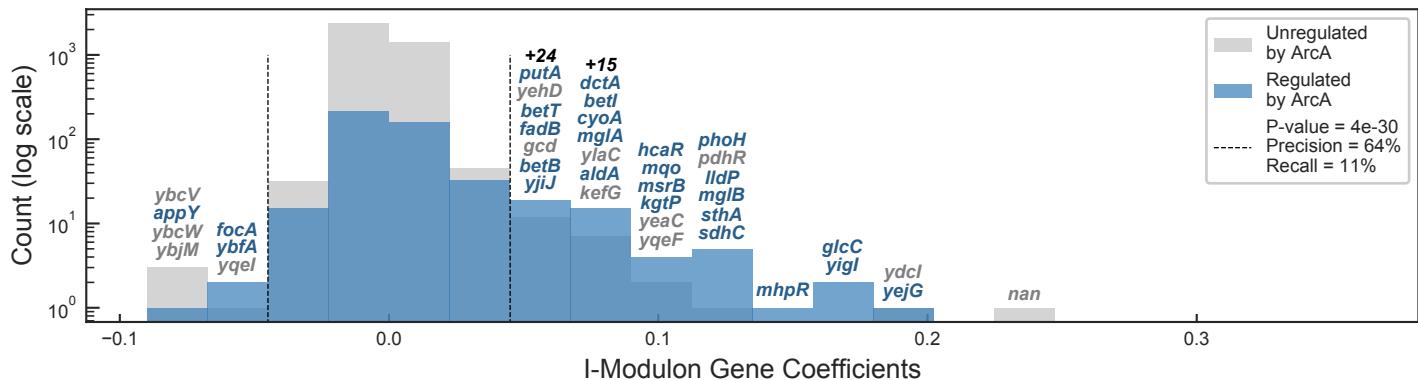
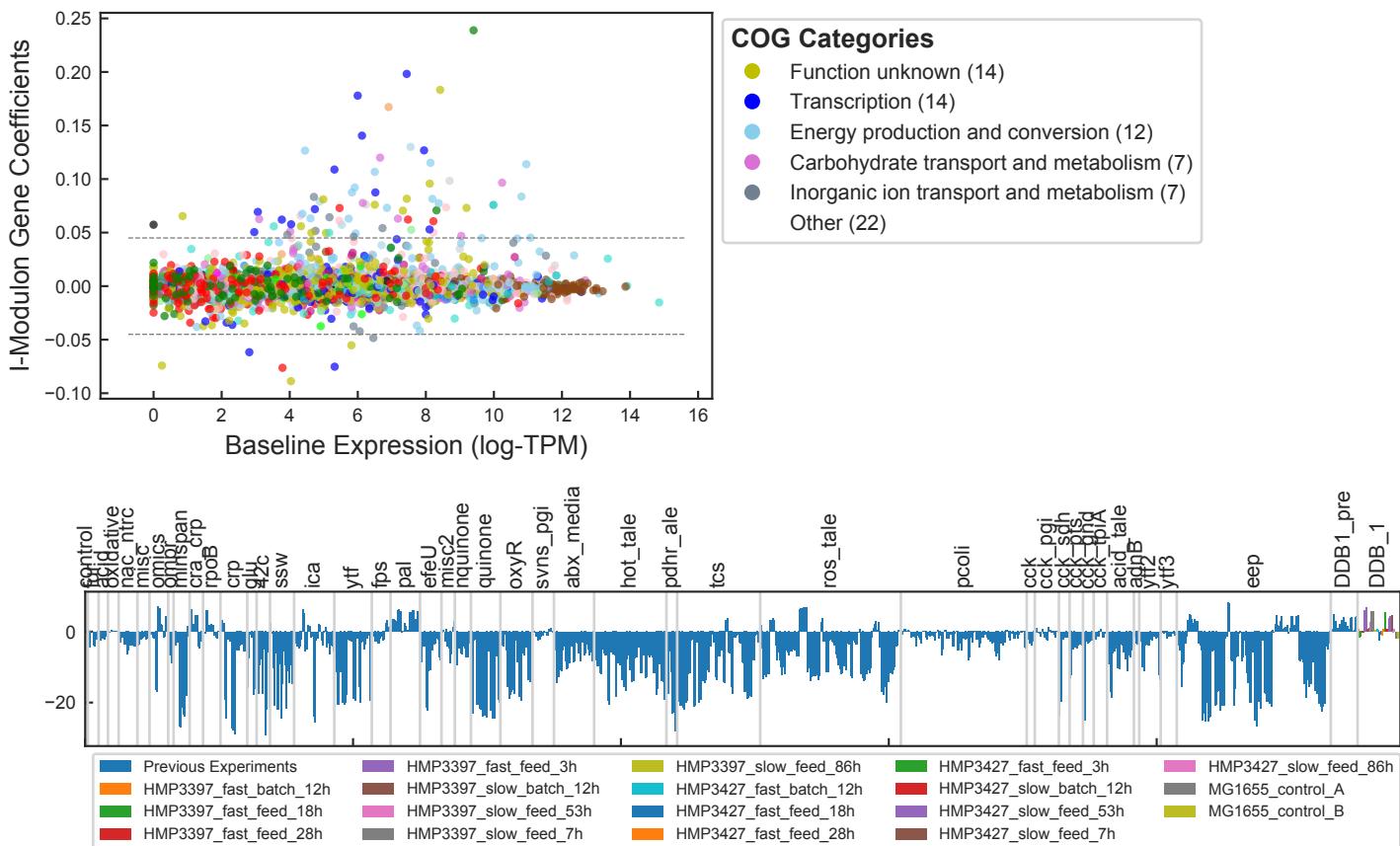
AraC/AIIR/FucR I-Modulon

Regulated by: *aiiR/fucR/araC*



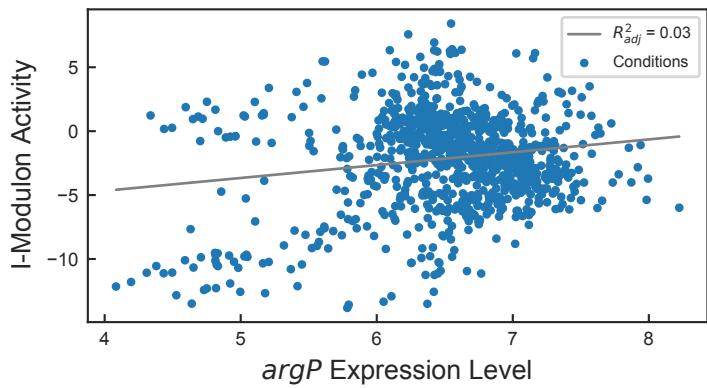
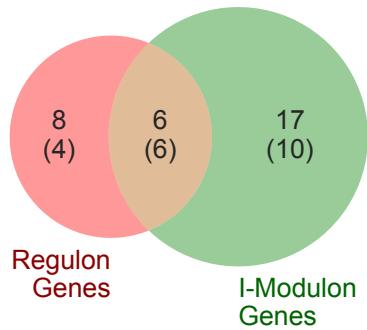
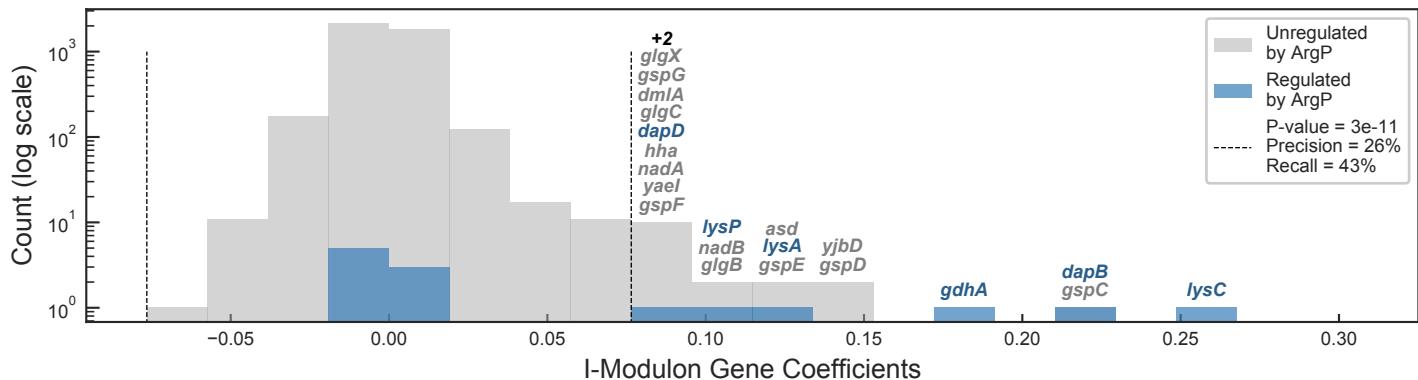
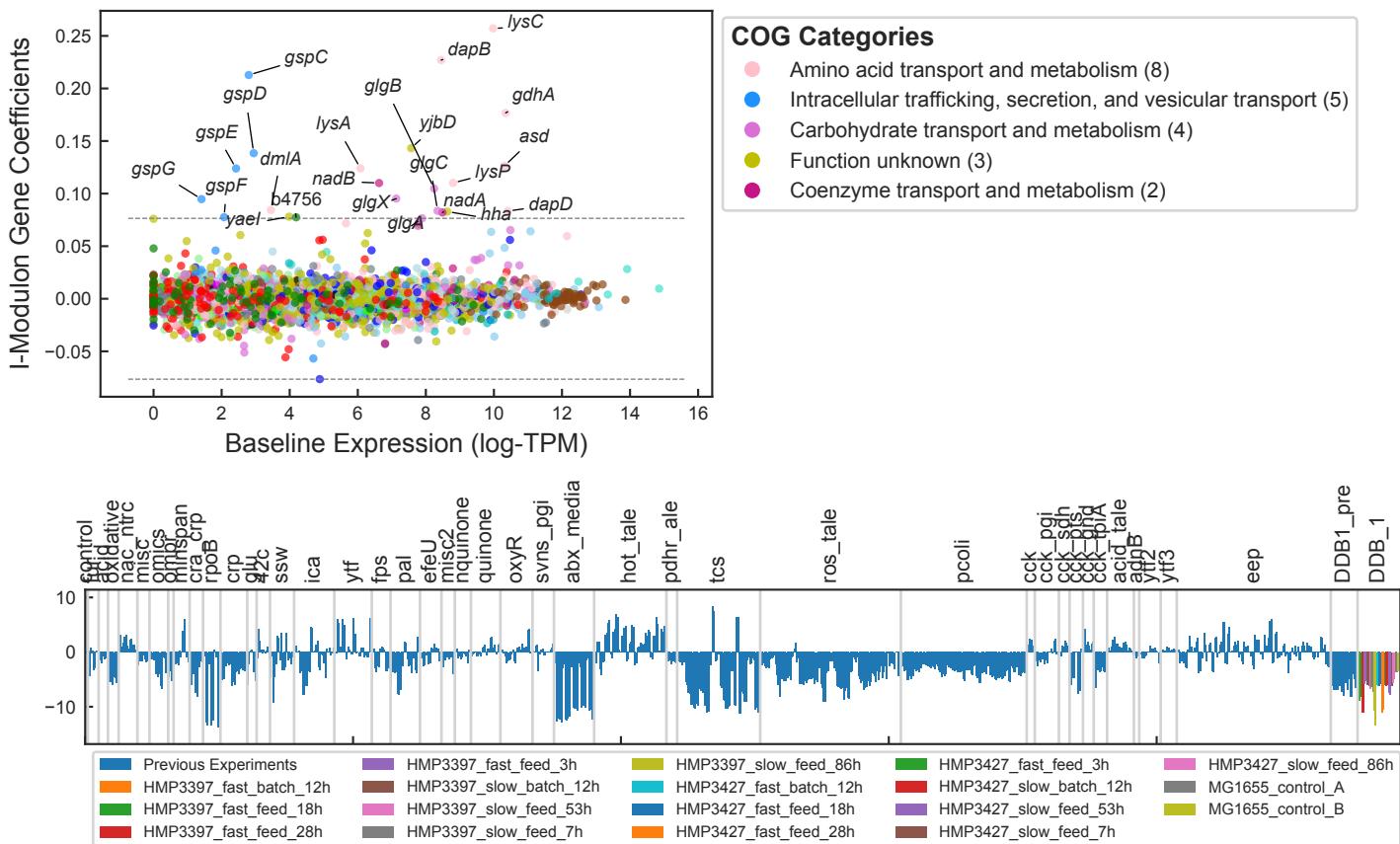
ArcA – 1 I-Modulon

Regulated by: arcA



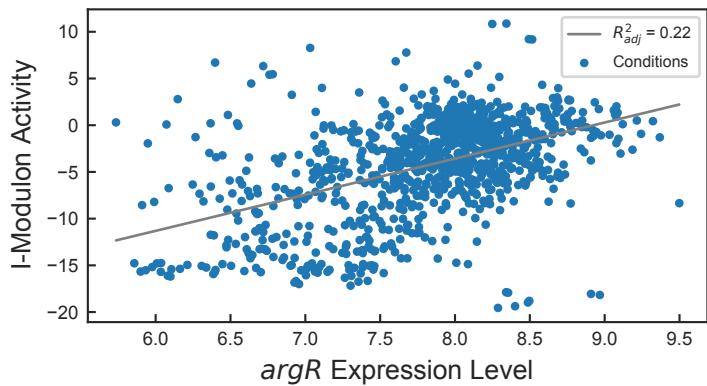
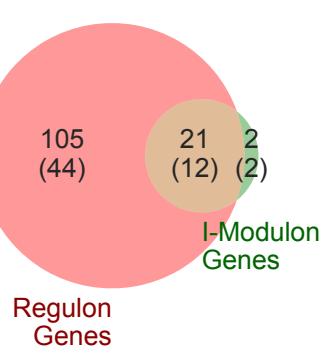
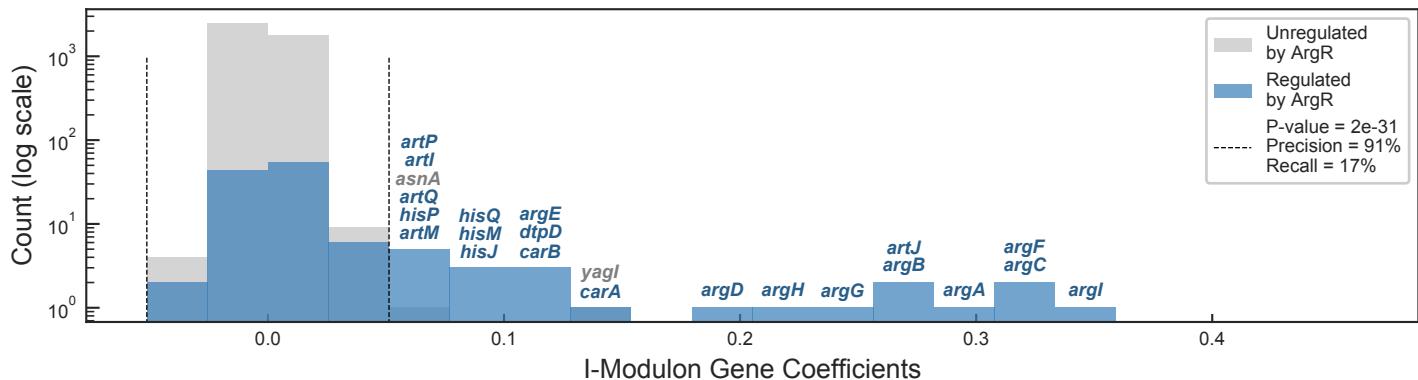
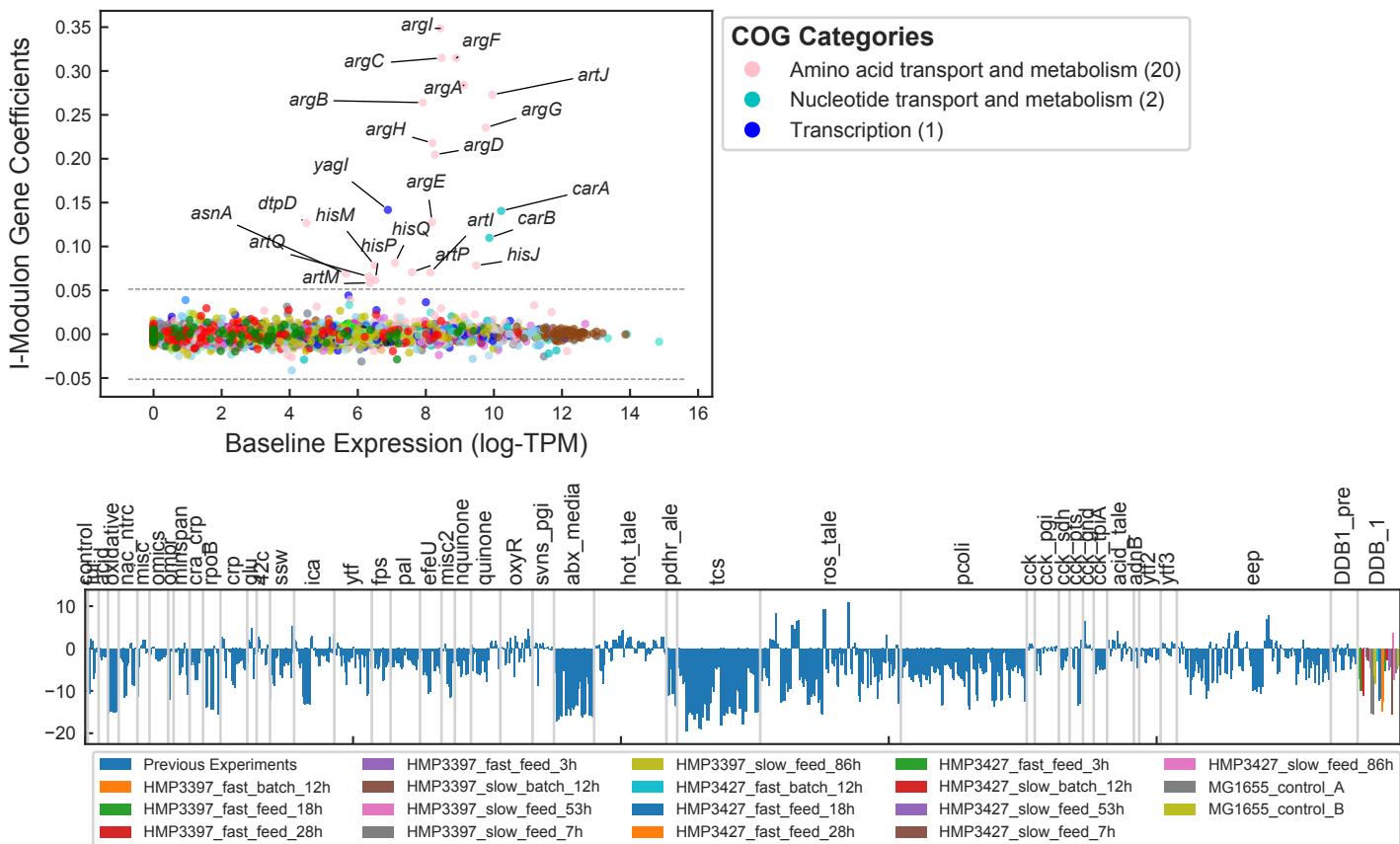
ArgP I-Modulon

Regulated by: argP



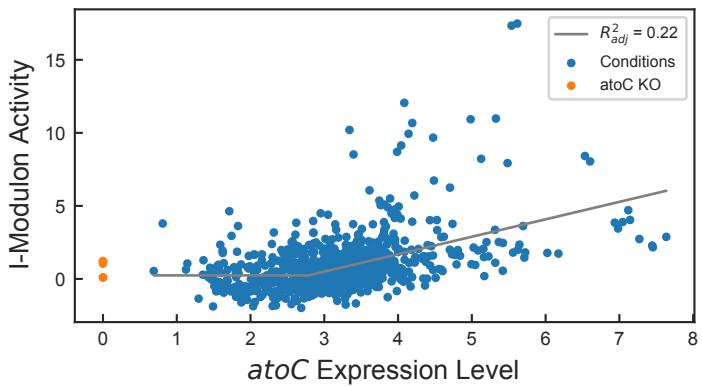
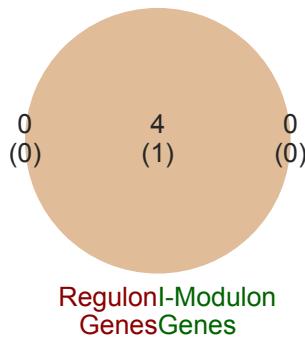
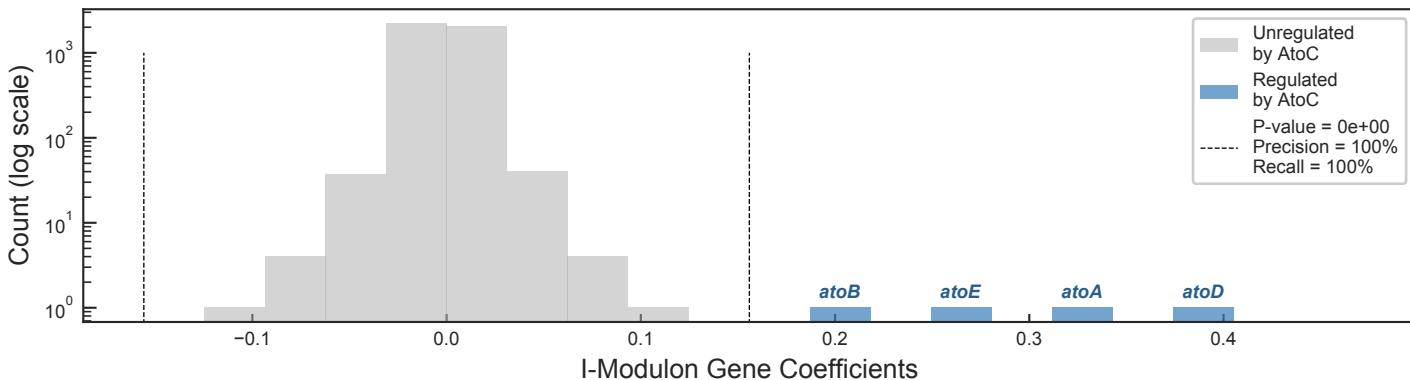
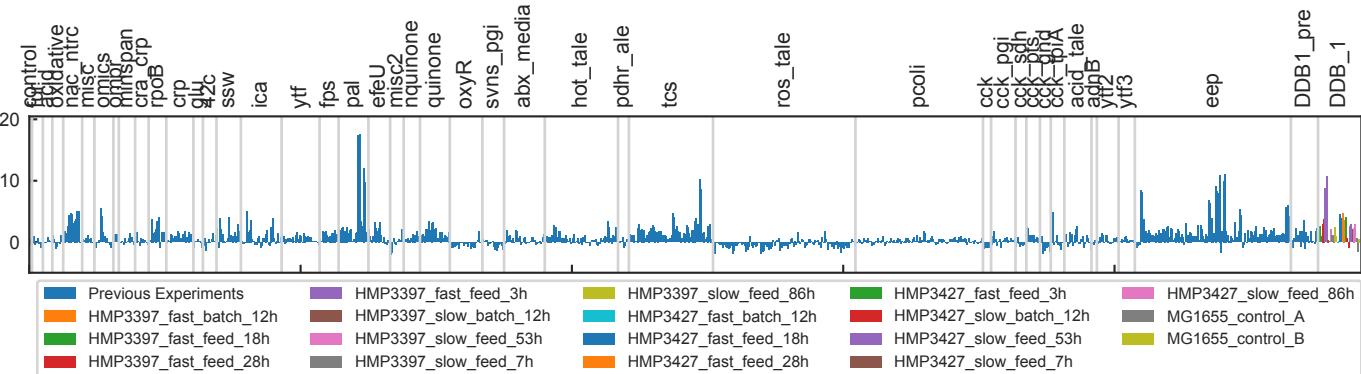
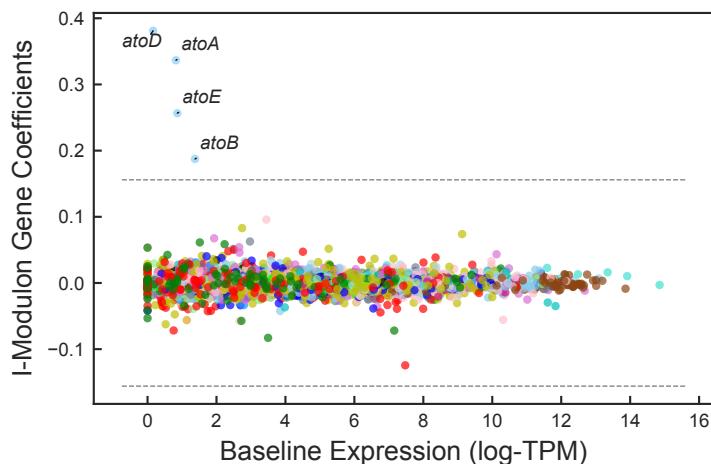
ArgR I-Modulon

Regulated by: argR

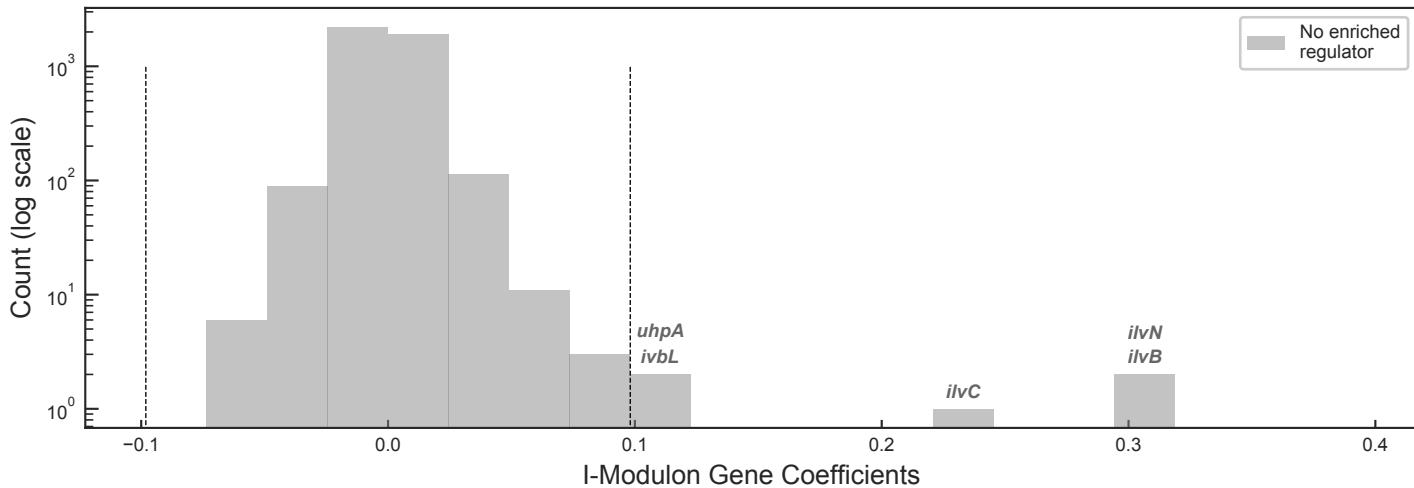
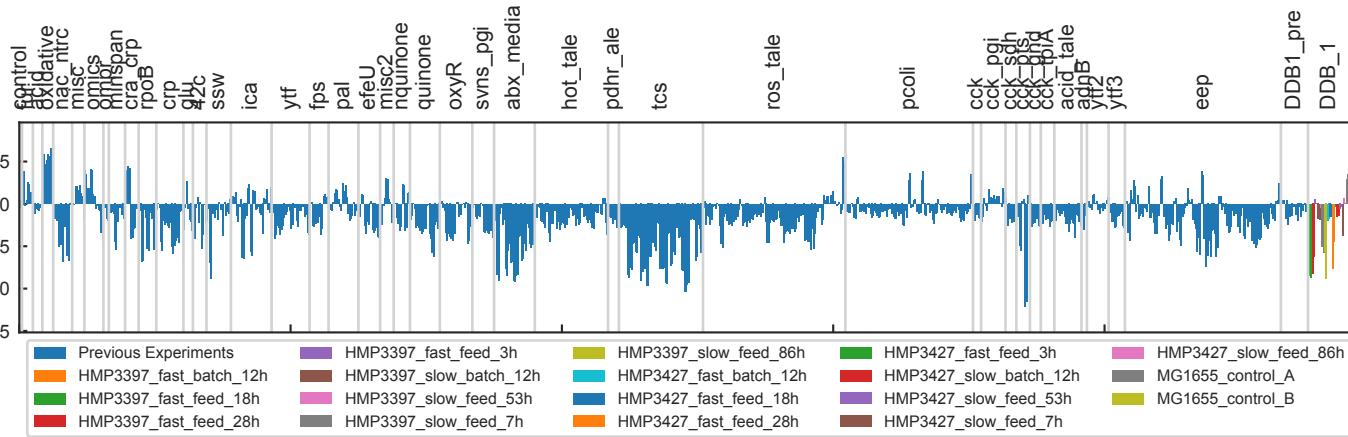
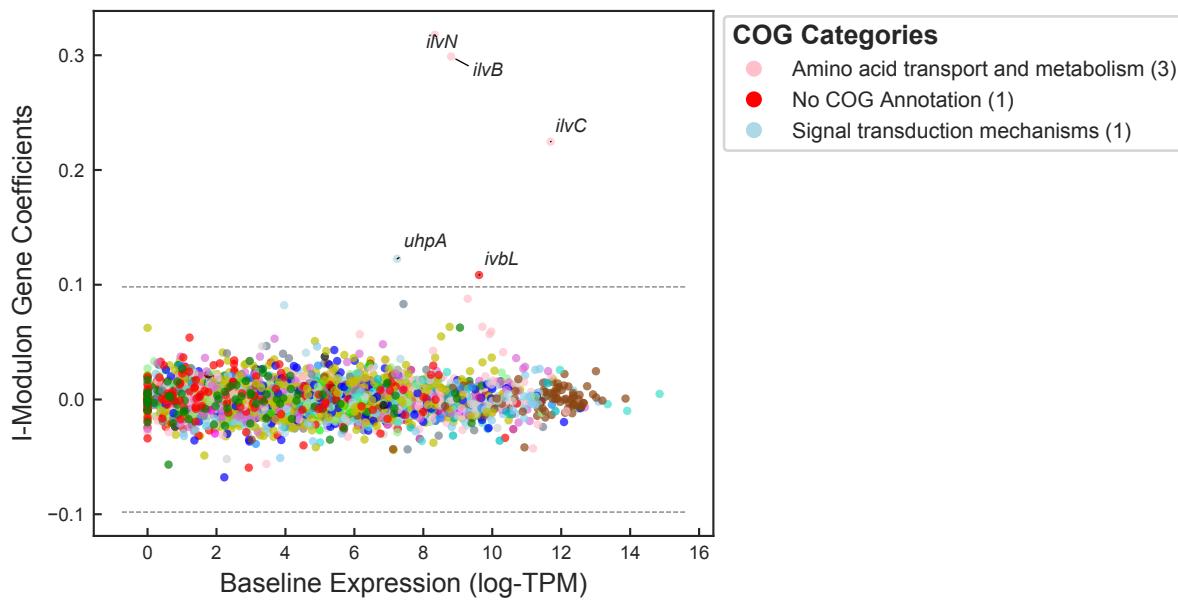


AtoC I-Modulon

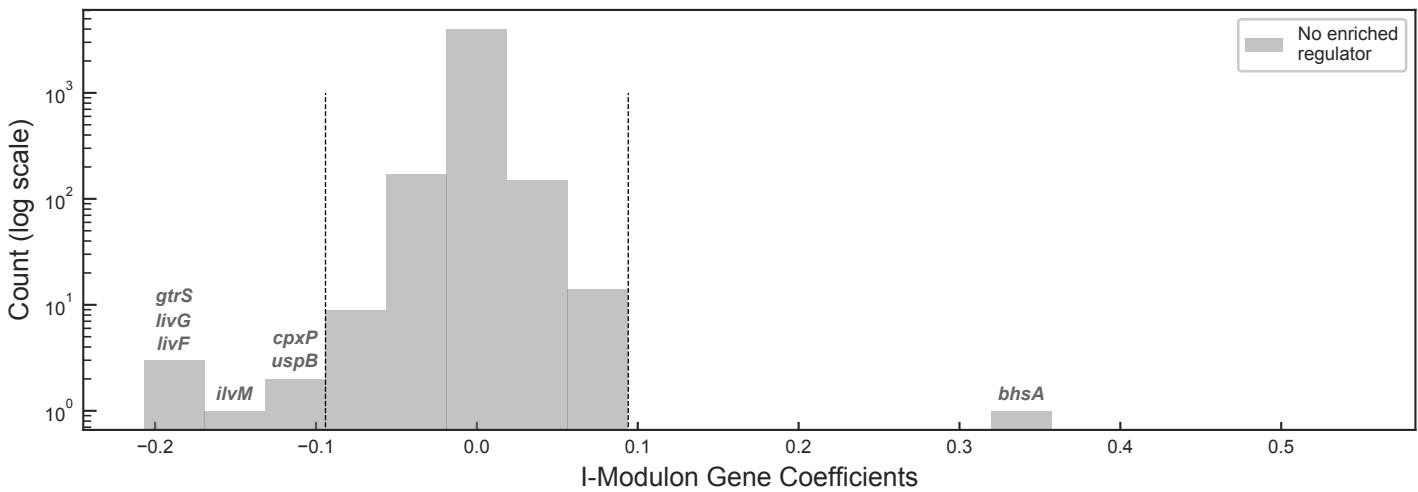
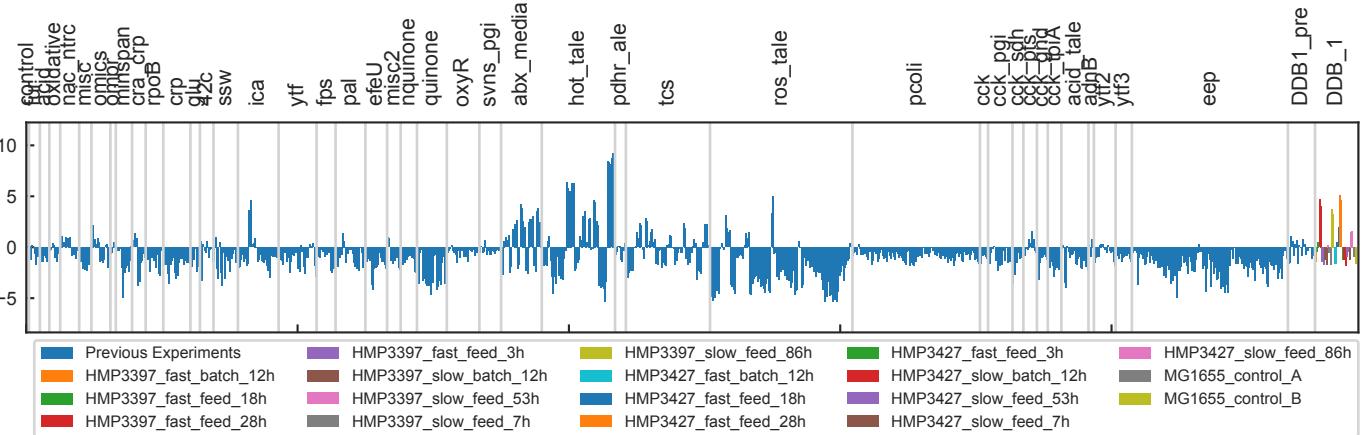
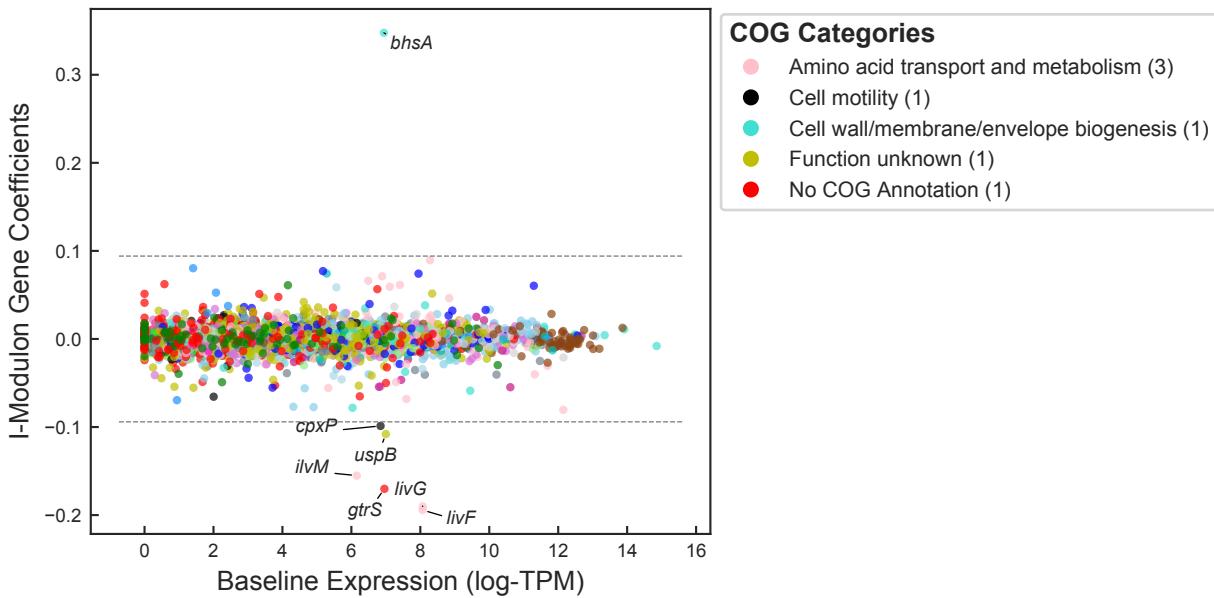
Regulated by: *atoC*



BCAA – 1 I-Modulon

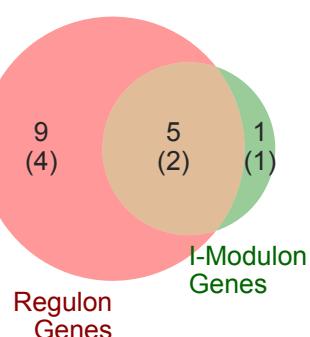
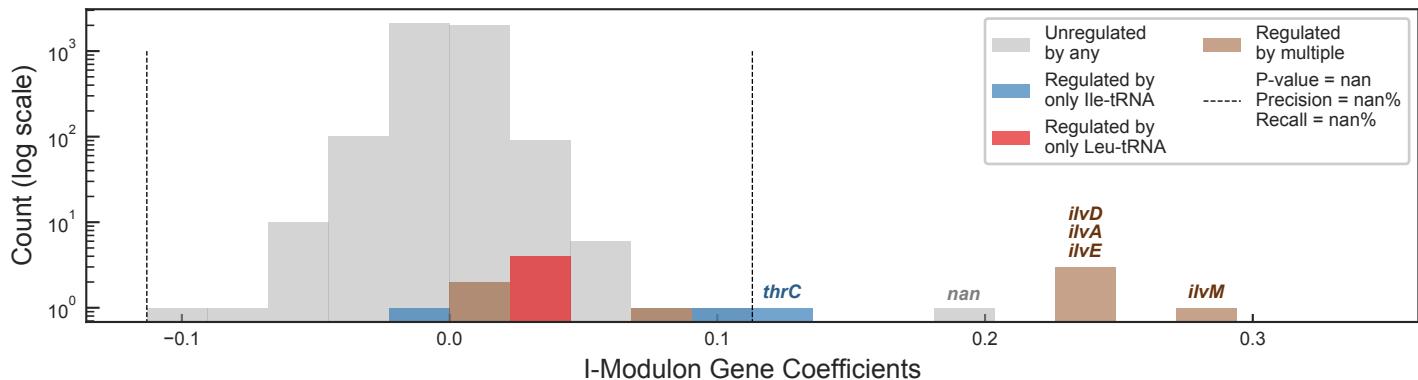
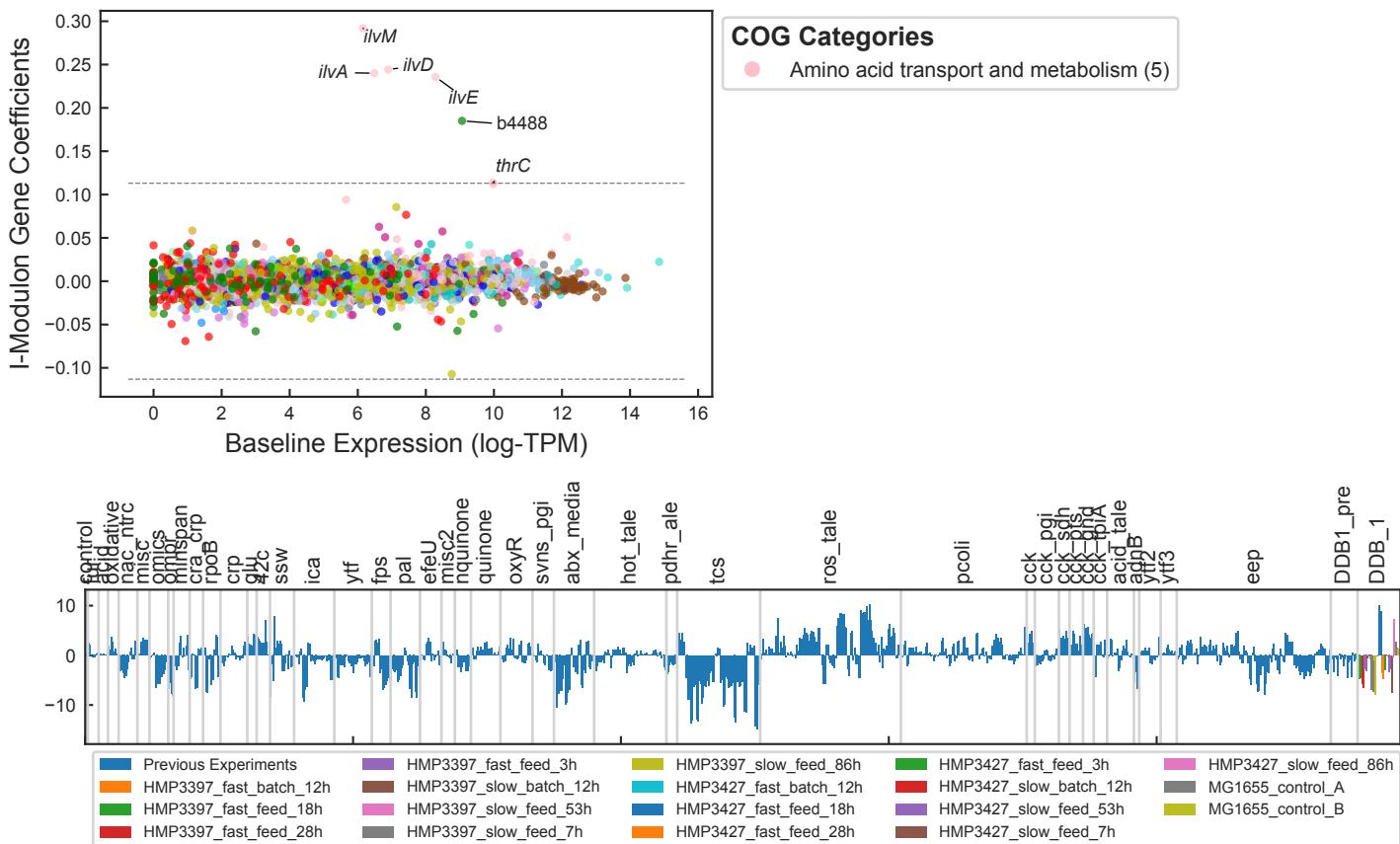


BCAA – 2 I-Modulon

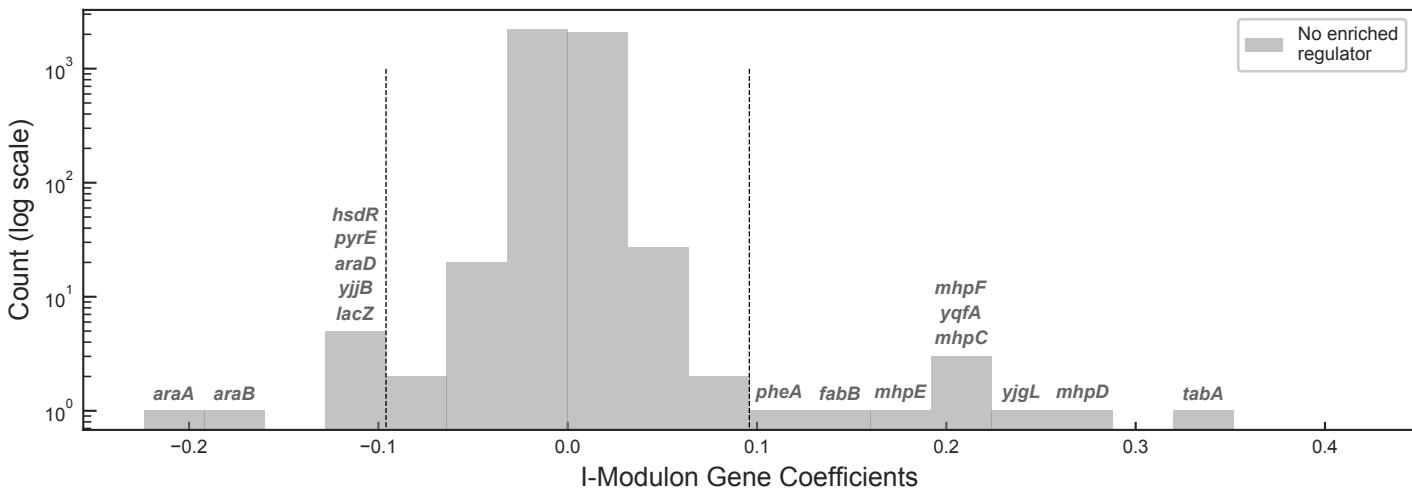
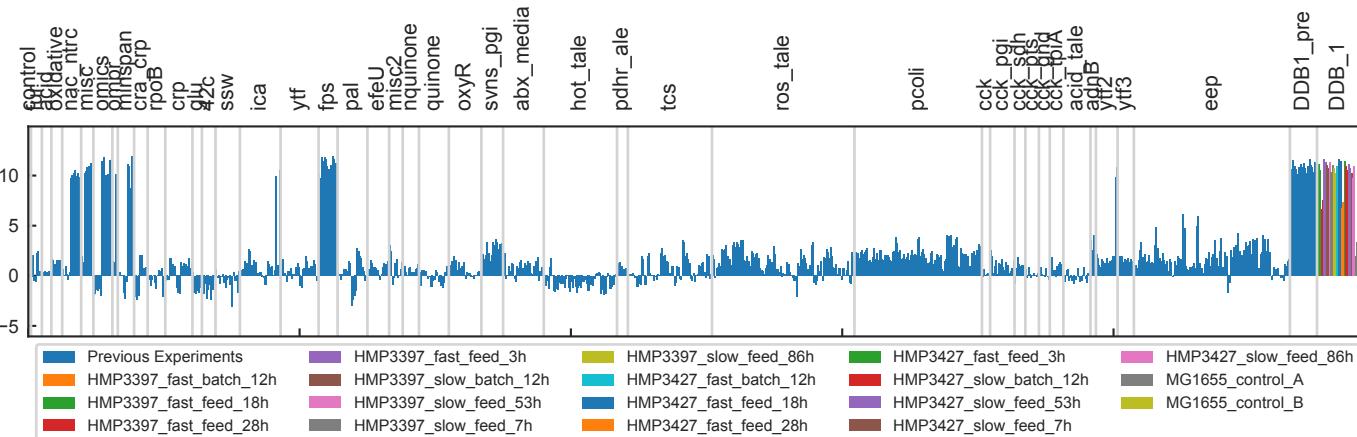
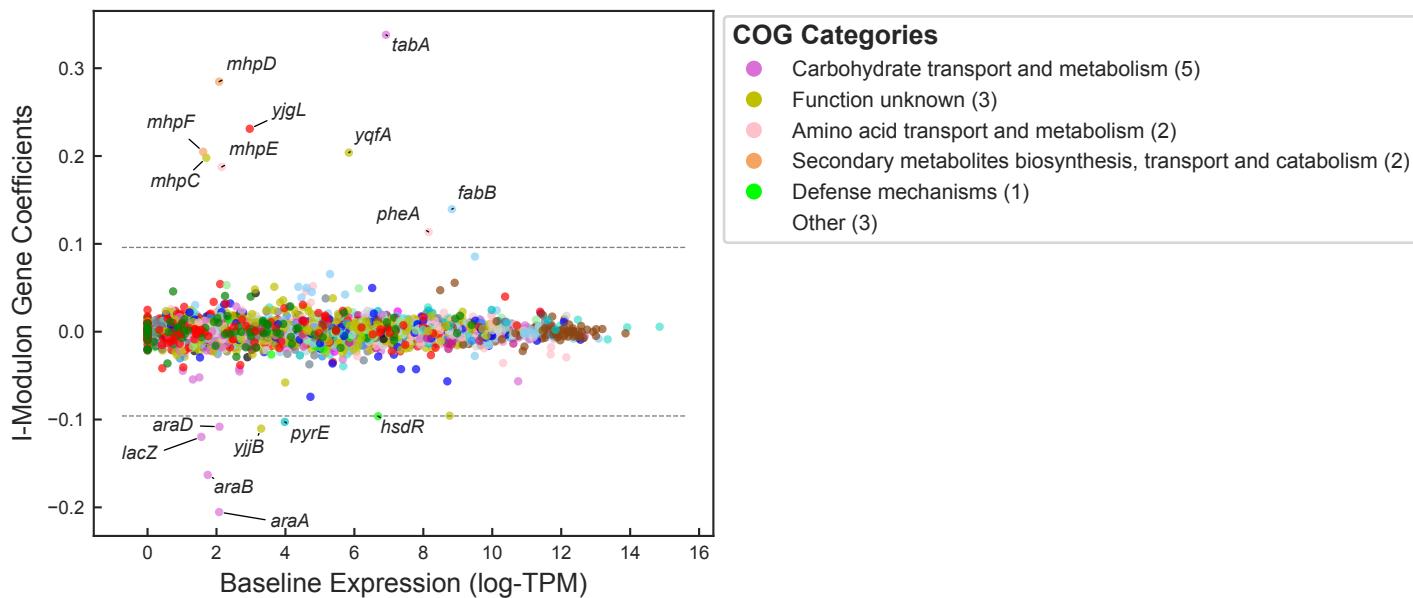


BCAA – 3 I-Modulon

Regulated by: ile-tRNA/val-tRNA/leu-tRNA

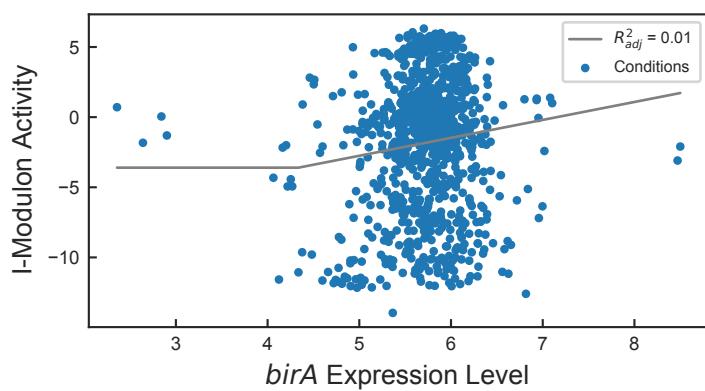
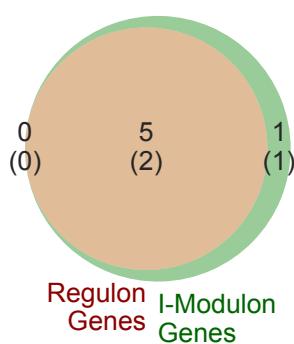
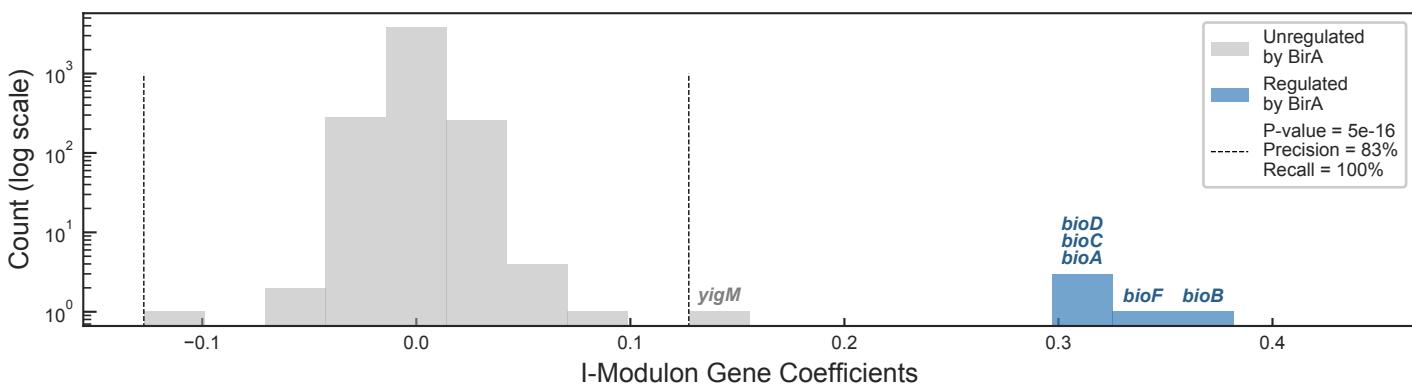
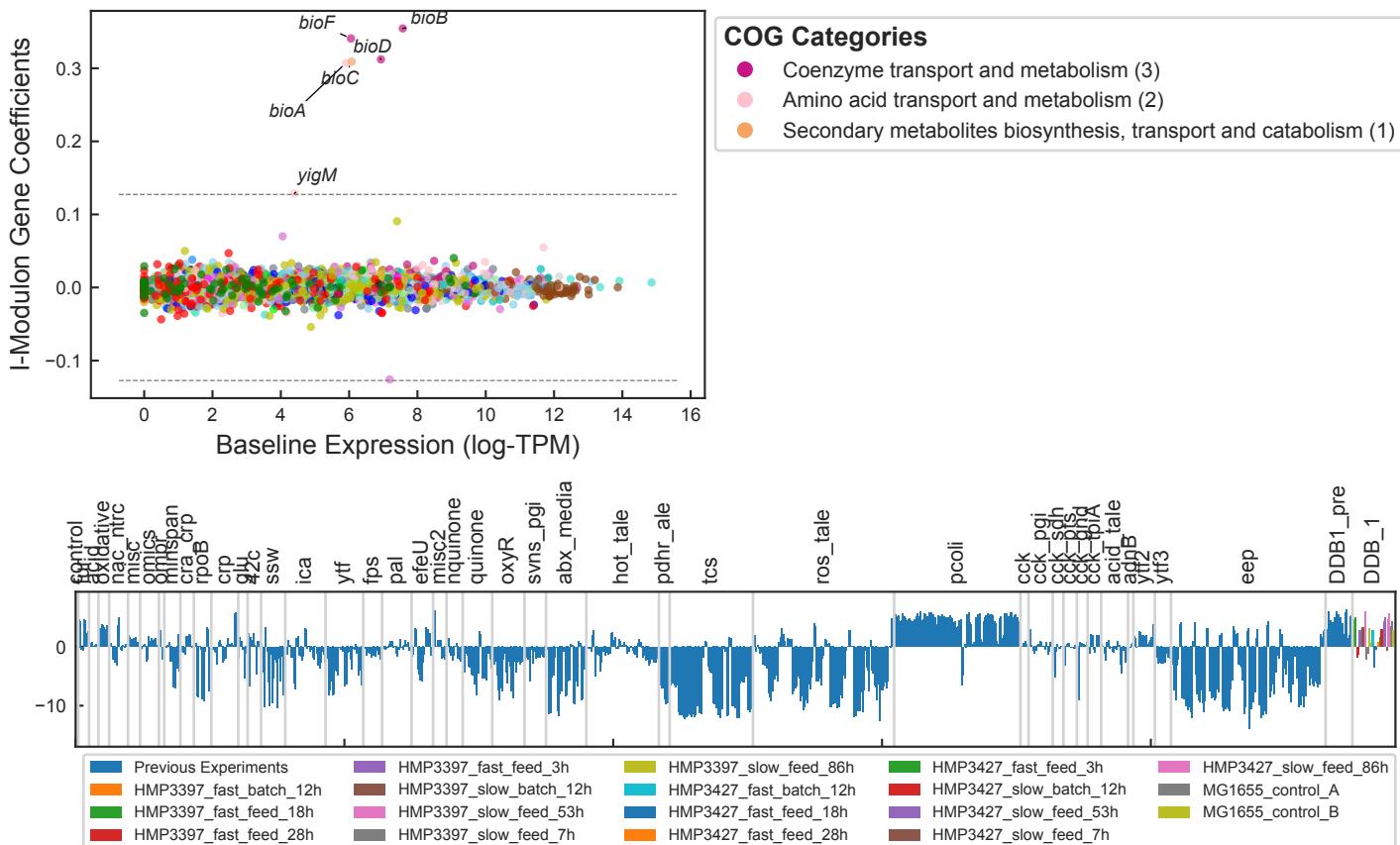


BW25113 I-Modulon



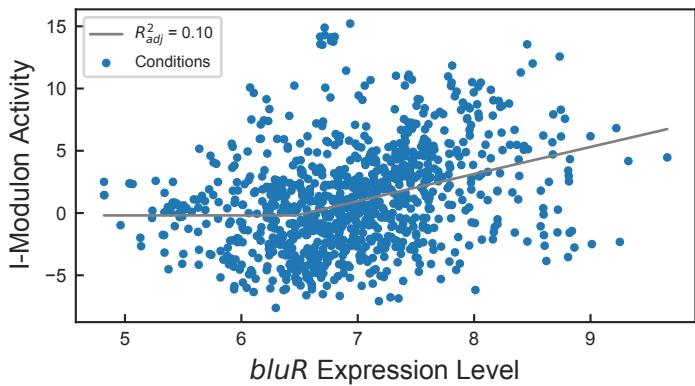
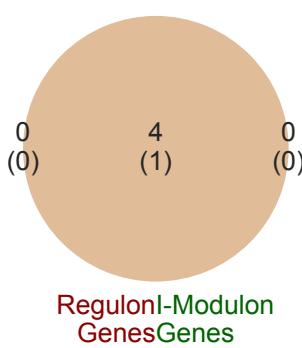
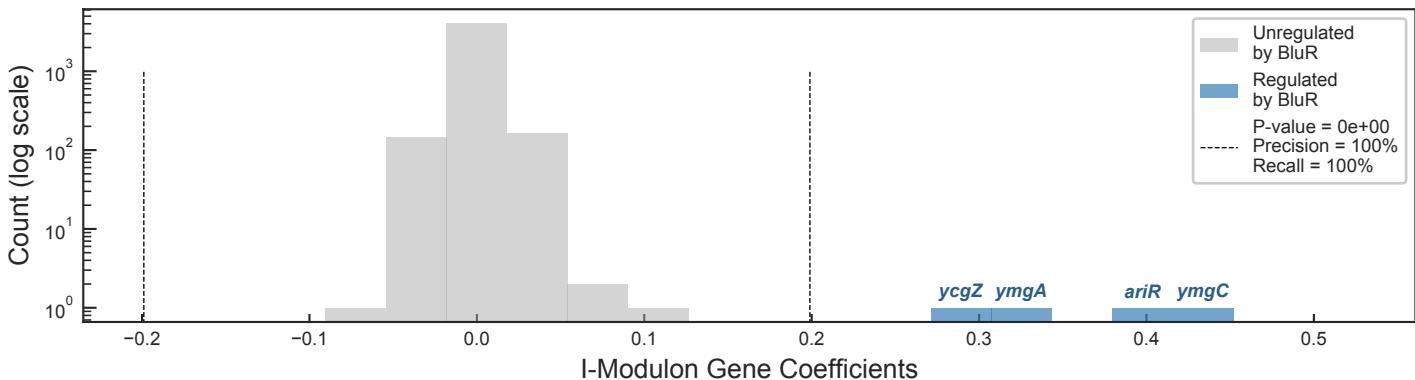
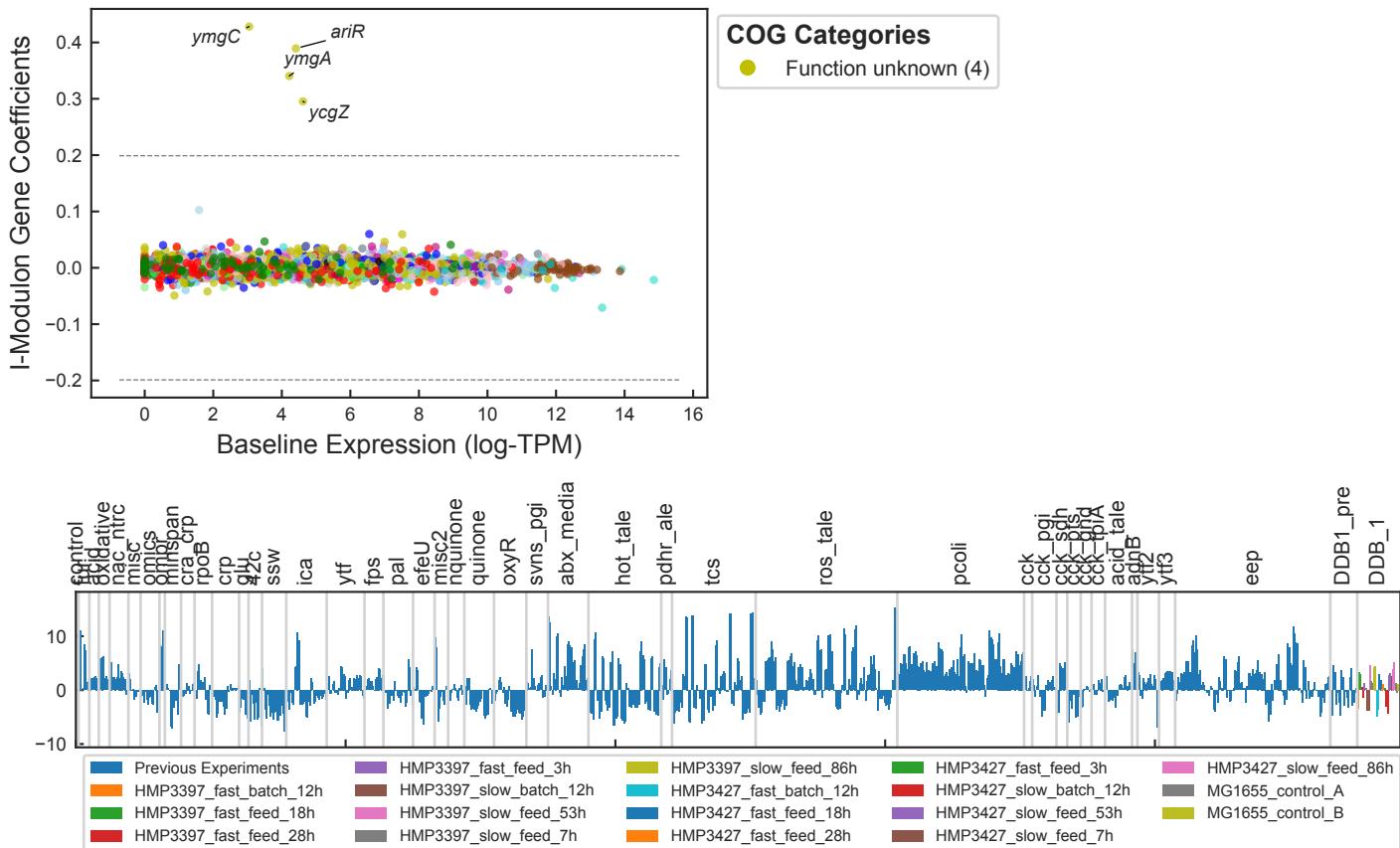
BirA I-Modulon

Regulated by: *birA*



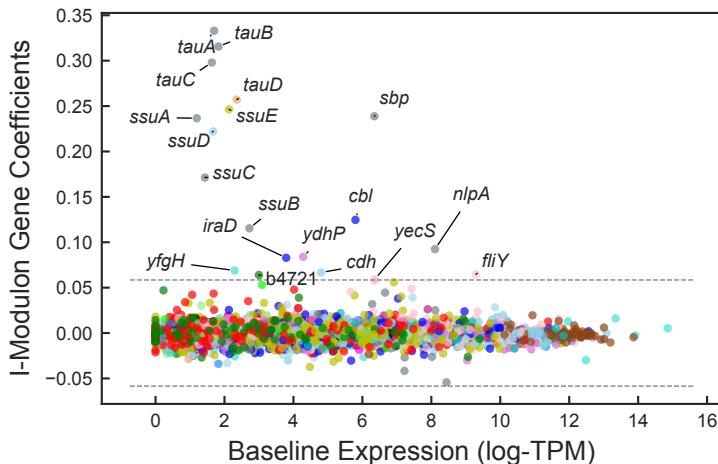
BluR I-Modulon

Regulated by: bluR



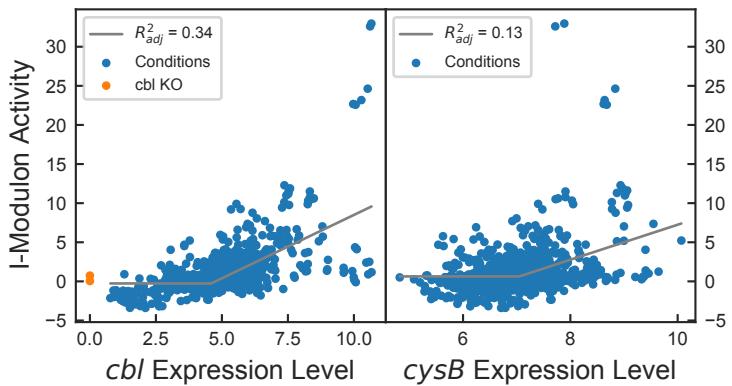
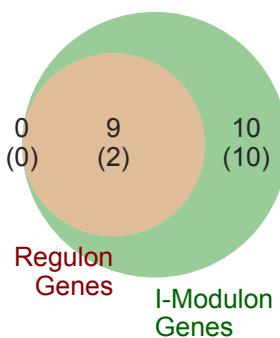
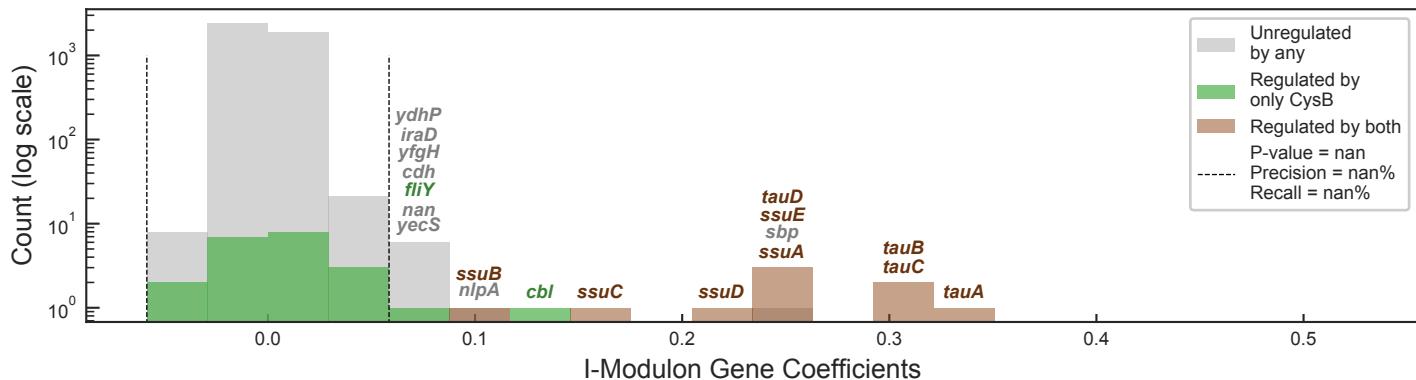
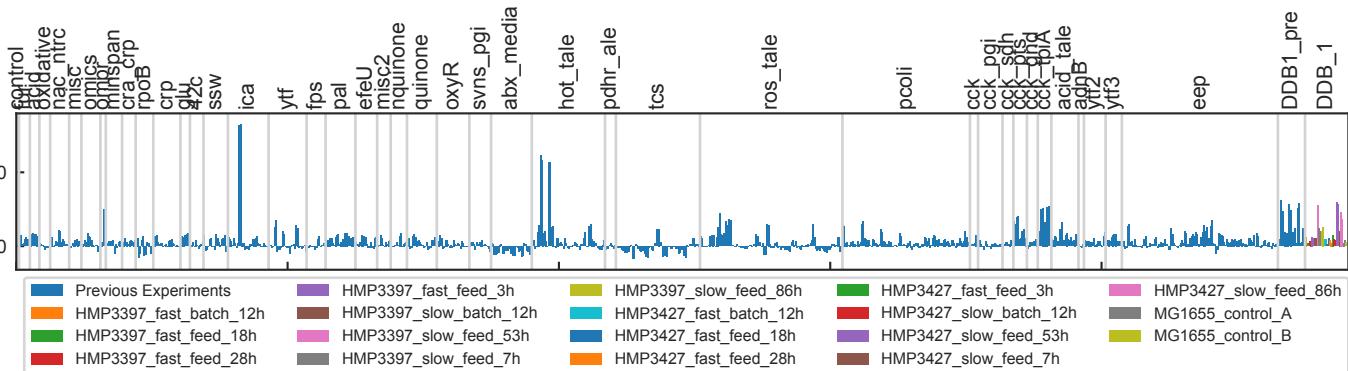
Cbl + CysB I-Modulon

Regulated by: cbl+cysB



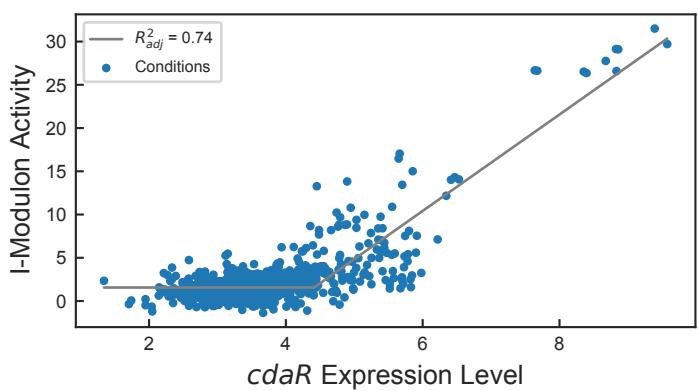
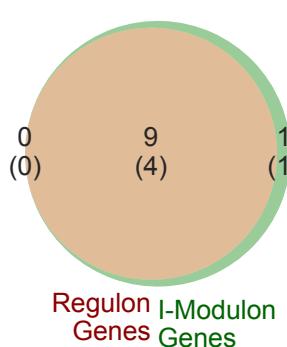
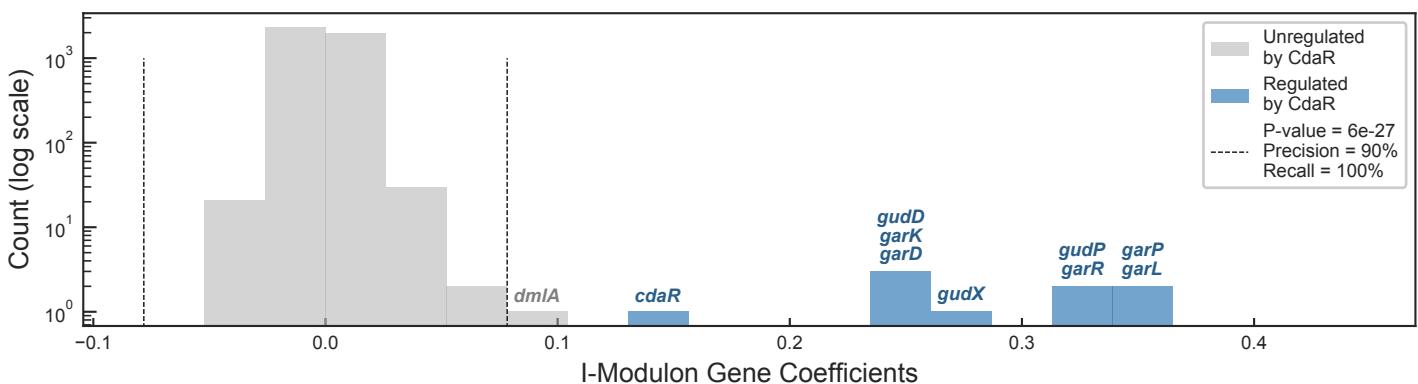
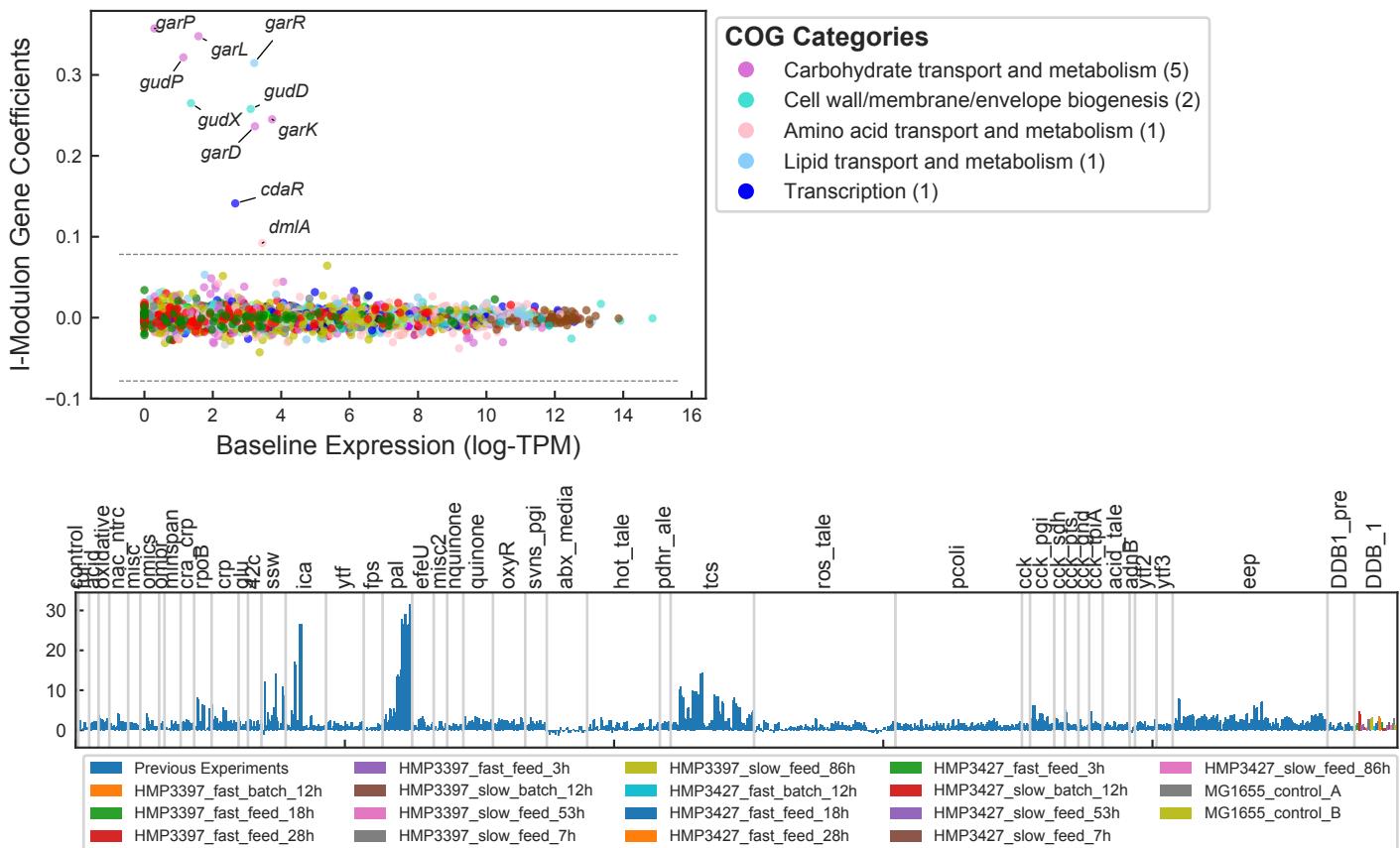
COG Categories

- Inorganic ion transport and metabolism (8)
- Amino acid transport and metabolism (2)
- Transcription (2)
- Carbohydrate transport and metabolism (1)
- Cell wall/membrane/envelope biogenesis (1)
- Other (4)



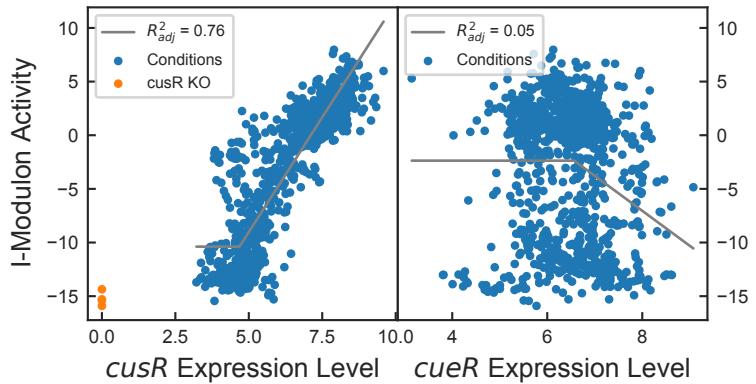
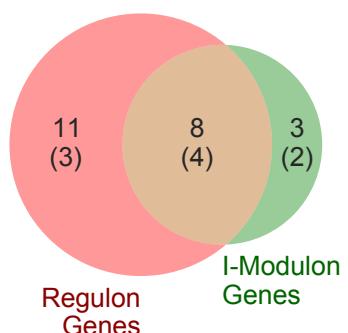
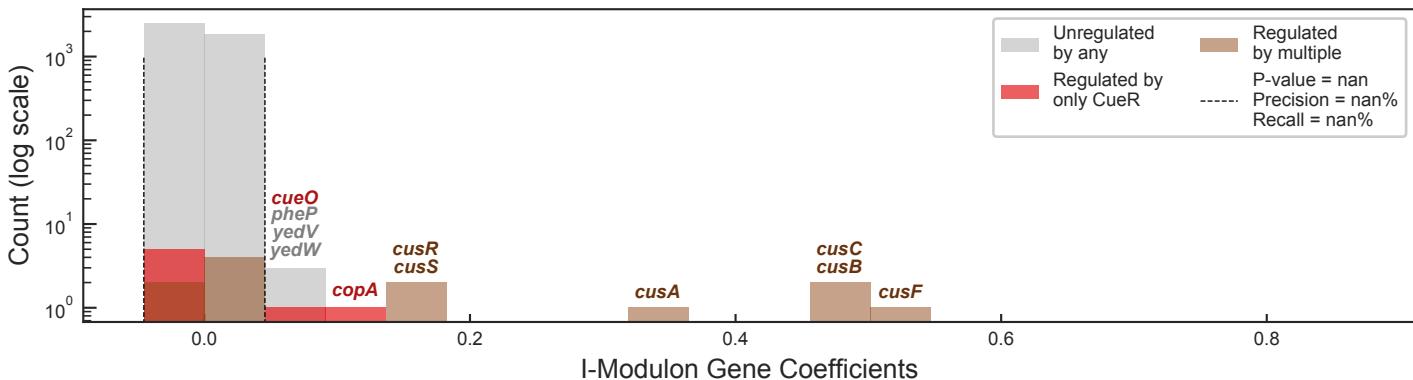
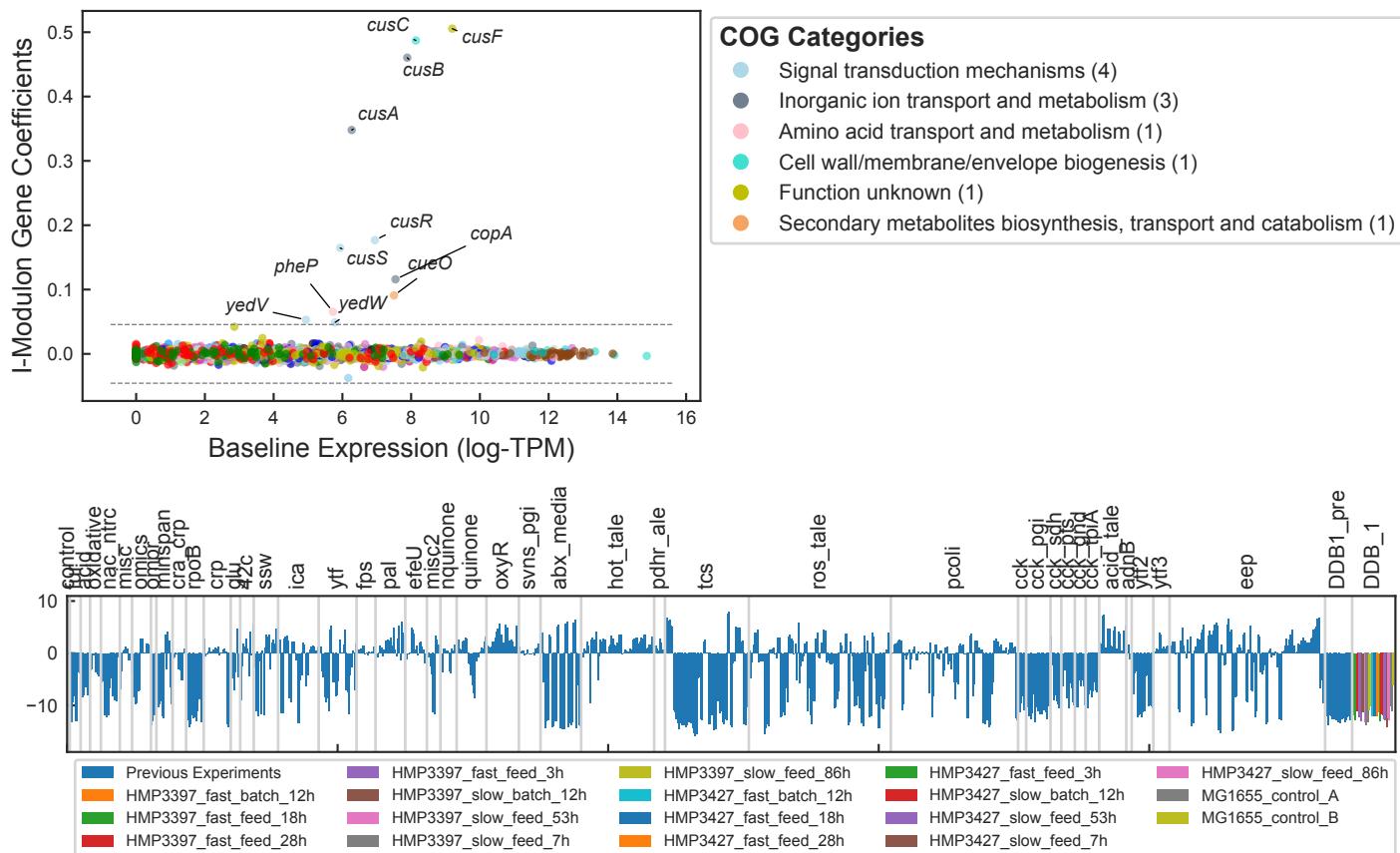
CdaR I-Modulon

Regulated by: cdaR



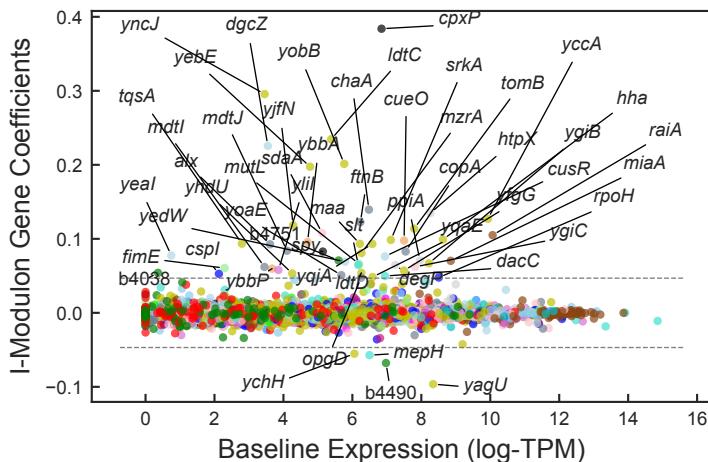
Copper I-Modulon

Regulated by: cusR/hprR/cueR



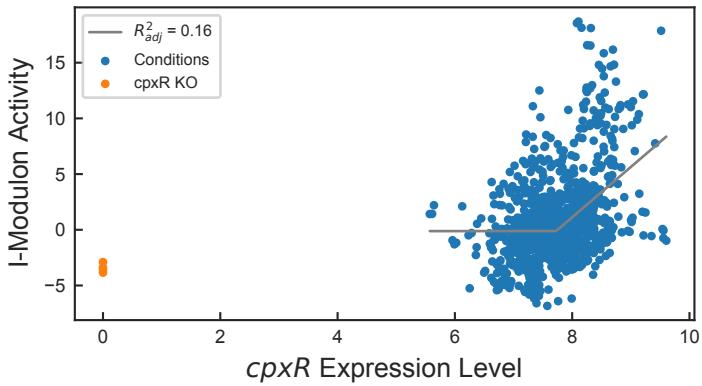
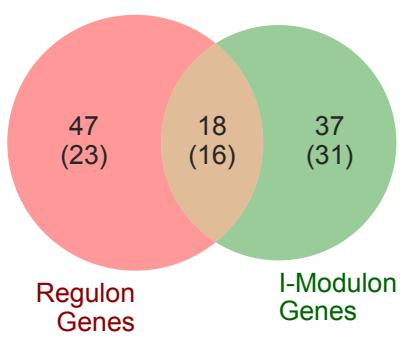
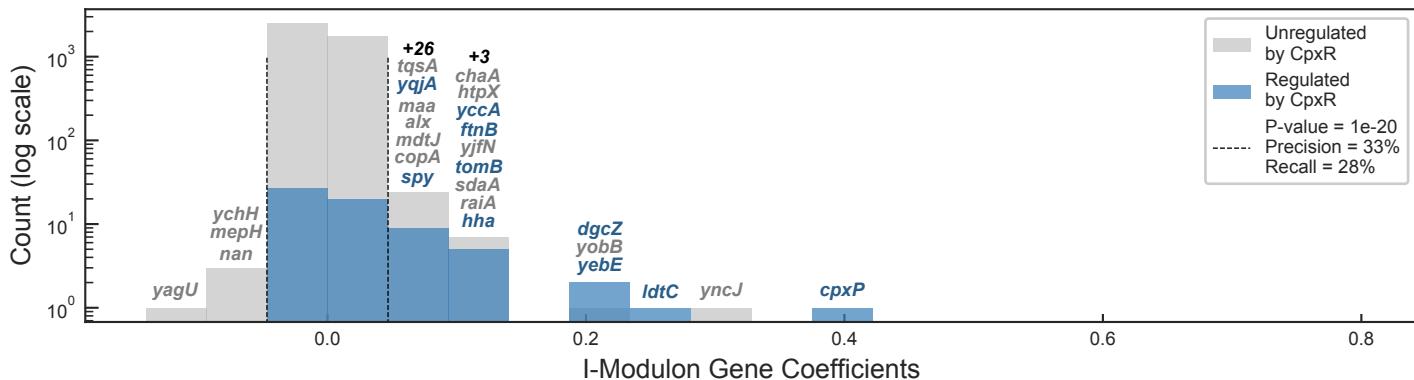
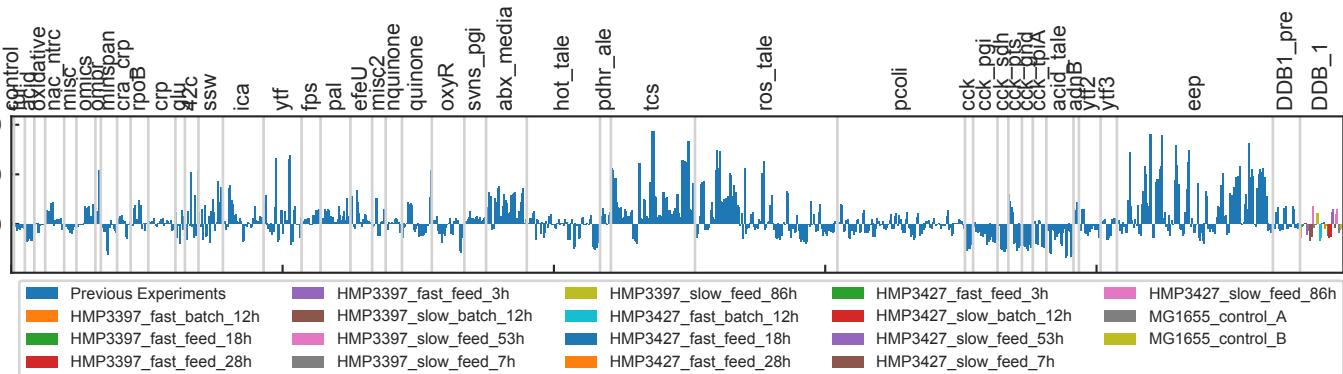
CpxR I-Modulon

Regulated by: cpxR

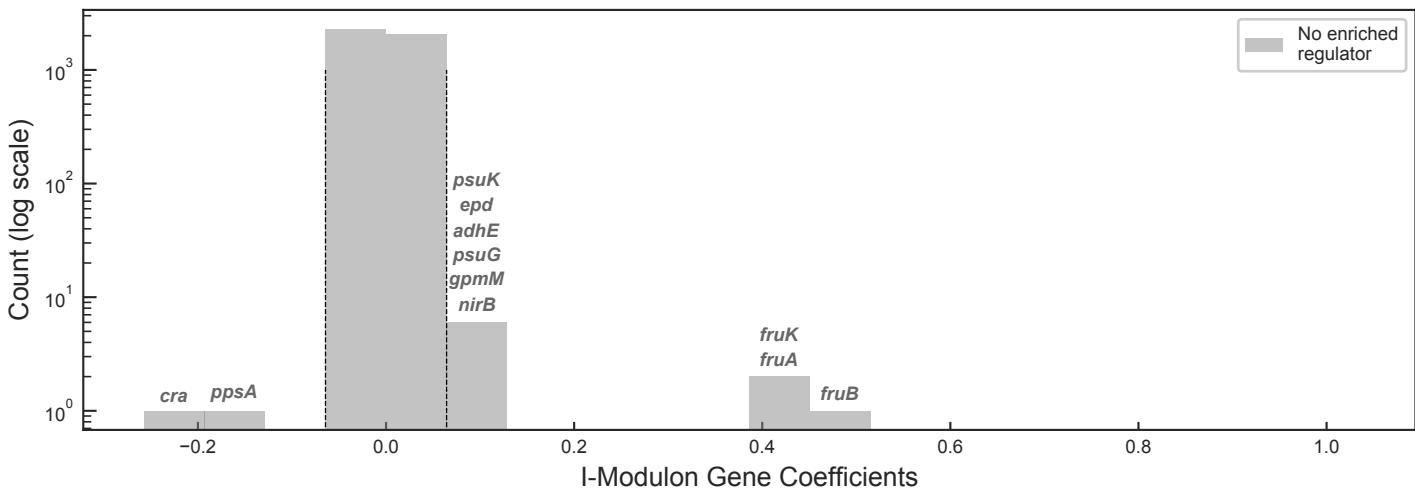
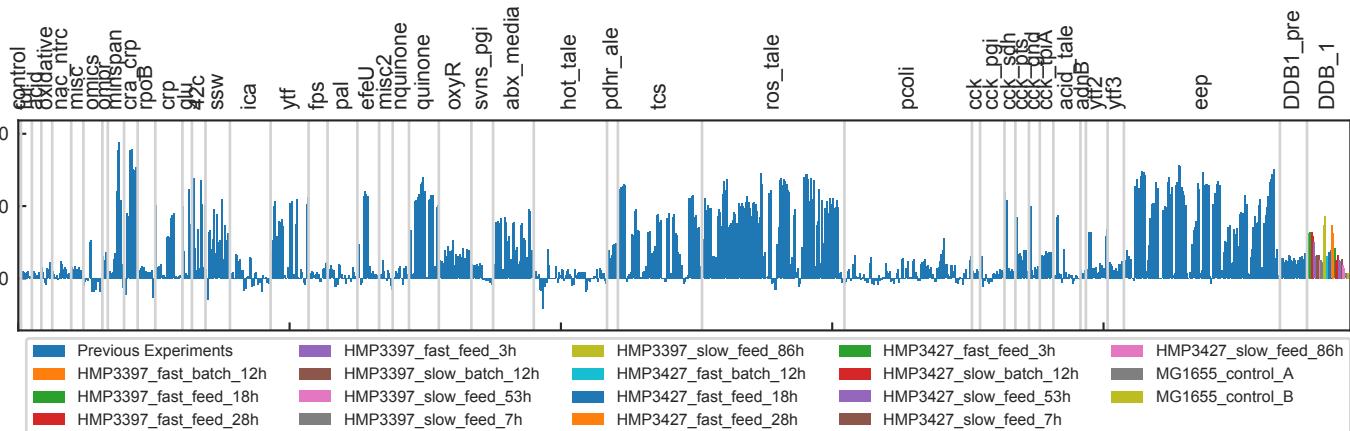
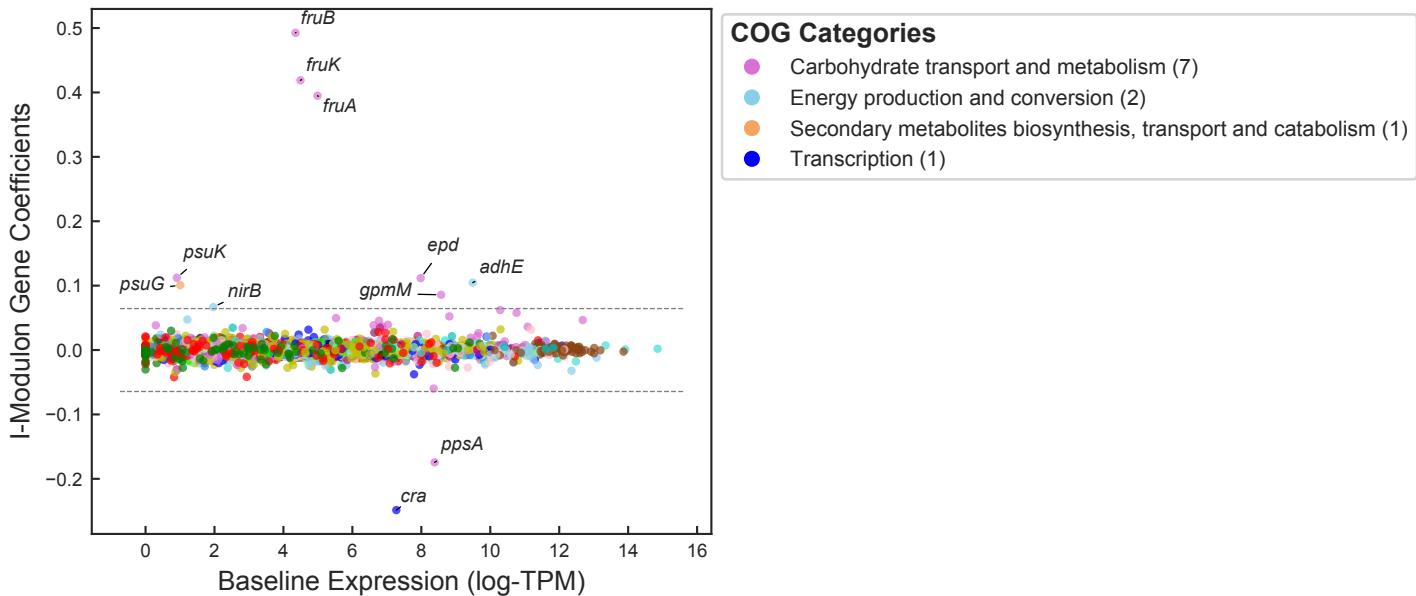


COG Categories

- Function unknown (20)
- Inorganic ion transport and metabolism (8)
- Signal transduction mechanisms (4)
- Cell wall/membrane/envelope biogenesis (3)
- Posttranslational modification, protein turnover, chaperones (3)
- Other (14)

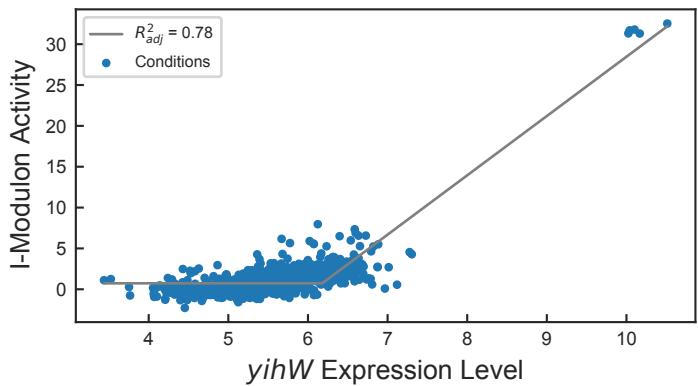
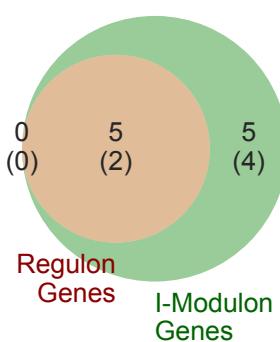
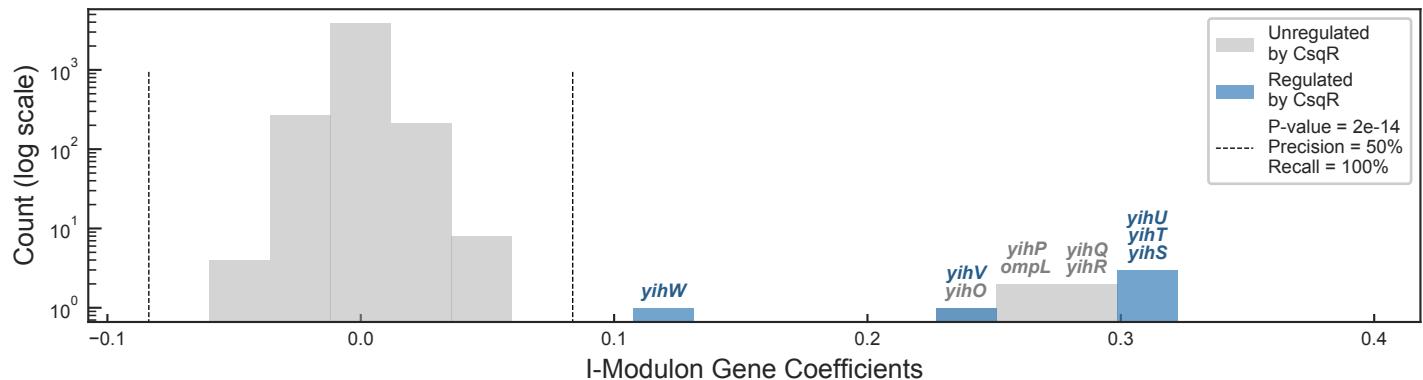
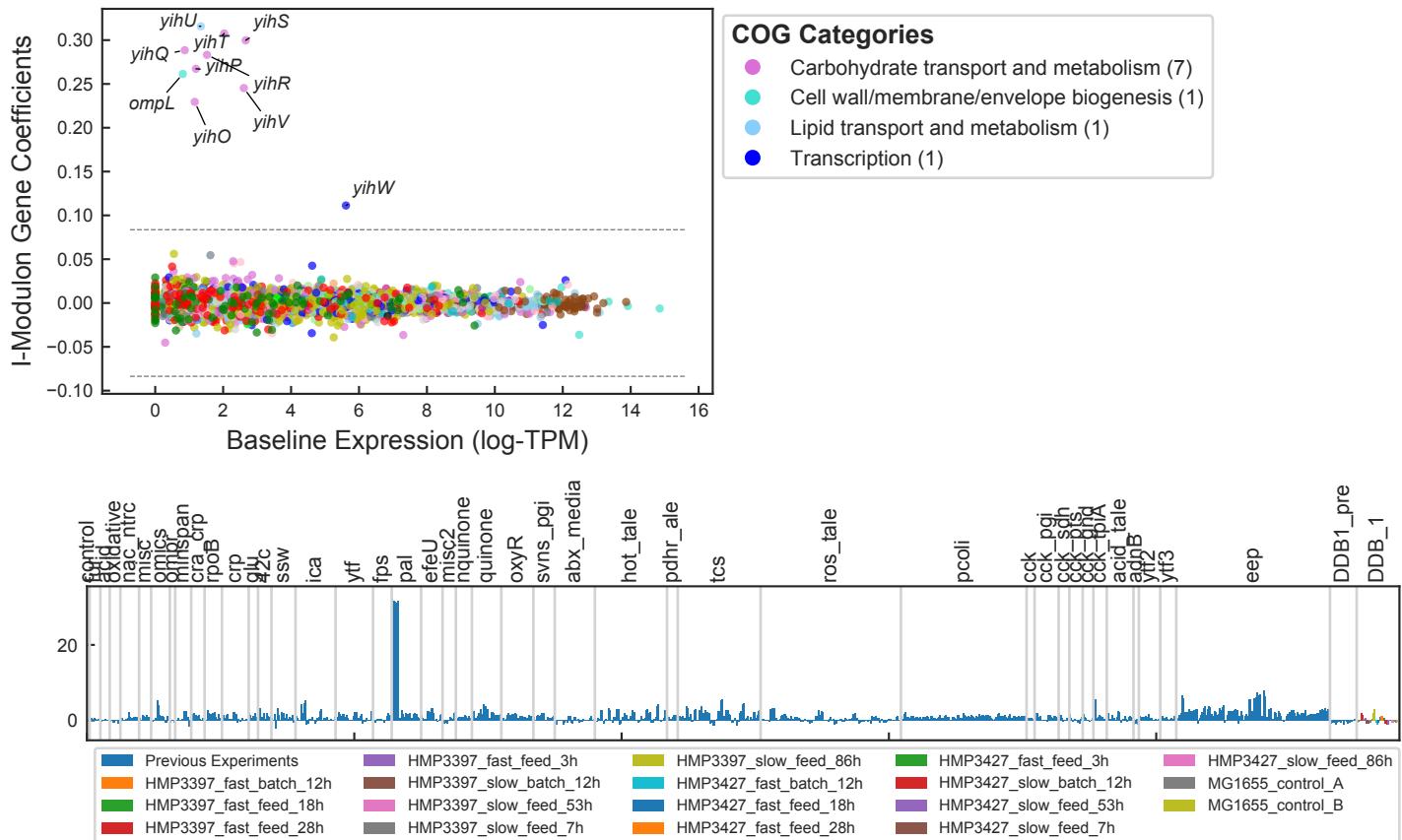


Cra I-Modulon



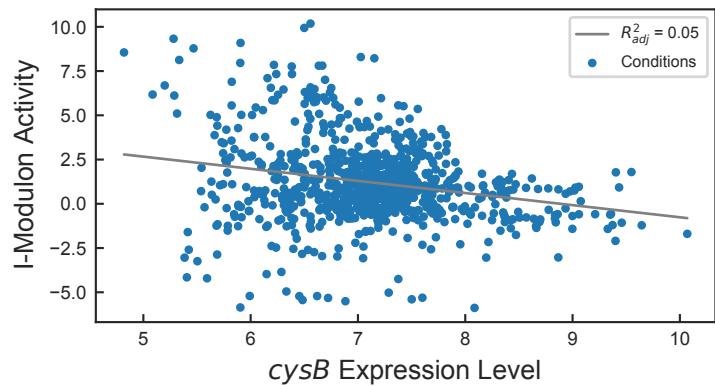
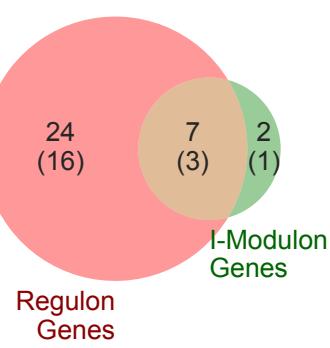
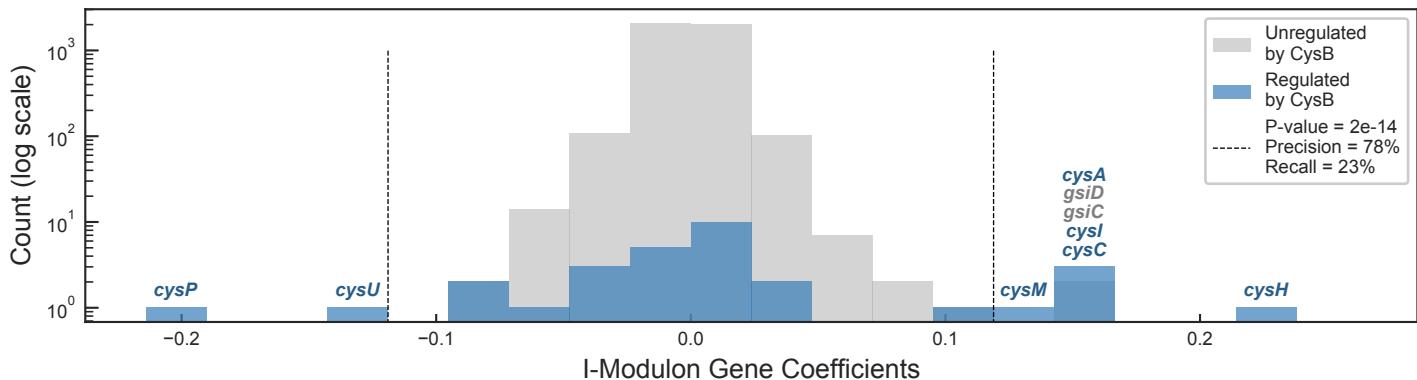
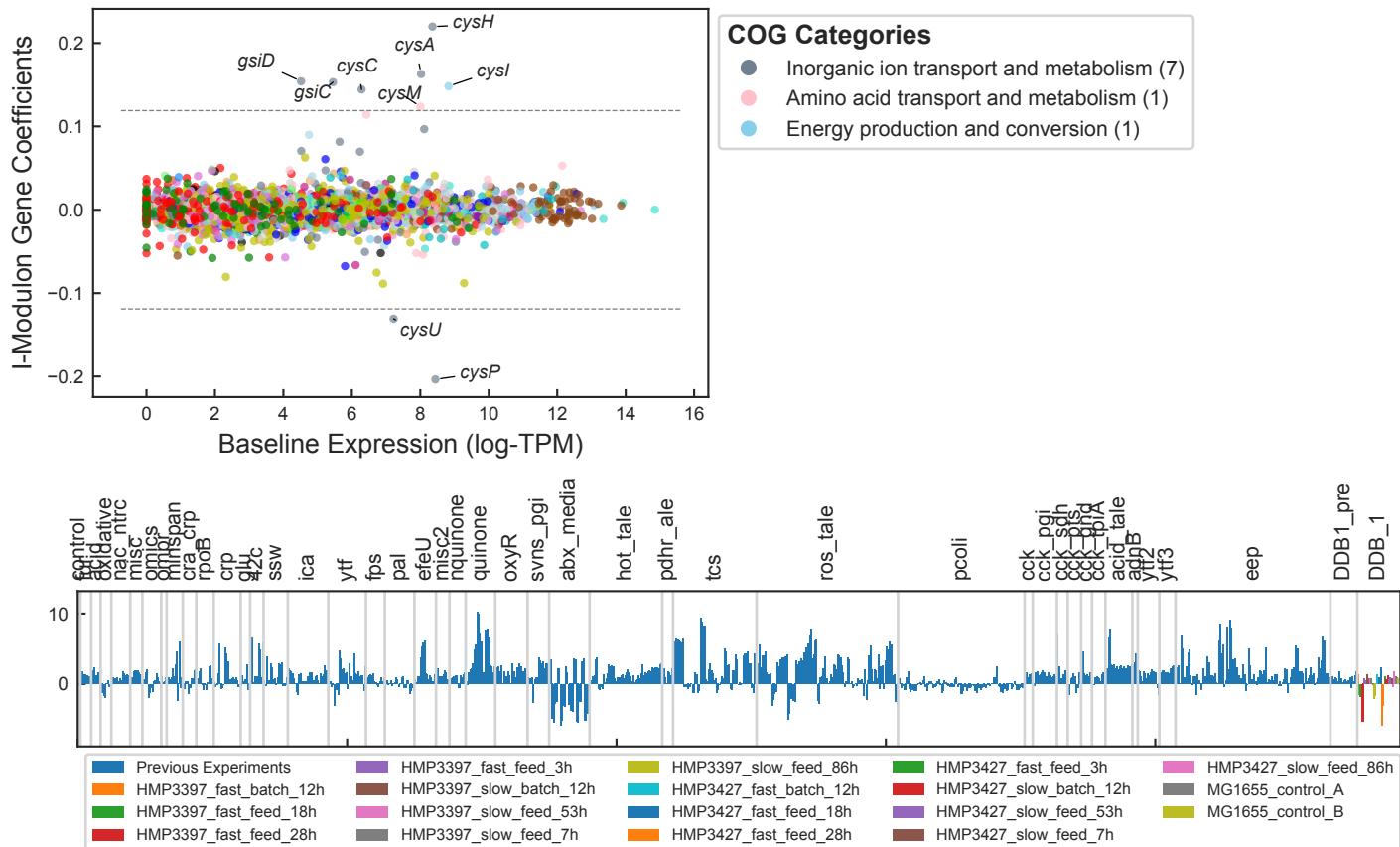
CsqR I-Modulon

Regulated by: csqR



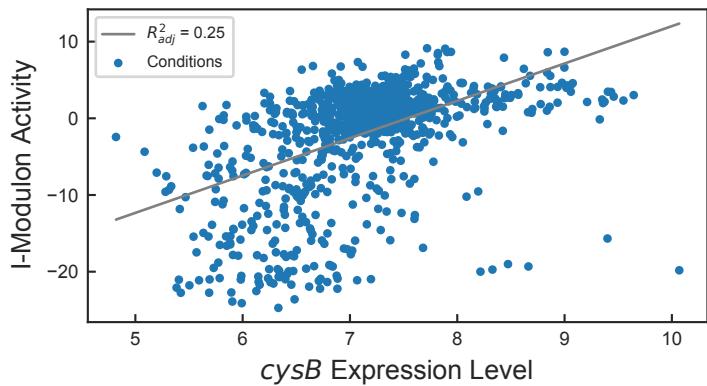
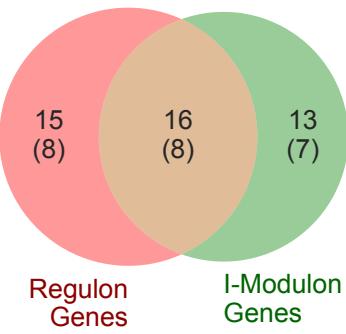
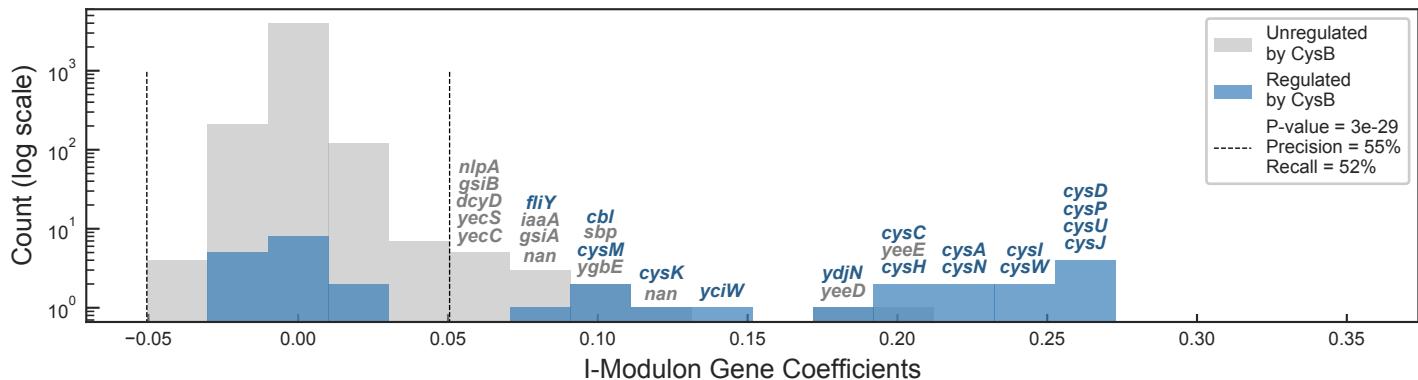
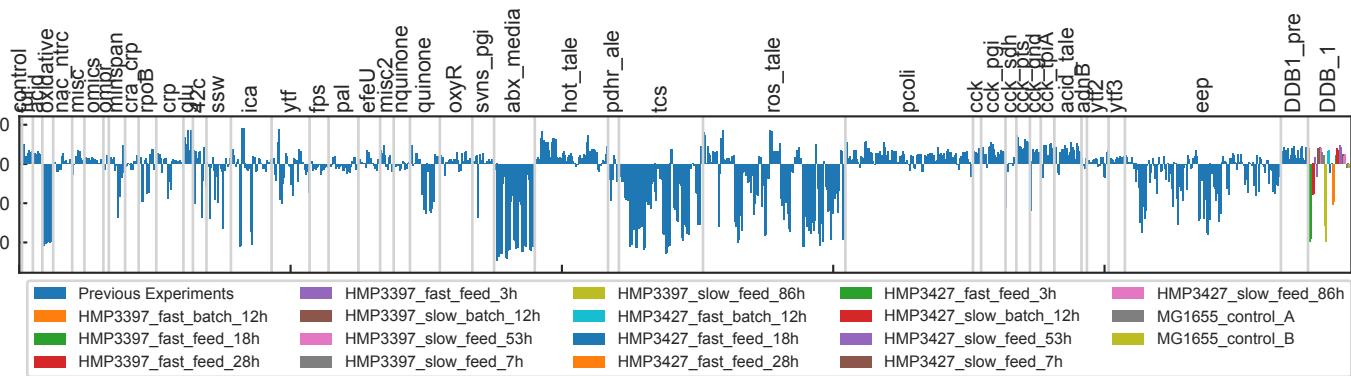
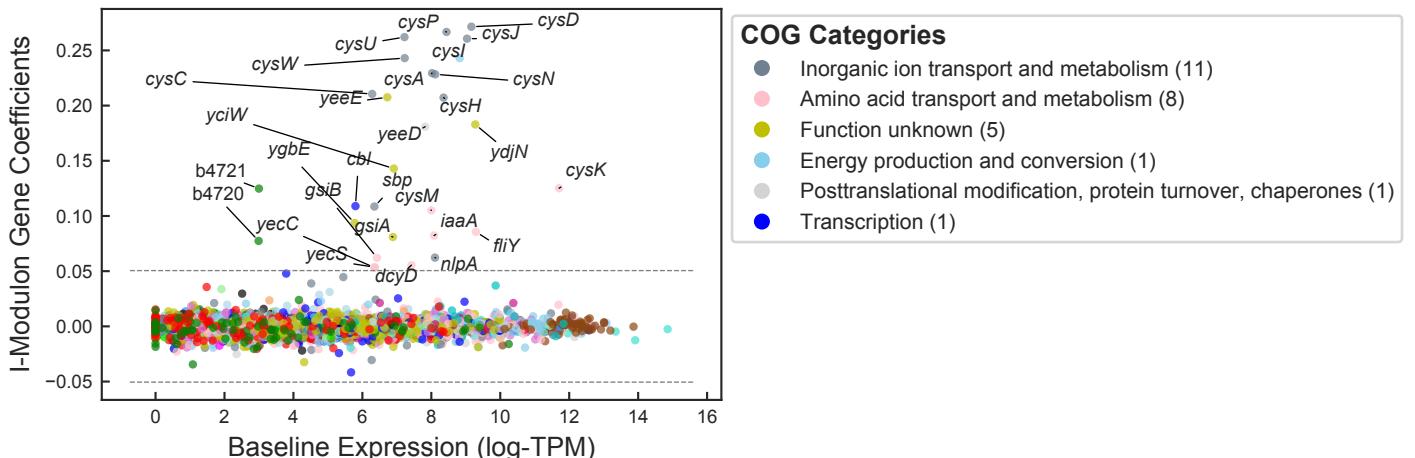
CysB – 1 I-Modulon

Regulated by: cysB

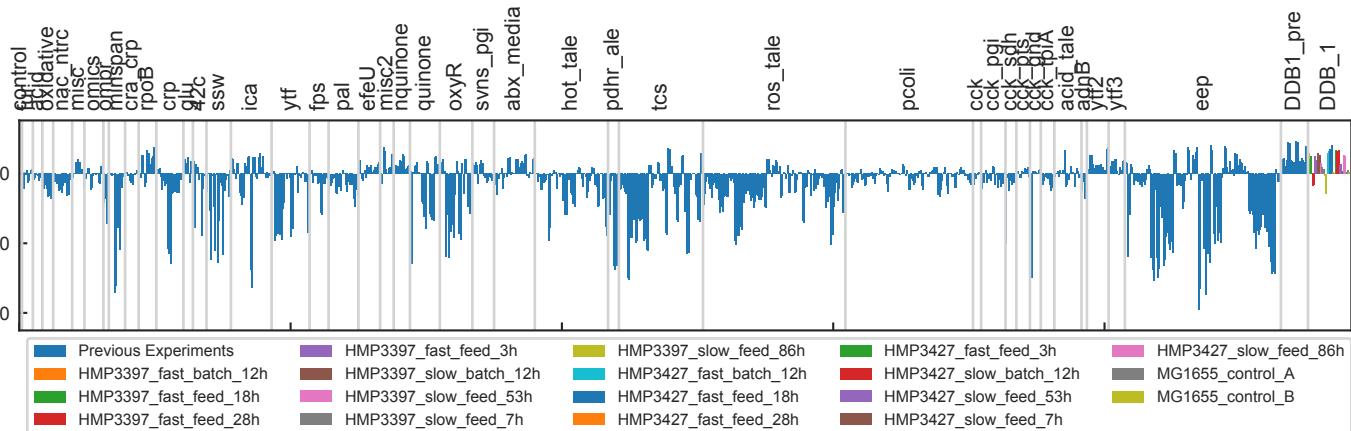
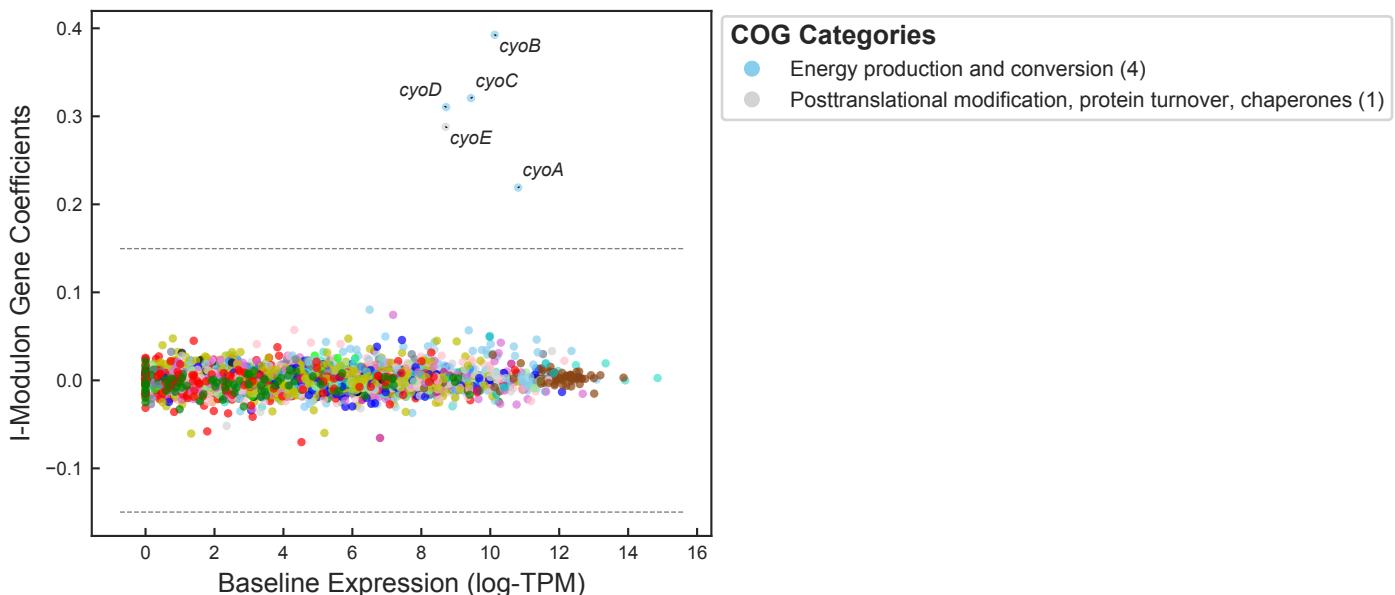


CysB – 2 I-Modulon

Regulated by: cysB

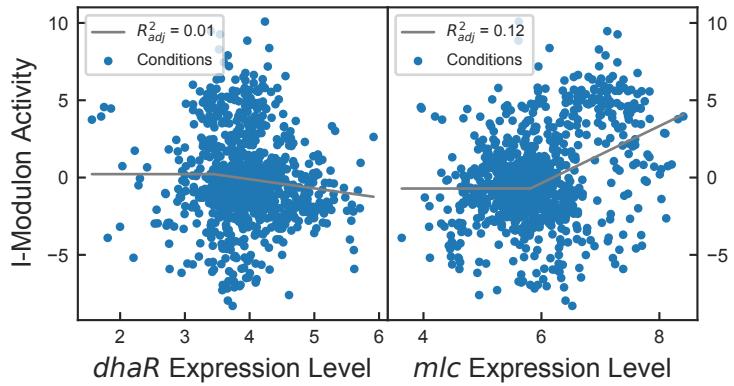
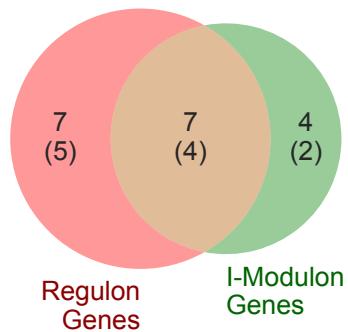
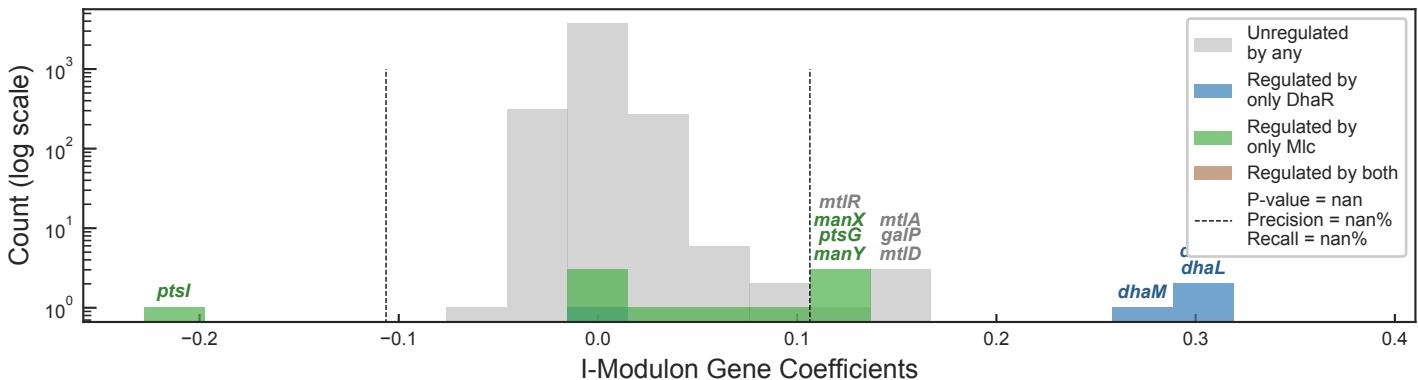
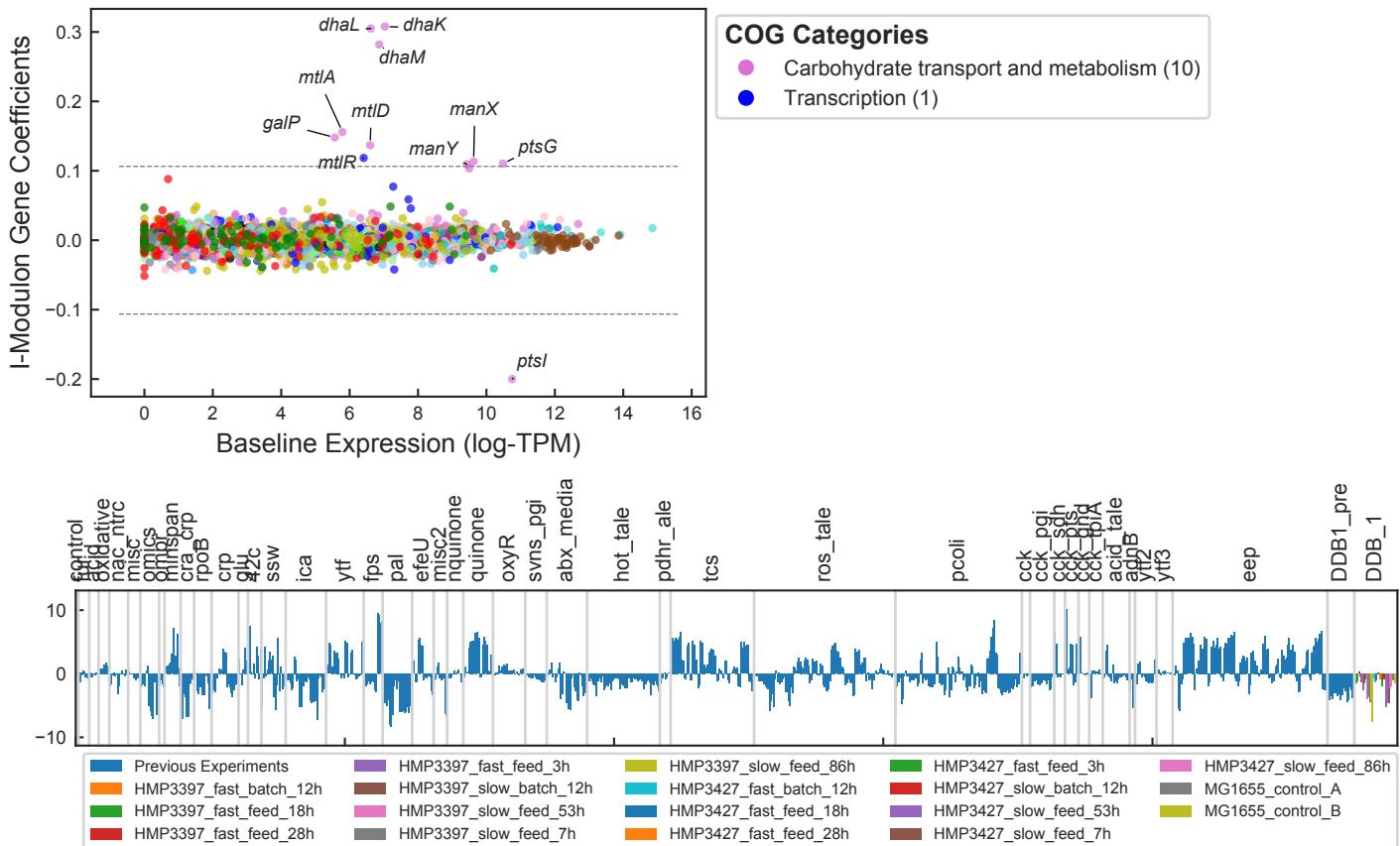


Cytochrome – bo I-Modulon

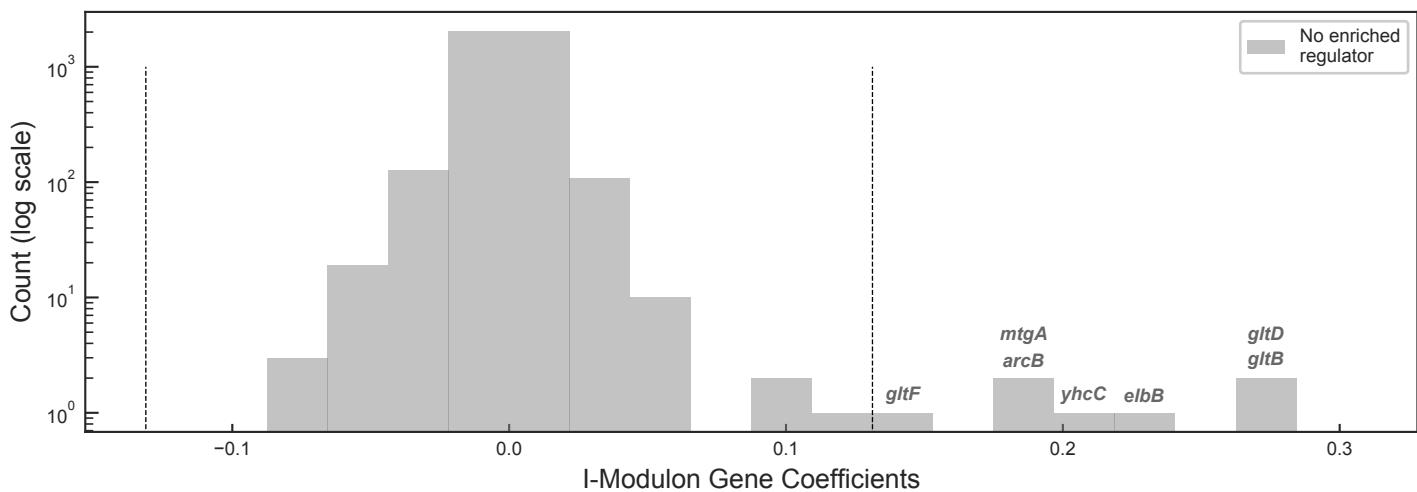
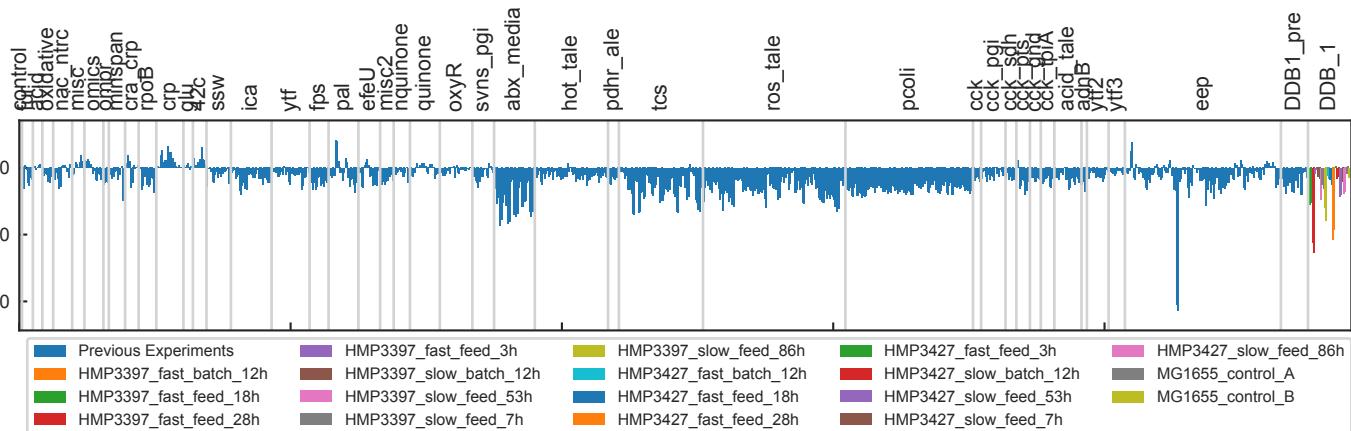
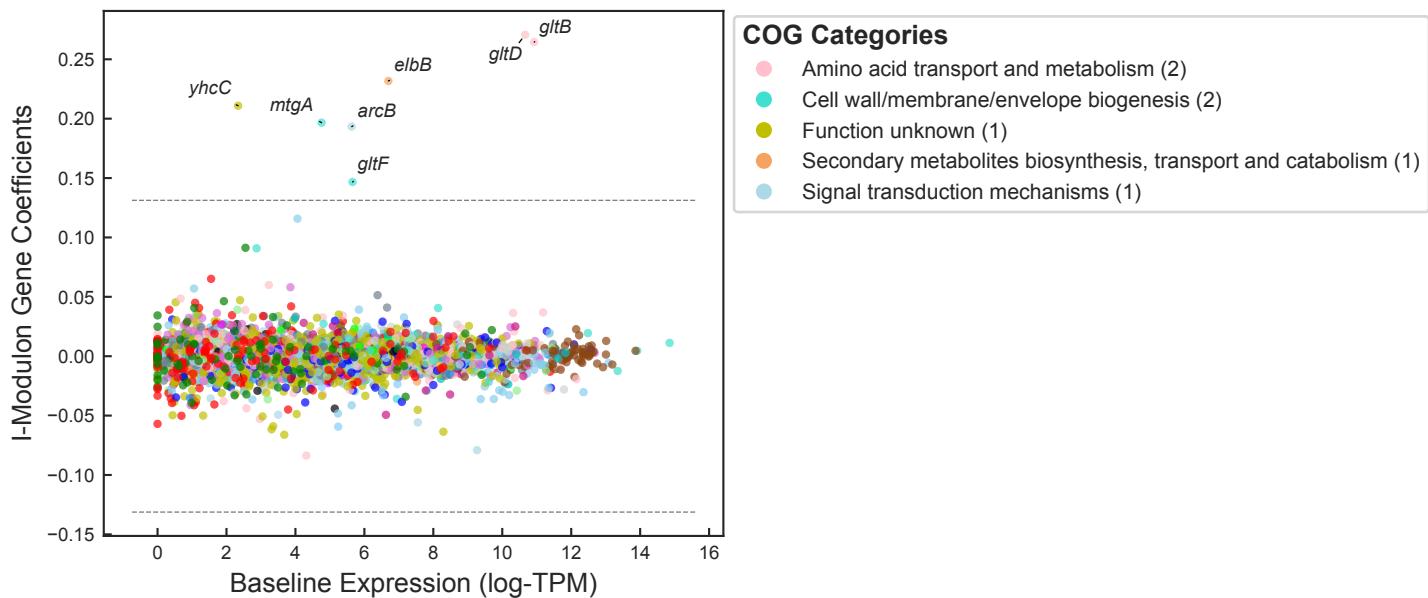


DhaR/Mlc I-Modulon

Regulated by: dhaR/mlc

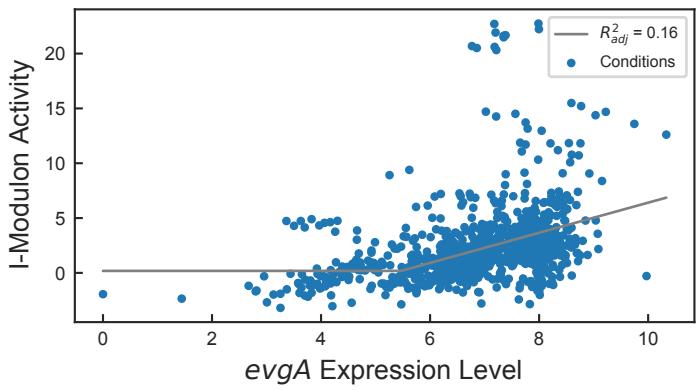
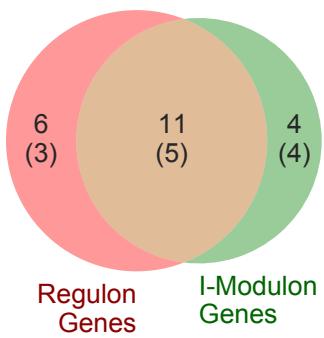
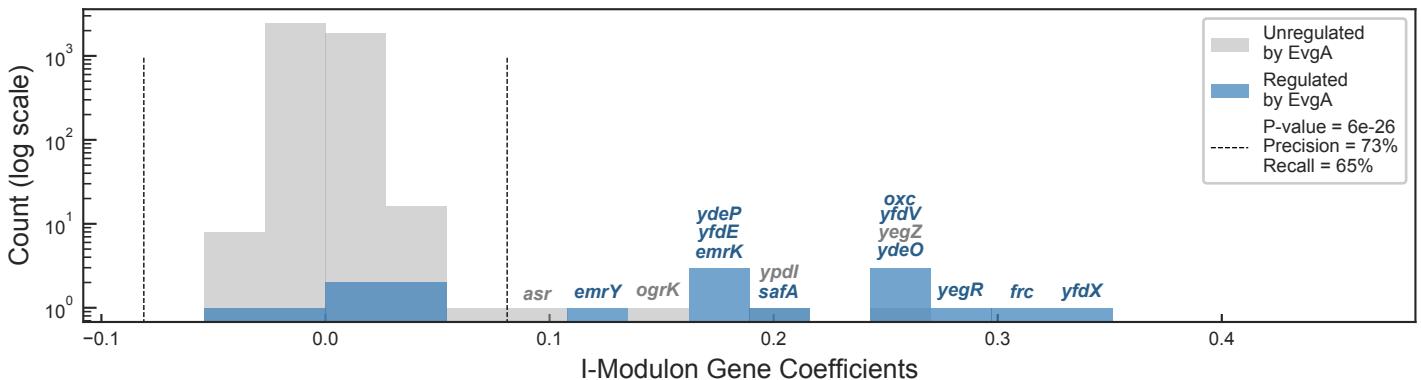
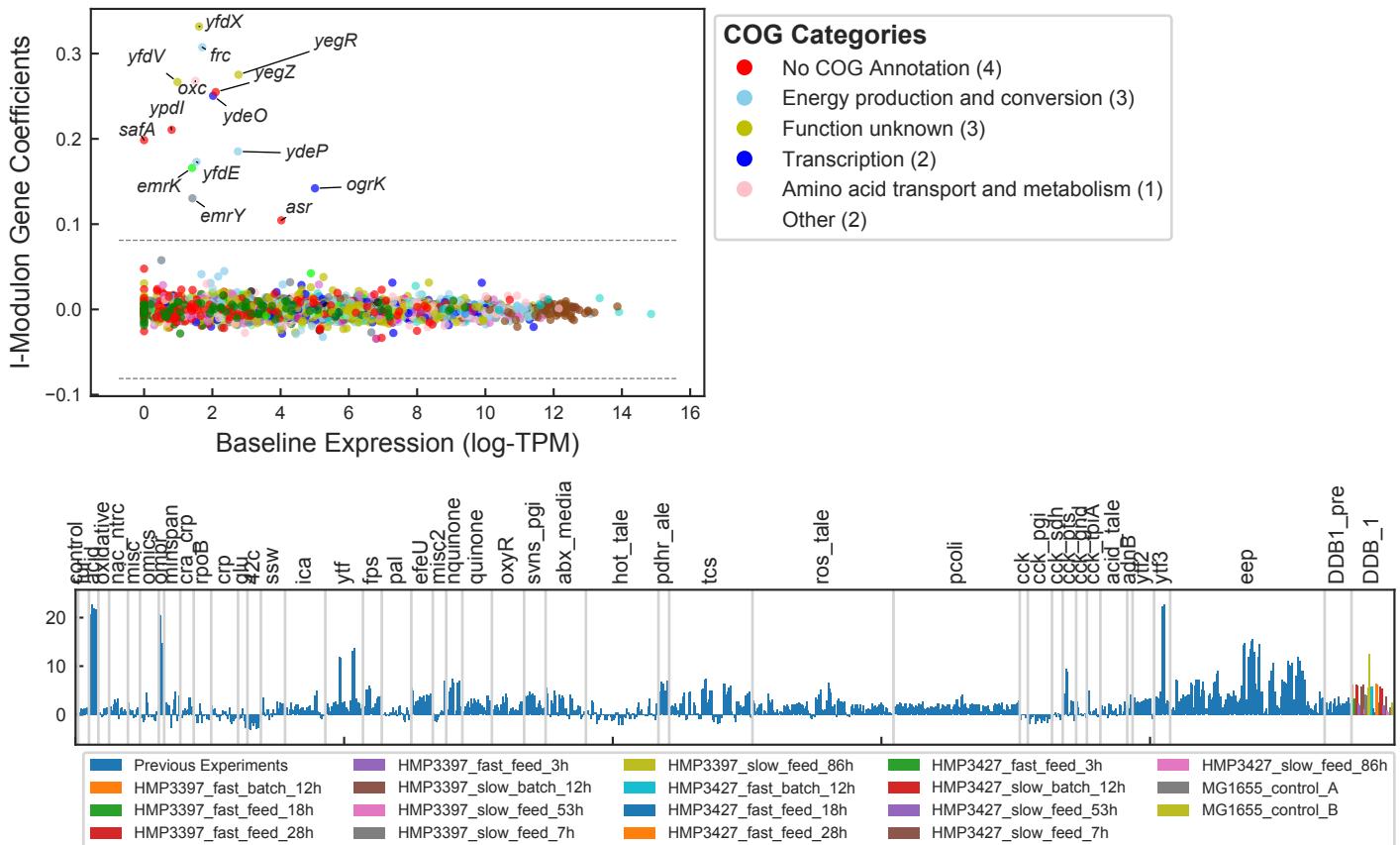


EEP – deletions I-Modulon



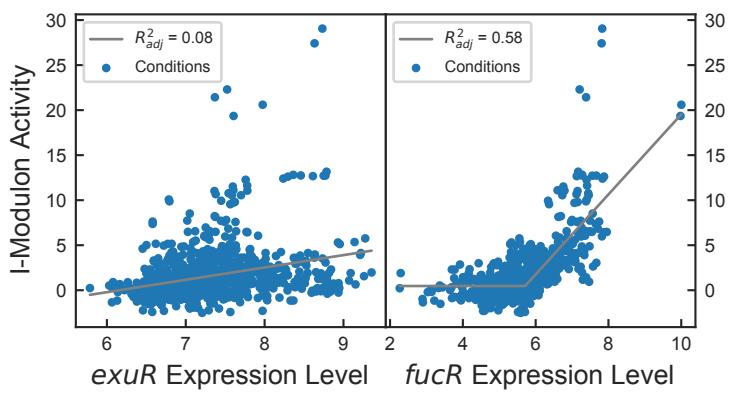
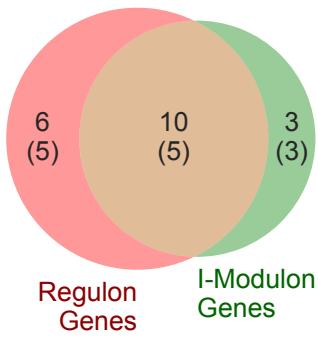
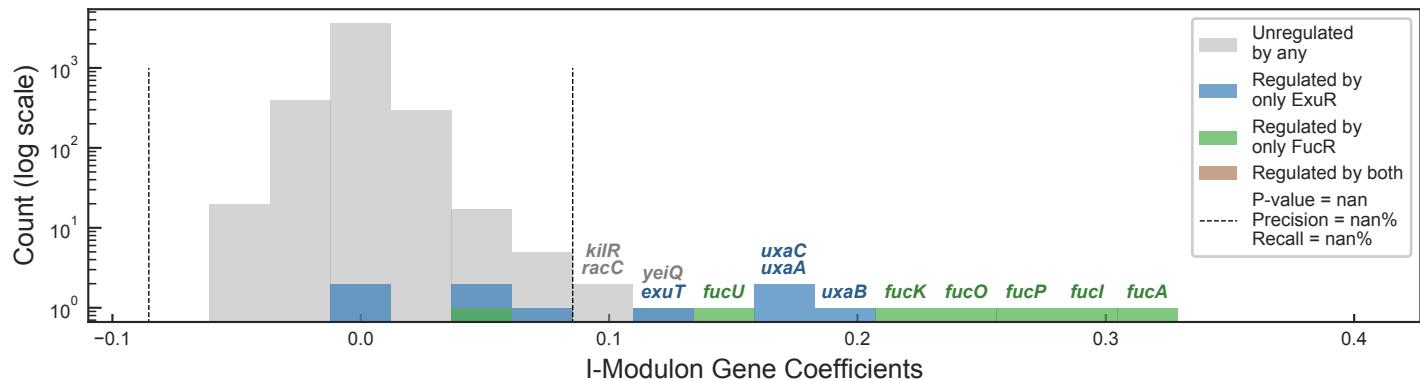
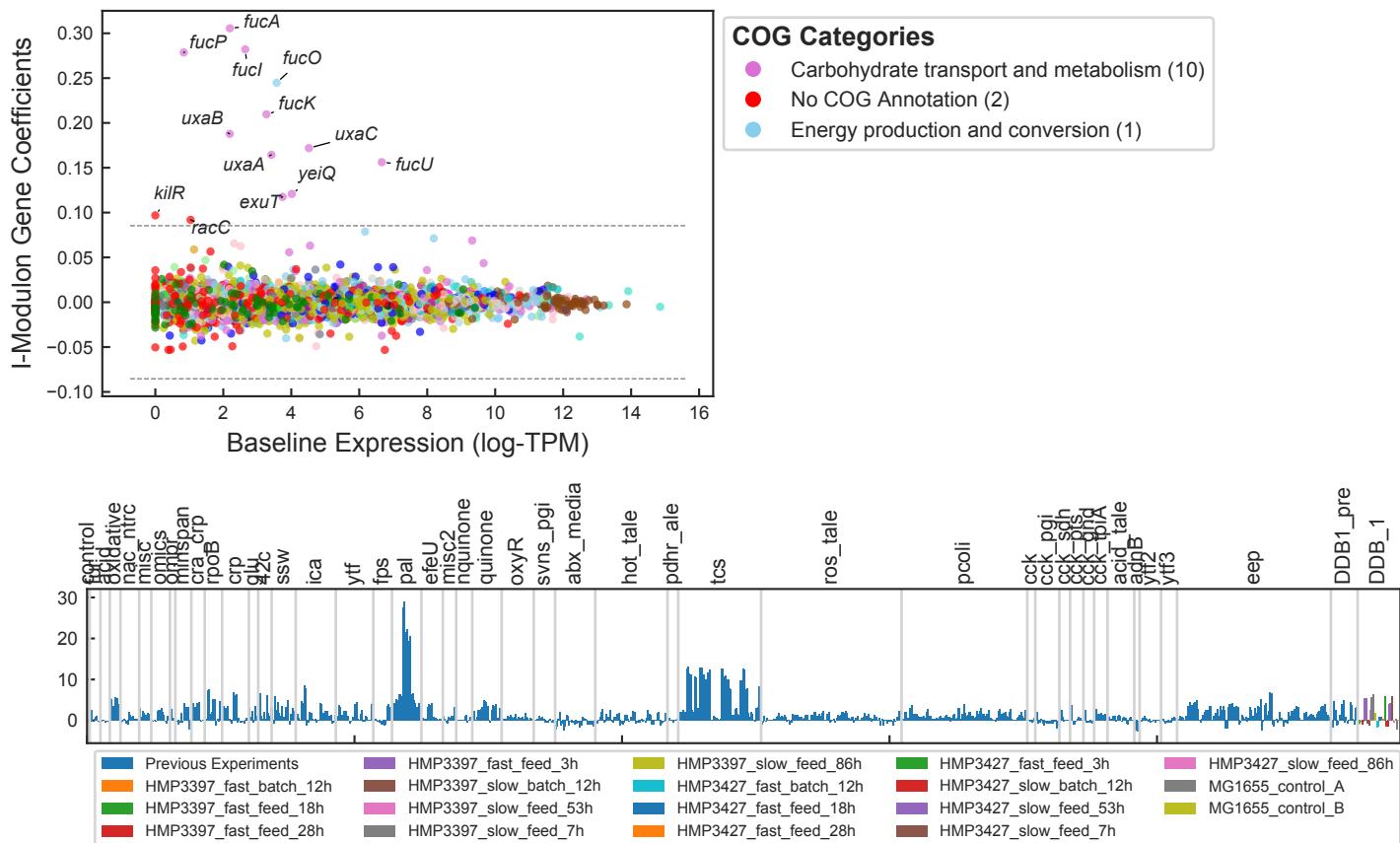
EvgA I-Modulon

Regulated by: evgA

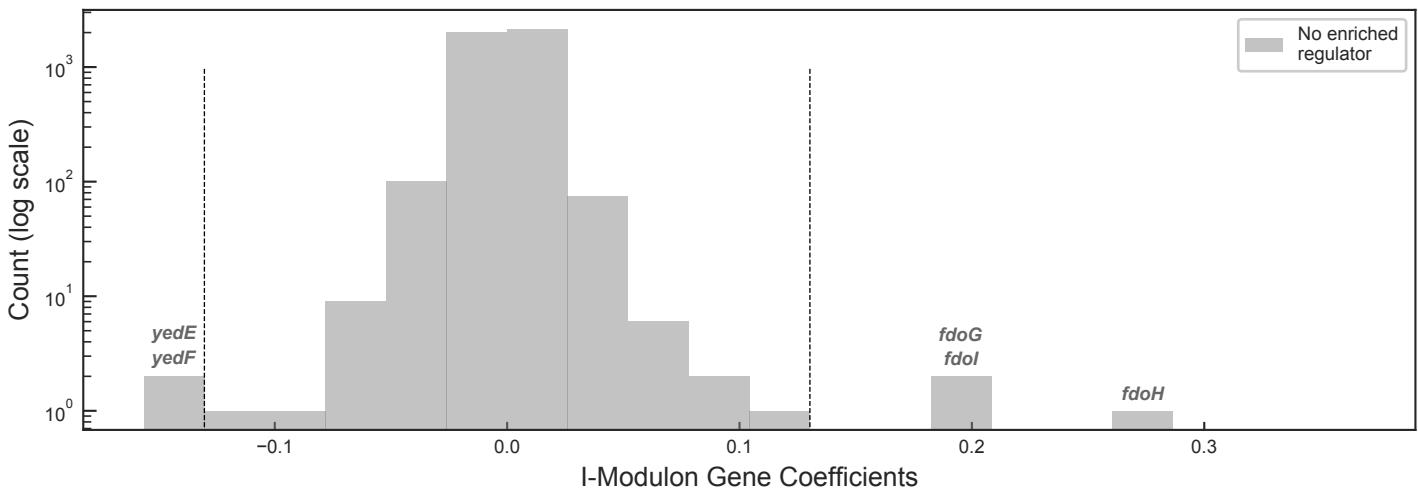
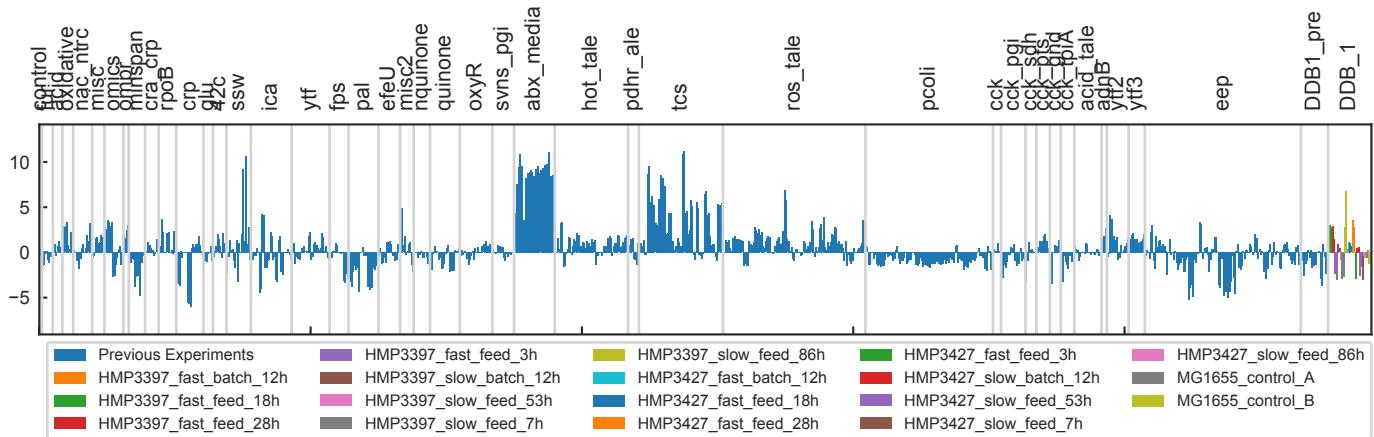
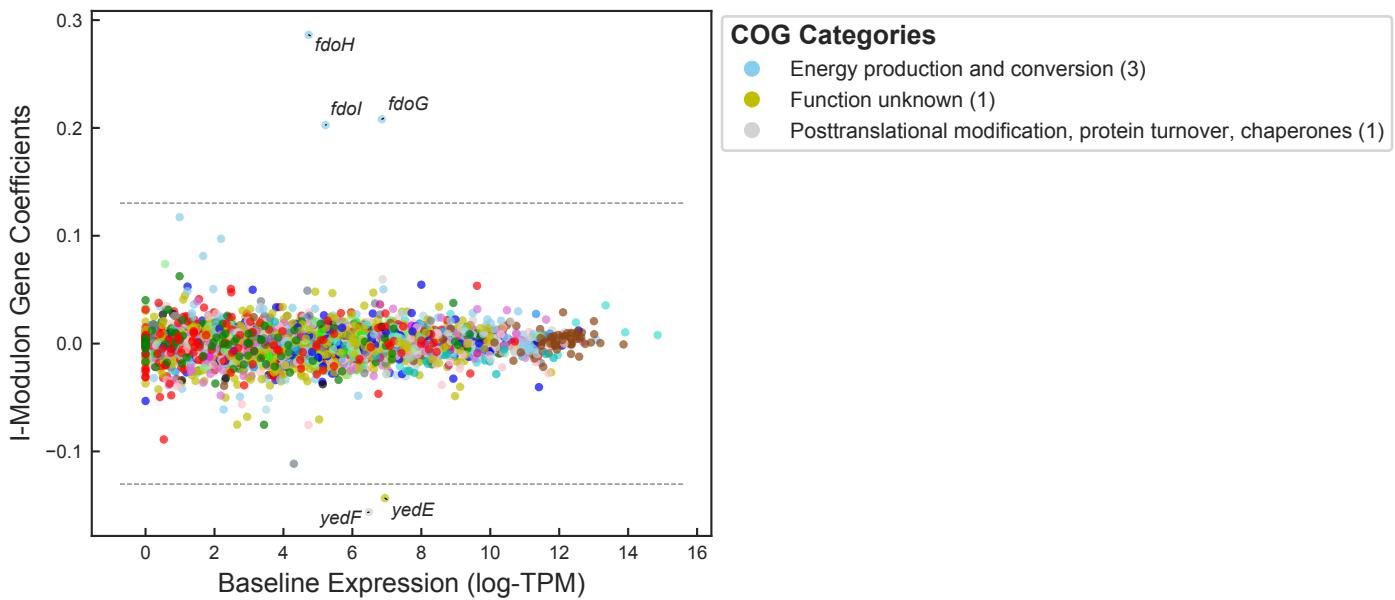


ExuR/FucR I-Modulon

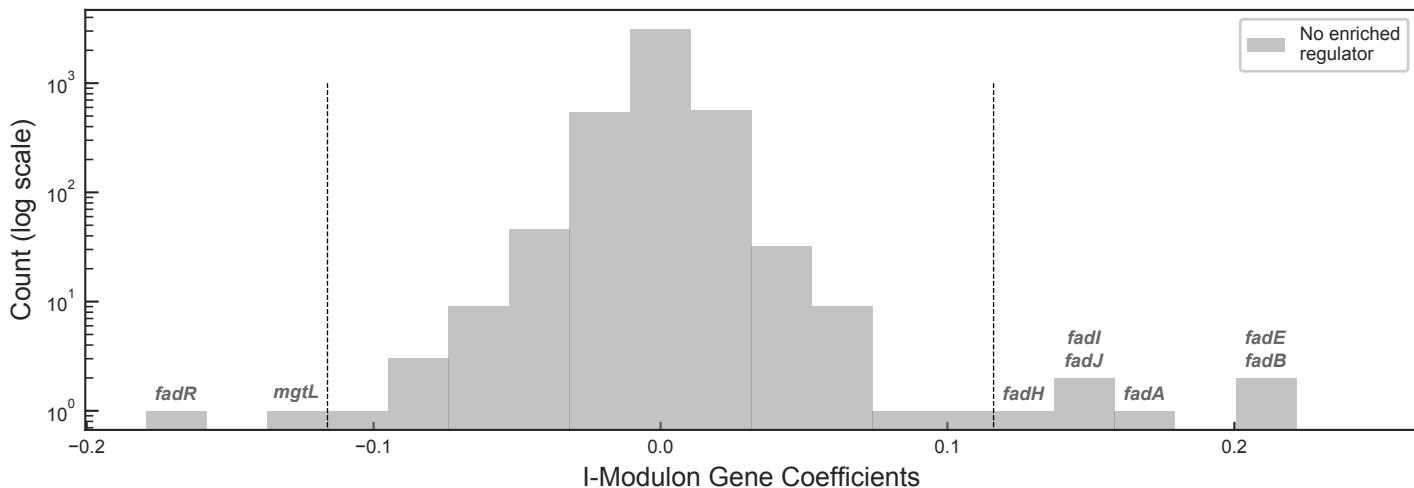
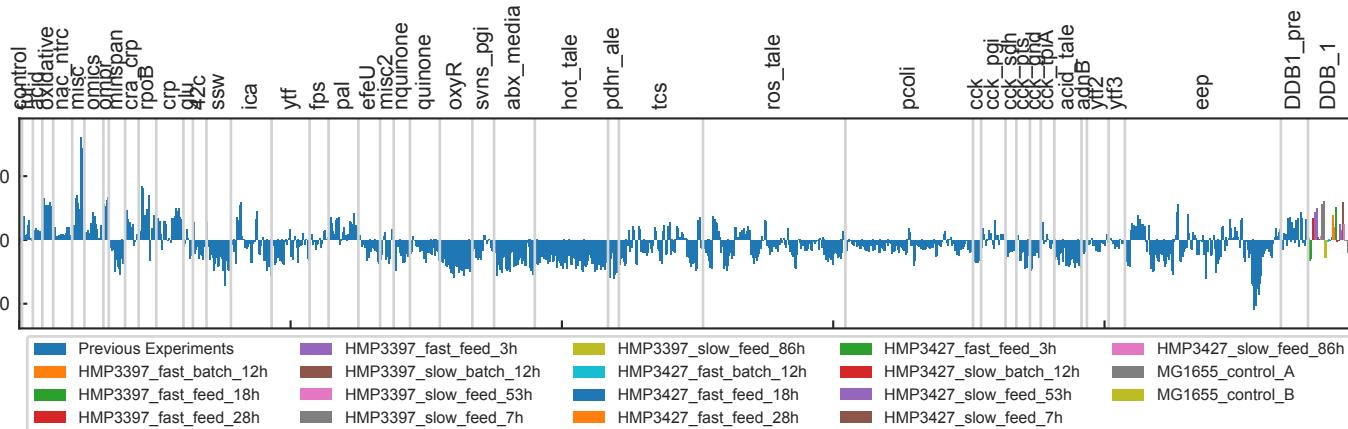
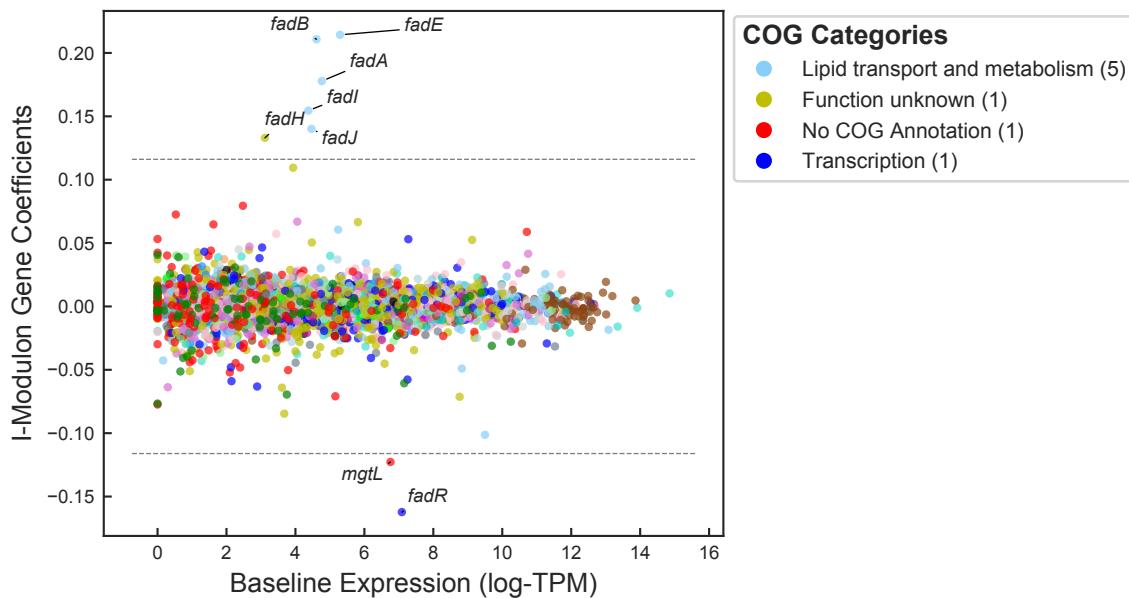
Regulated by: exuR/fucR



FDH – O I-Modulon

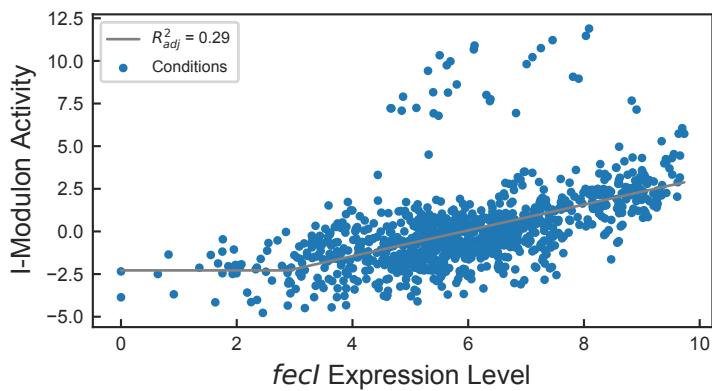
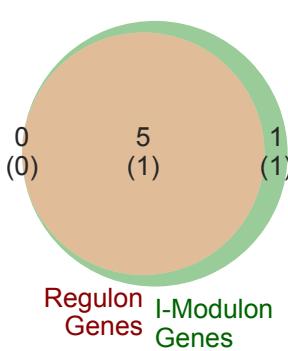
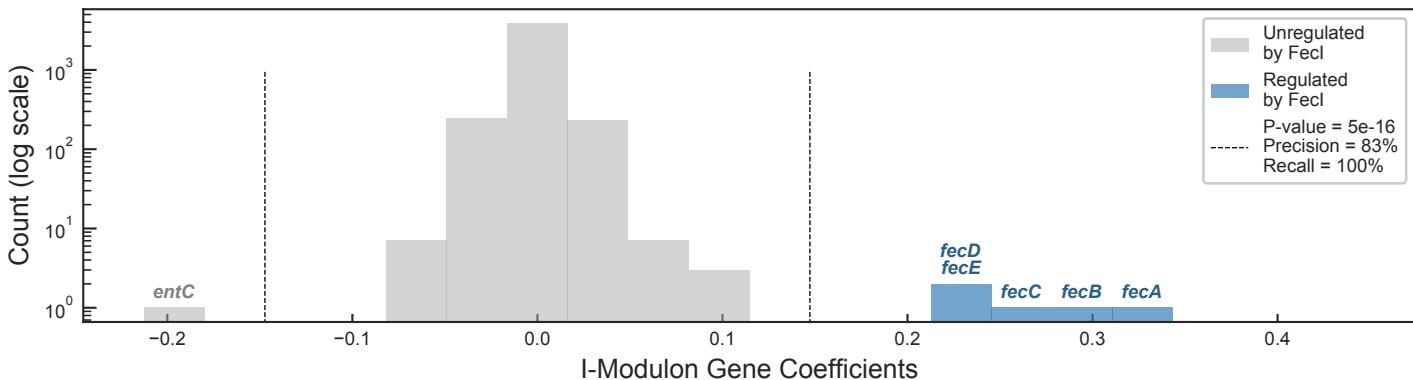
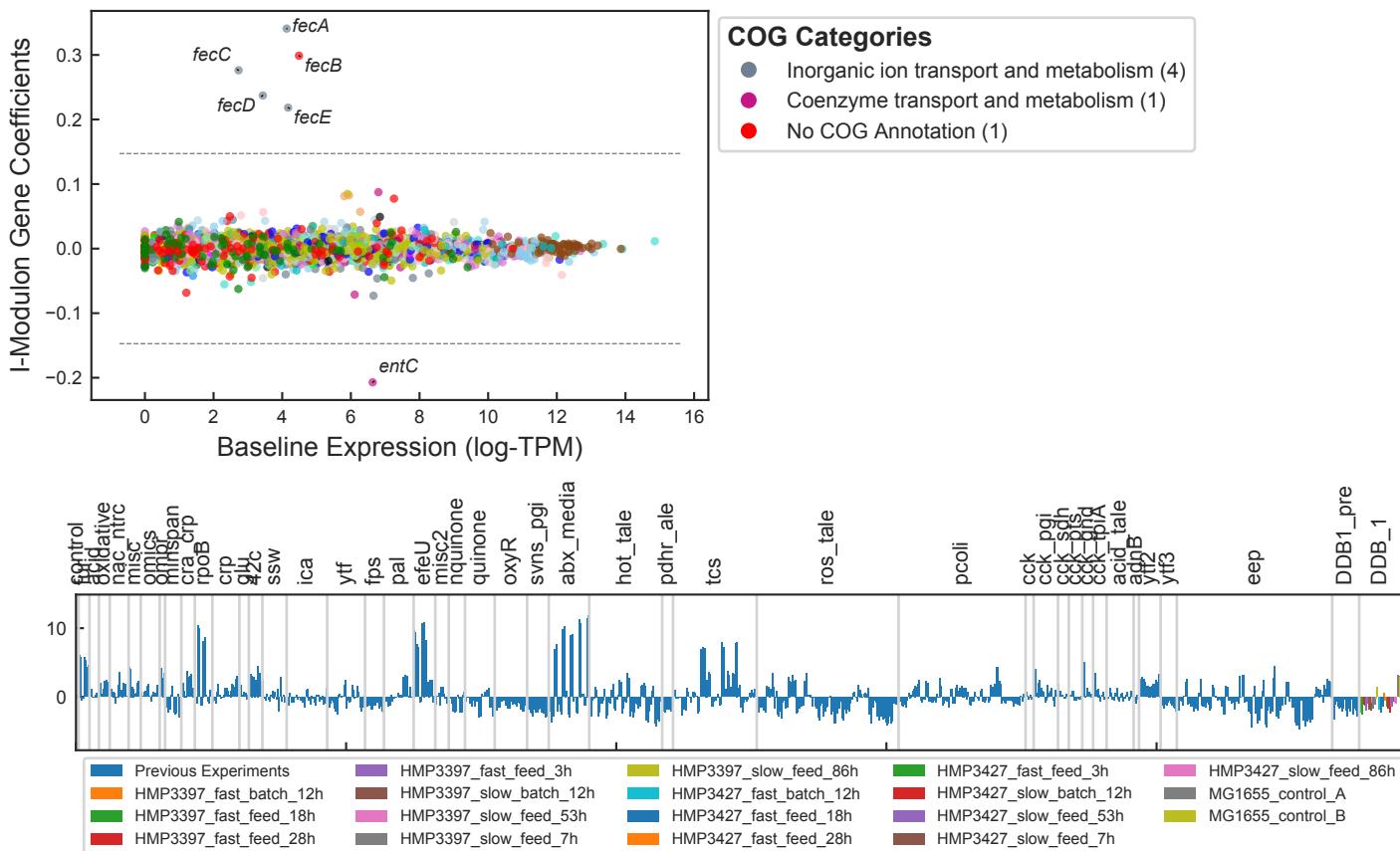


FadR I-Modulon



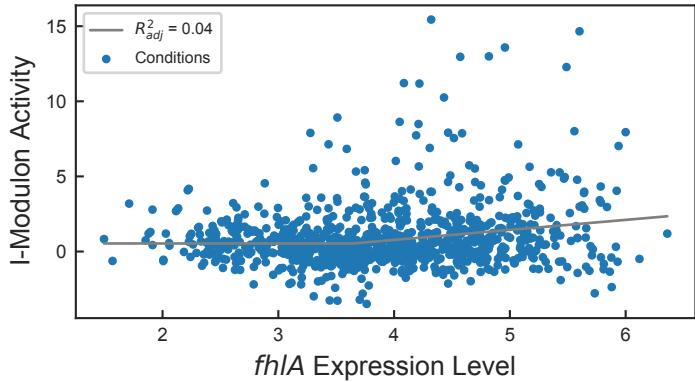
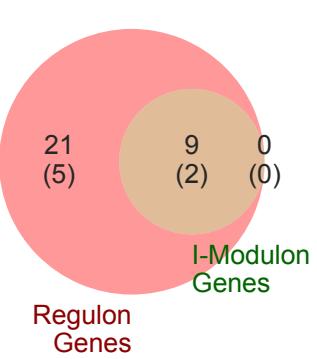
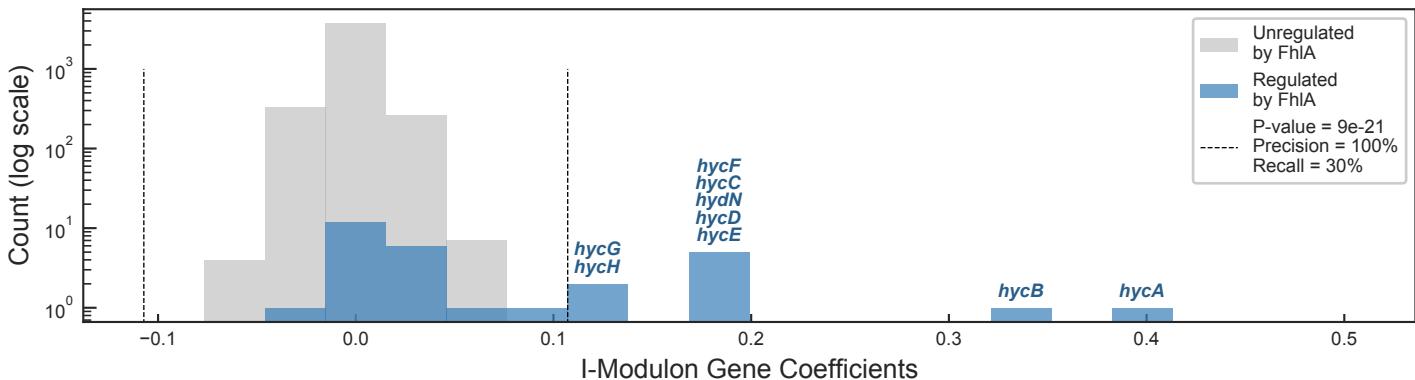
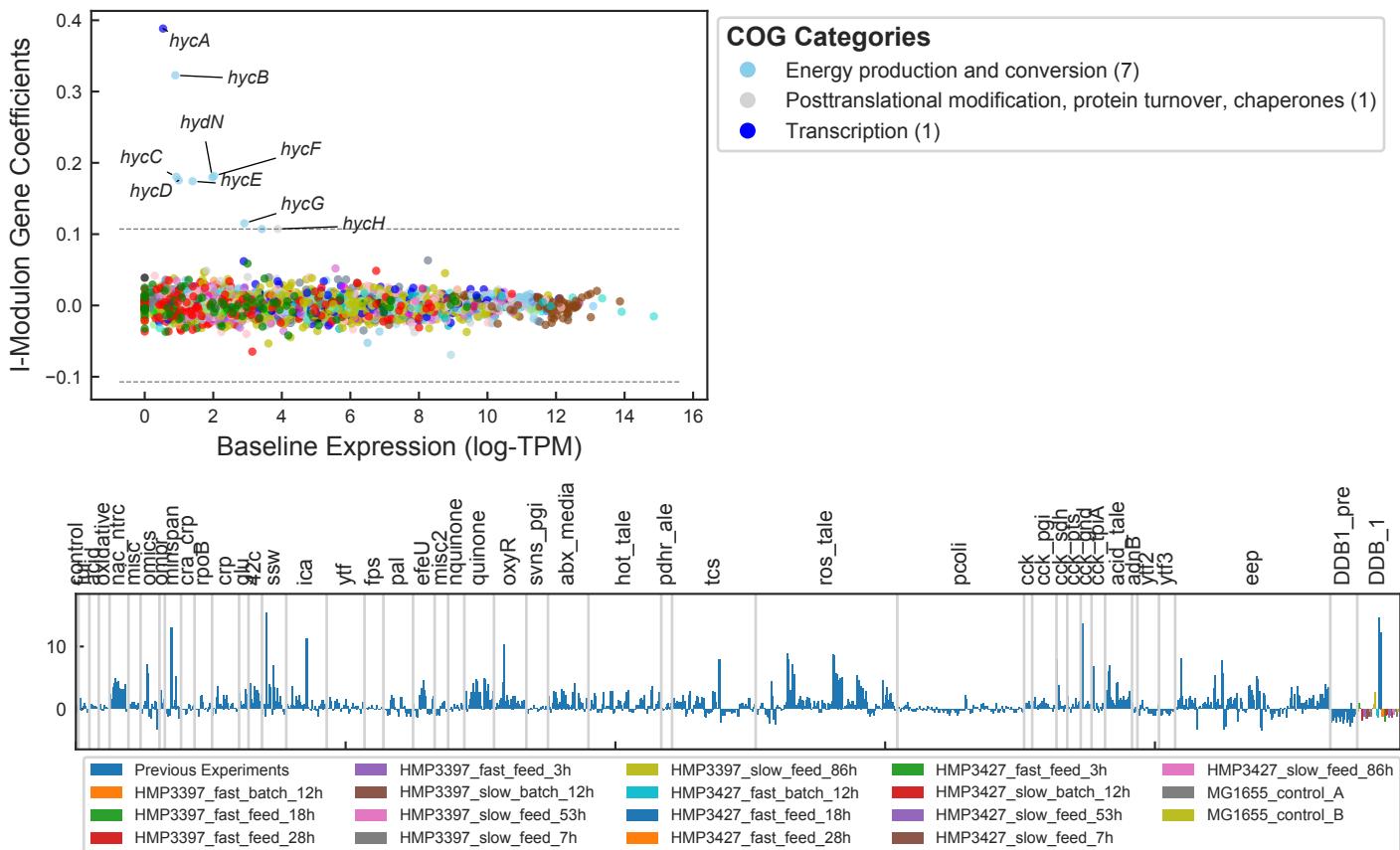
FecI I-Modulon

Regulated by: fecI

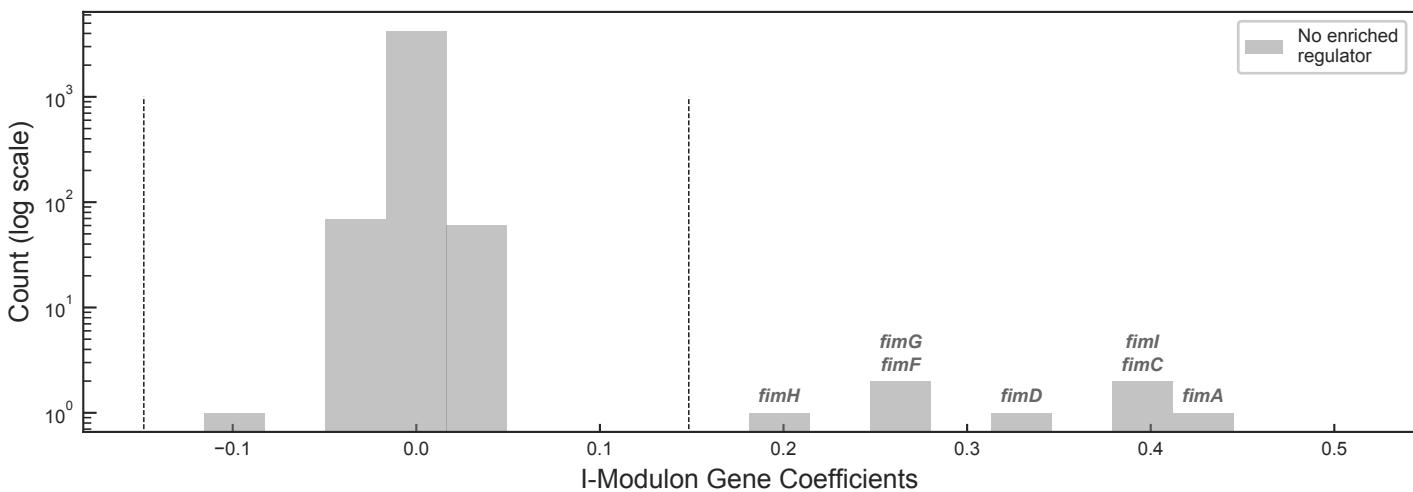
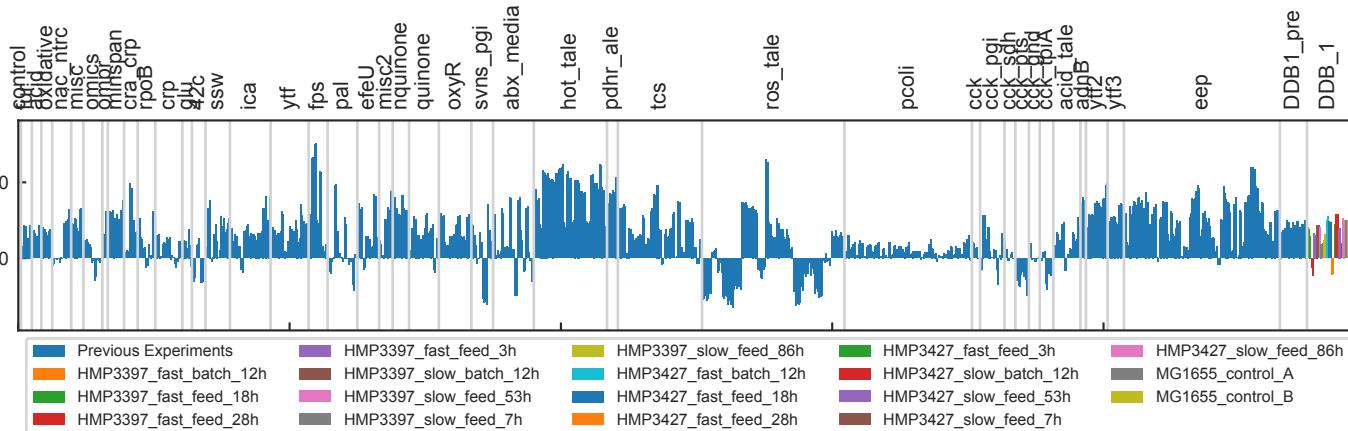
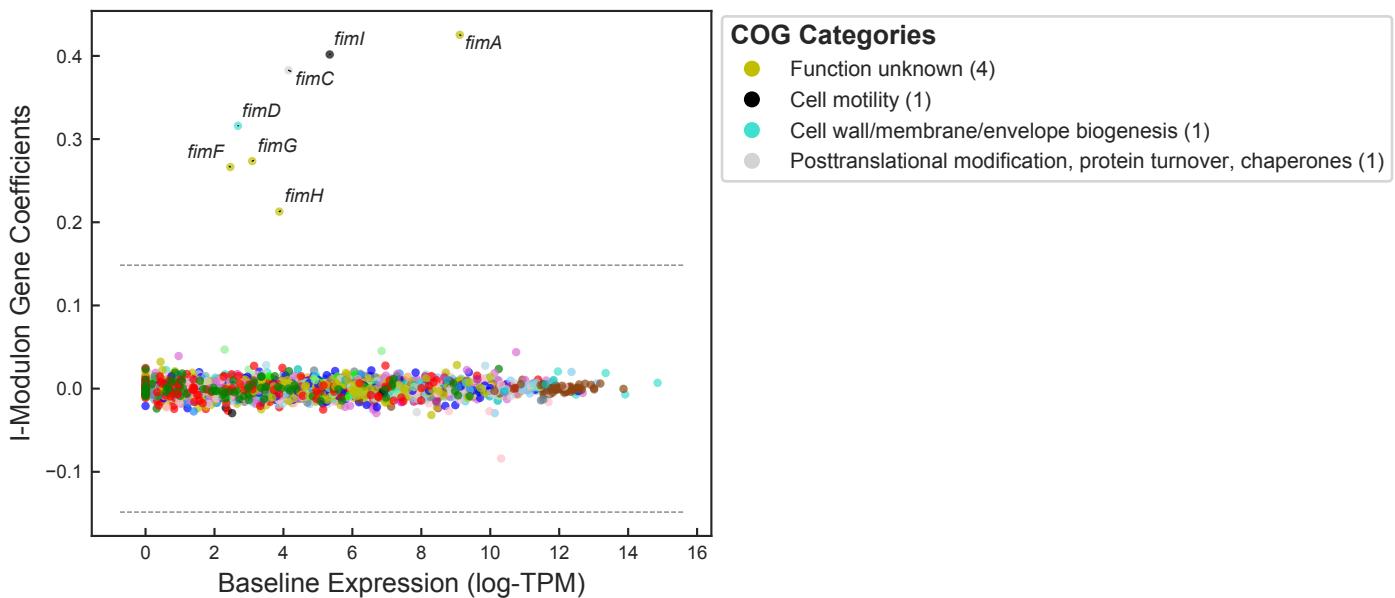


FhlA I-Modulon

Regulated by: fhlA

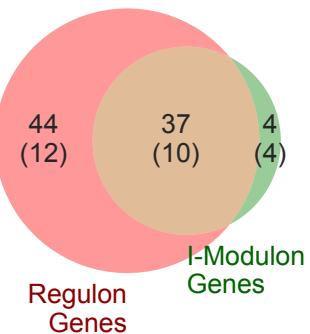
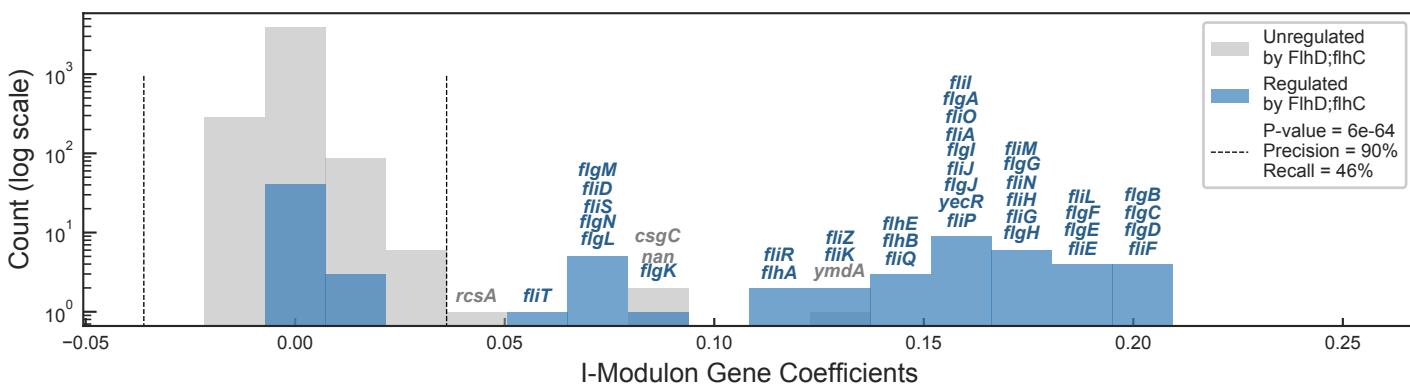
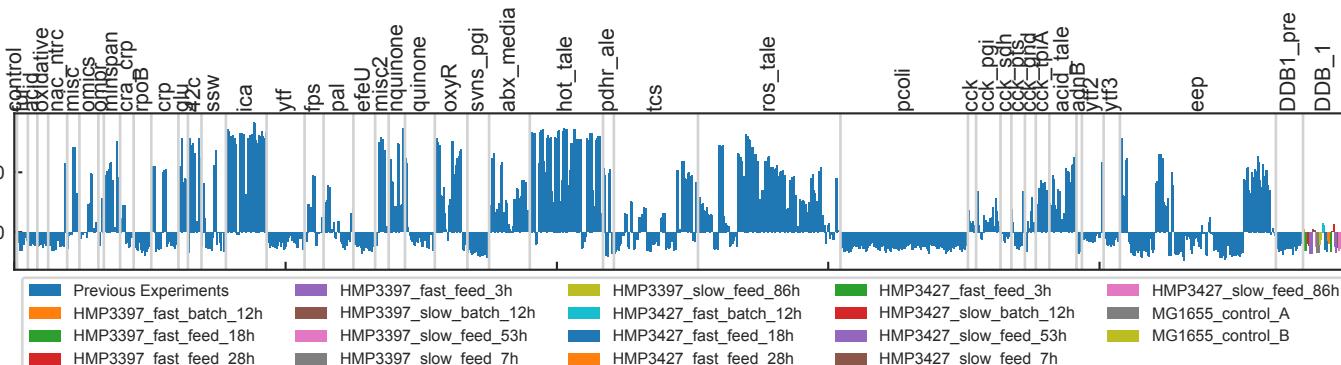
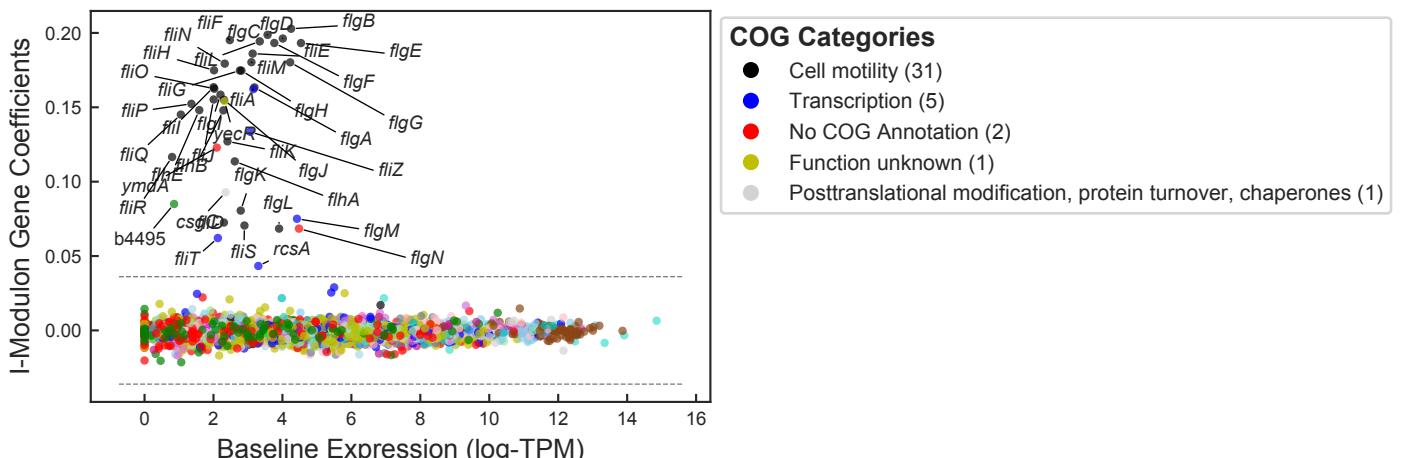


Fimbriae I-Modulon



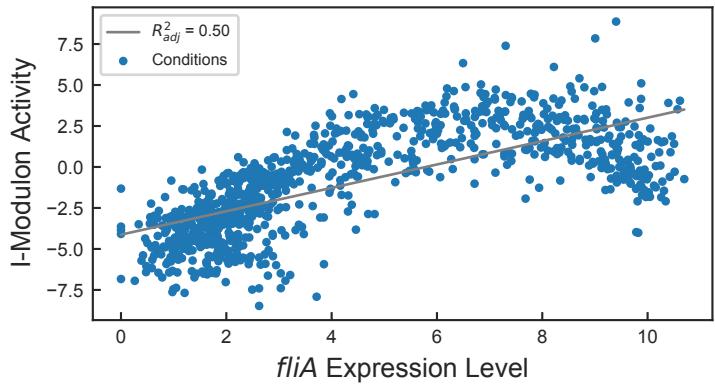
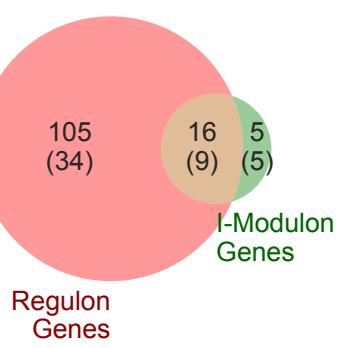
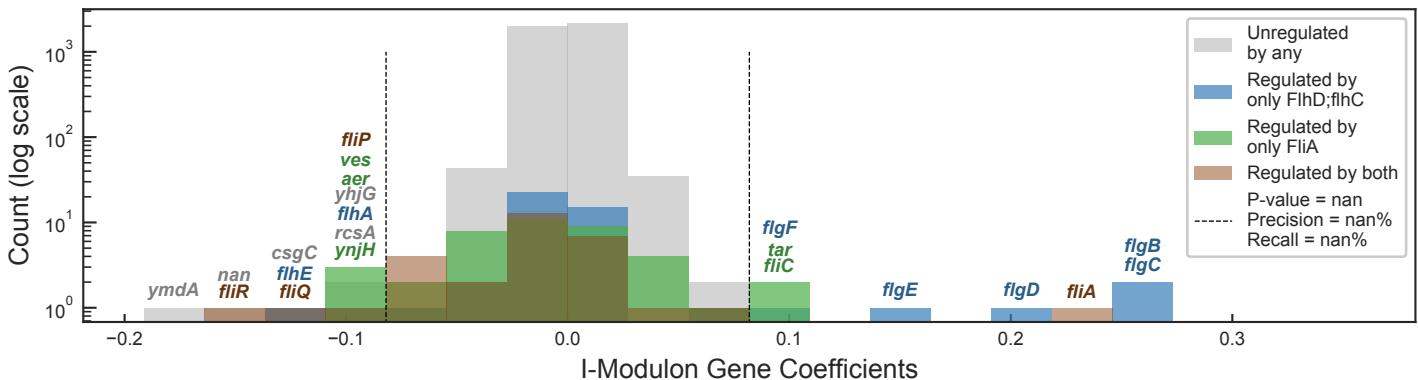
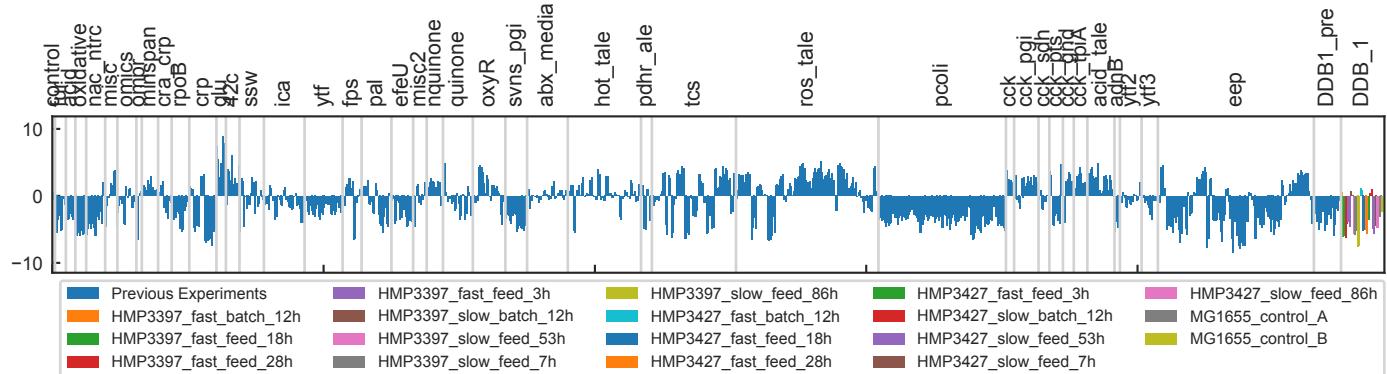
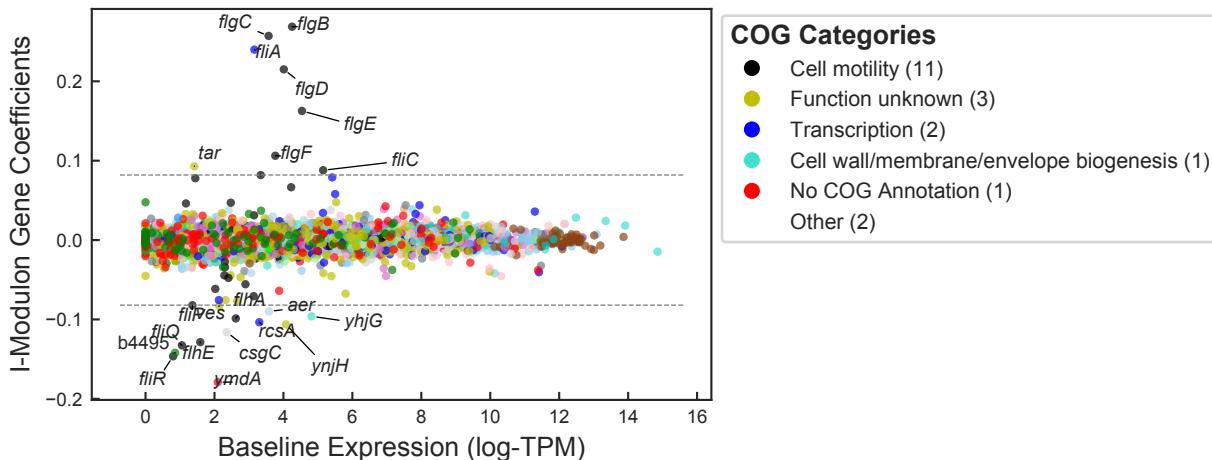
FlhDC I-Modulon

Regulated by: flhD;flhC



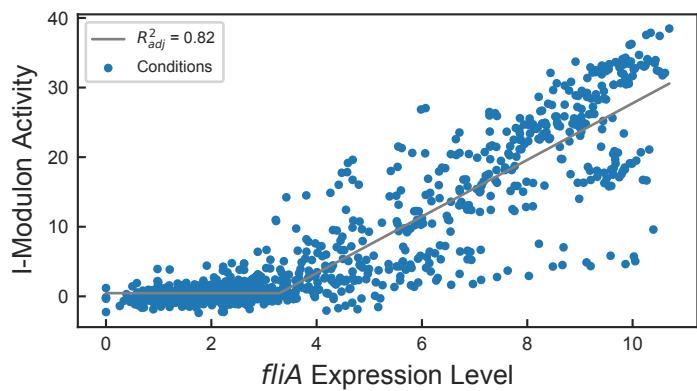
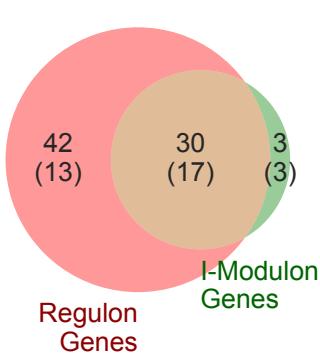
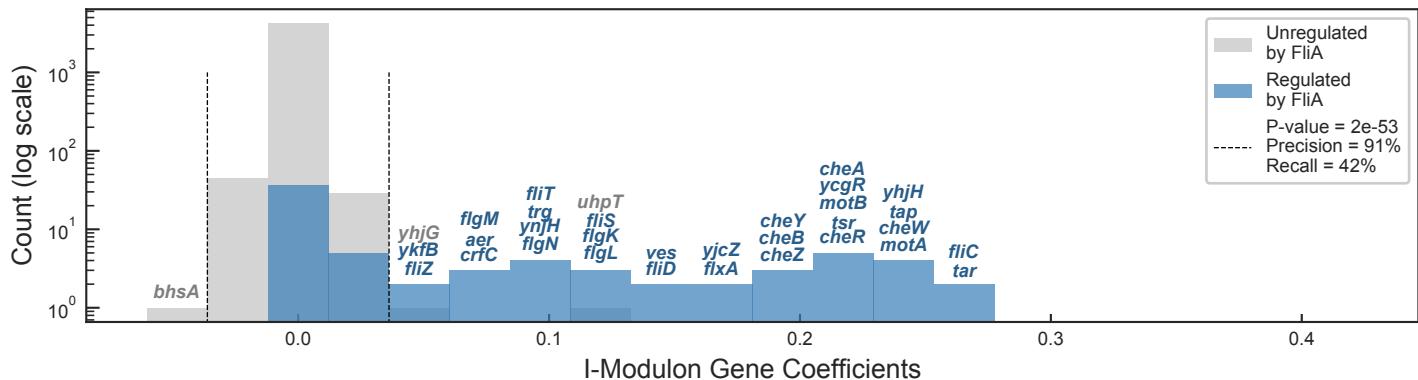
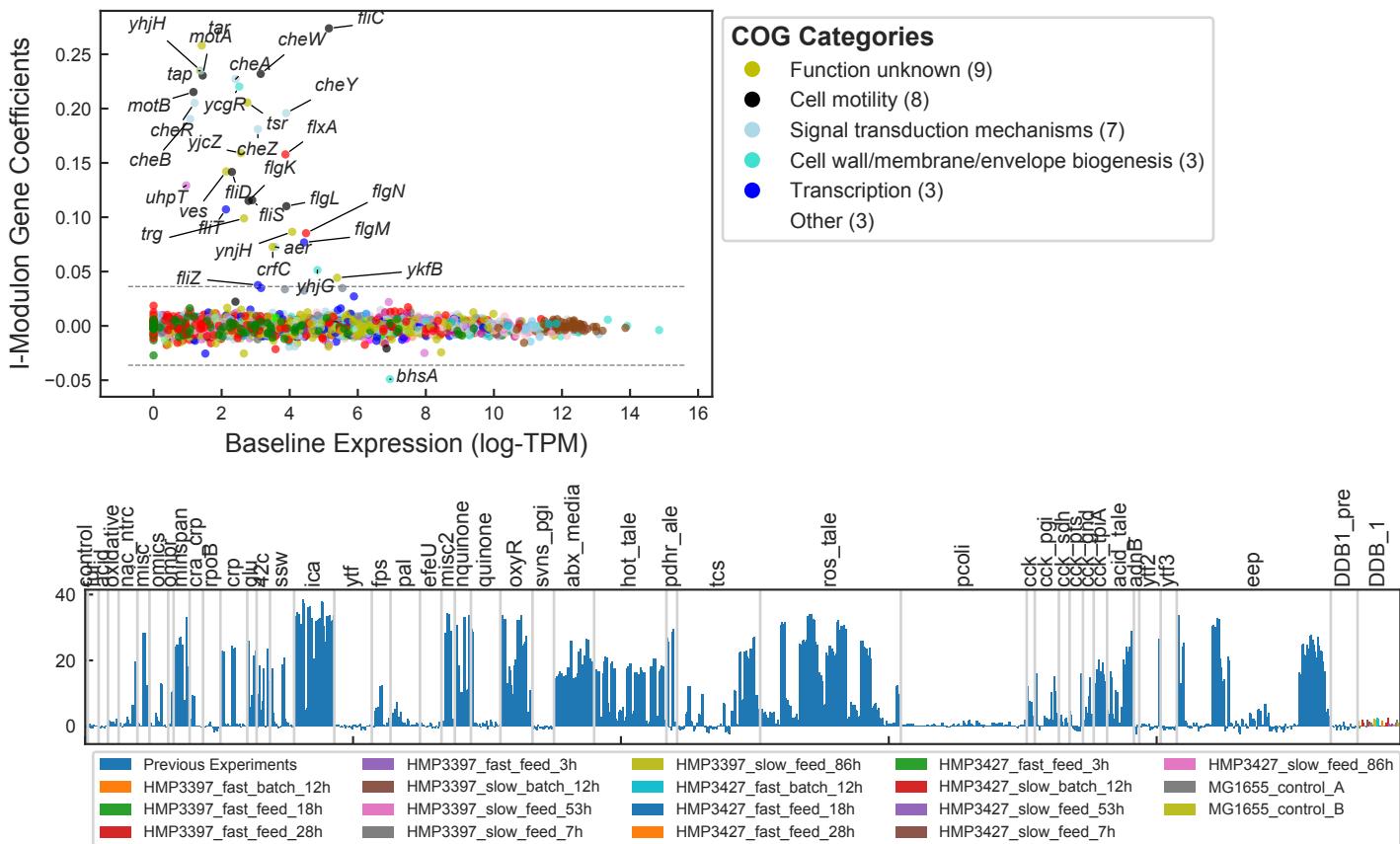
FlhDC/FliA I-Modulon

Regulated by: flhD;flhC/fliA



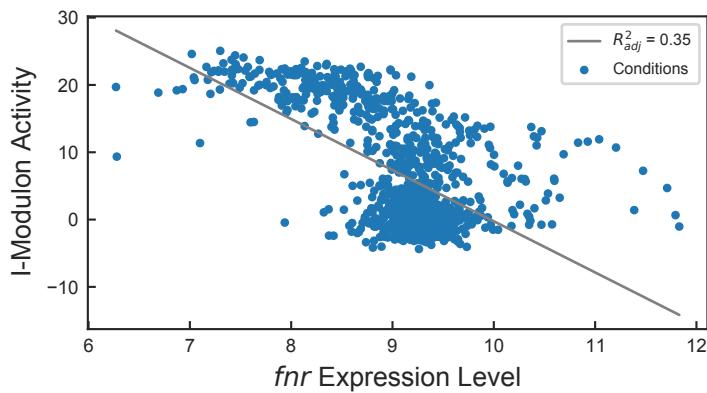
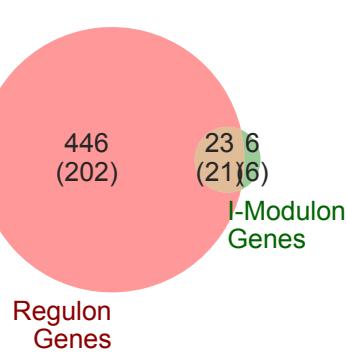
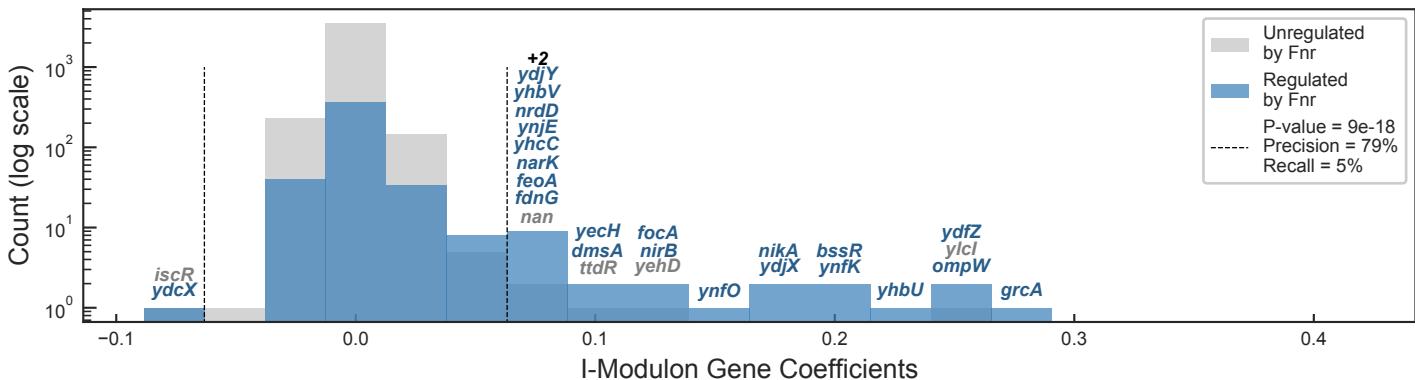
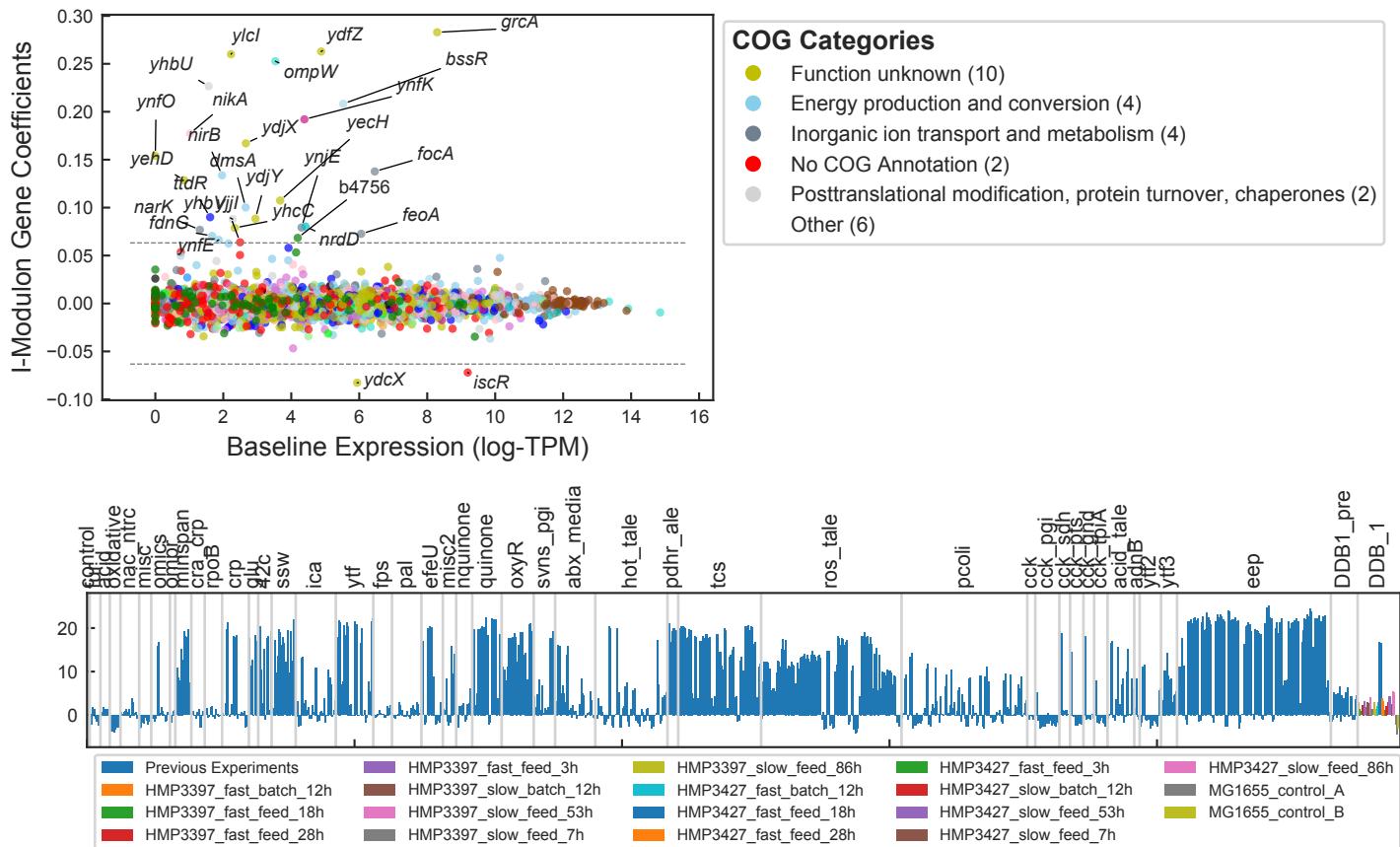
FliA I-Modulon

Regulated by: fliA



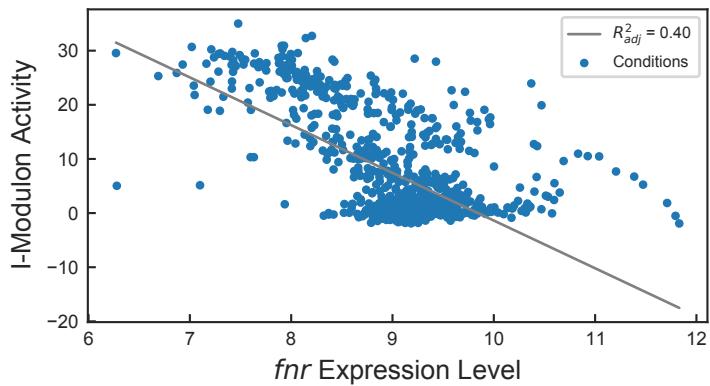
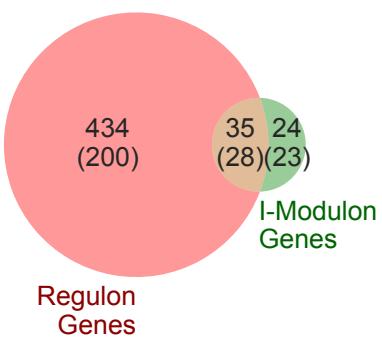
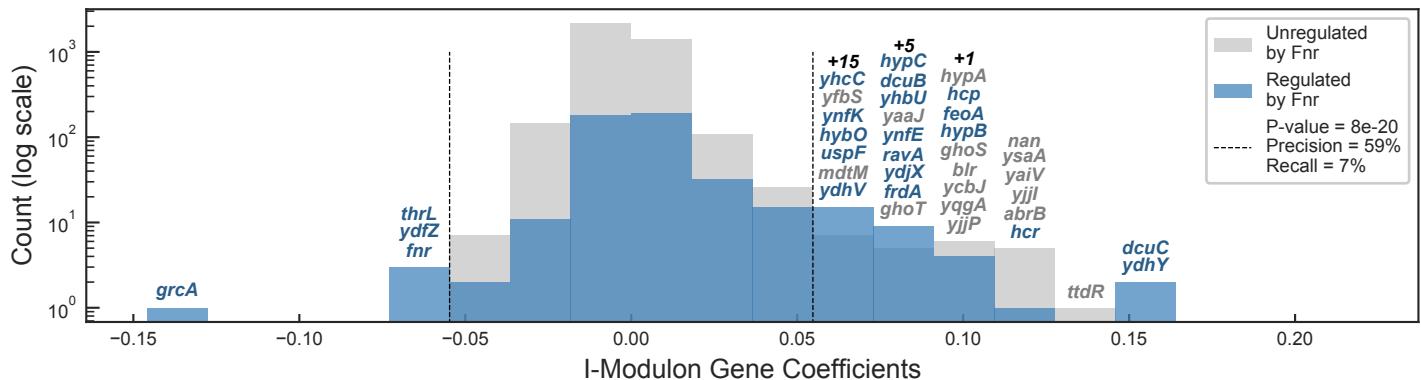
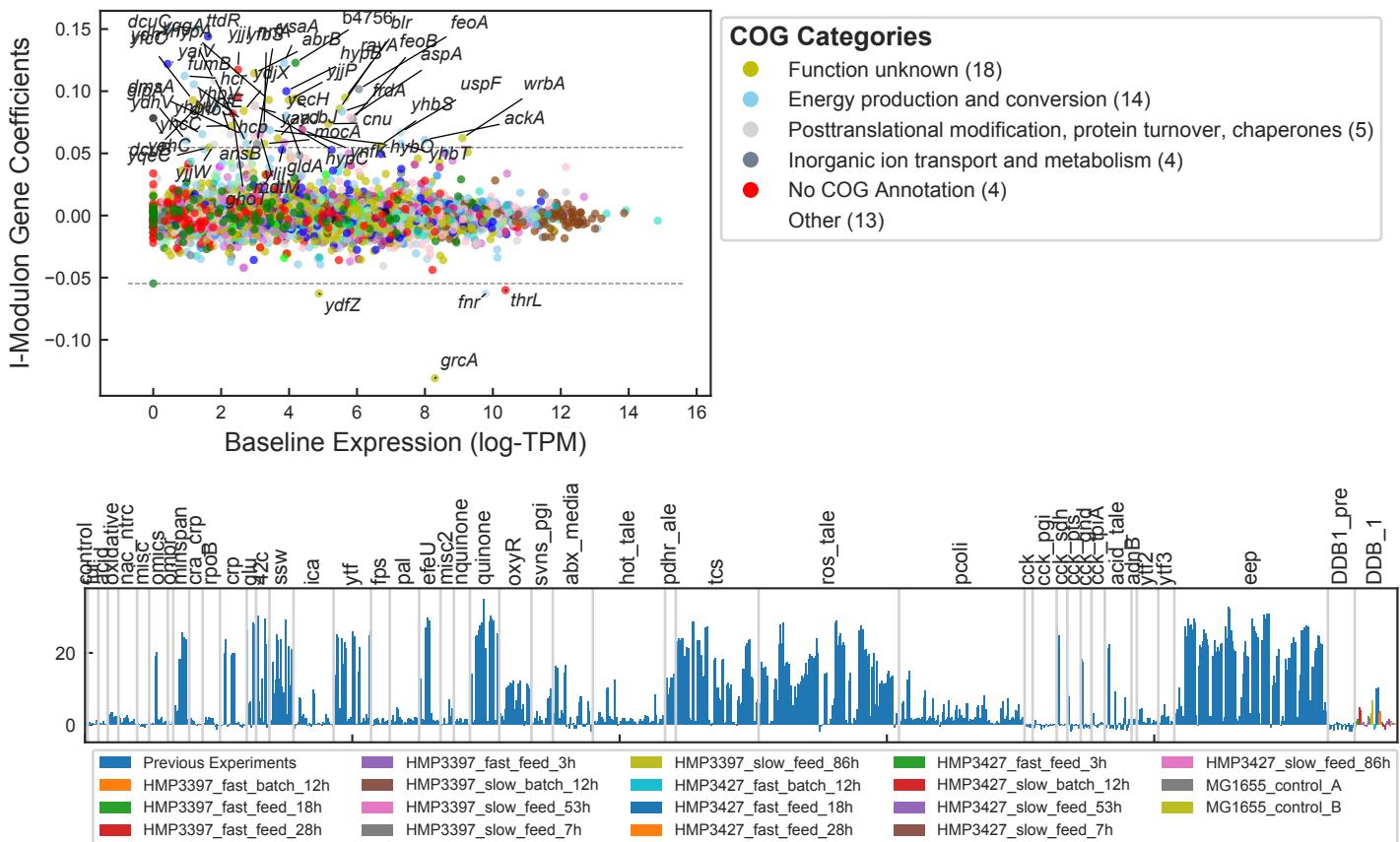
Fnr – 1 I-Modulon

Regulated by: fnr



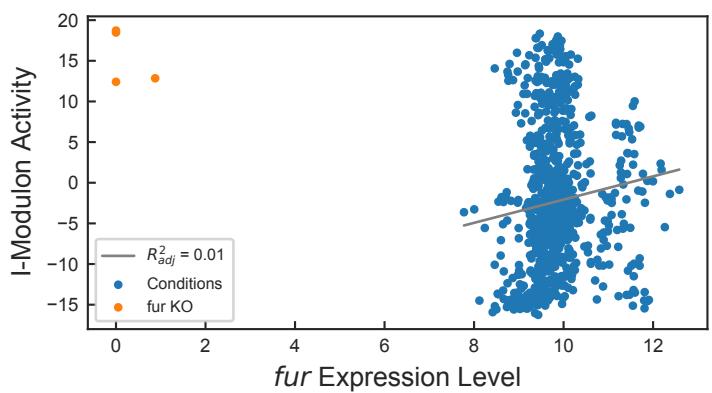
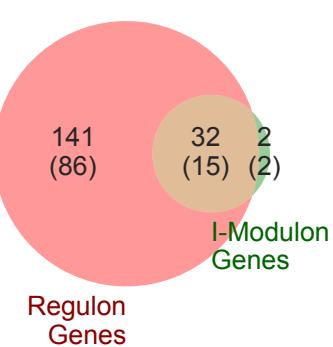
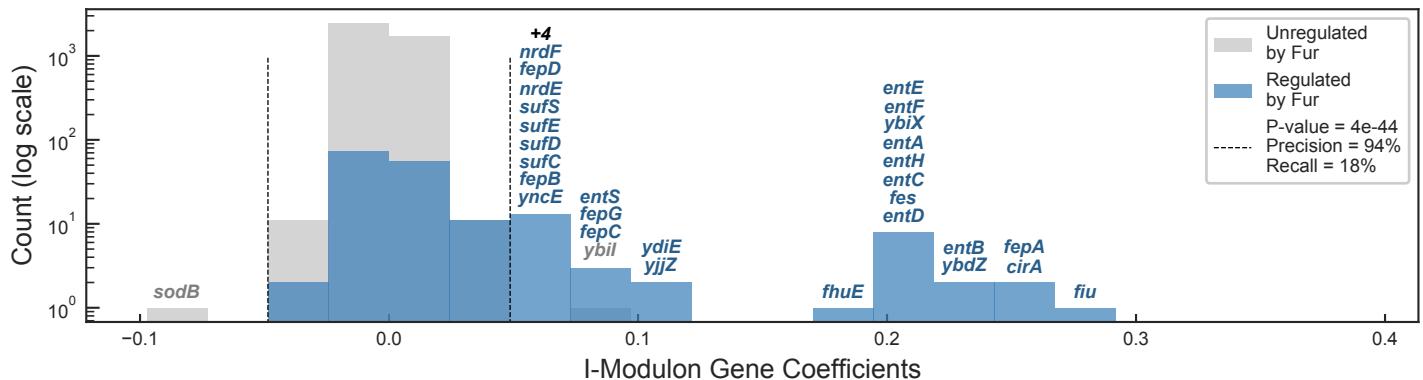
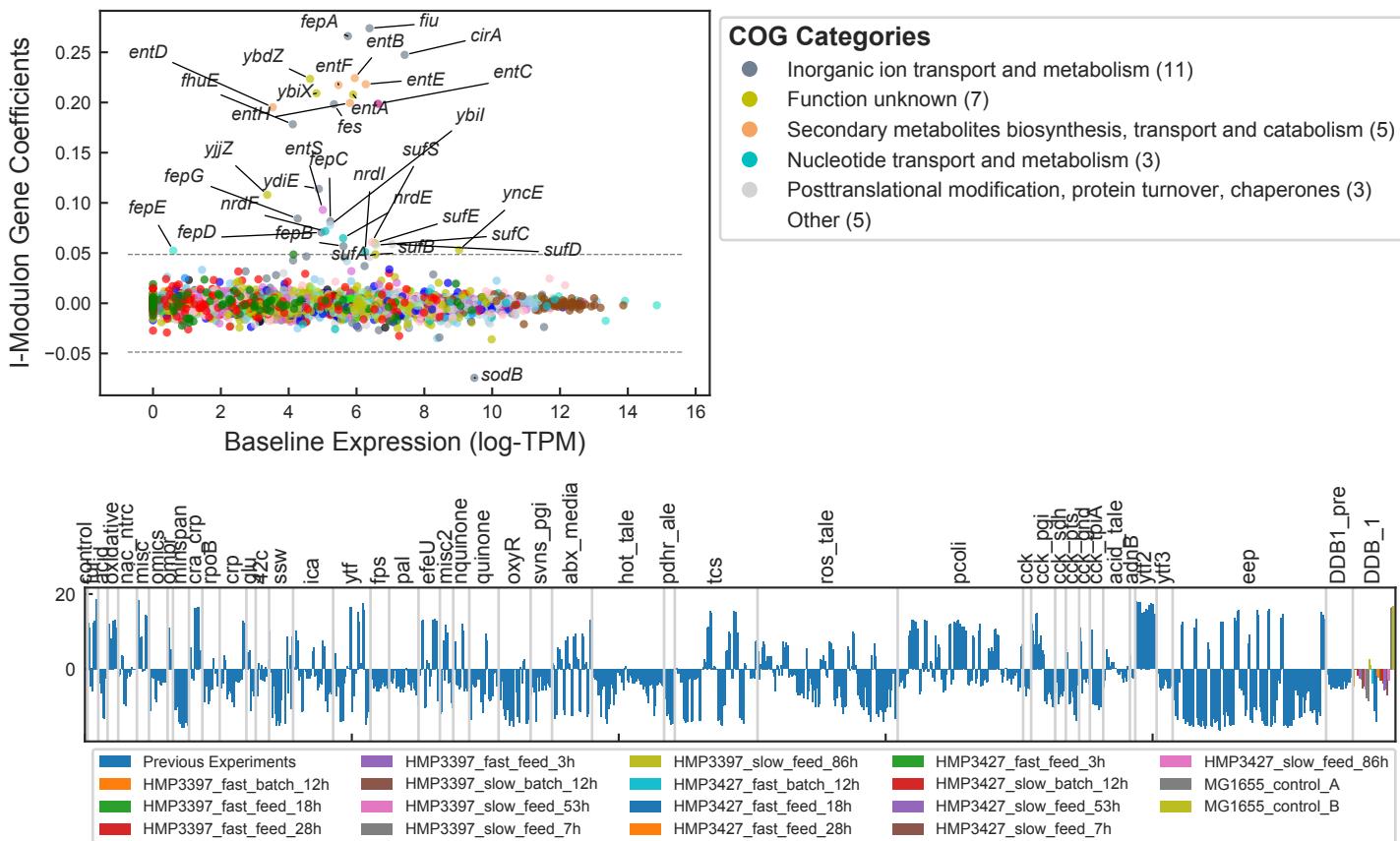
Fnr – 2 I-Modulon

Regulated by: fnr



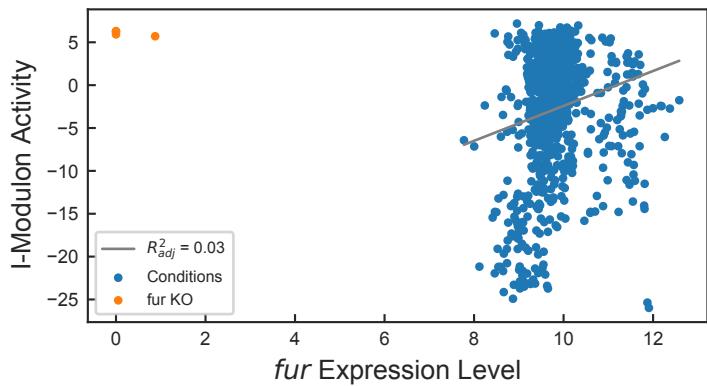
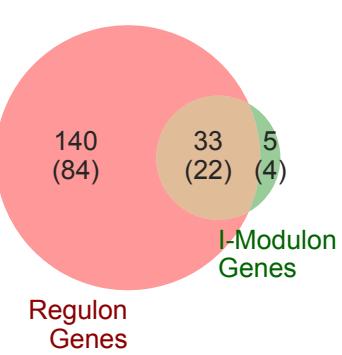
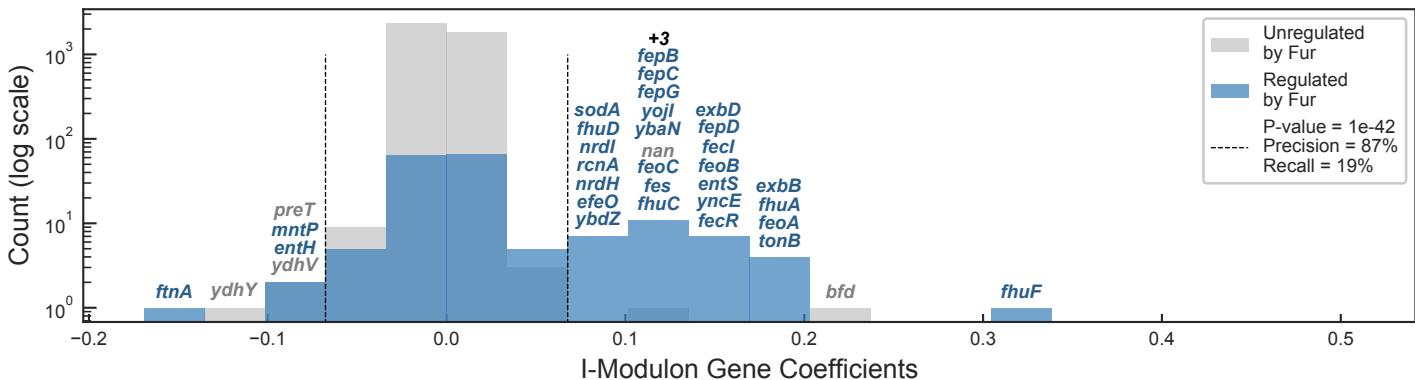
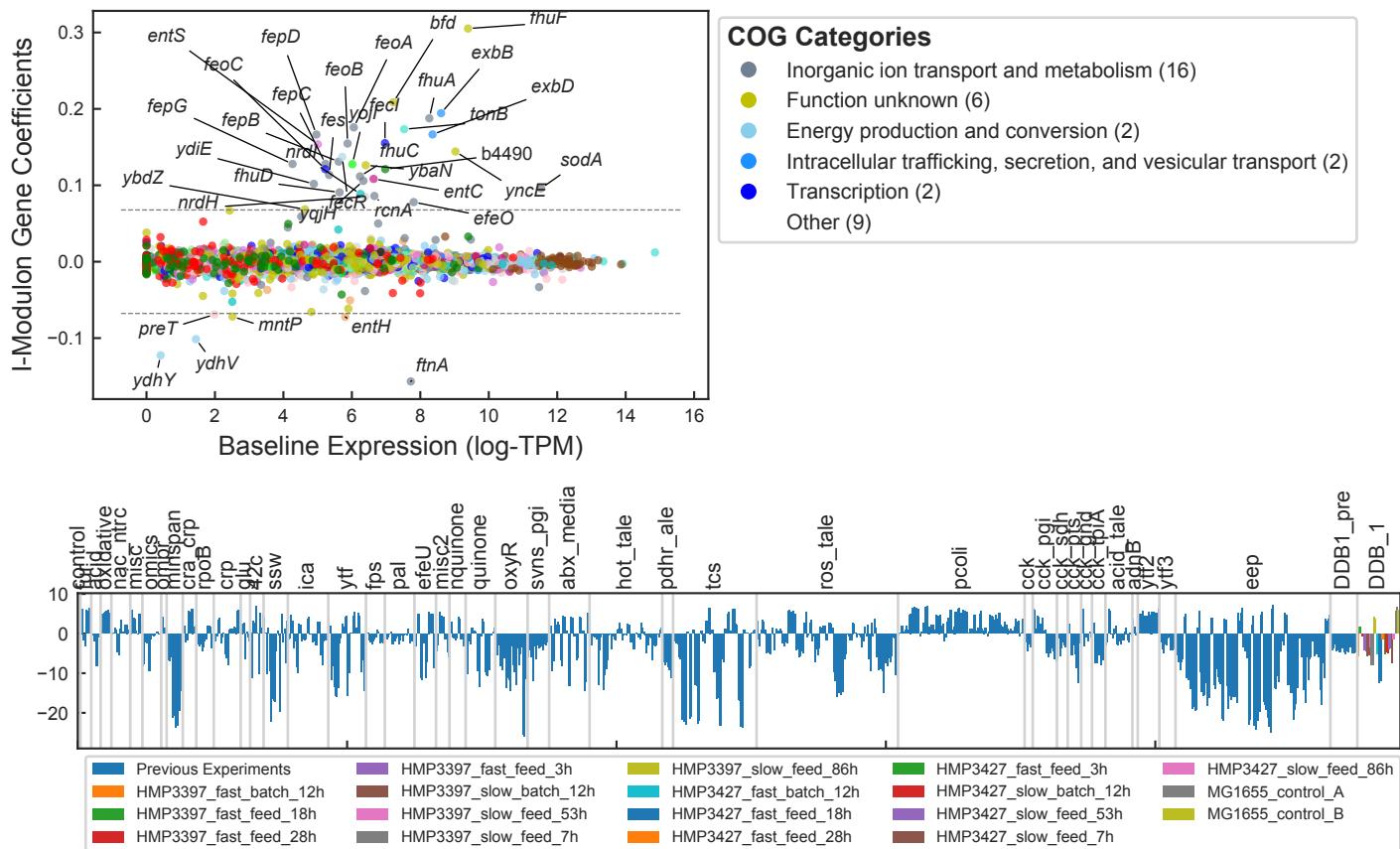
Fur – 1 I-Modulon

Regulated by: fur



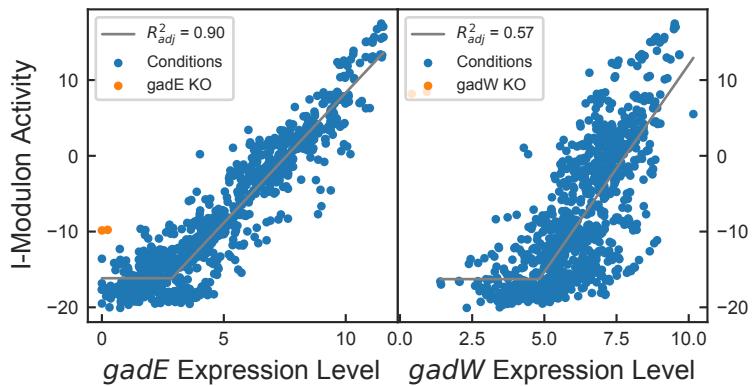
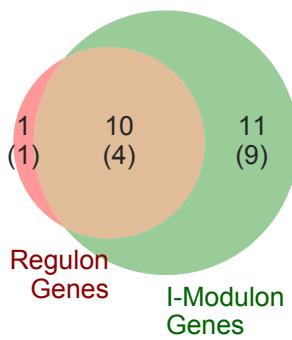
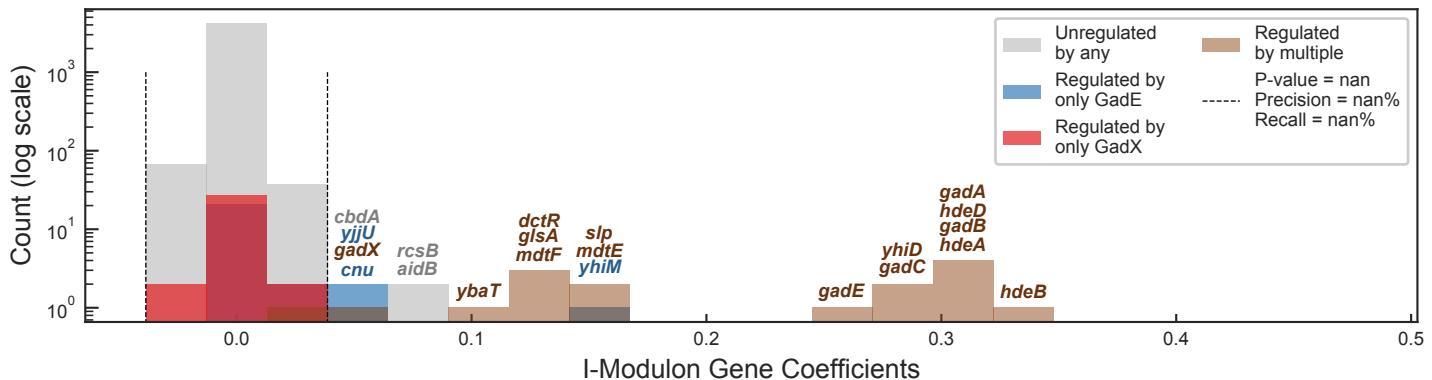
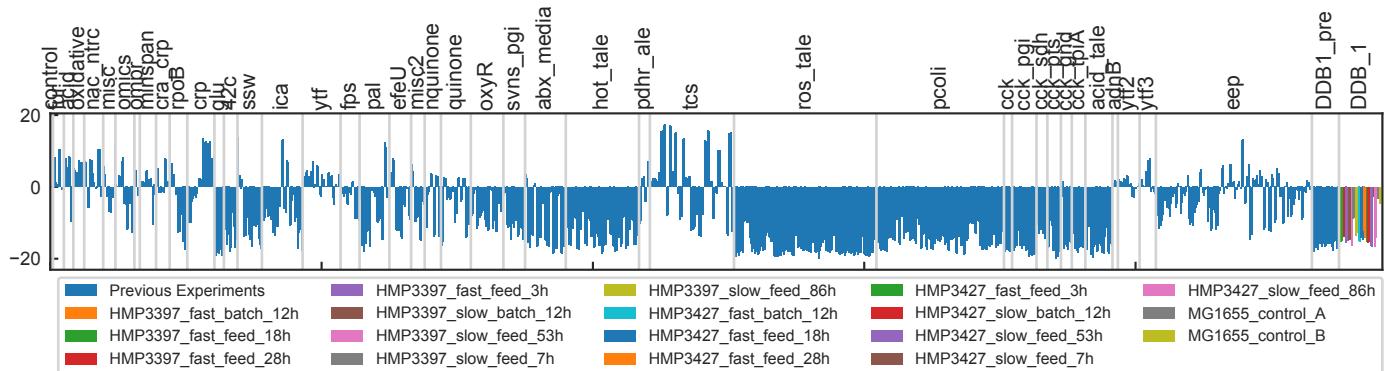
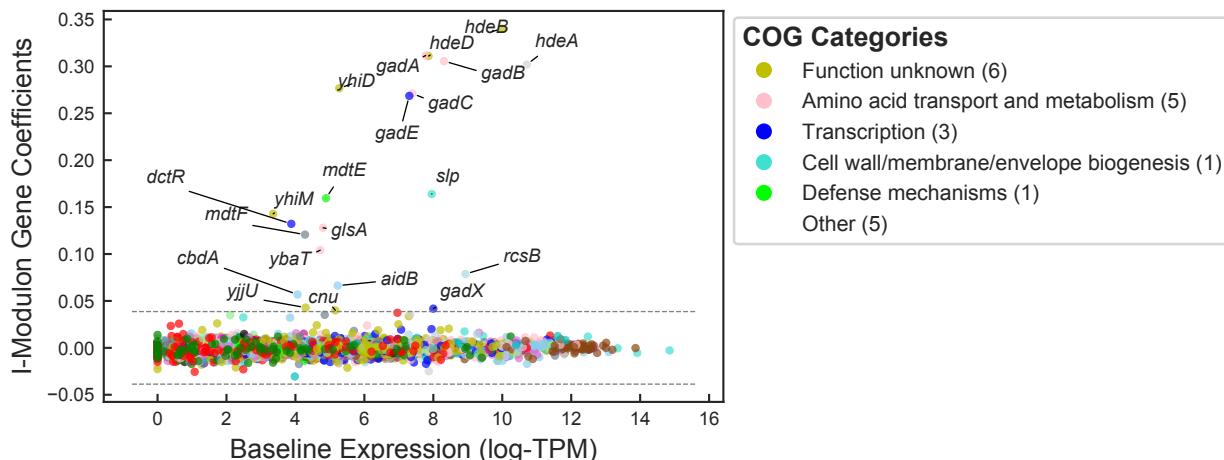
Fur – 2 I-Modulon

Regulated by: fur



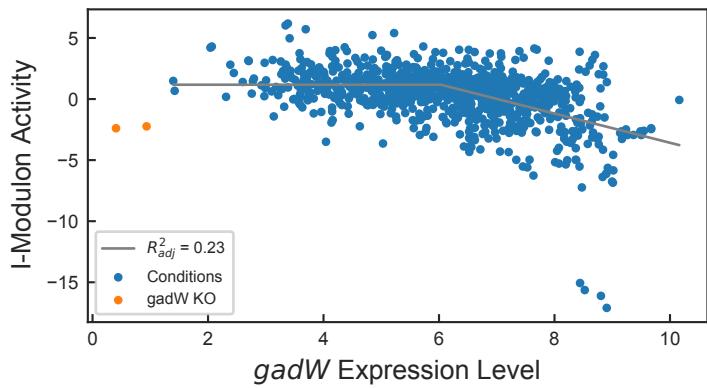
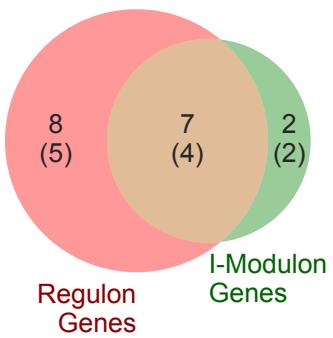
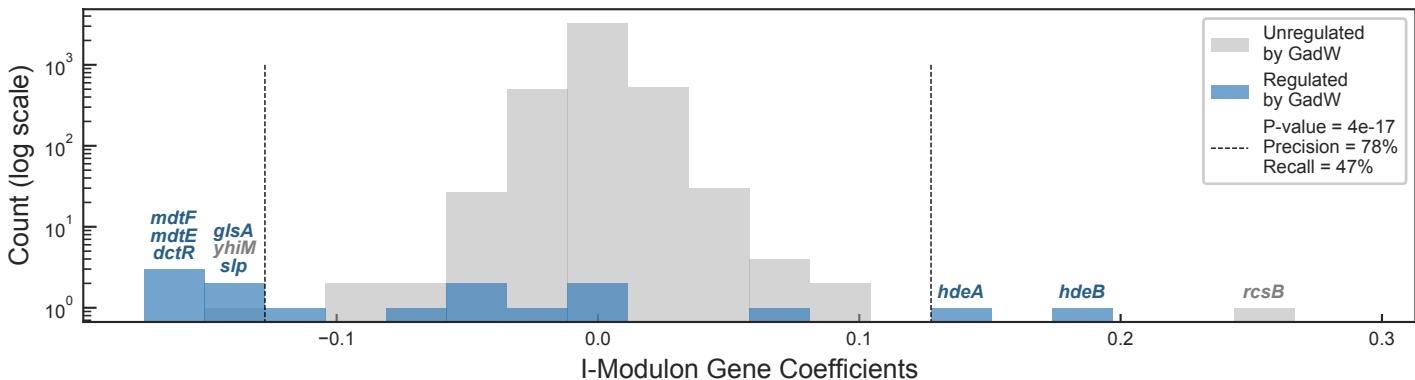
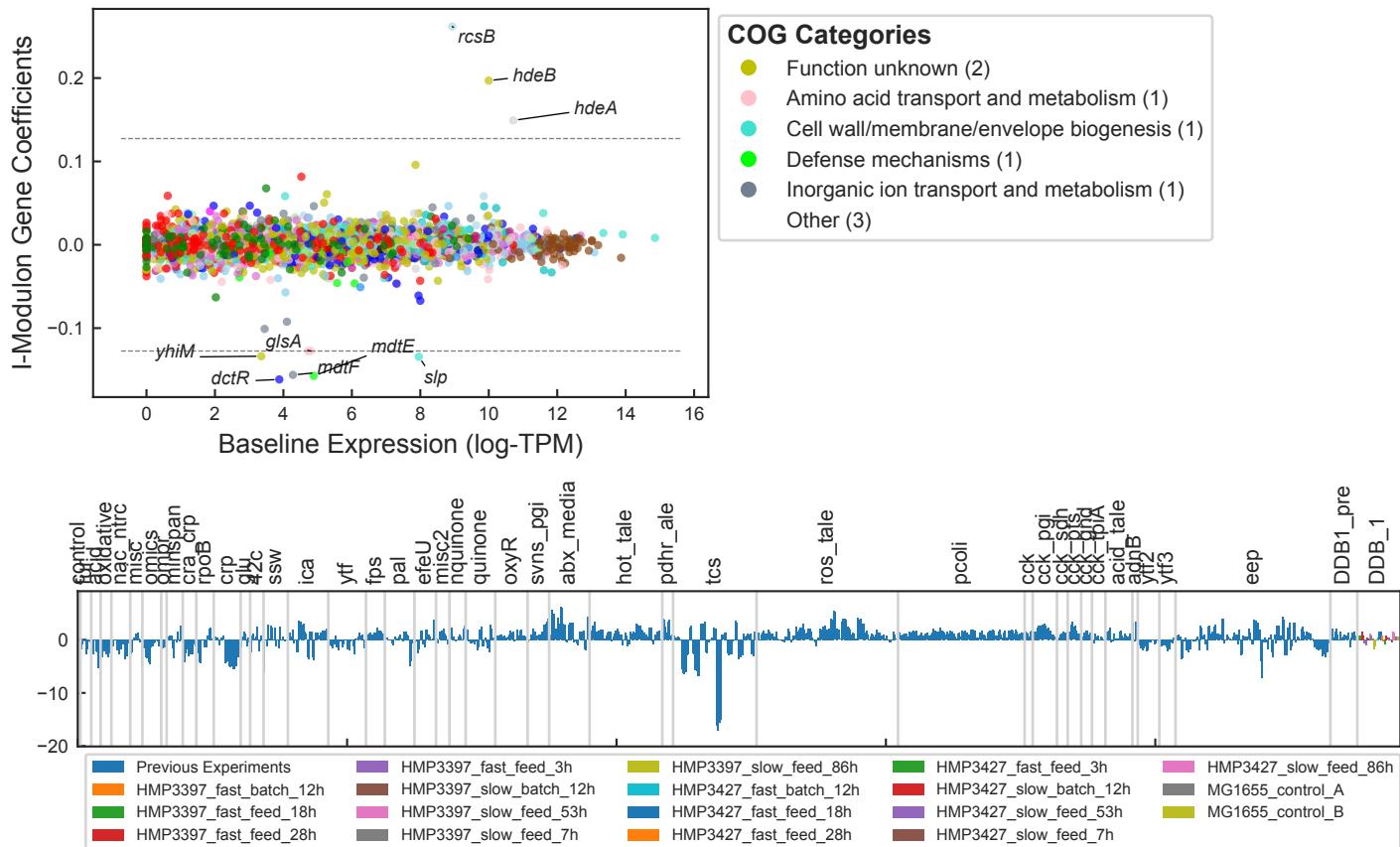
GadEWX I-Modulon

Regulated by: gadE+gadW+gadX



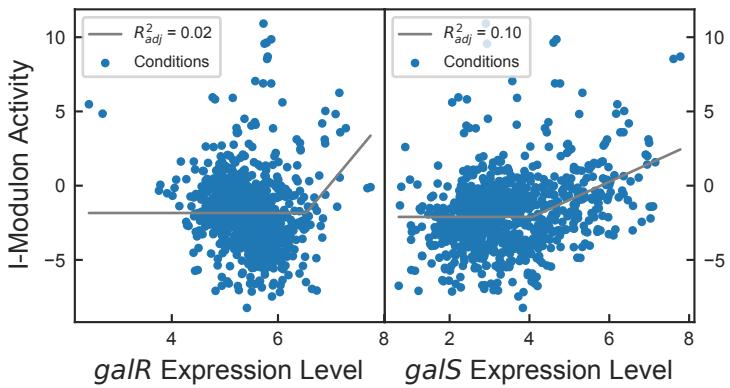
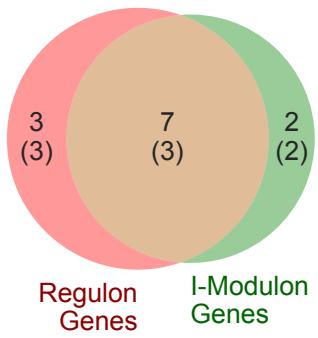
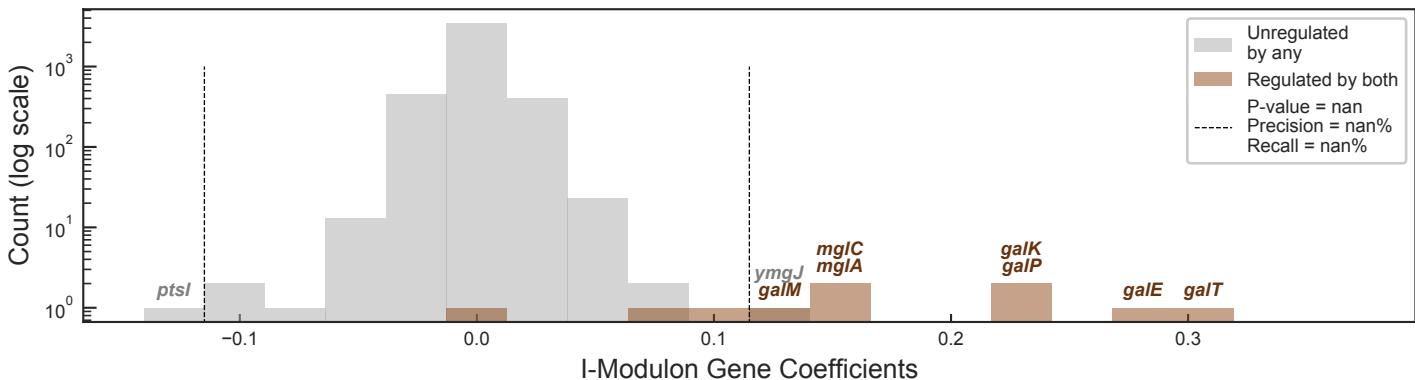
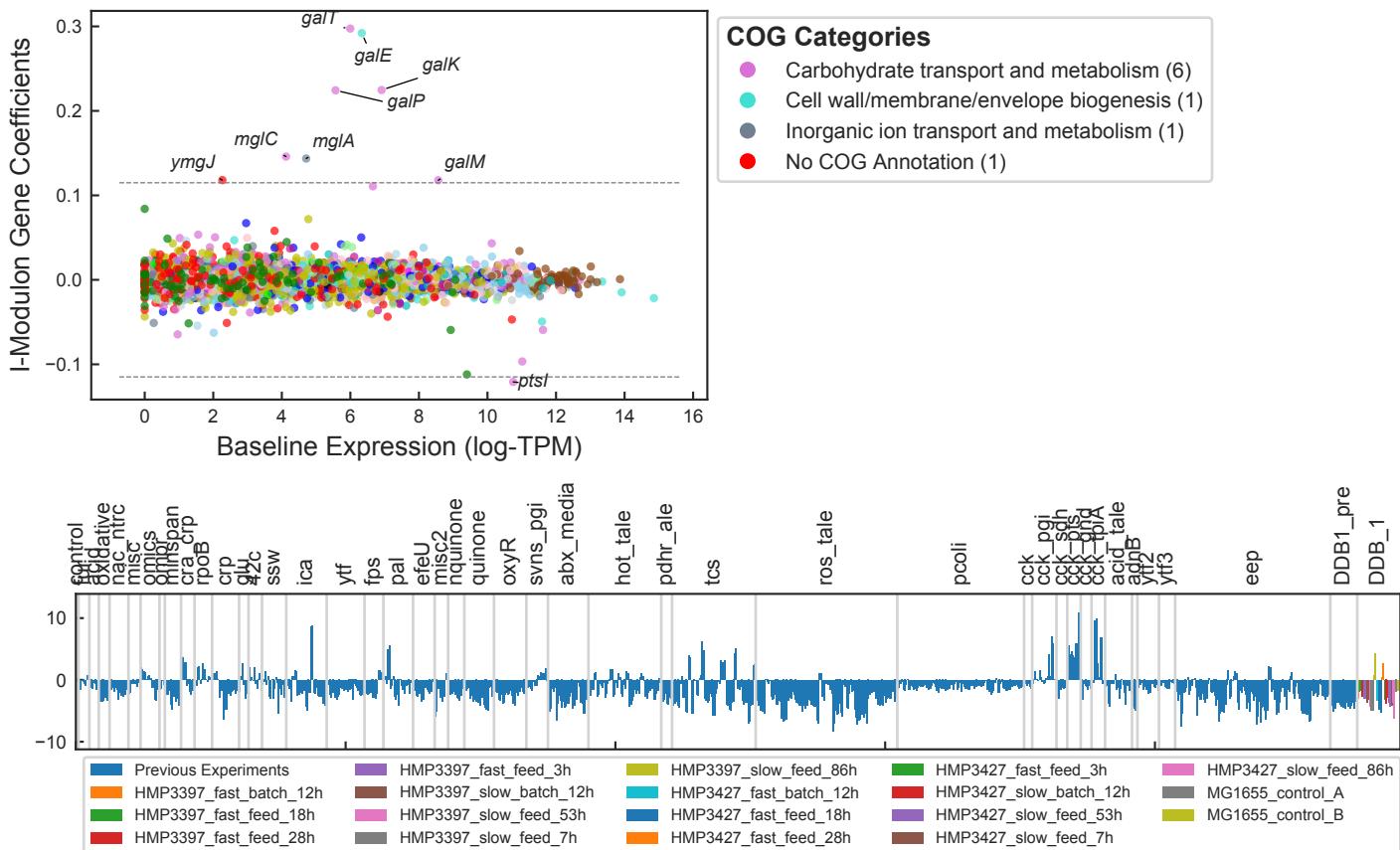
GadW I-Modulon

Regulated by: gadW



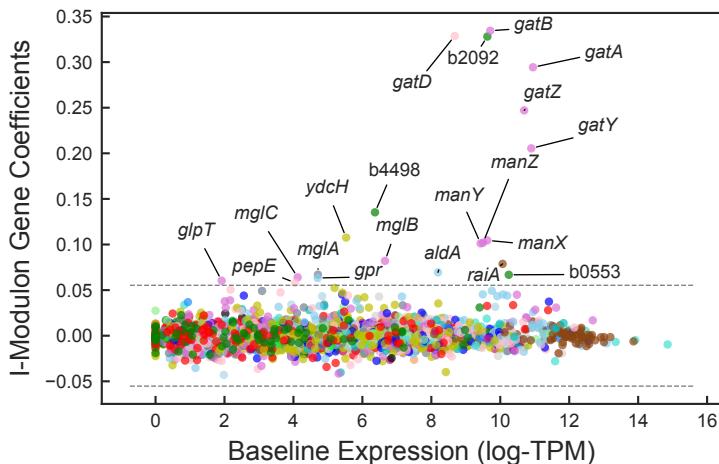
GalR + GalS I-Modulon

Regulated by: galR+galS



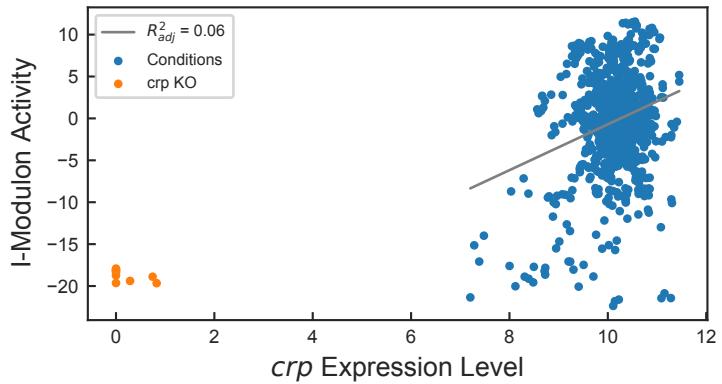
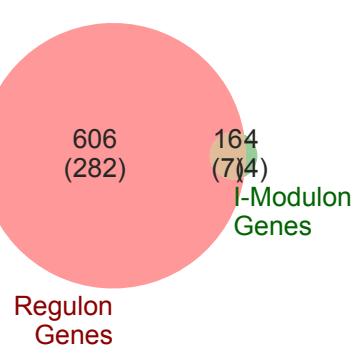
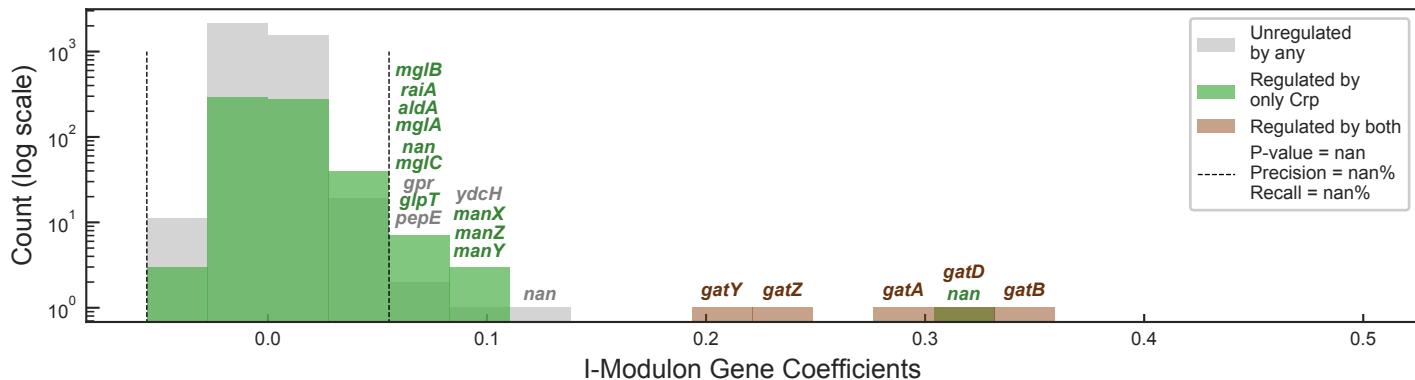
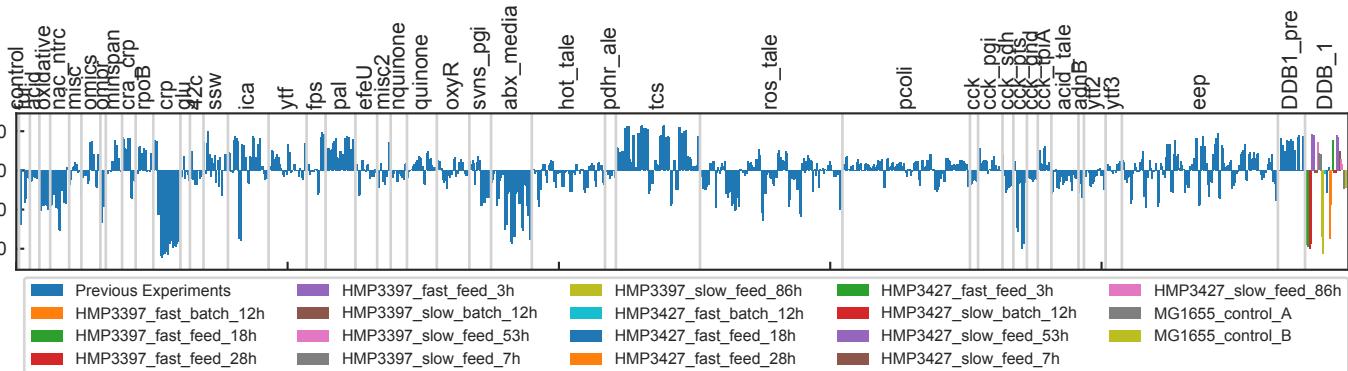
GatR + Crp I-Modulon

Regulated by: gatR/crp



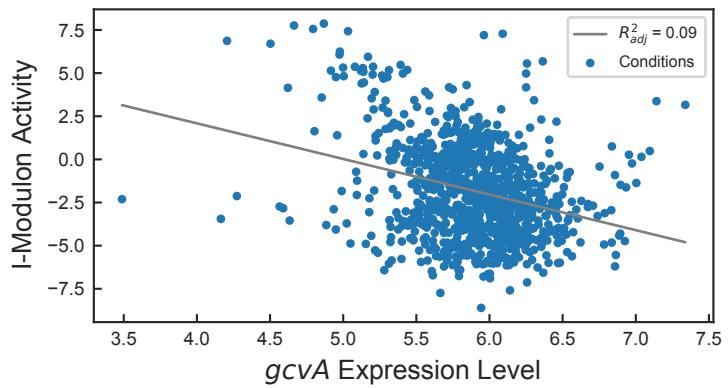
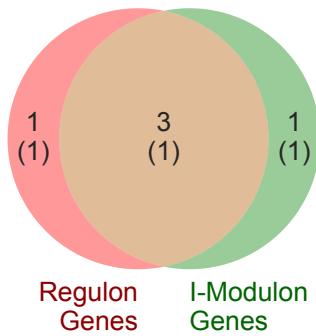
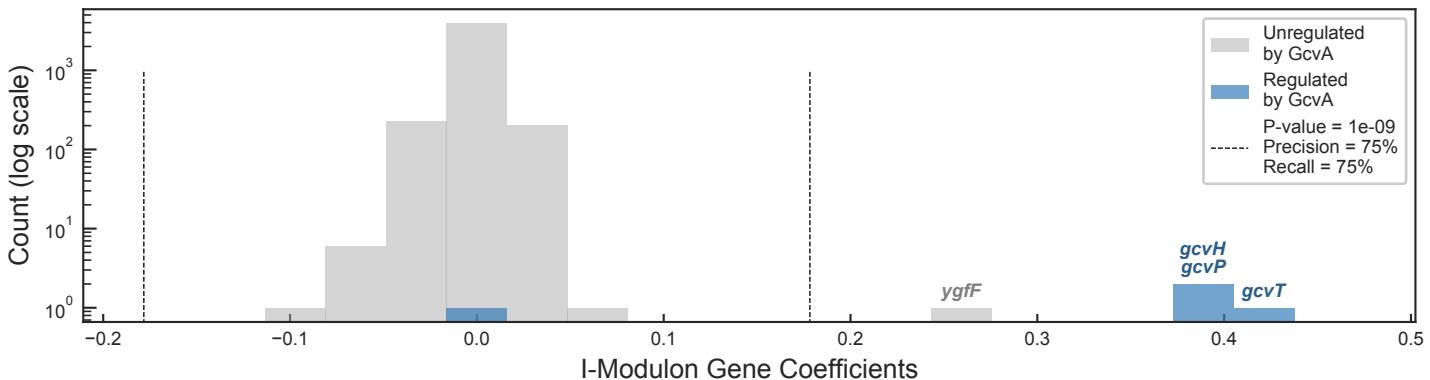
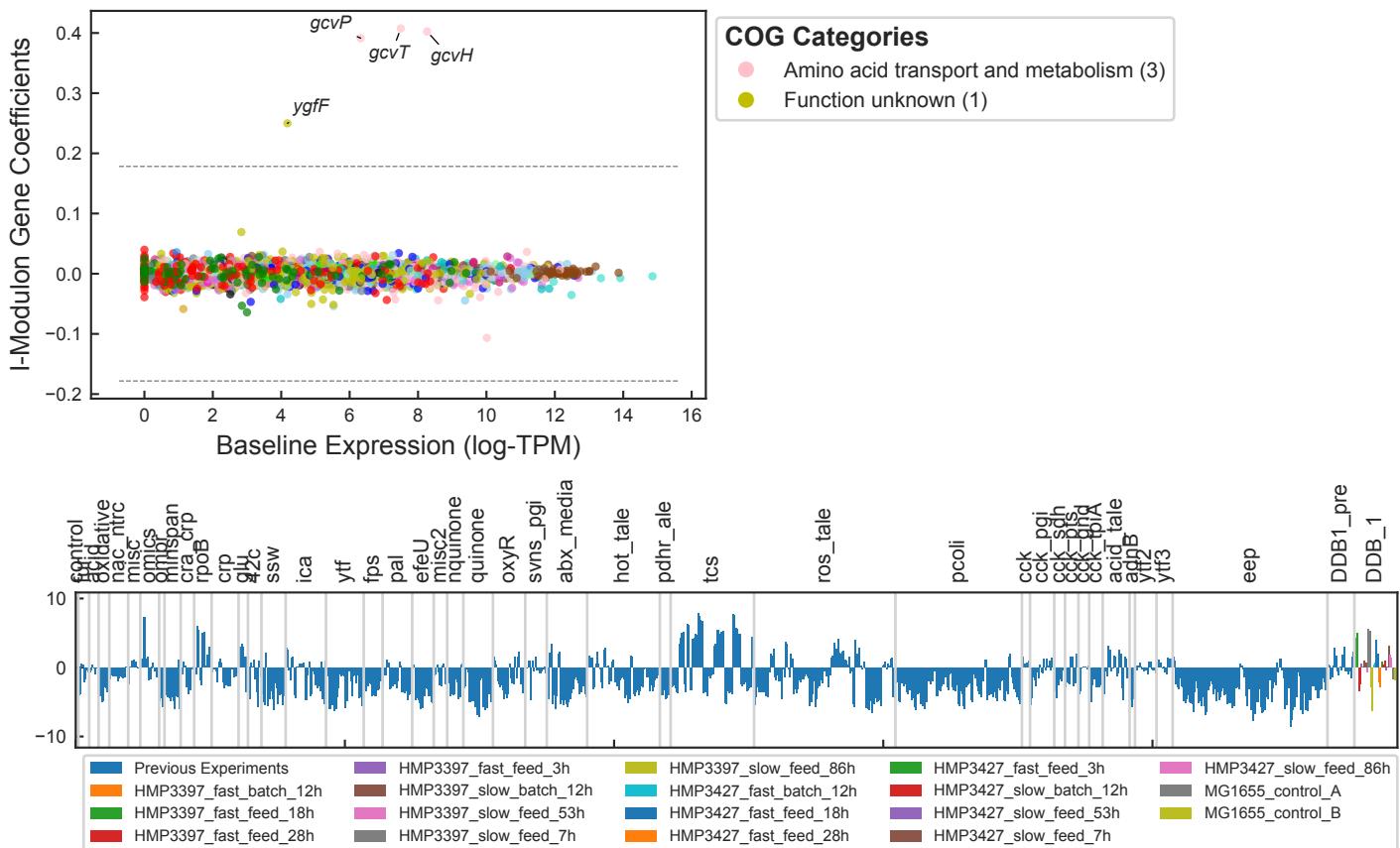
COG Categories

- Carbohydrate transport and metabolism (10)
- Amino acid transport and metabolism (2)
- Energy production and conversion (2)
- Function unknown (1)
- Inorganic ion transport and metabolism (1)
- Translation, ribosomal structure and biogenesis (1)



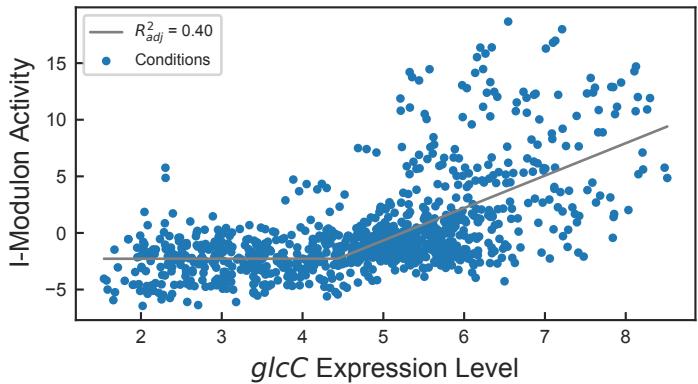
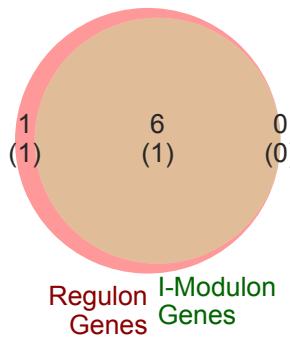
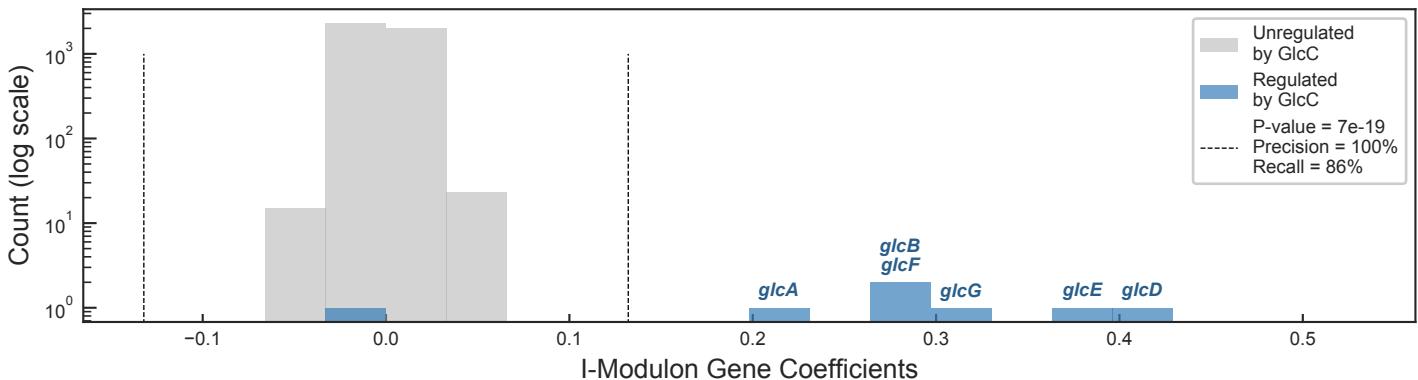
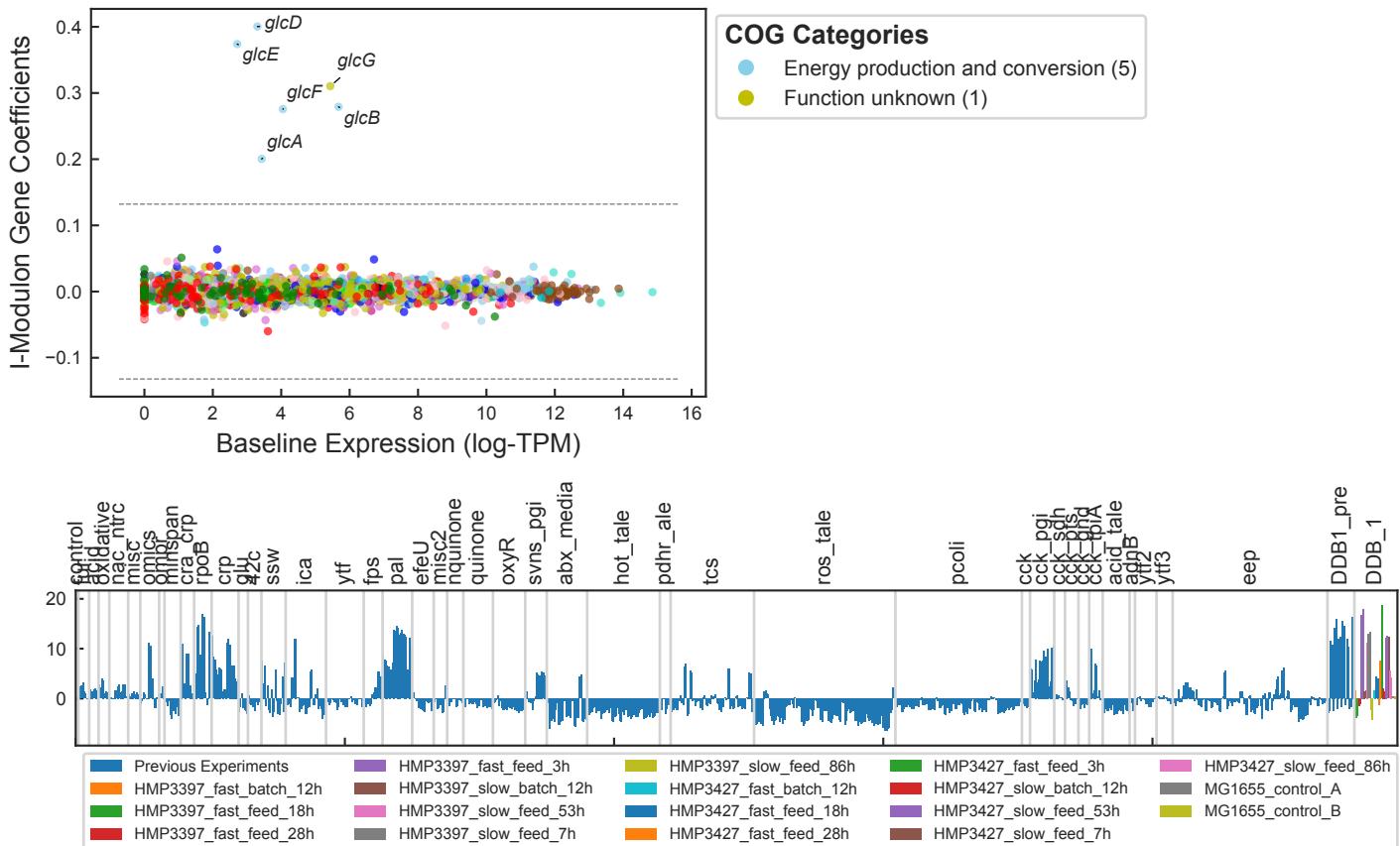
GcvA I-Modulon

Regulated by: gcvA



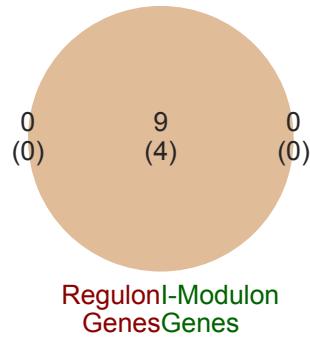
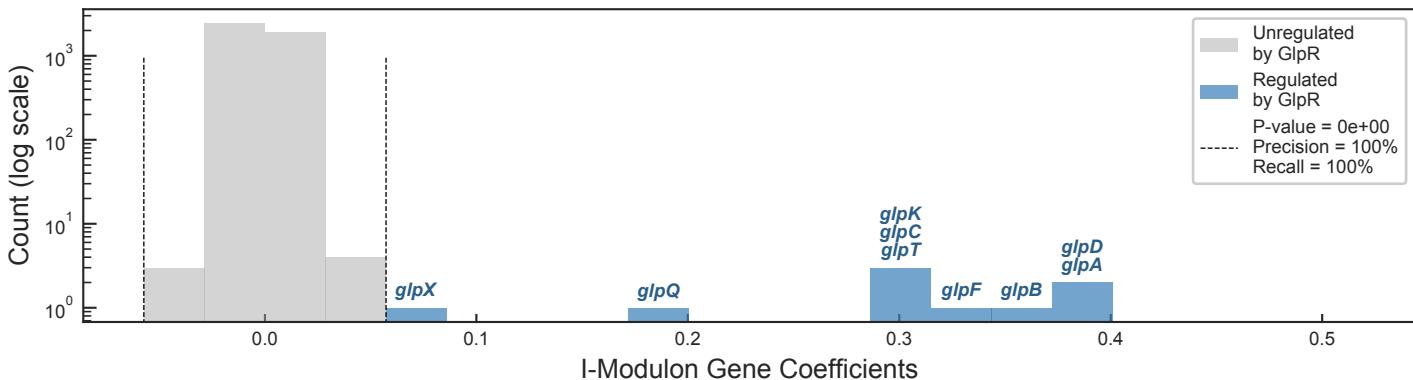
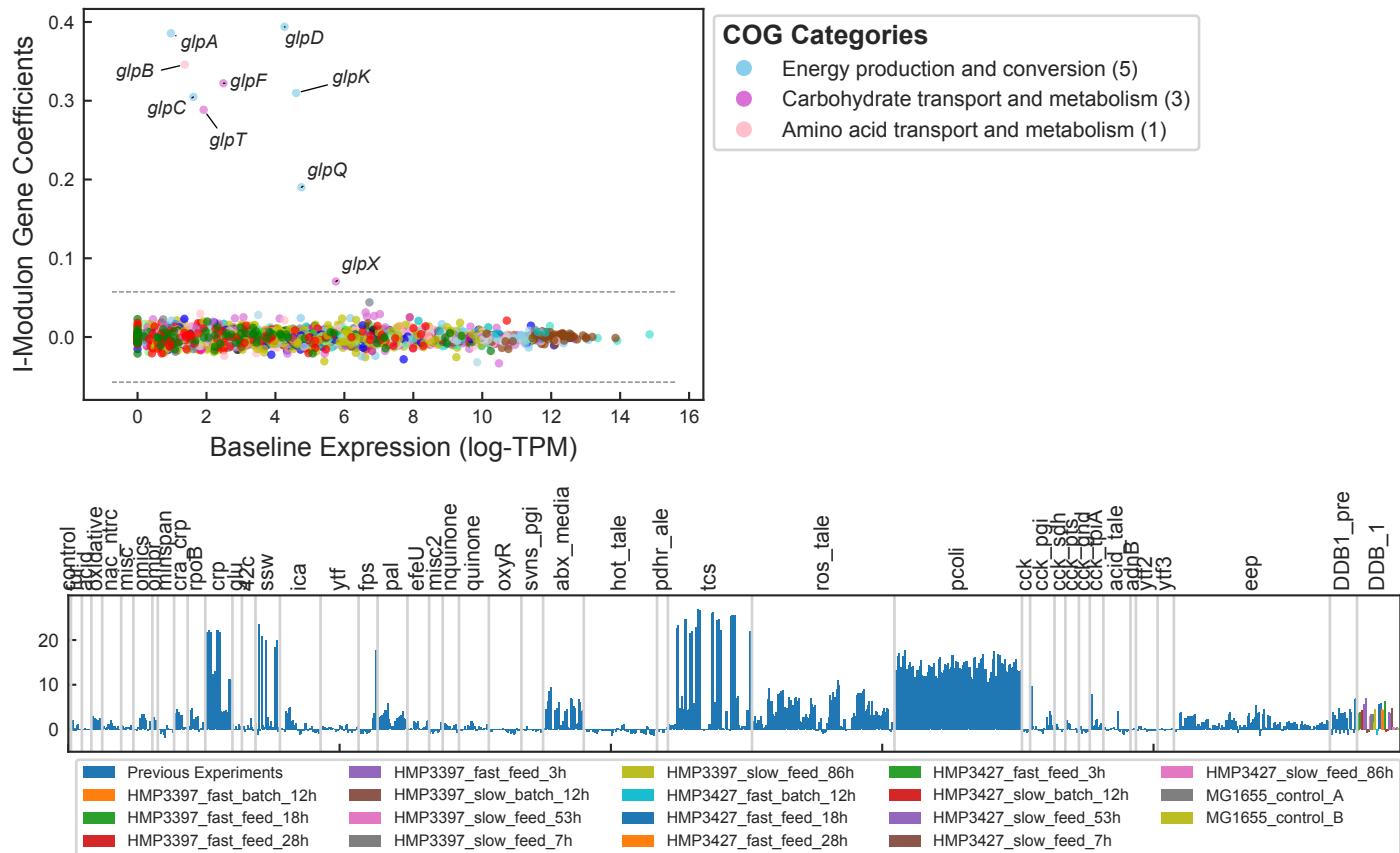
GlcC I-Modulon

Regulated by: glcC



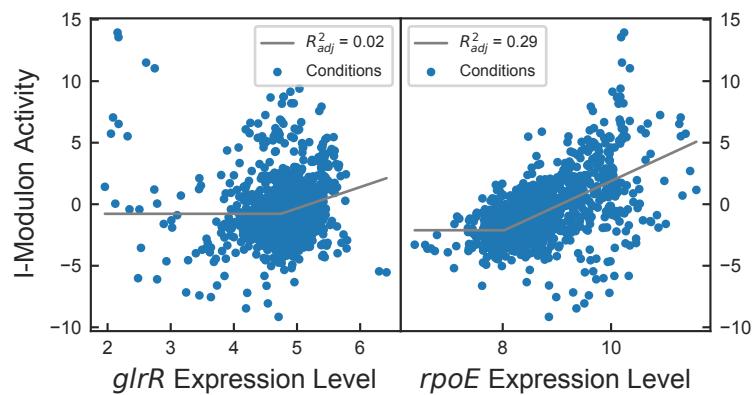
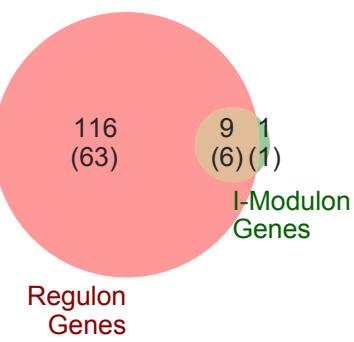
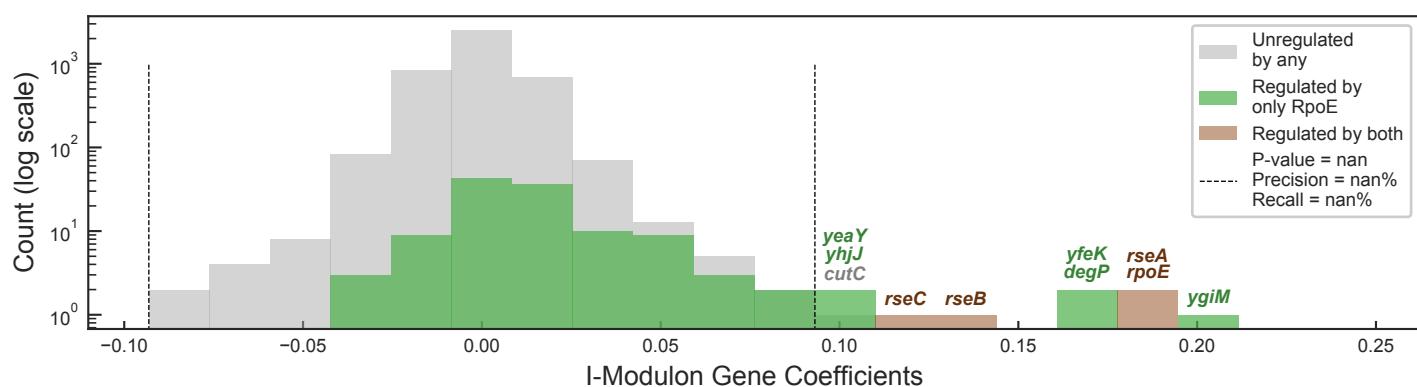
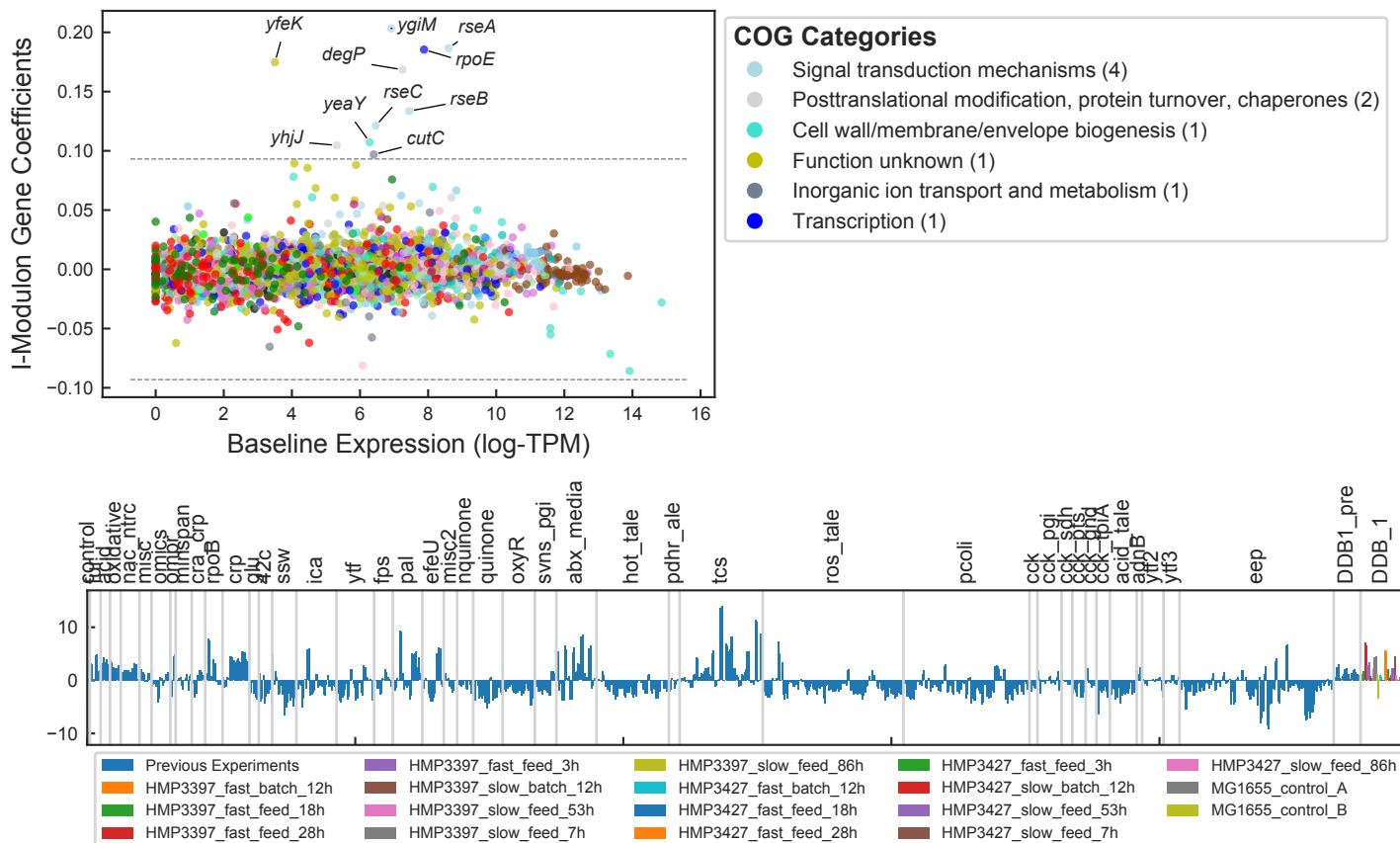
GlpR I-Modulon

Regulated by: glpR

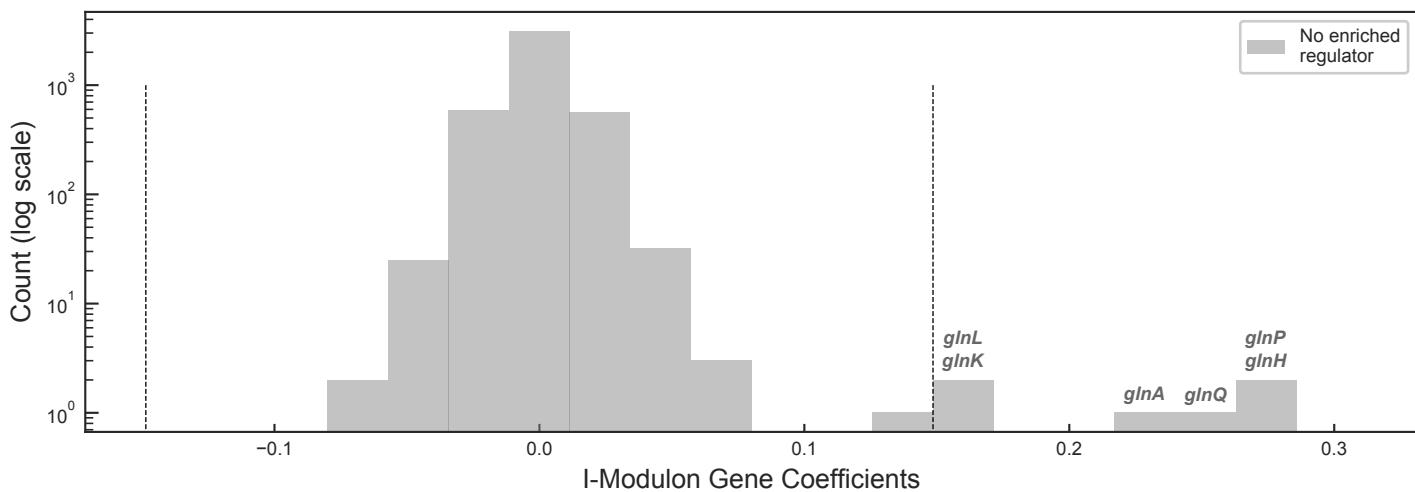
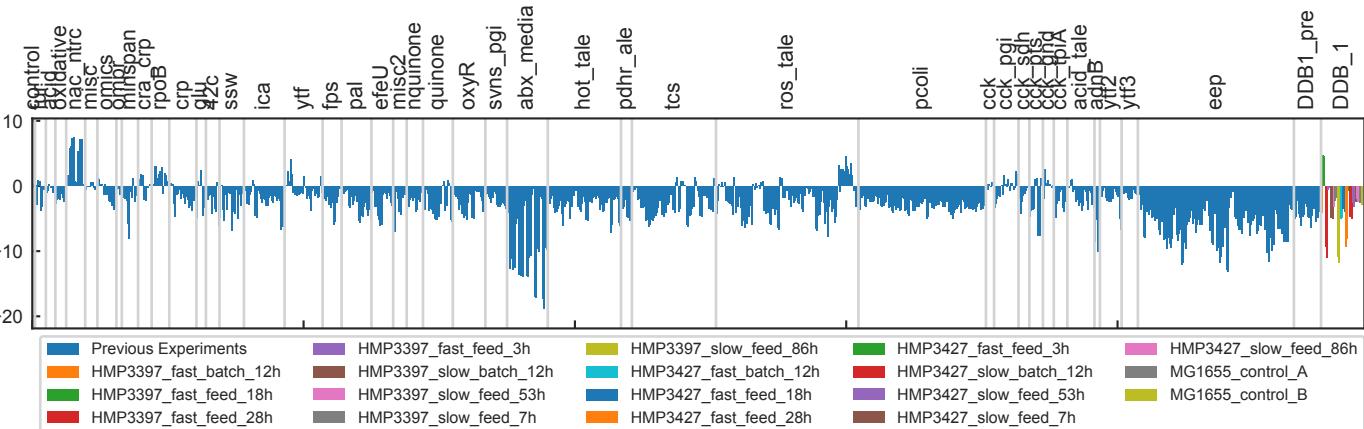
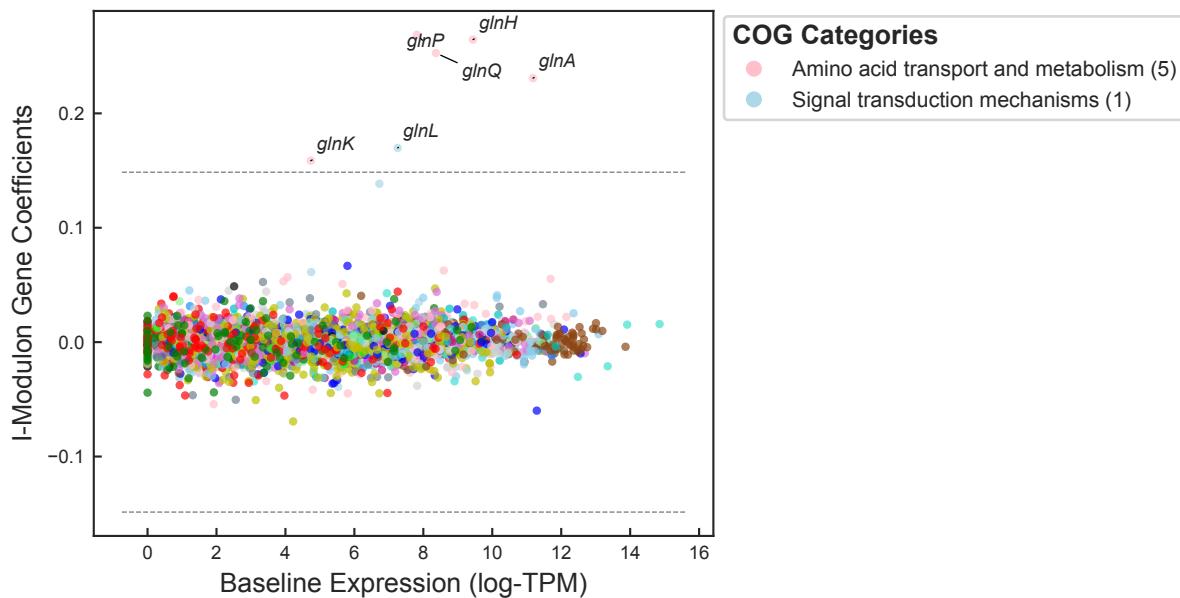


GlrR/RpoE I-Modulon

Regulated by: glrR/rpoE

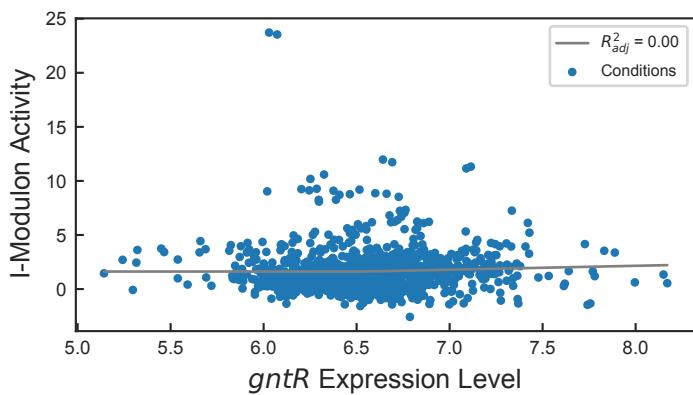
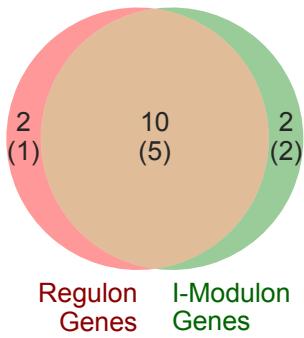
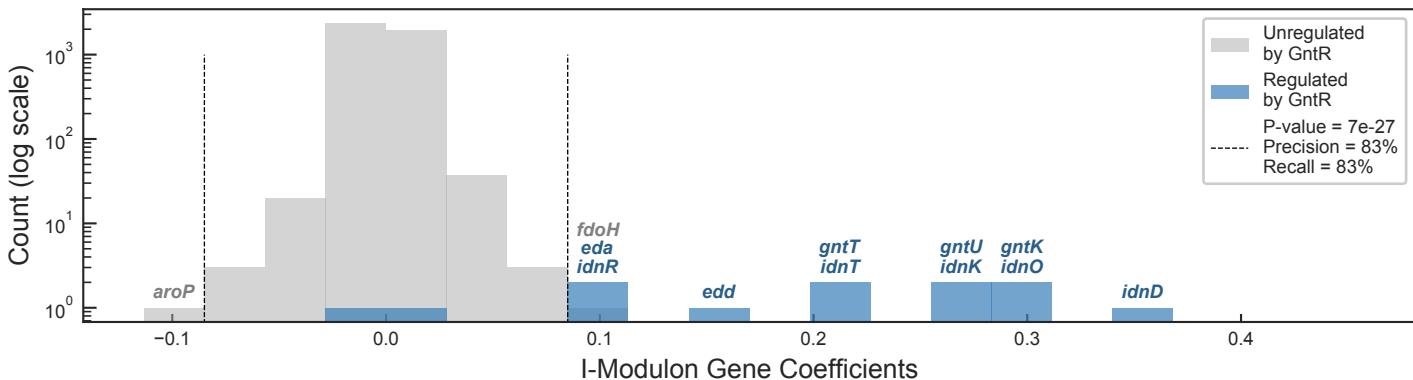
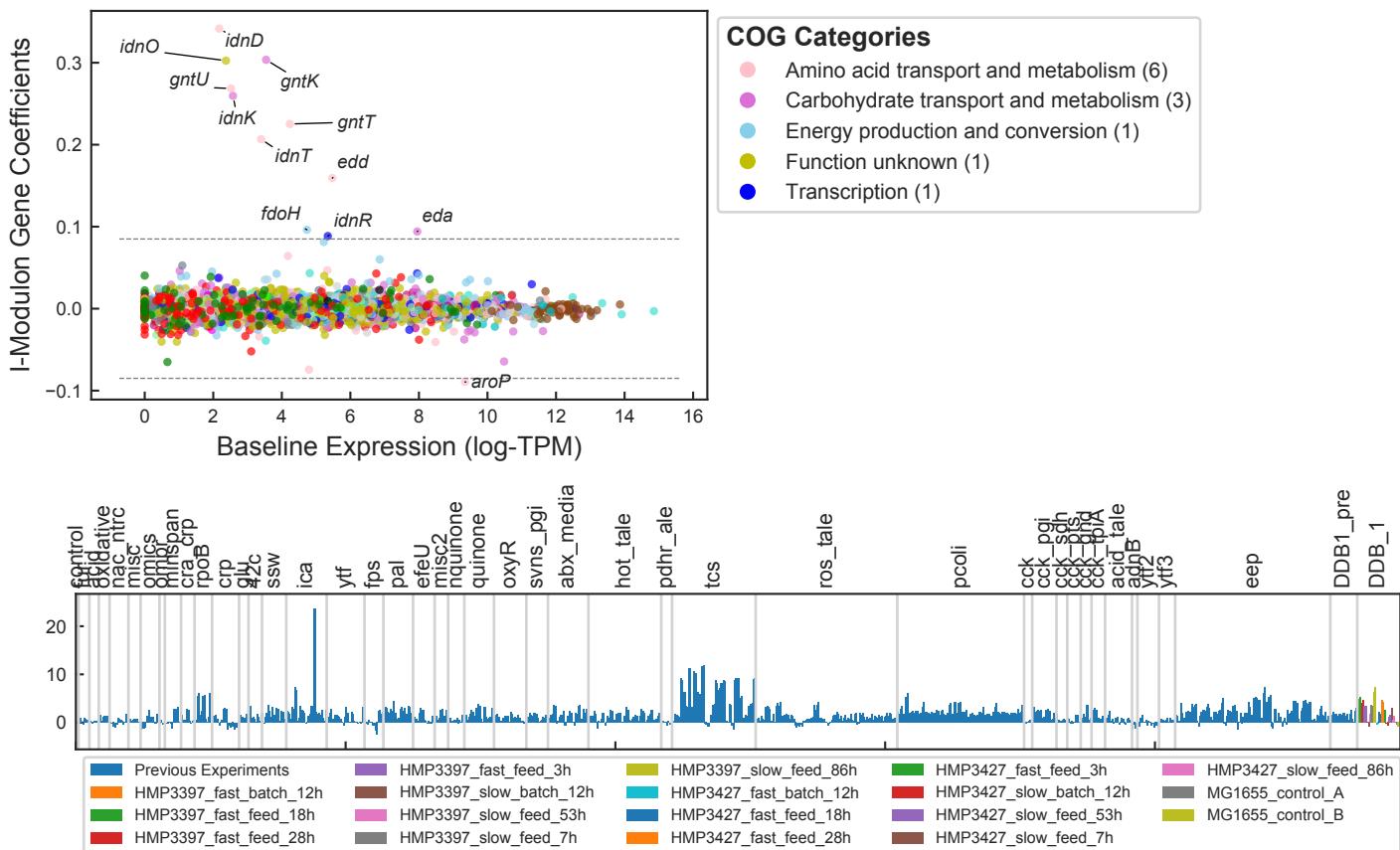


Glutamine I-Modulon



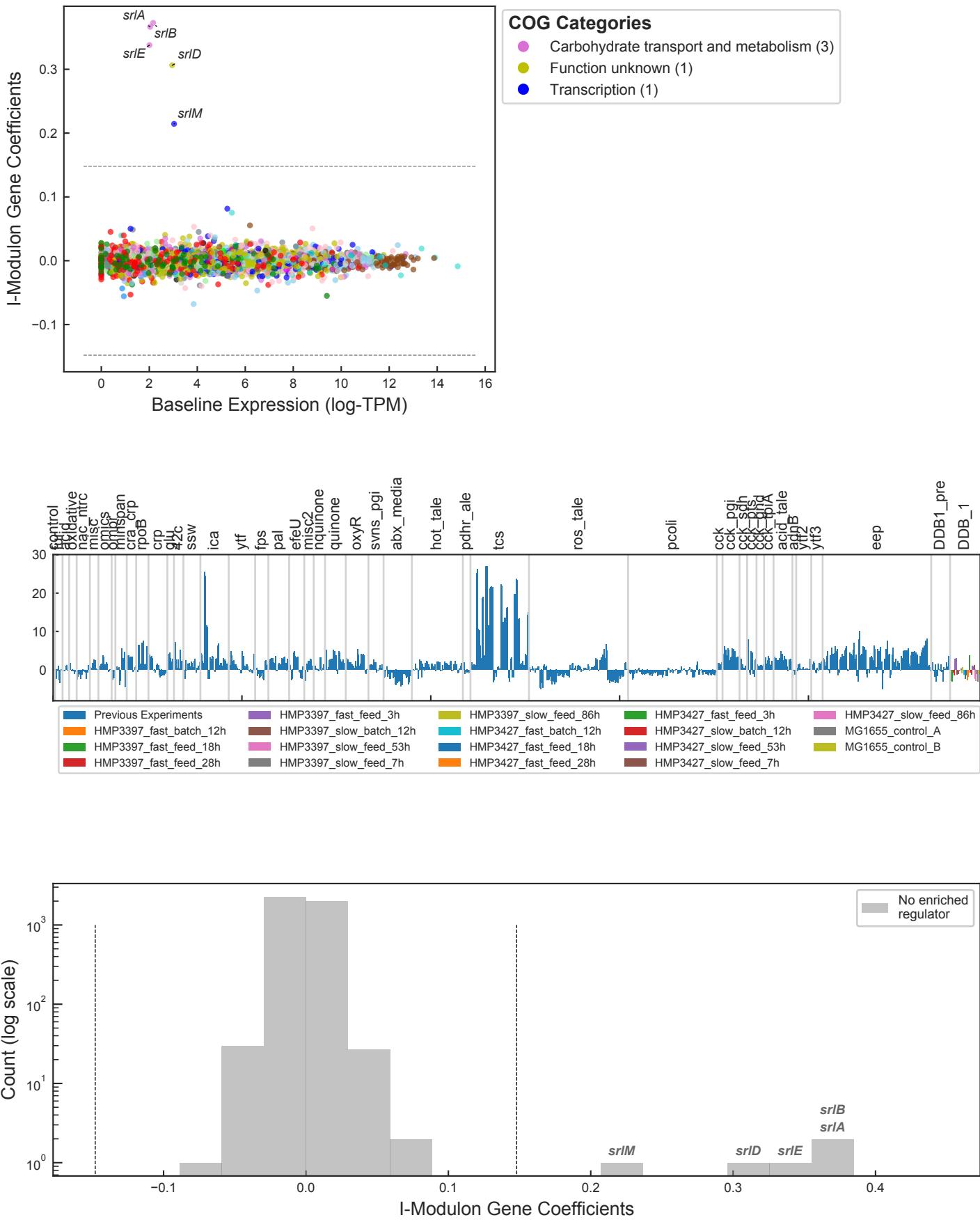
GntR I-Modulon

Regulated by: gntR



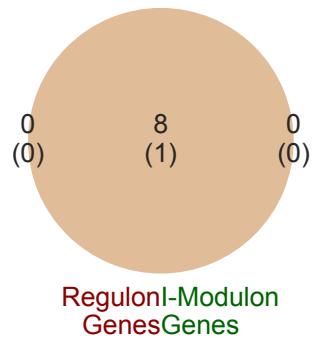
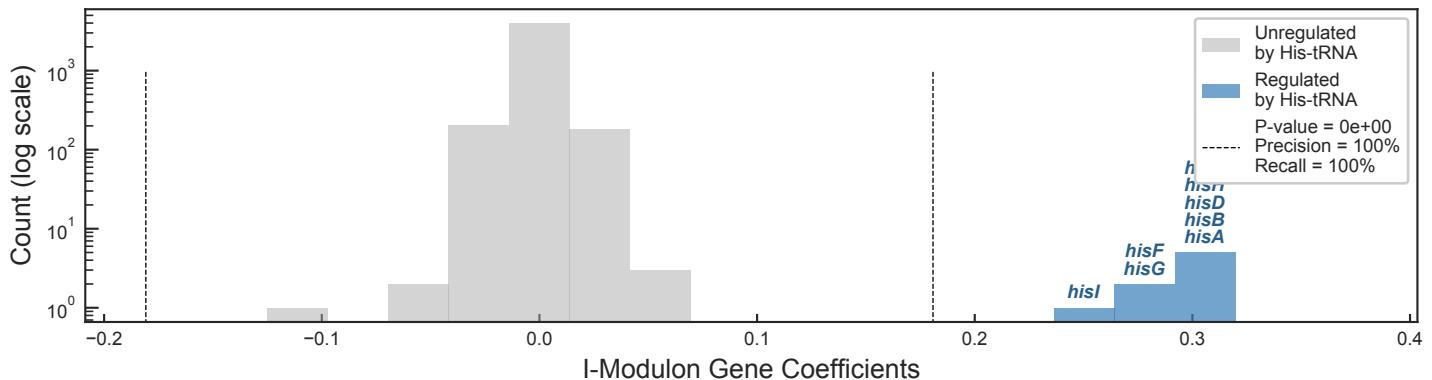
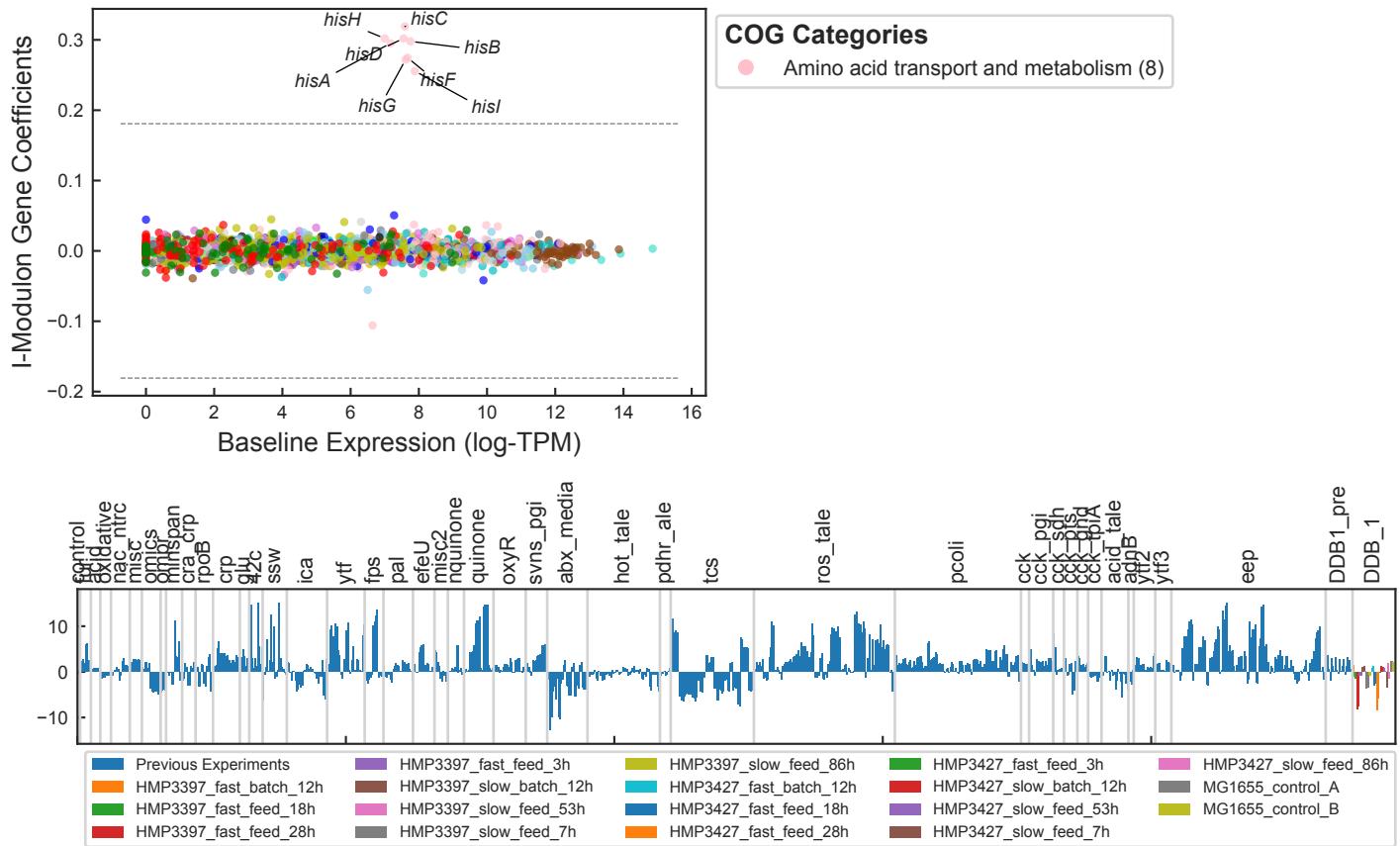
GutM/GutR I-Modulon

Regulated by: gutM+gutR

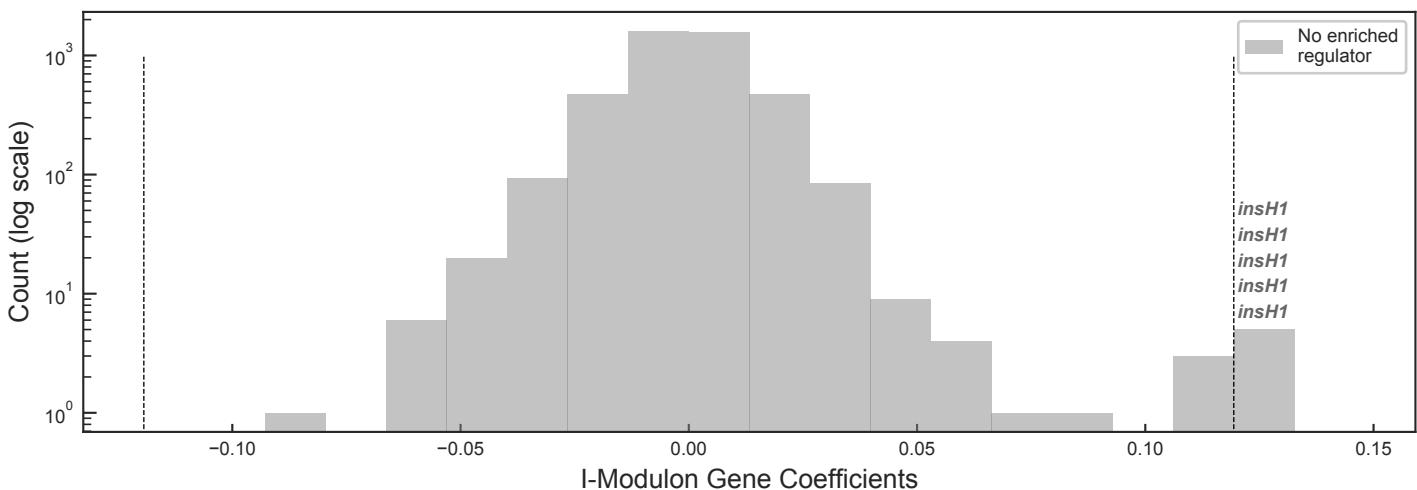
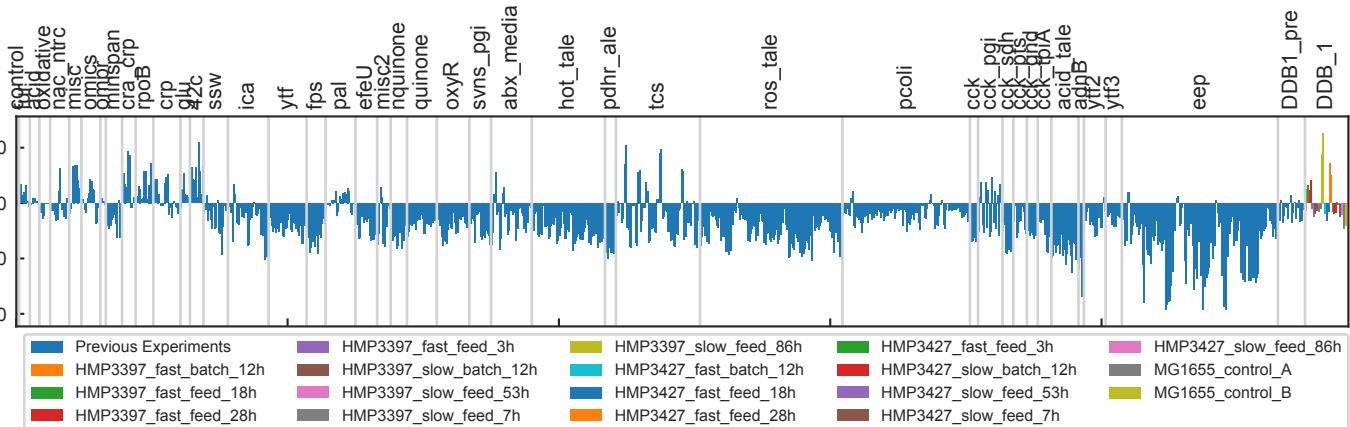
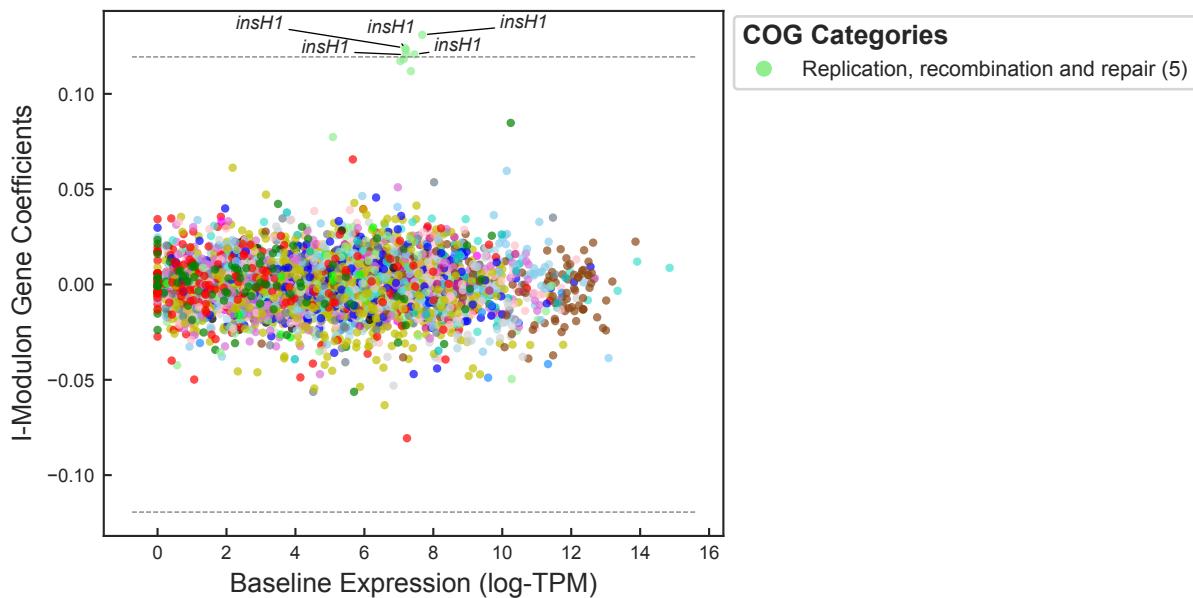


Histidine I-Modulon

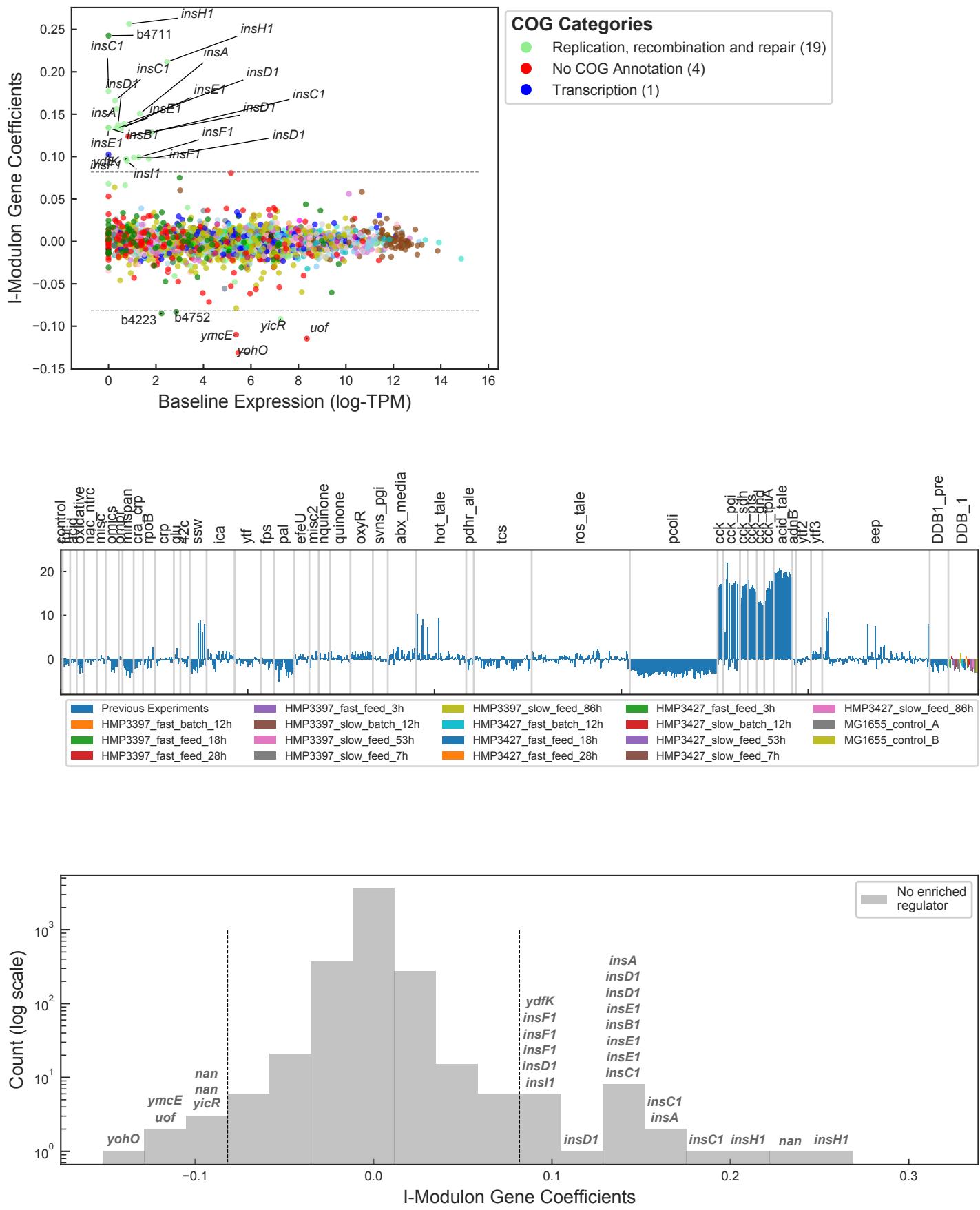
Regulated by: his-tRNA



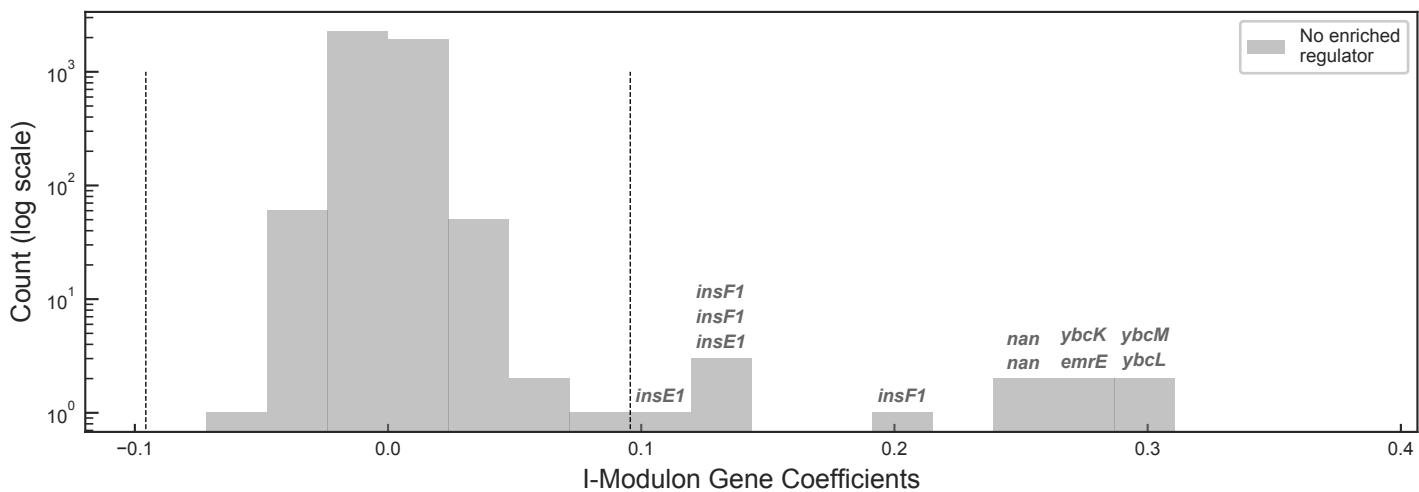
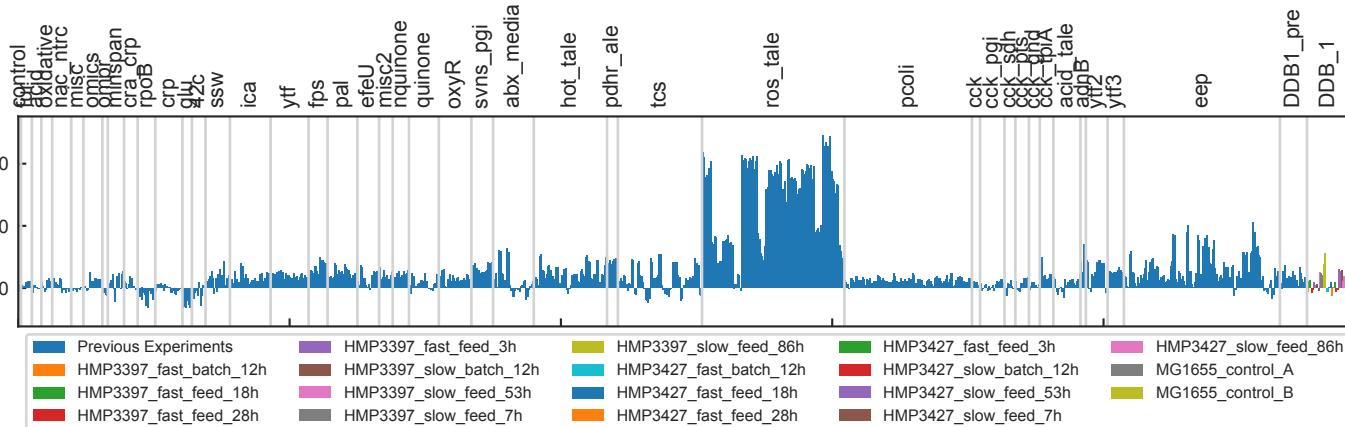
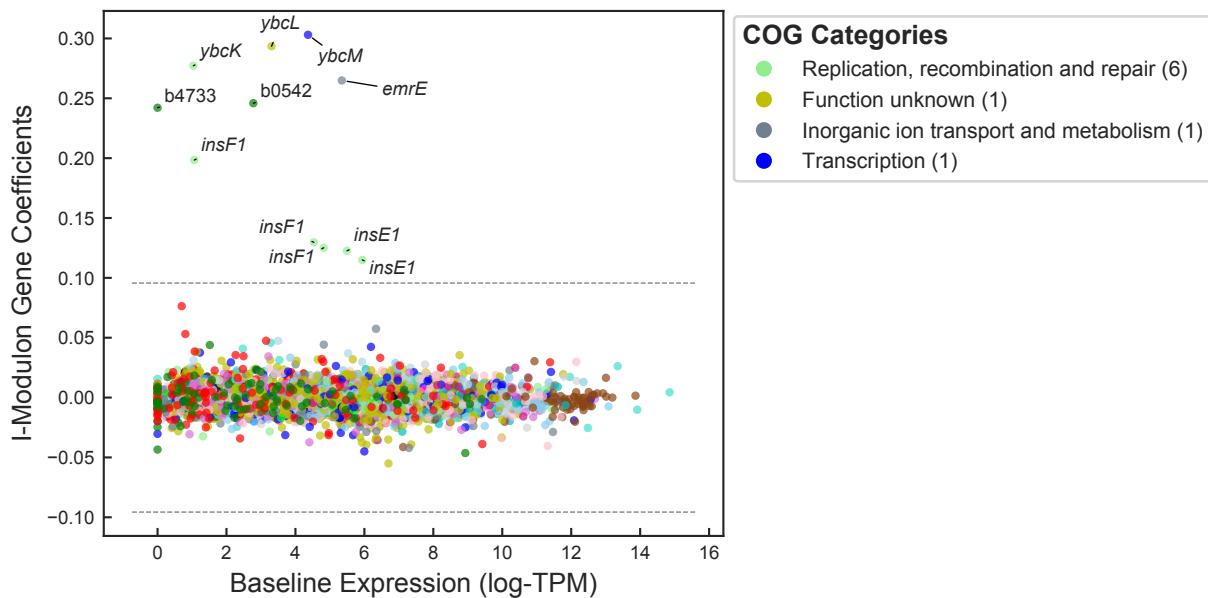
INS – 1 I-Modulon



INS – 2 I-Modulon

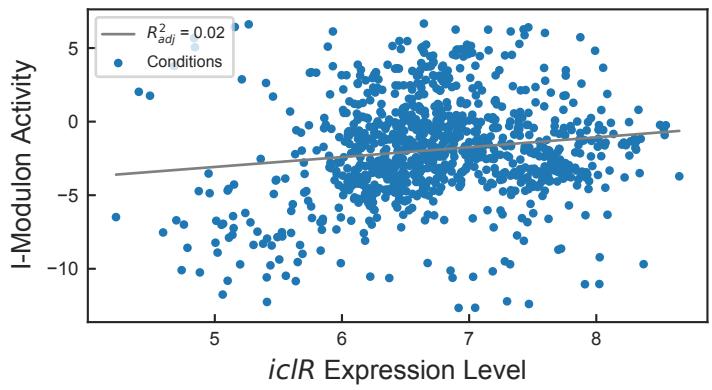
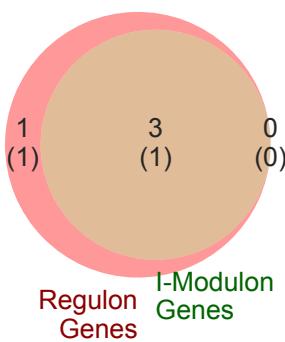
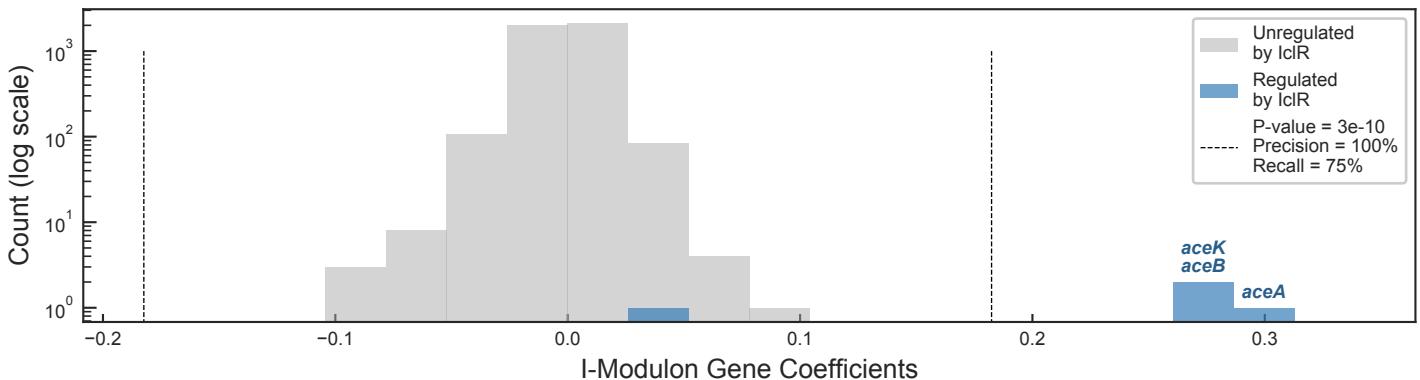
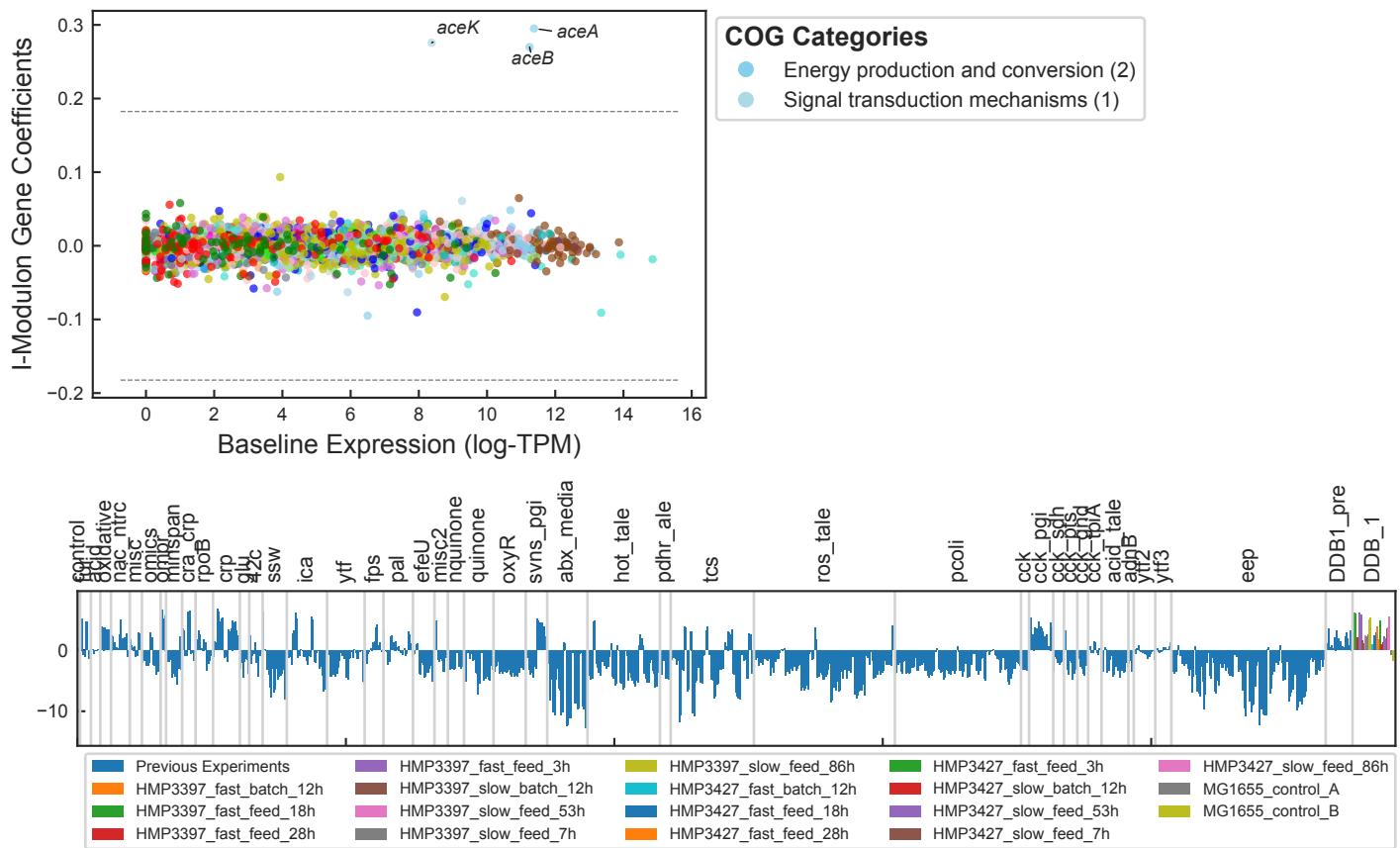


INS – 3 I-Modulon

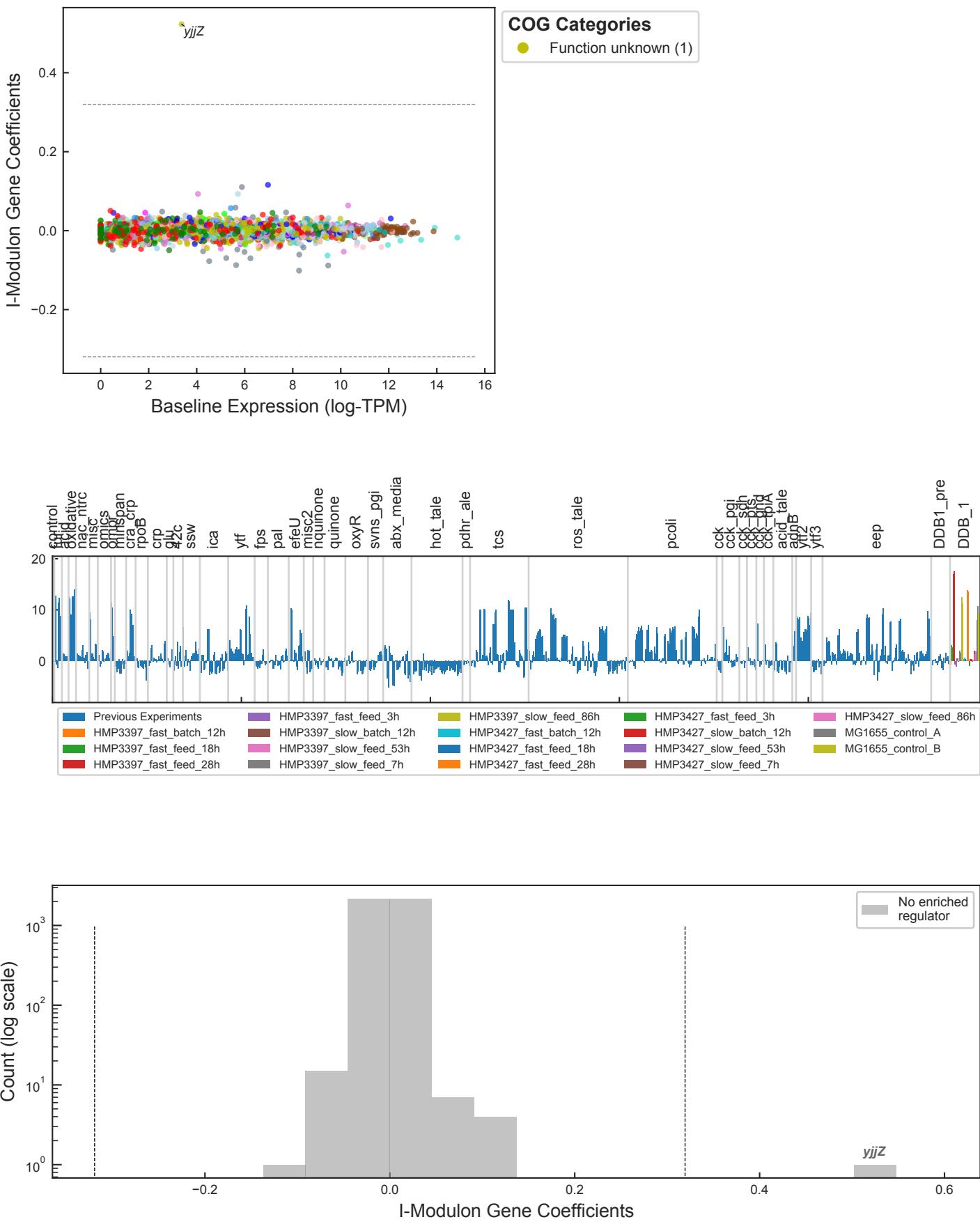


IclR I-Modulon

Regulated by: *iclR*

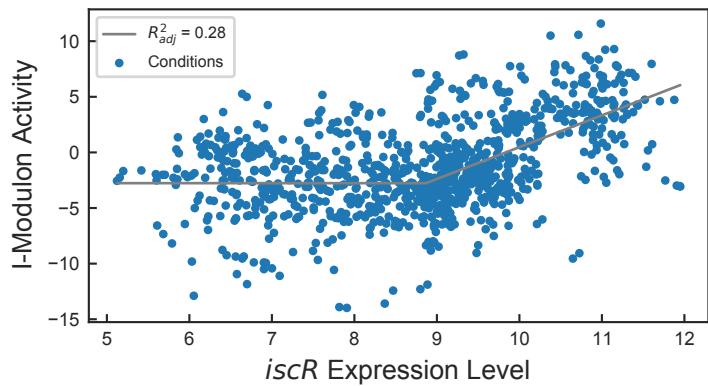
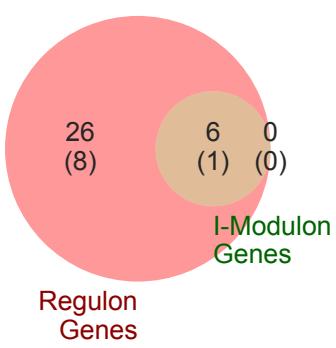
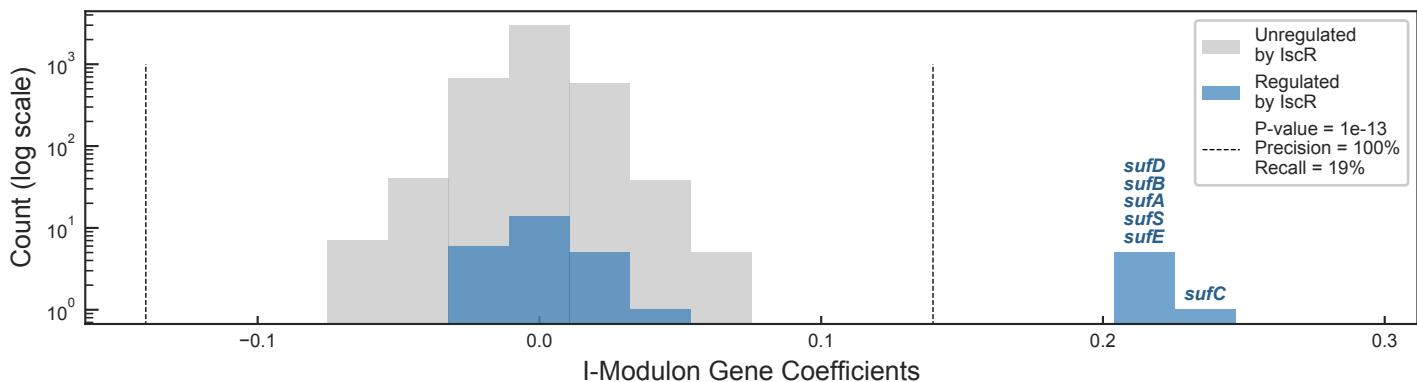
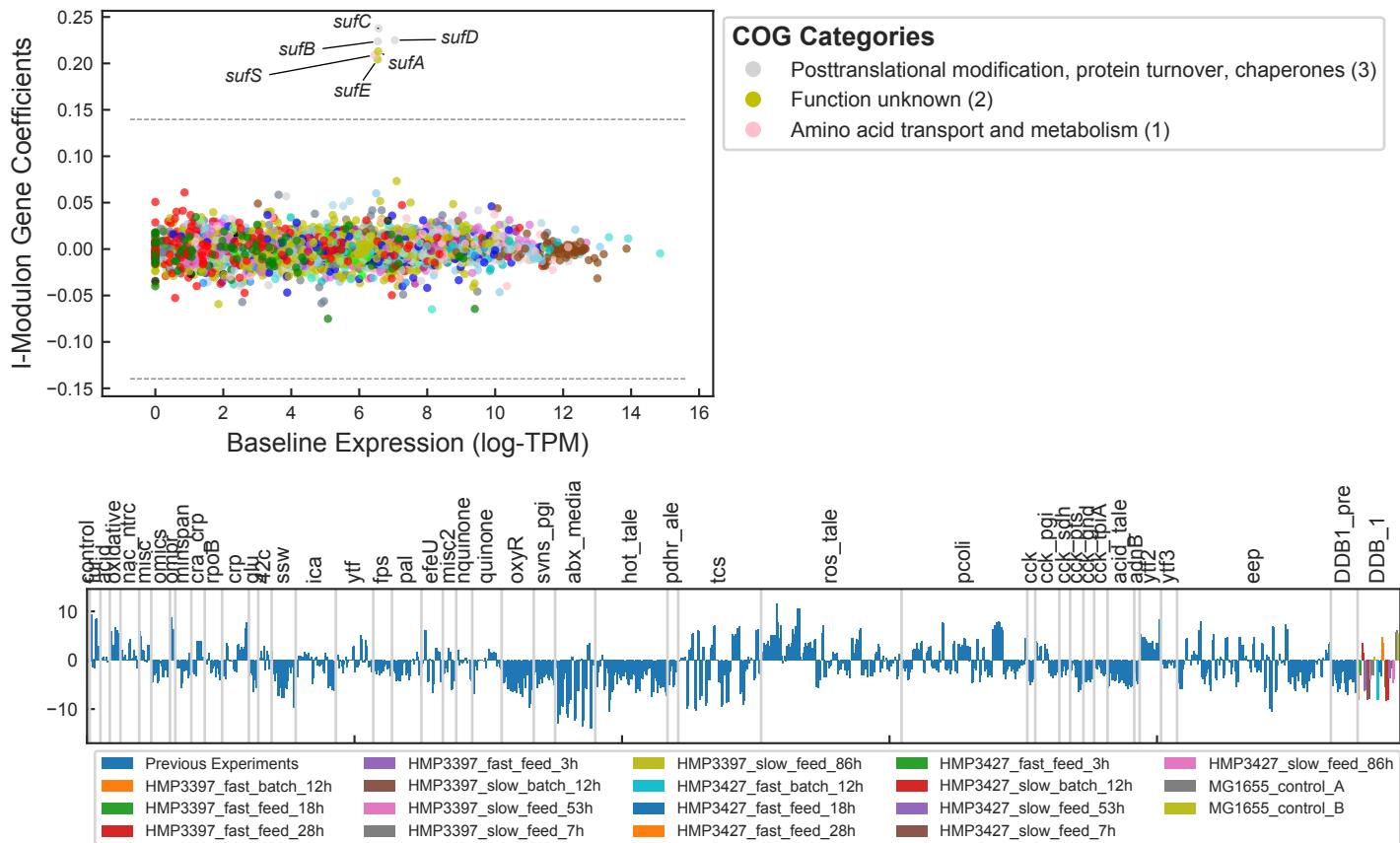


IronUptake I-Modulon



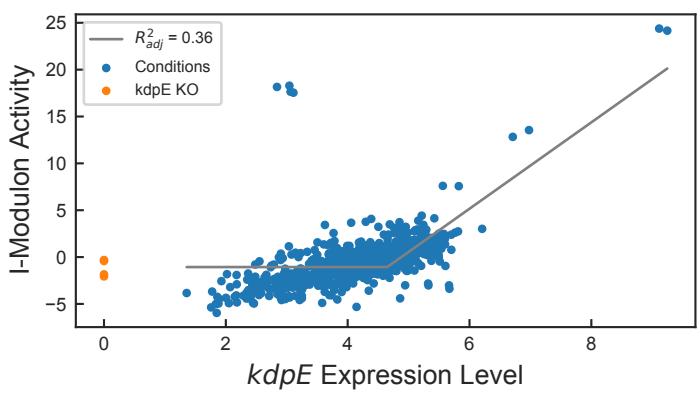
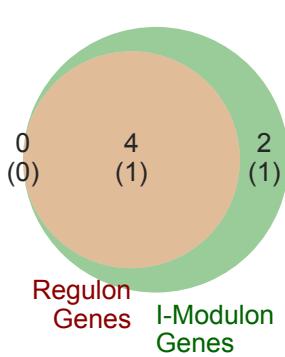
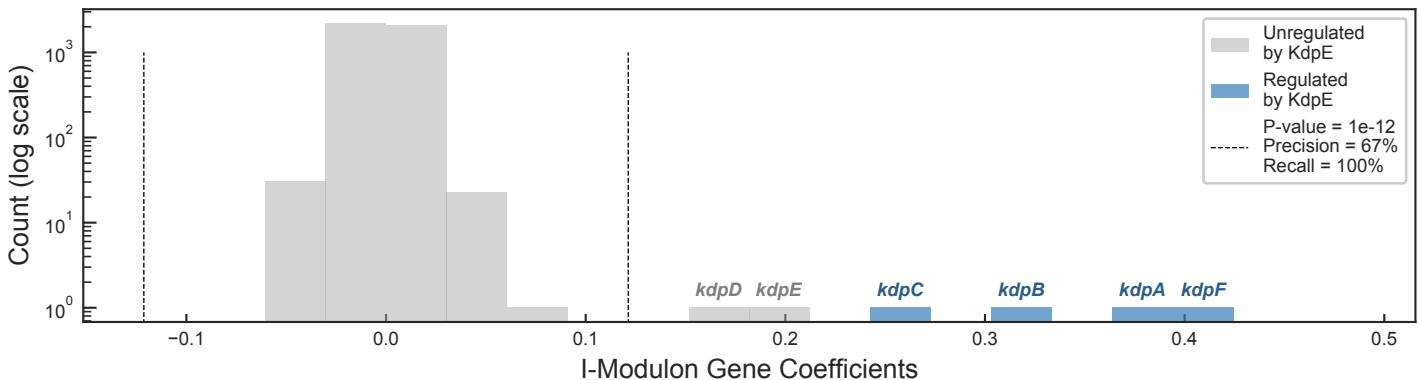
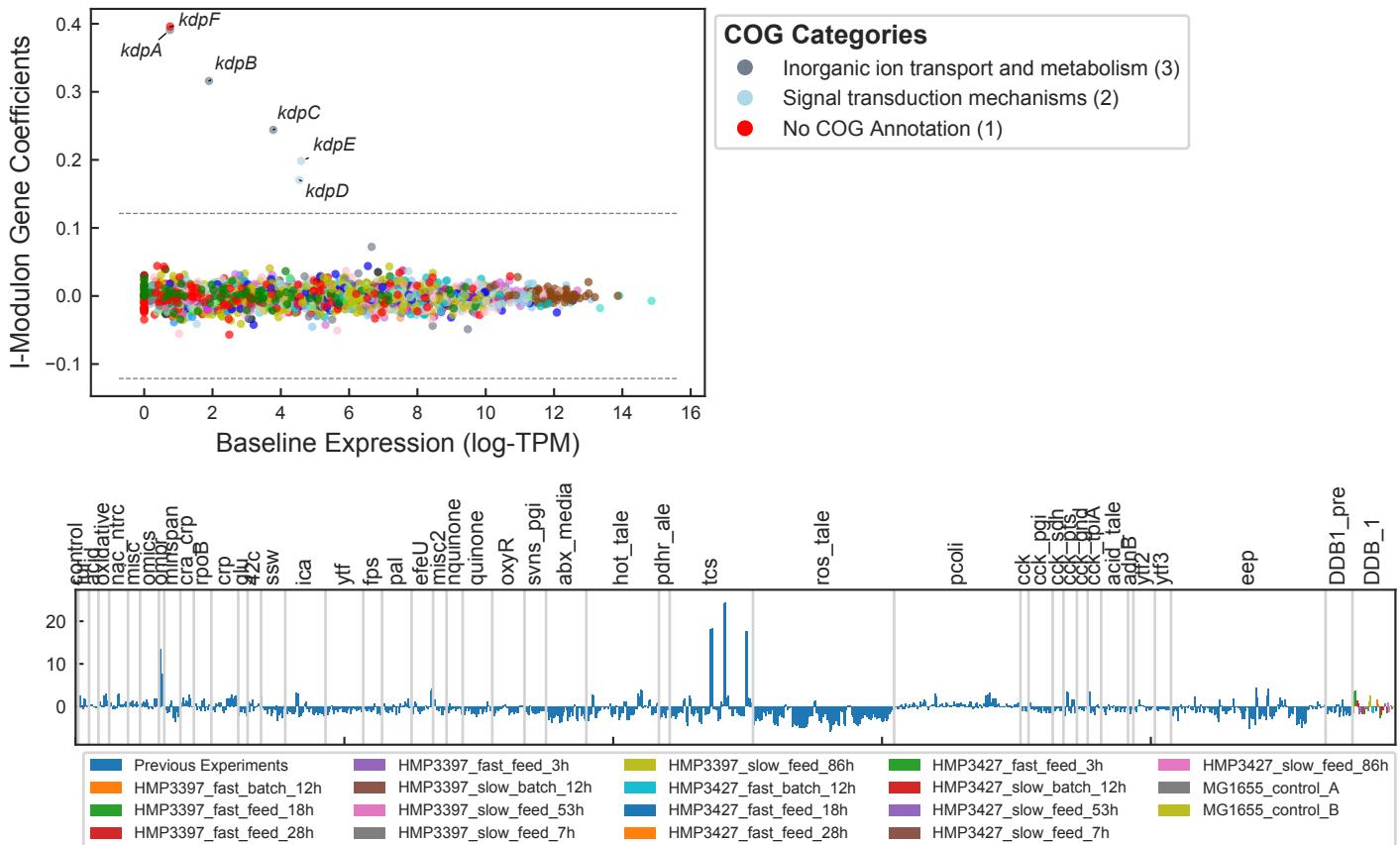
IscR I-Modulon

Regulated by: iscR

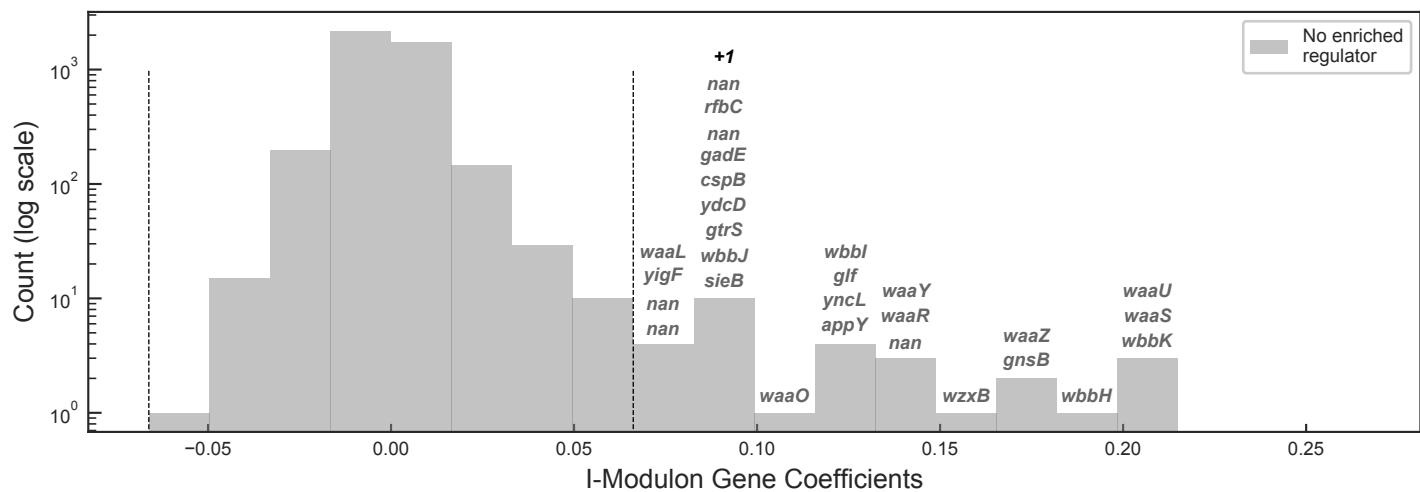
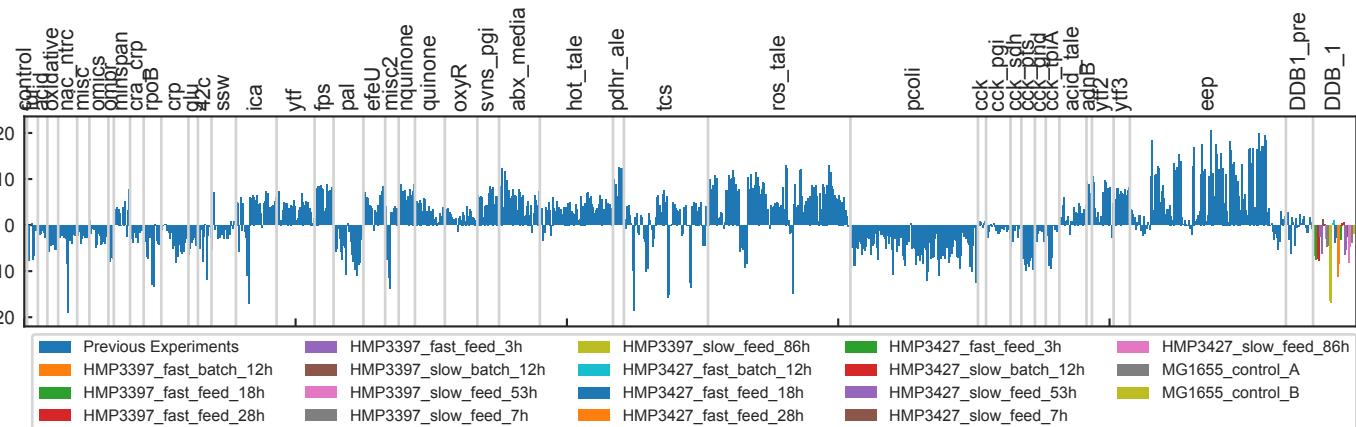
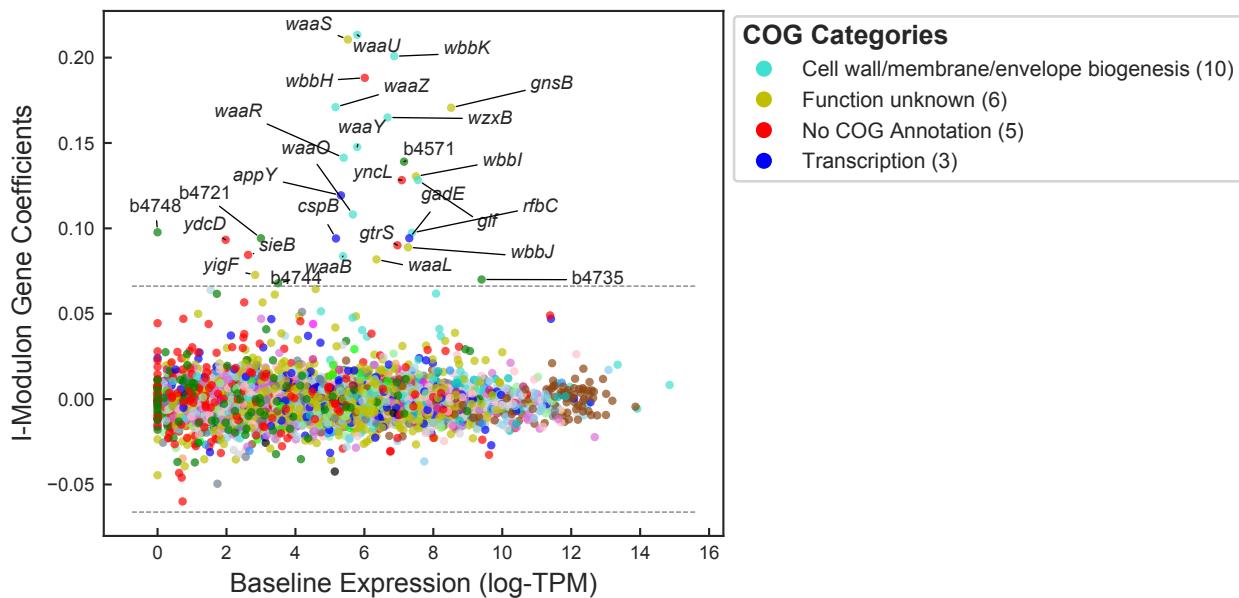


KdpE I-Modulon

Regulated by: kdpE

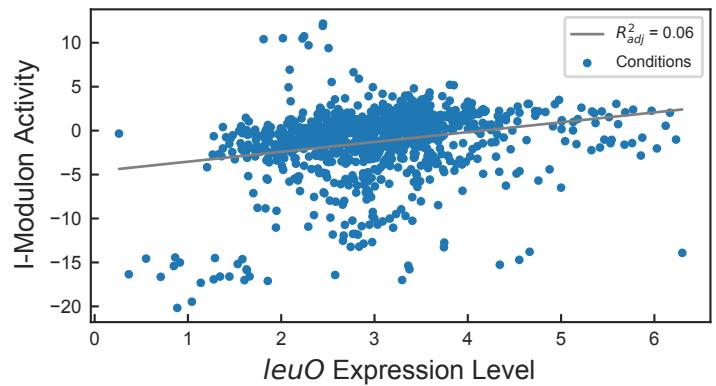
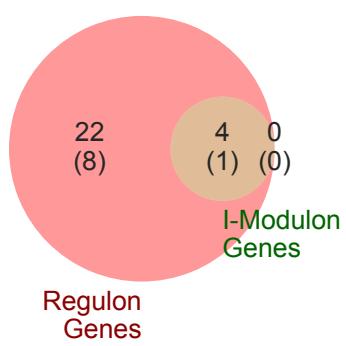
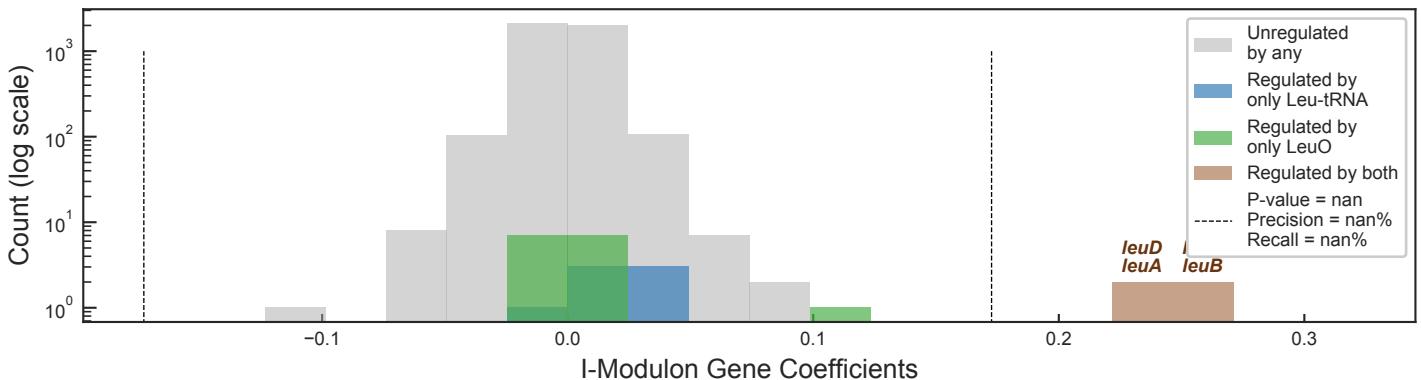
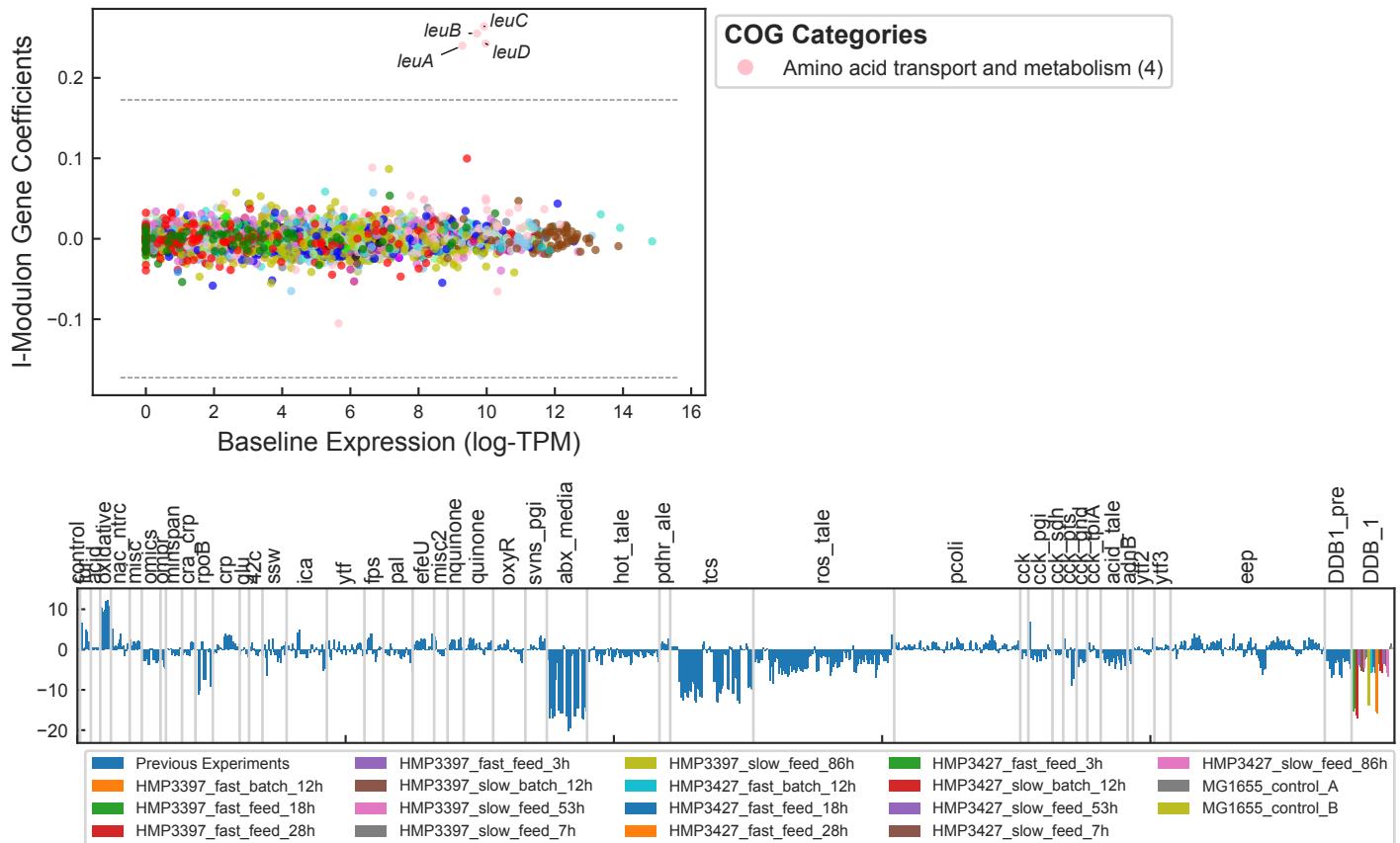


LPS I-Modulon



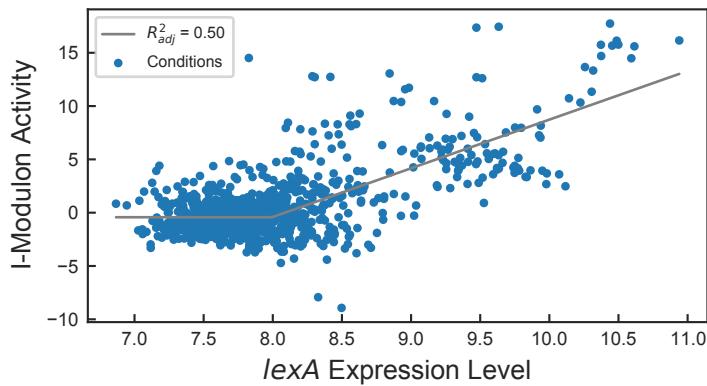
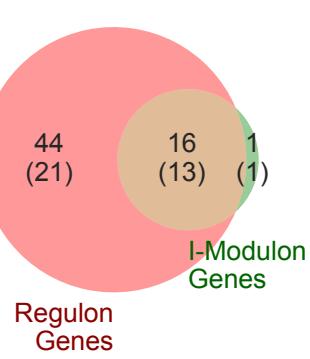
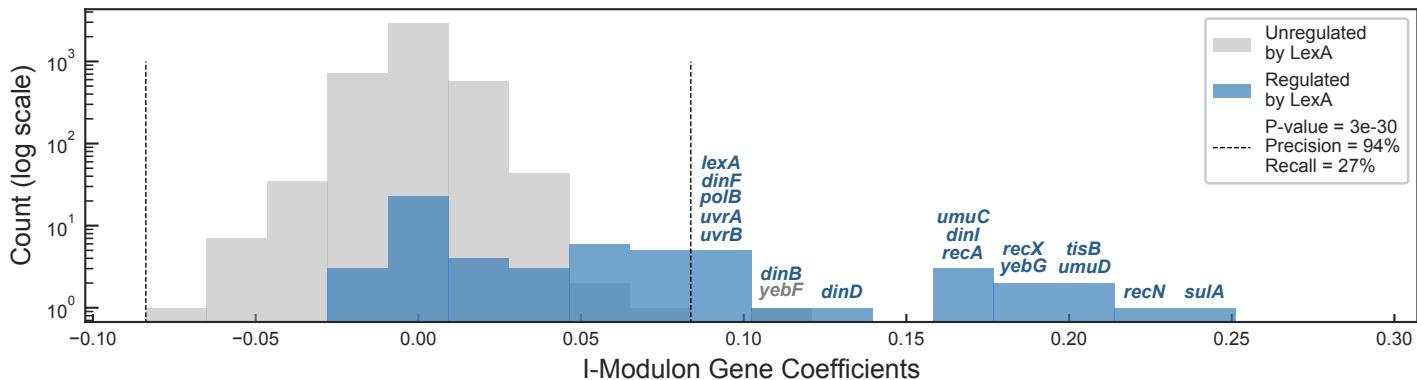
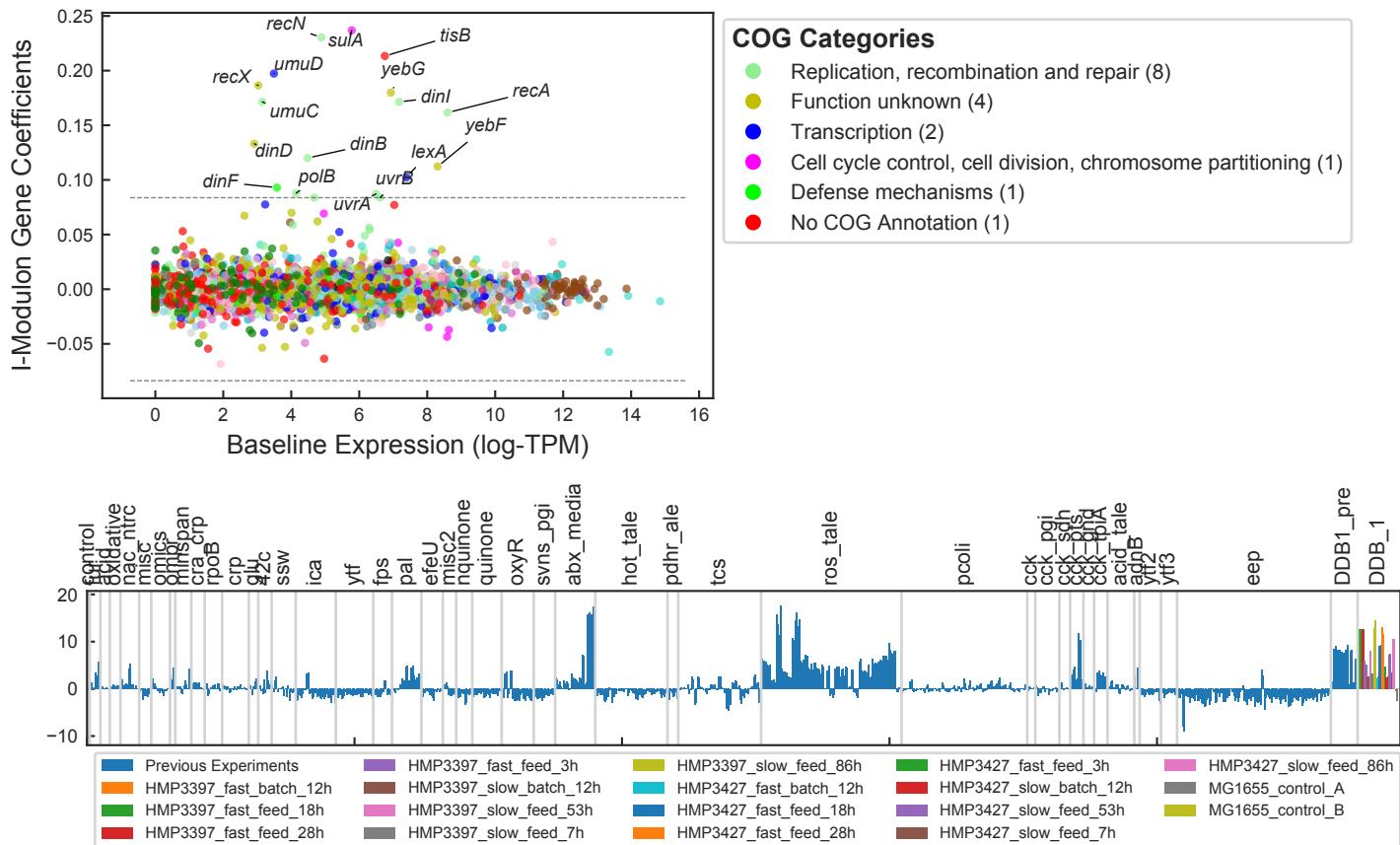
Leucine I-Modulon

Regulated by: leu-tRNA/leuO



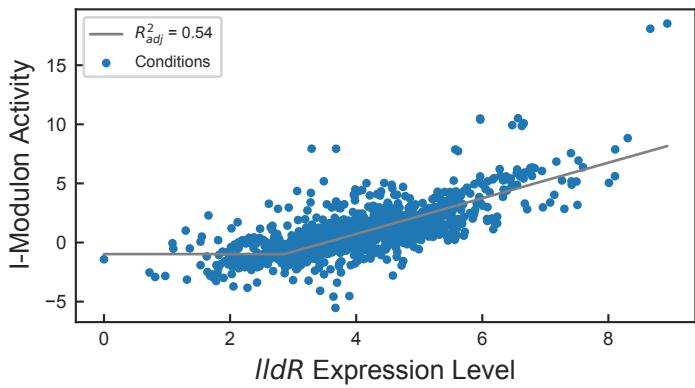
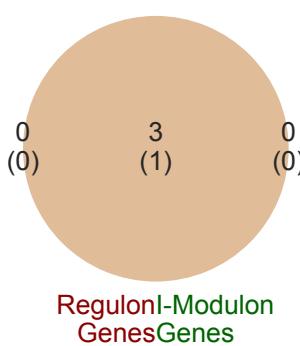
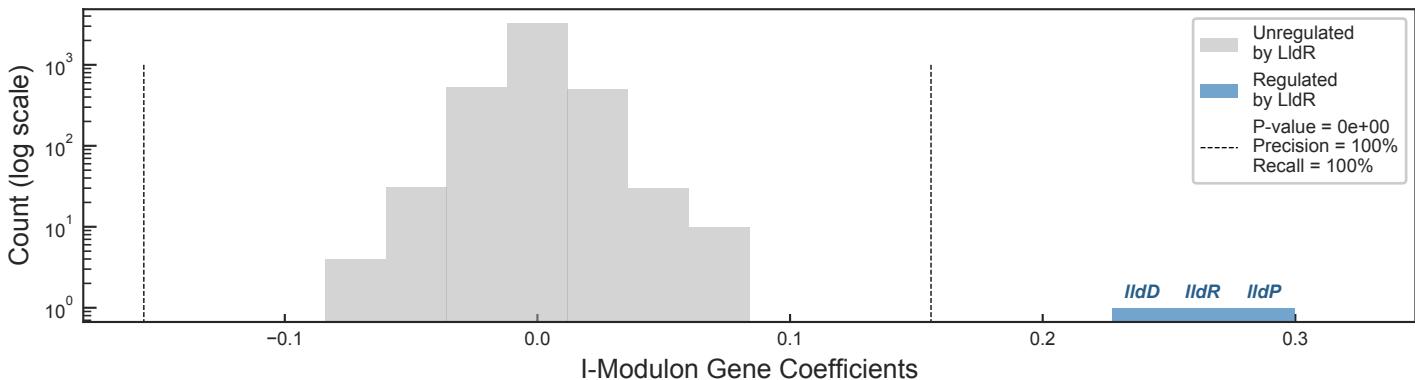
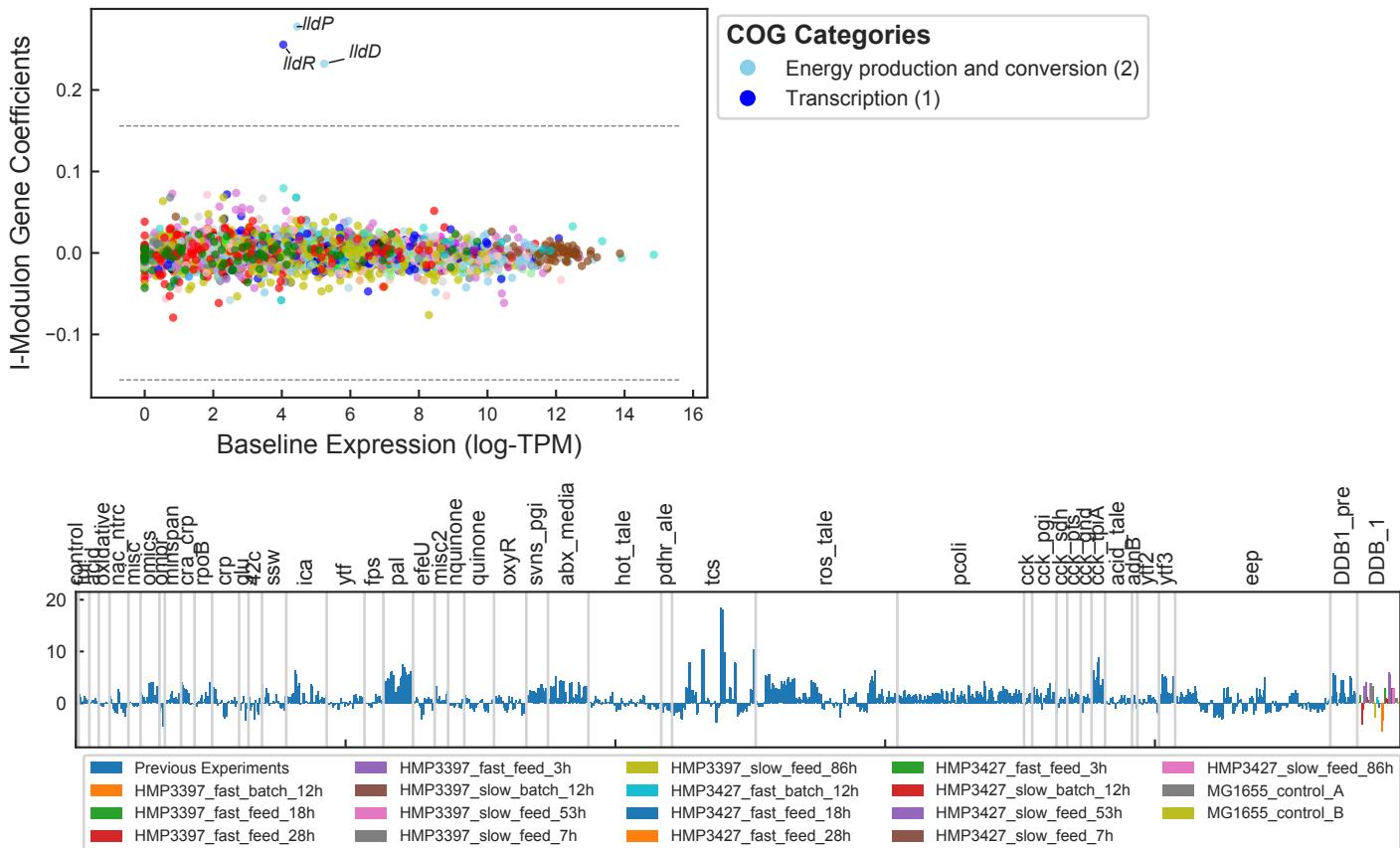
LexA I-Modulon

Regulated by: lexA



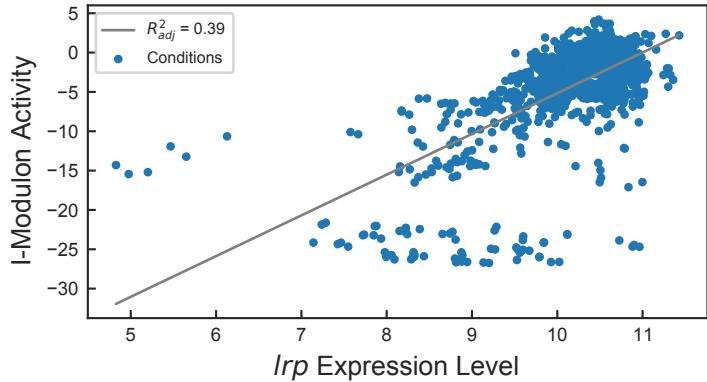
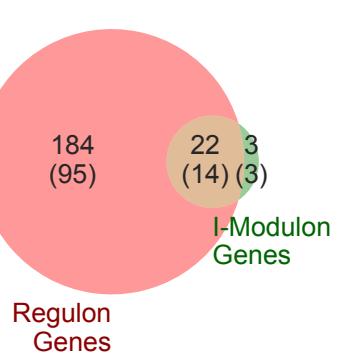
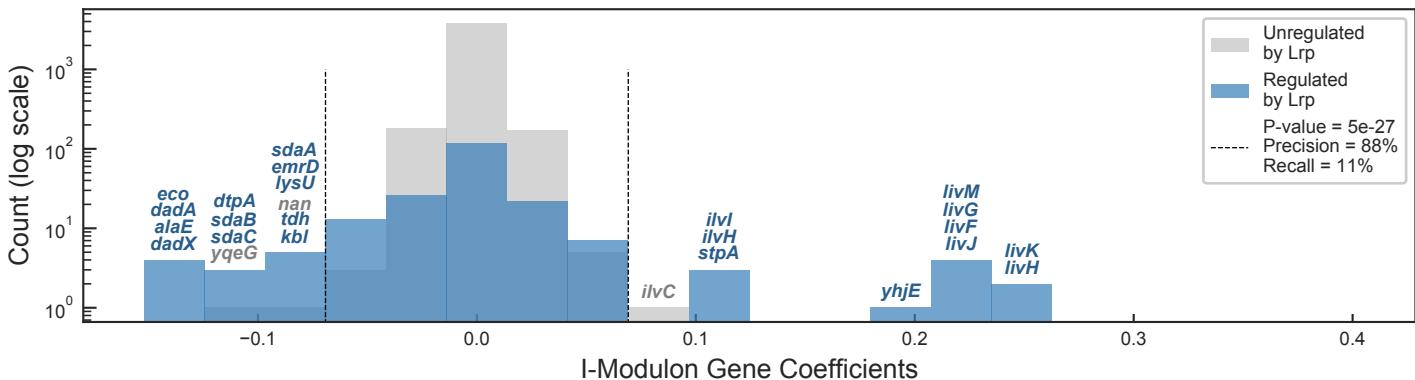
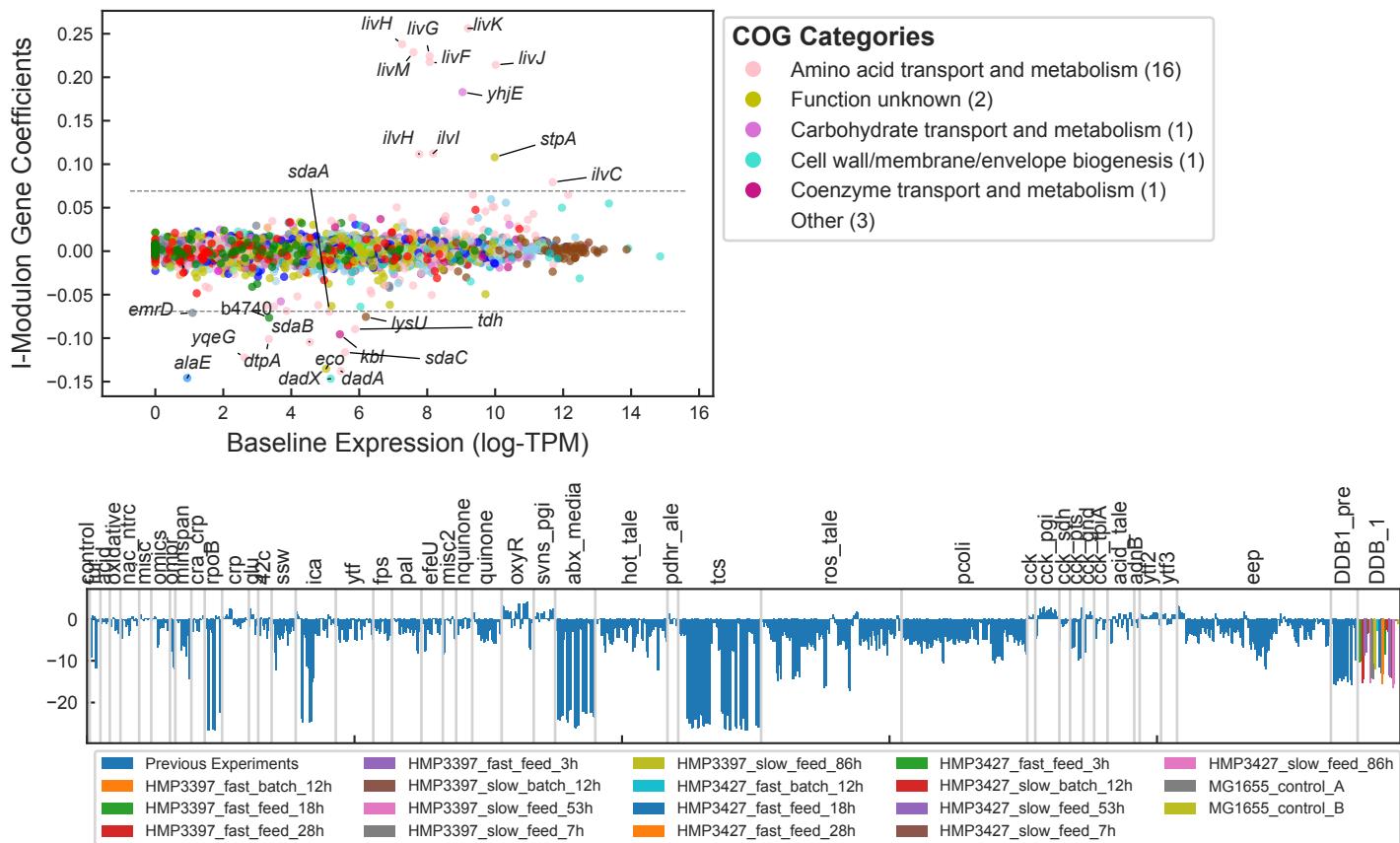
IldR I-Modulon

Regulated by: IldR



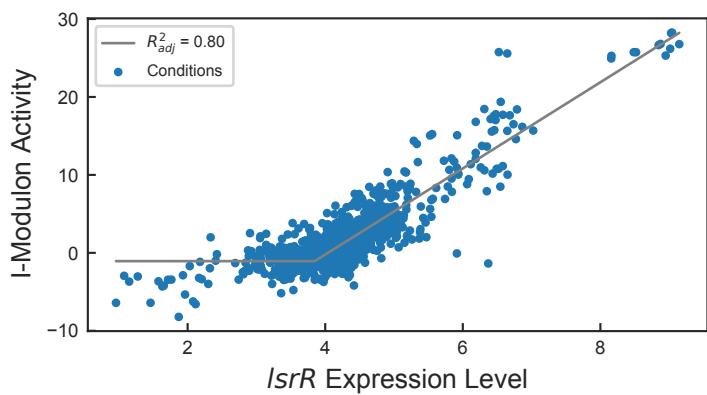
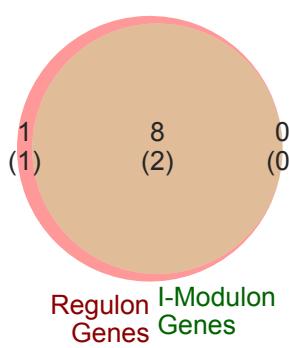
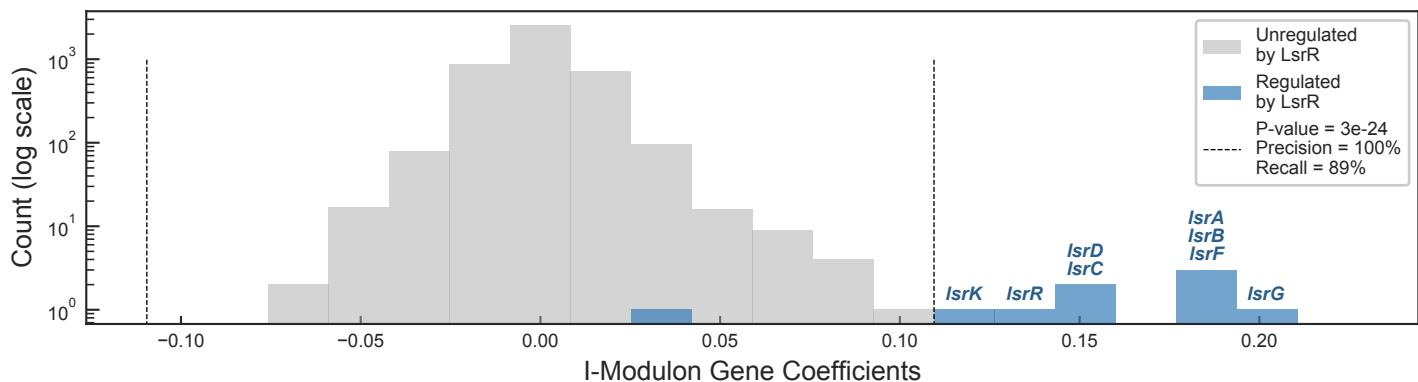
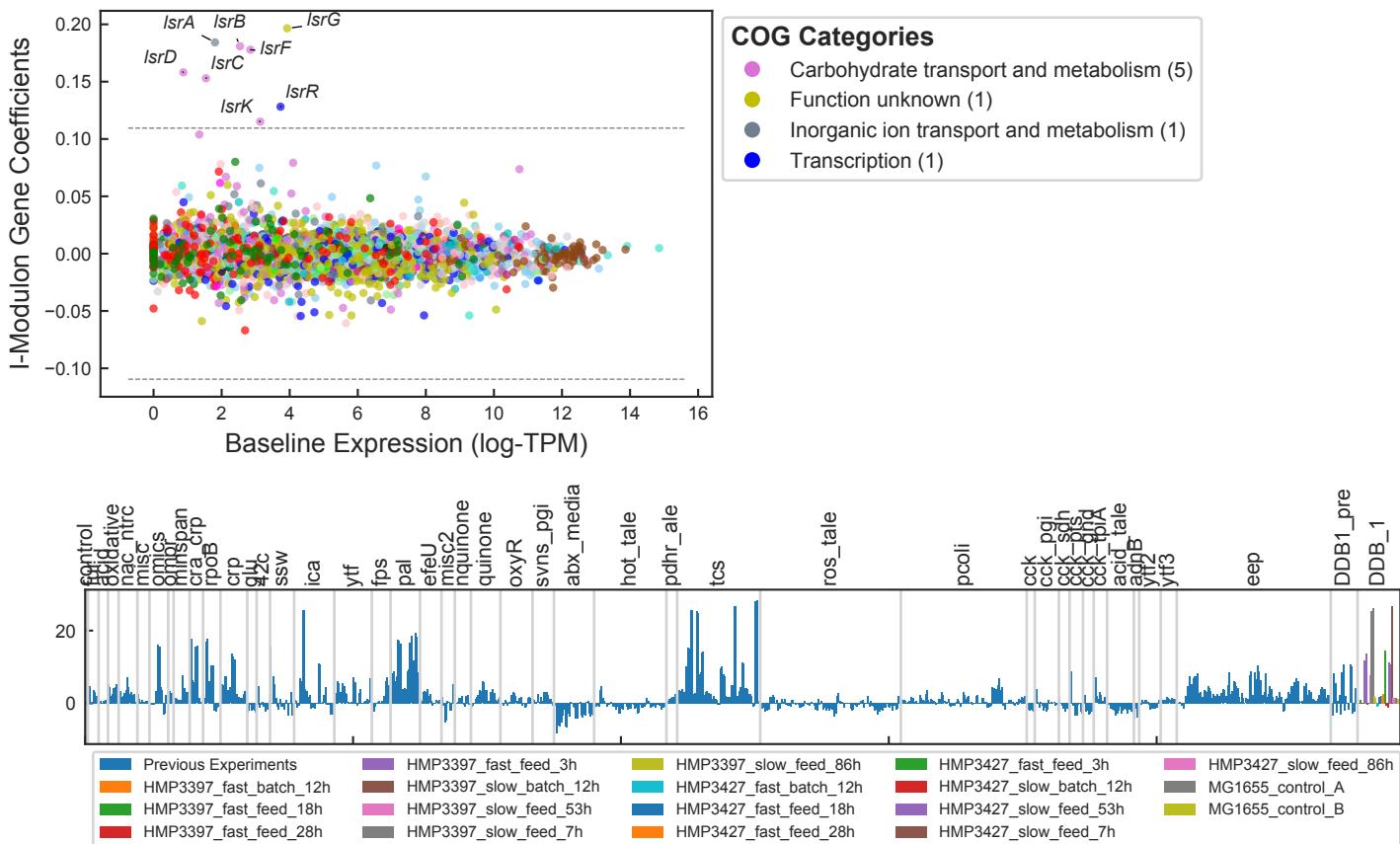
Lrp I-Modulon

Regulated by: Lrp



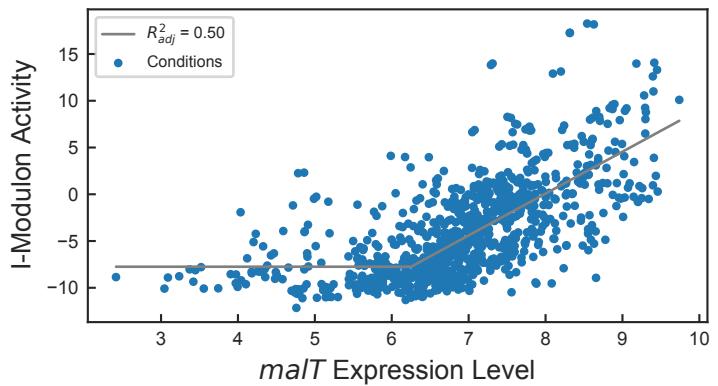
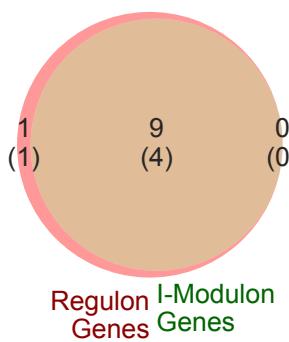
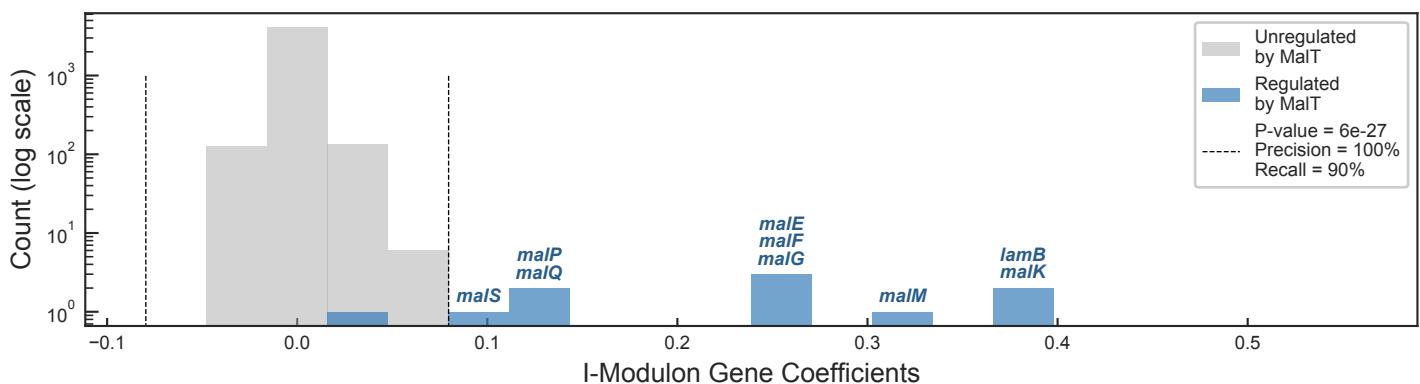
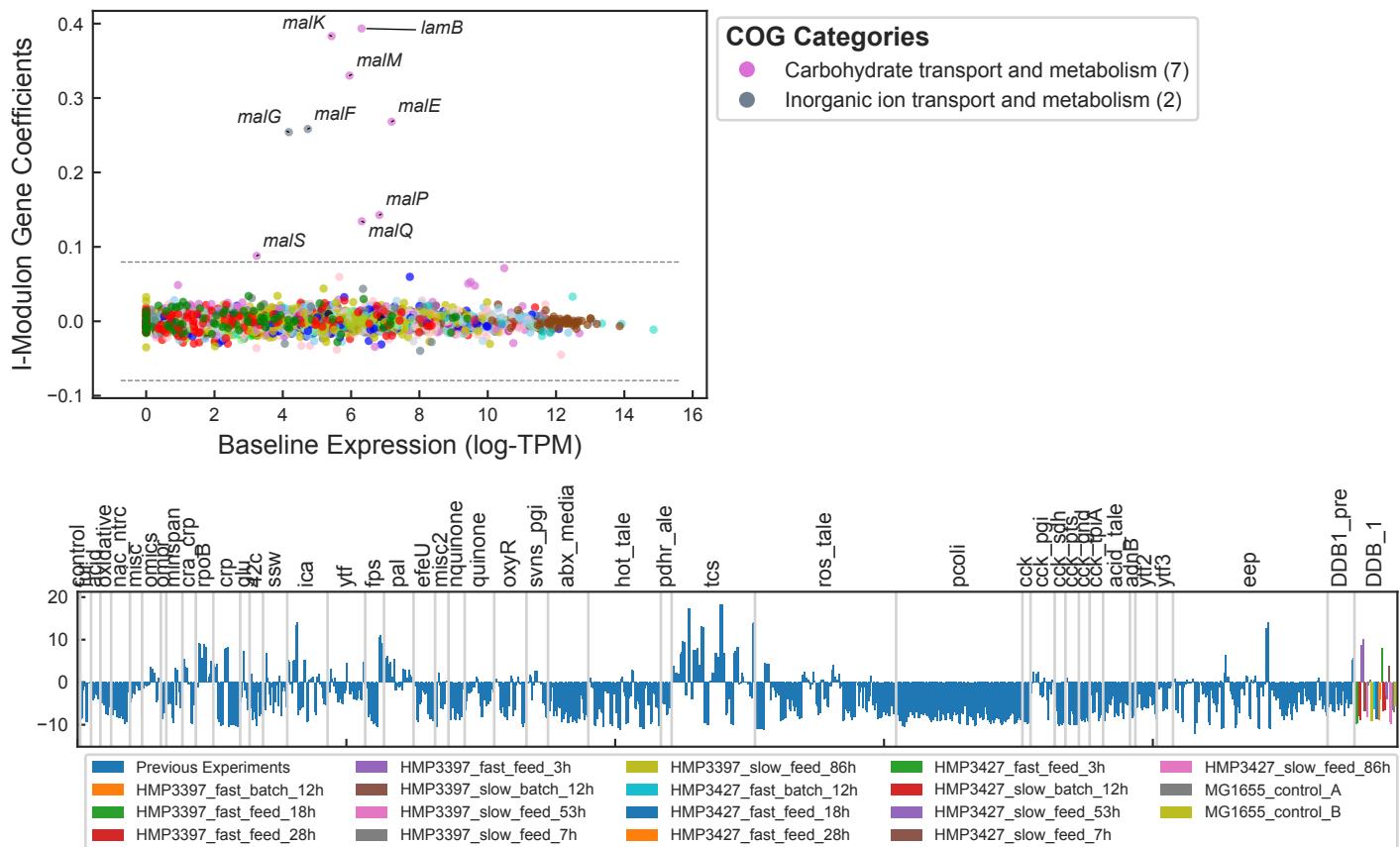
LsrR I-Modulon

Regulated by: LsrR



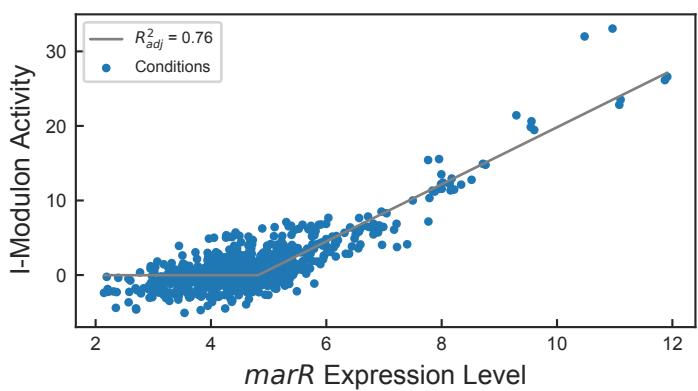
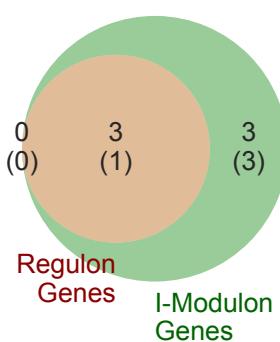
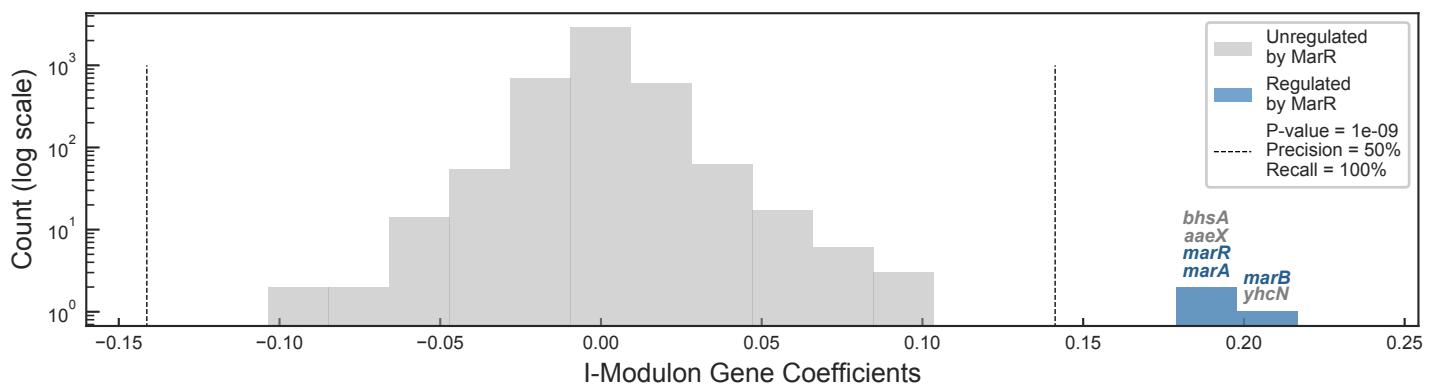
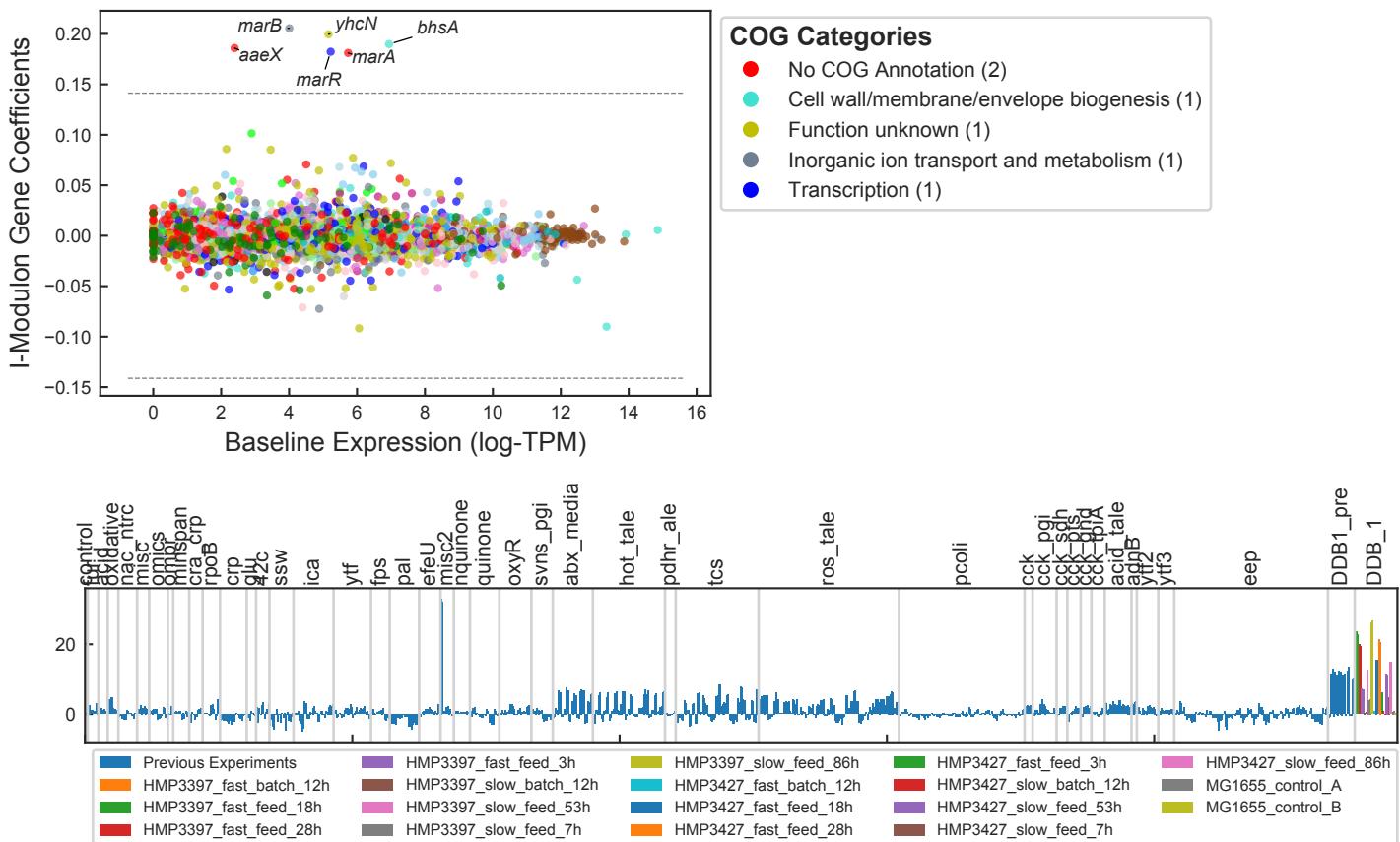
MalT I-Modulon

Regulated by: malt



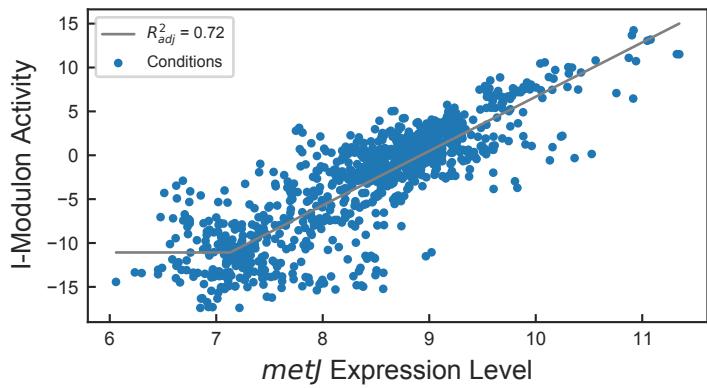
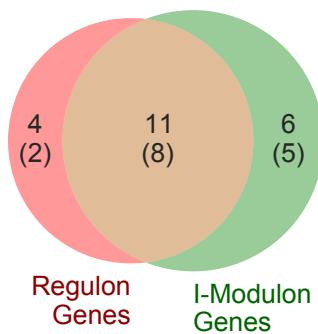
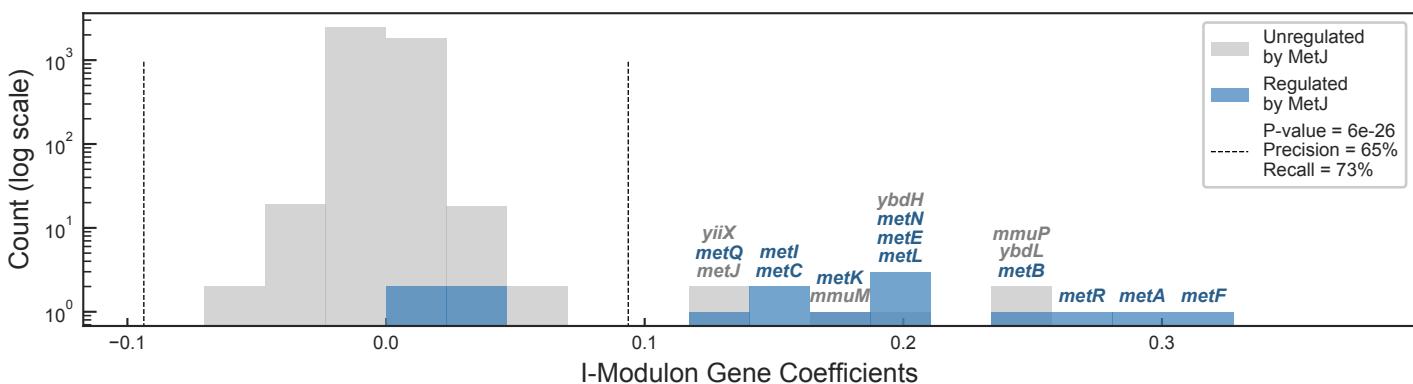
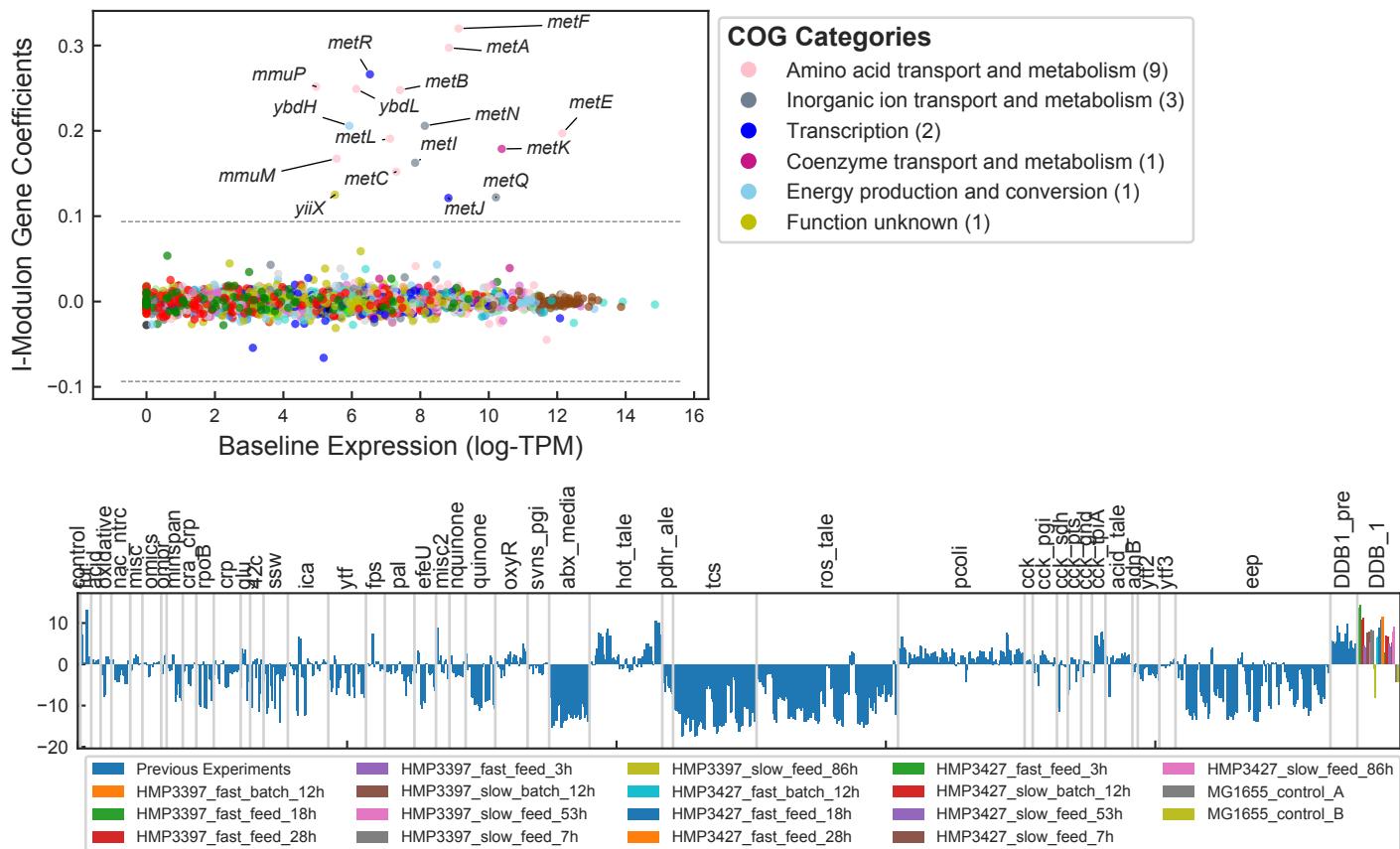
MarR I-Modulon

Regulated by: marR

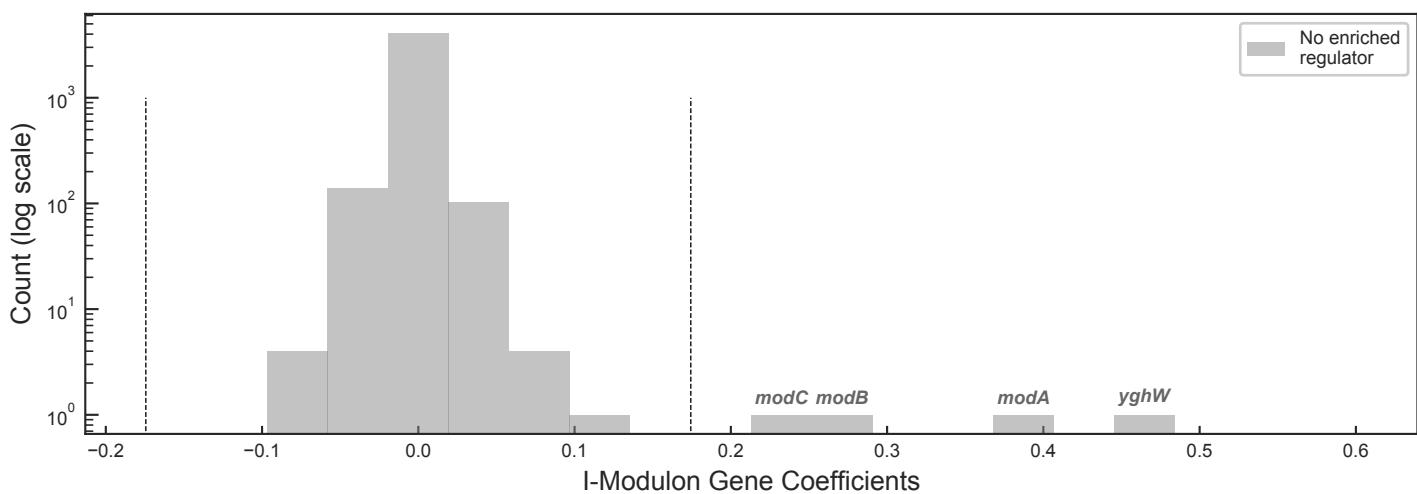
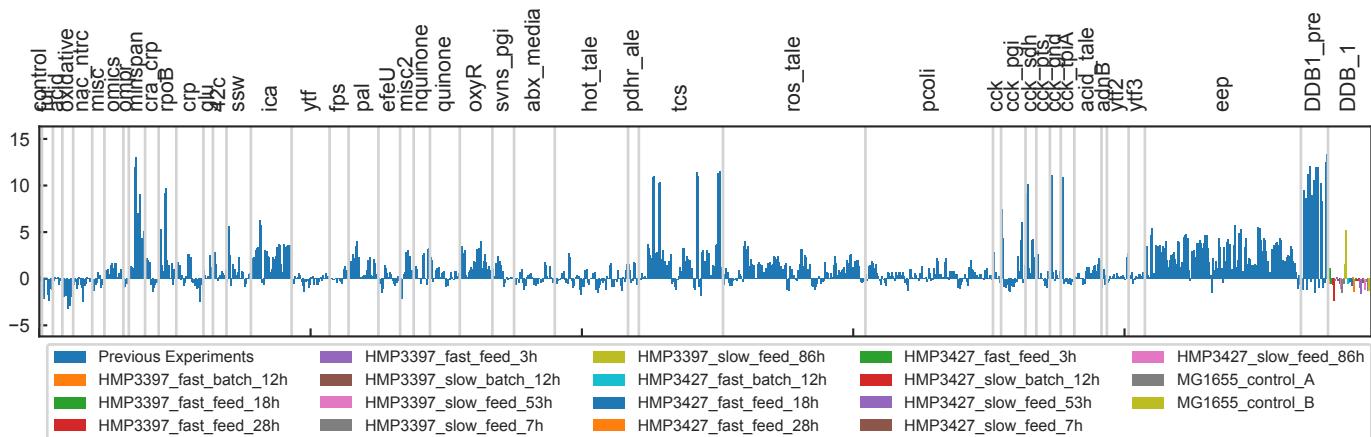
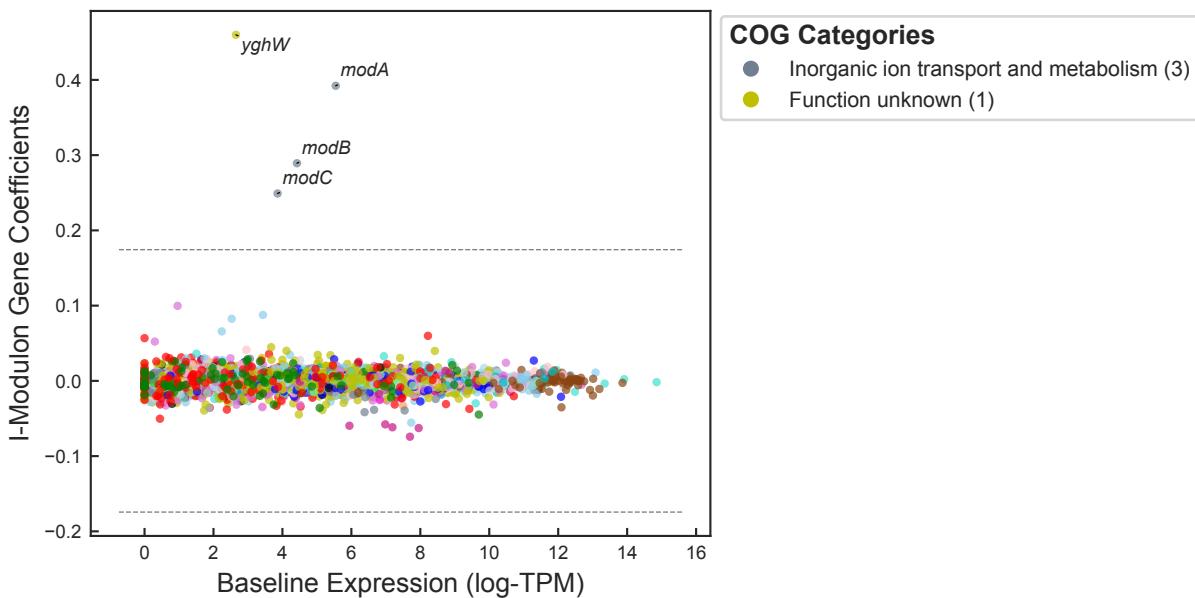


MetJ I-Modulon

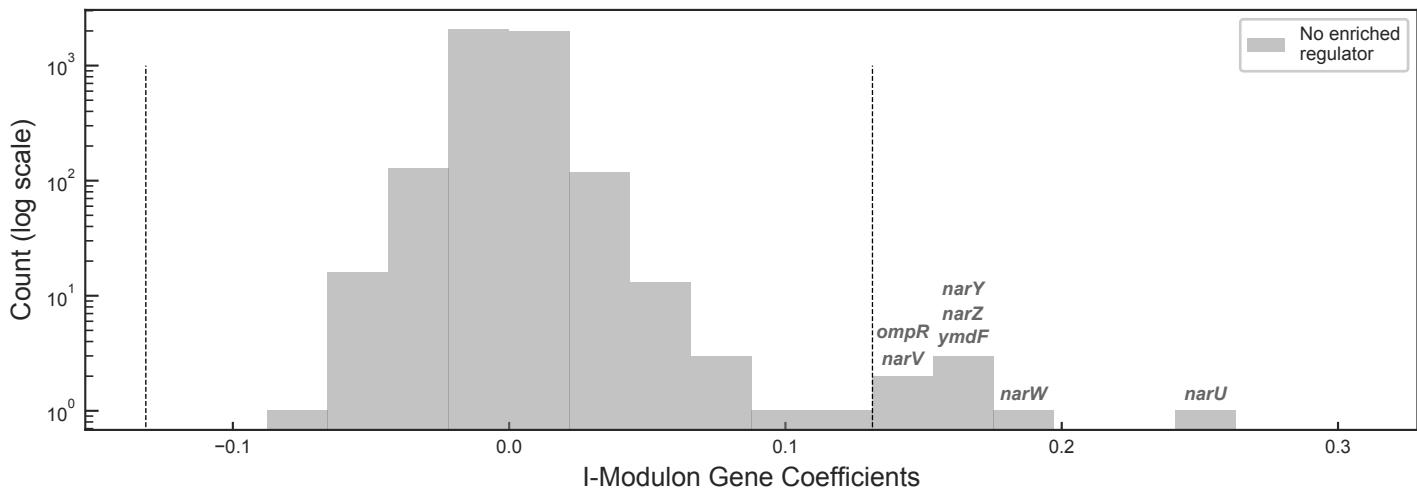
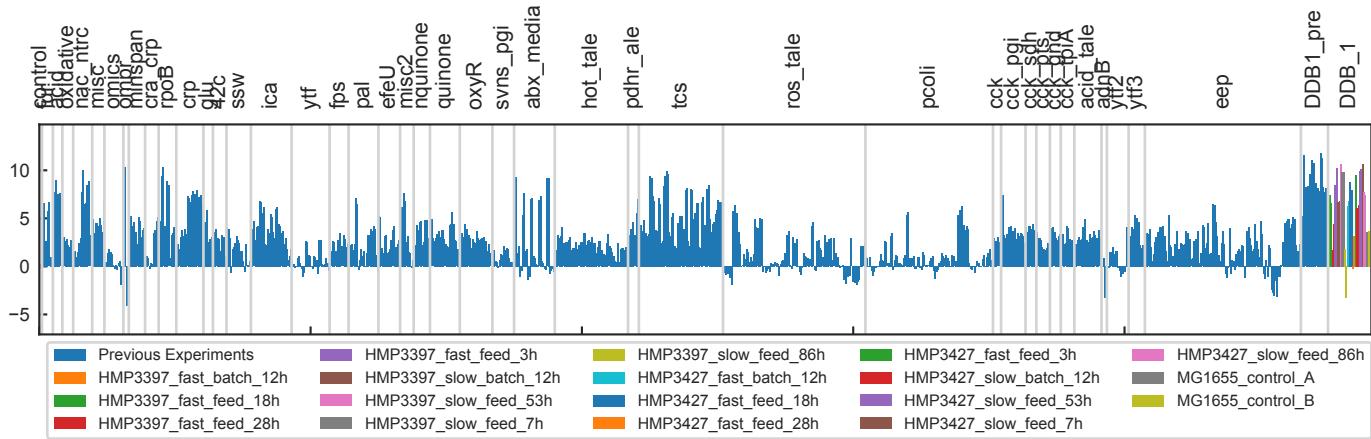
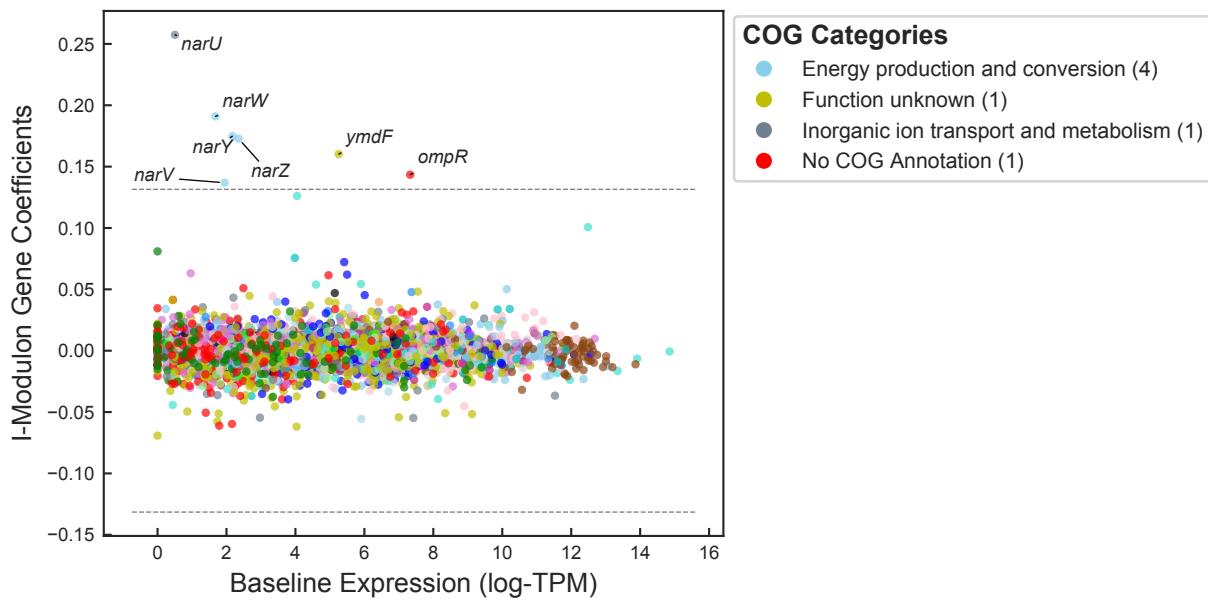
Regulated by: metJ



Mo – Transport I-Modulon

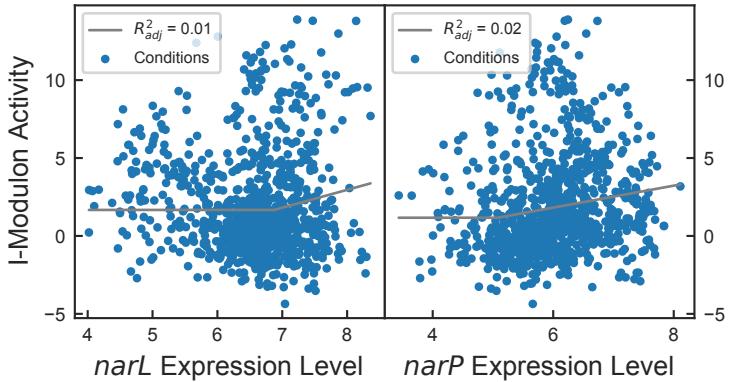
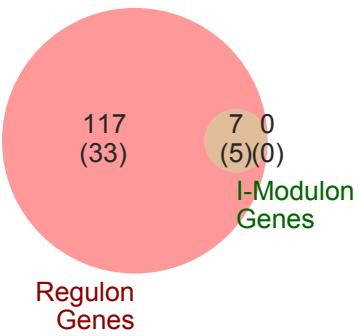
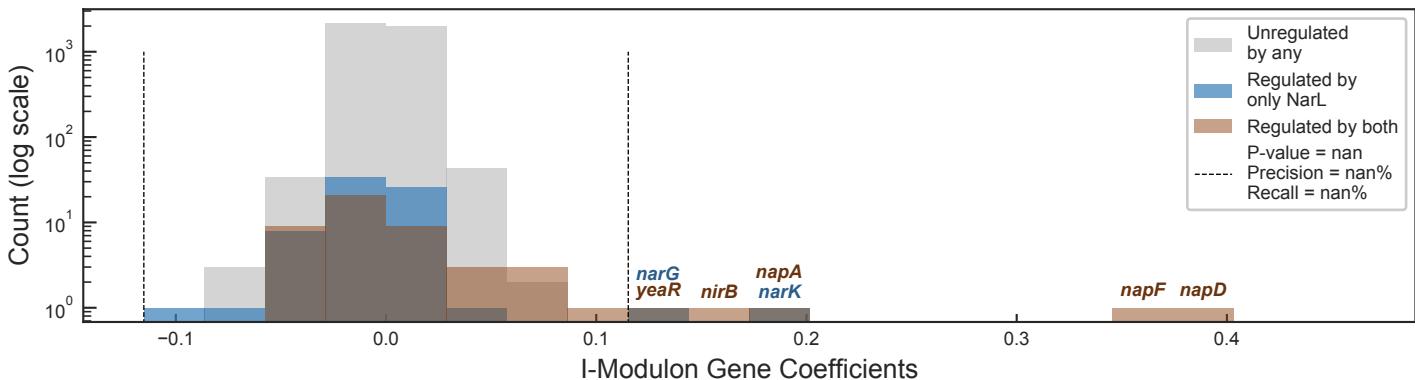
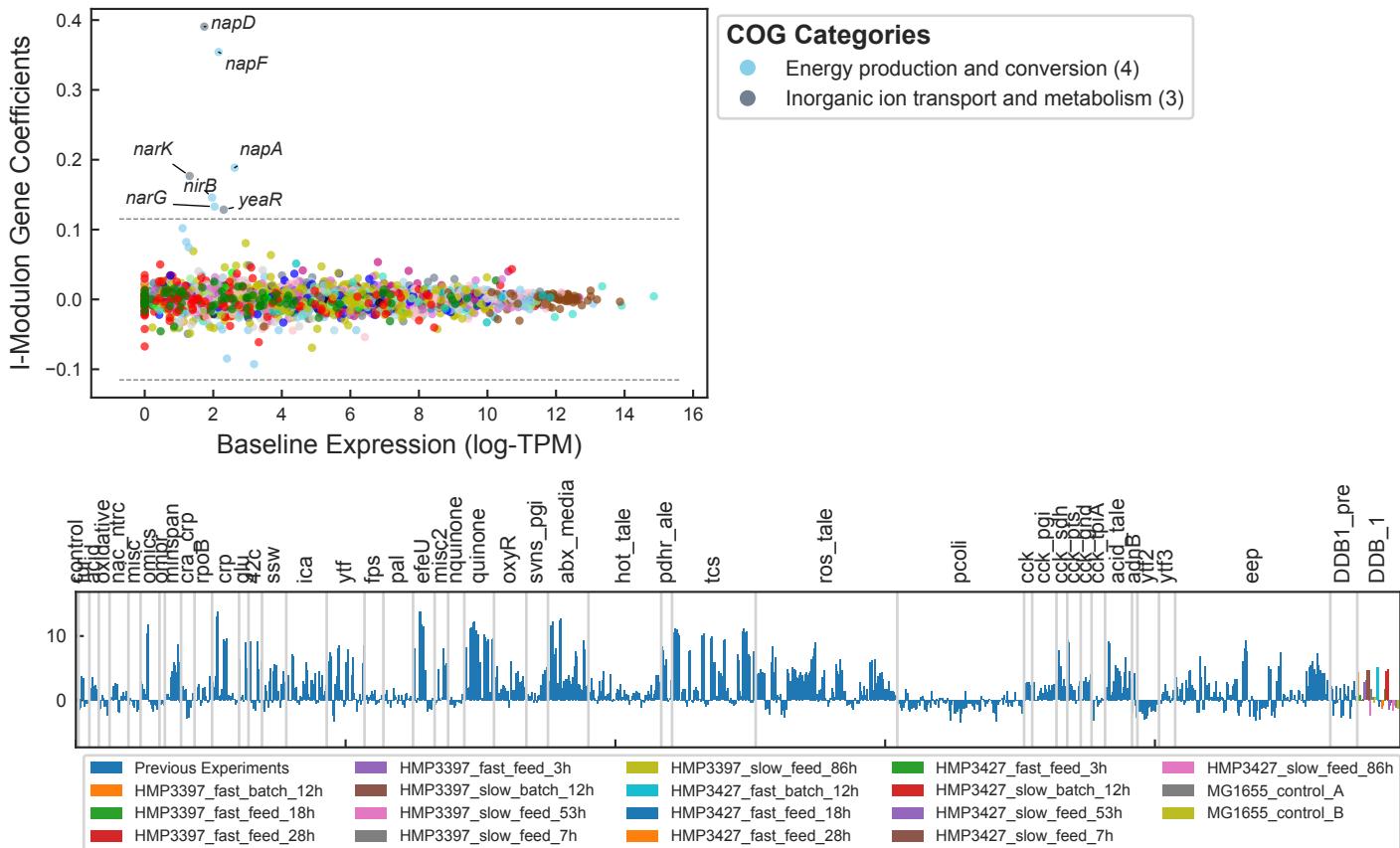


N – Red – Z I-Modulon

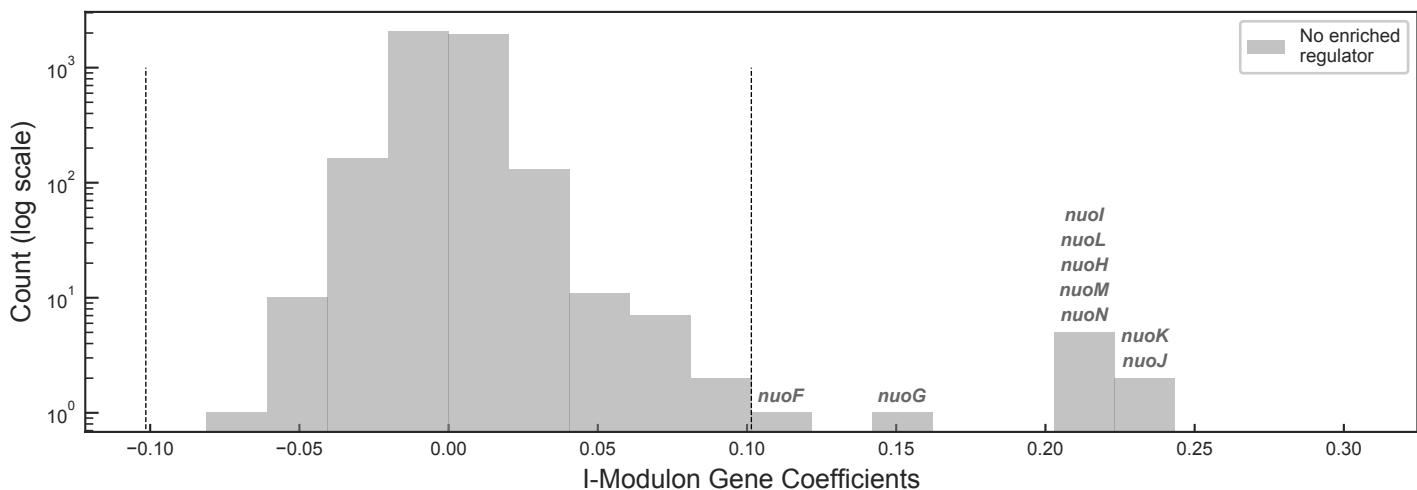
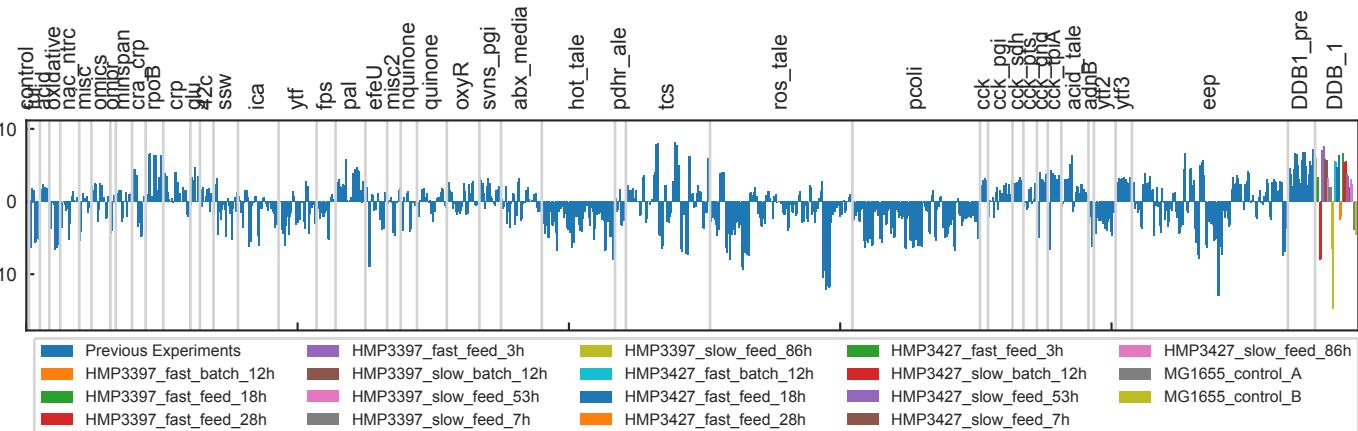
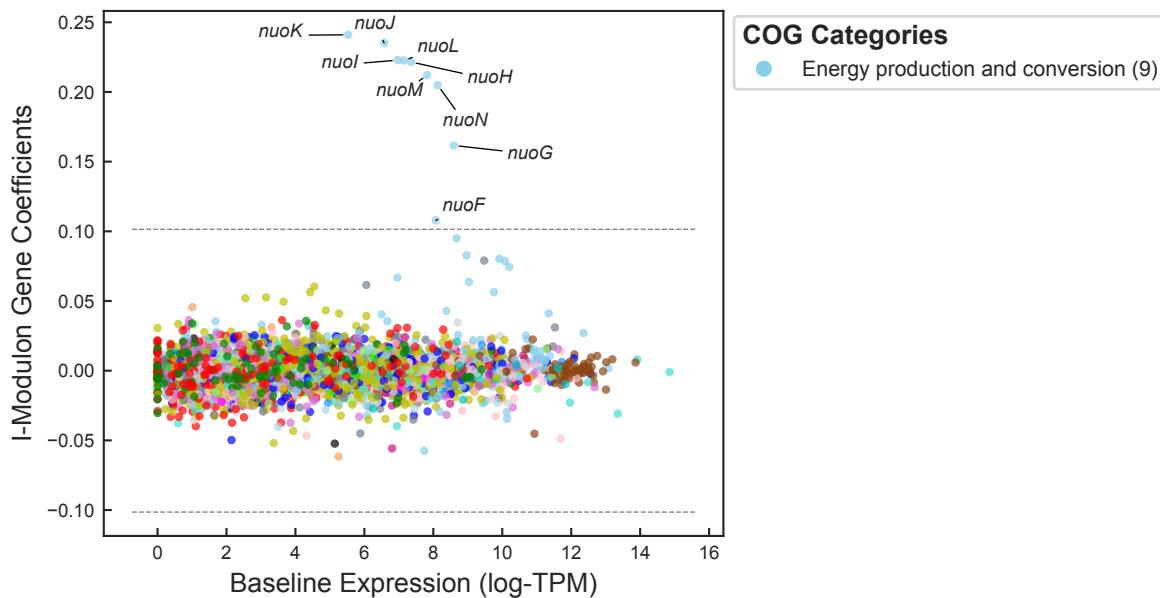


N – related I-Modulon

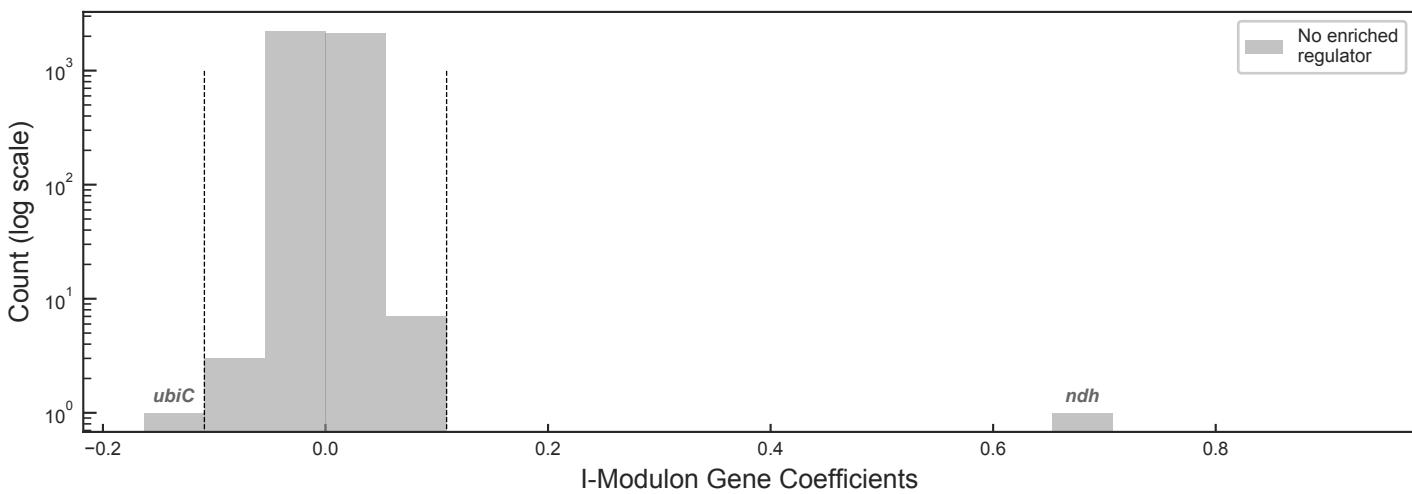
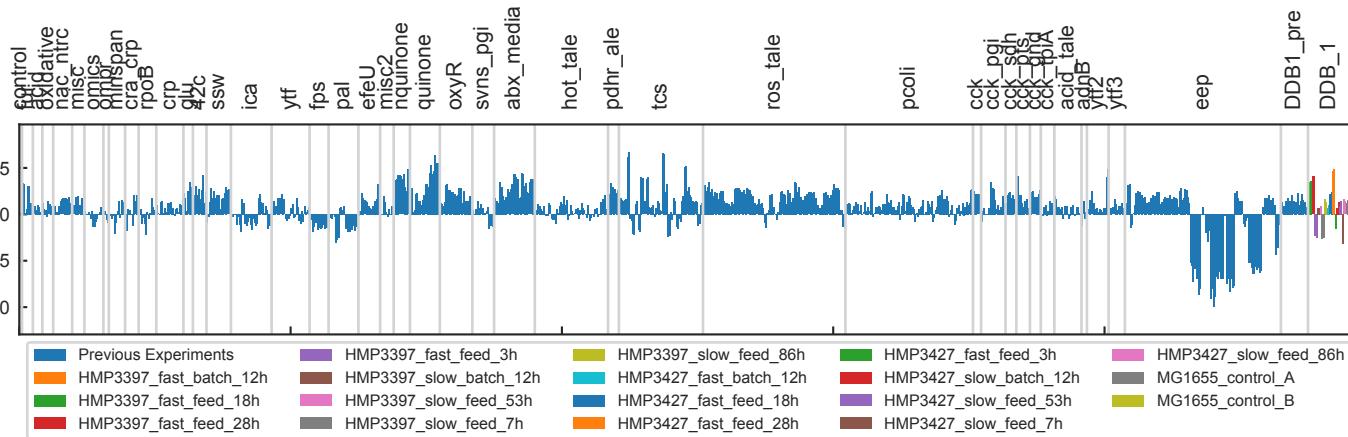
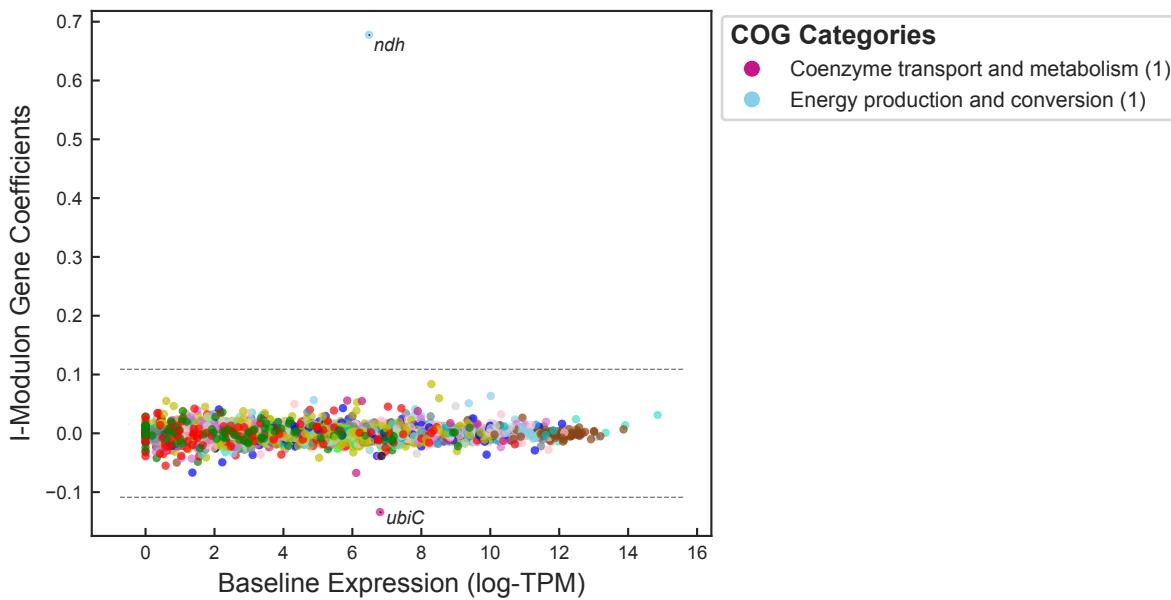
Regulated by: narL/narP



NDH – 1 I-Modulon

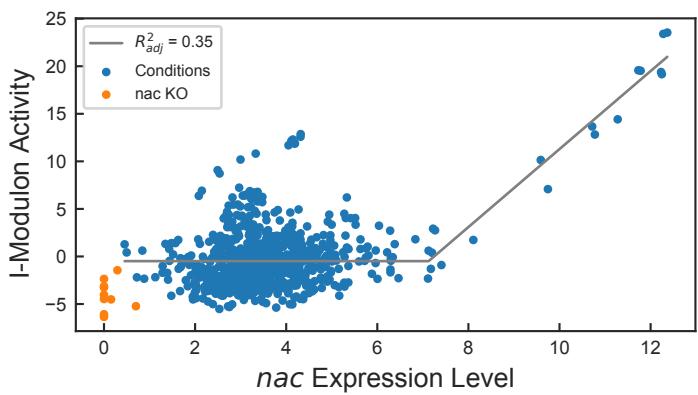
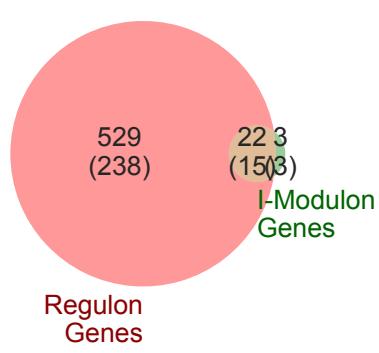
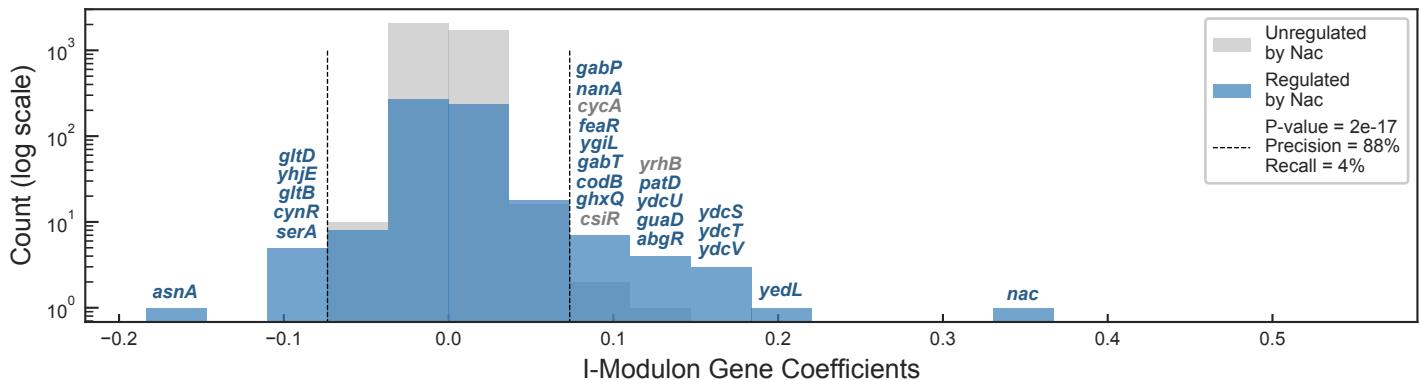
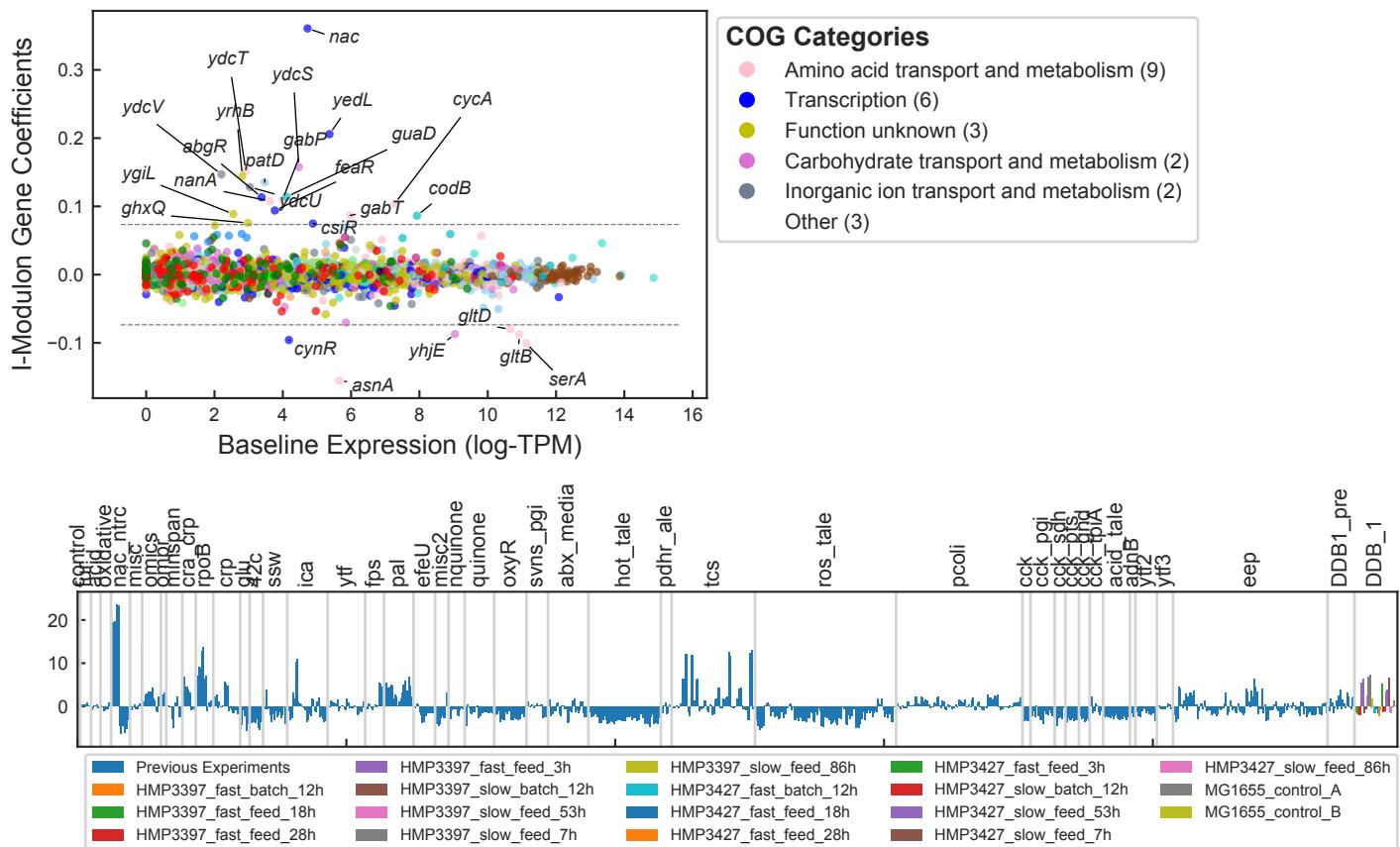


NDH – 2 I-Modulon

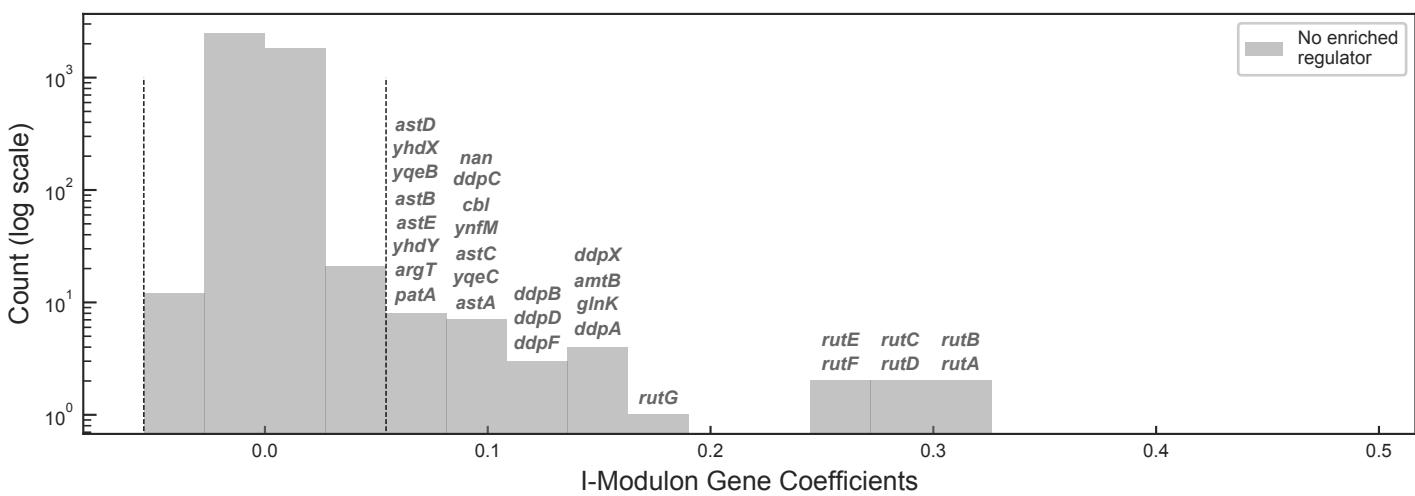
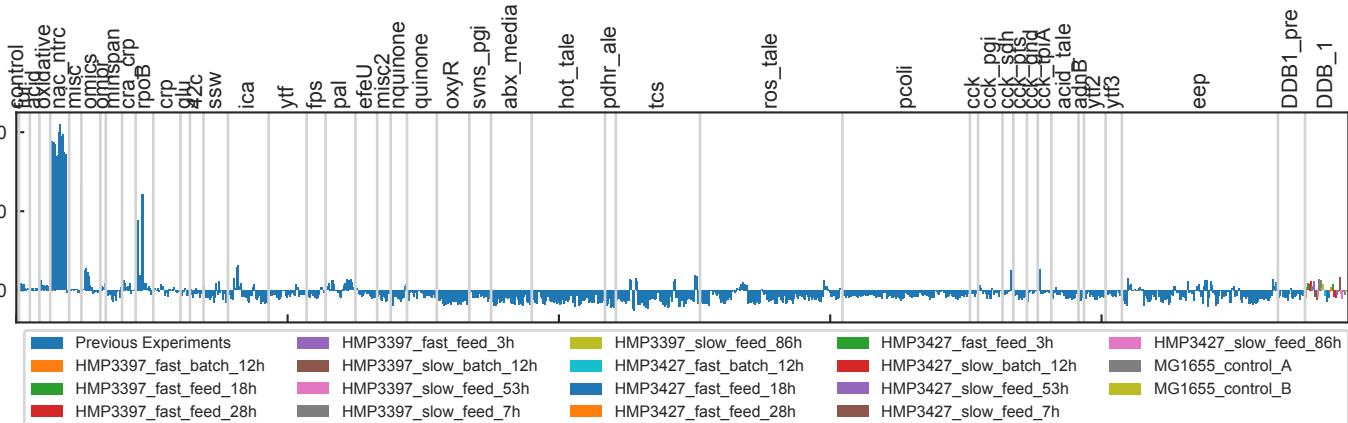
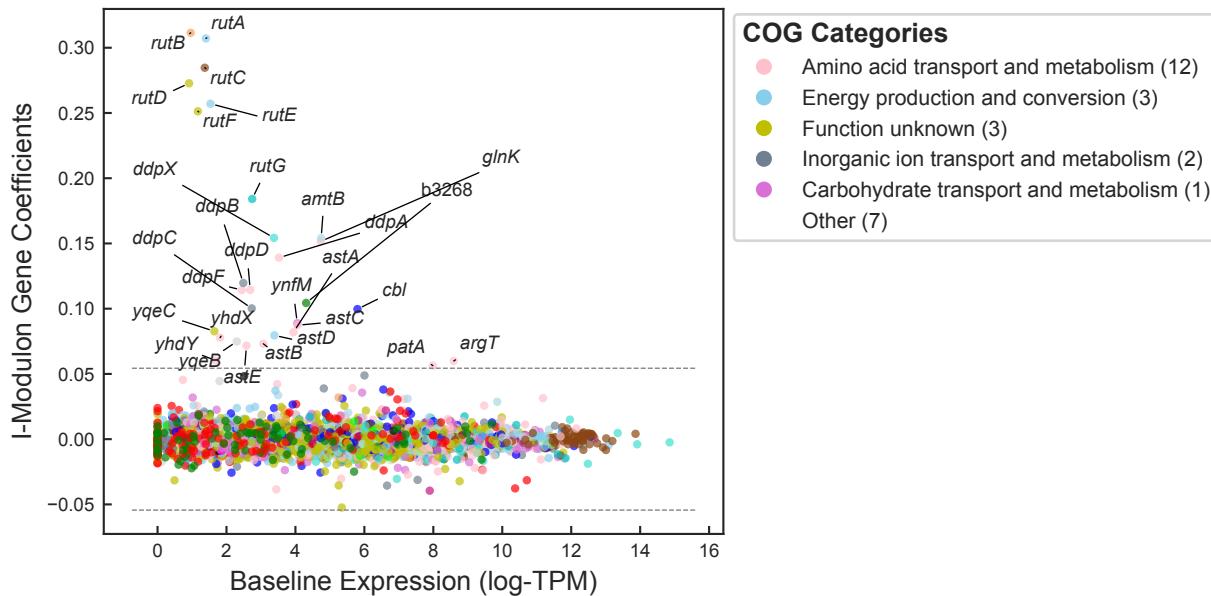


Nac I-Modulon

Regulated by: nac

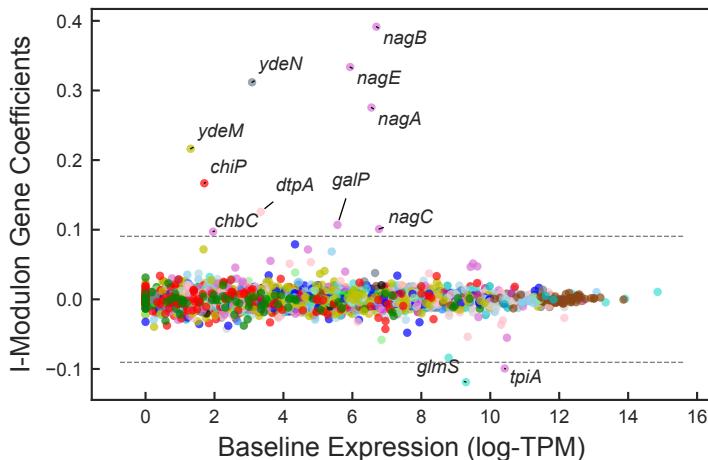


Nac – NtrC – deletions I-Modulon



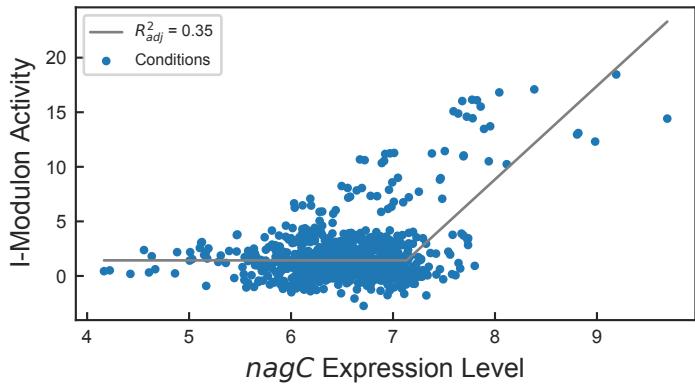
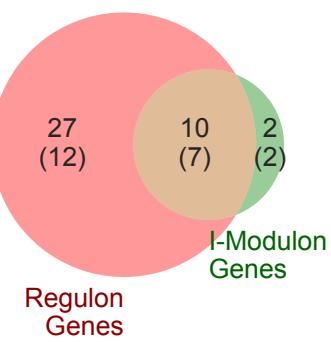
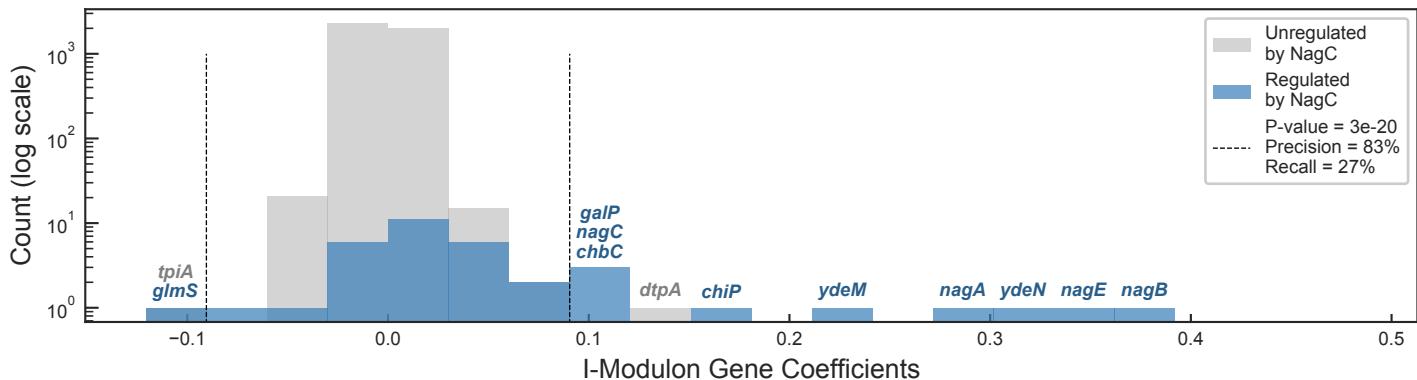
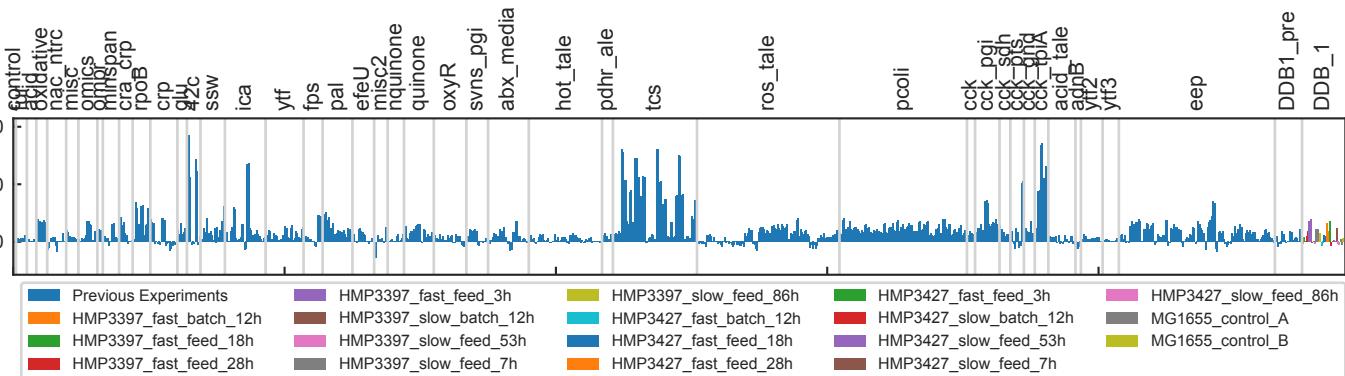
NagC I-Modulon

Regulated by: nagC



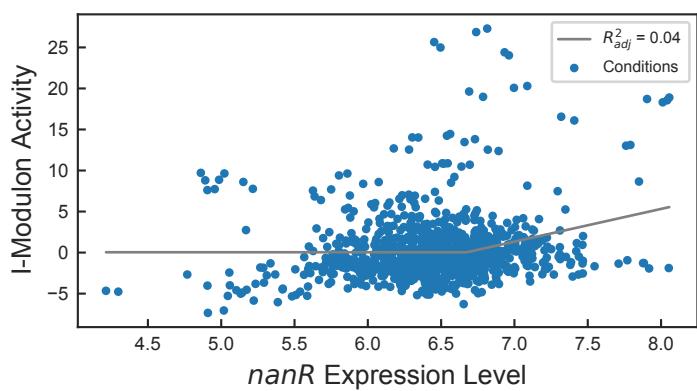
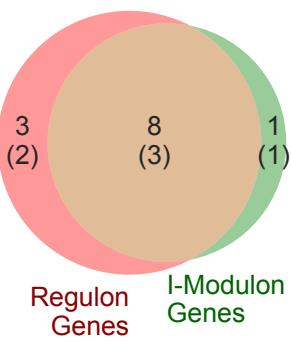
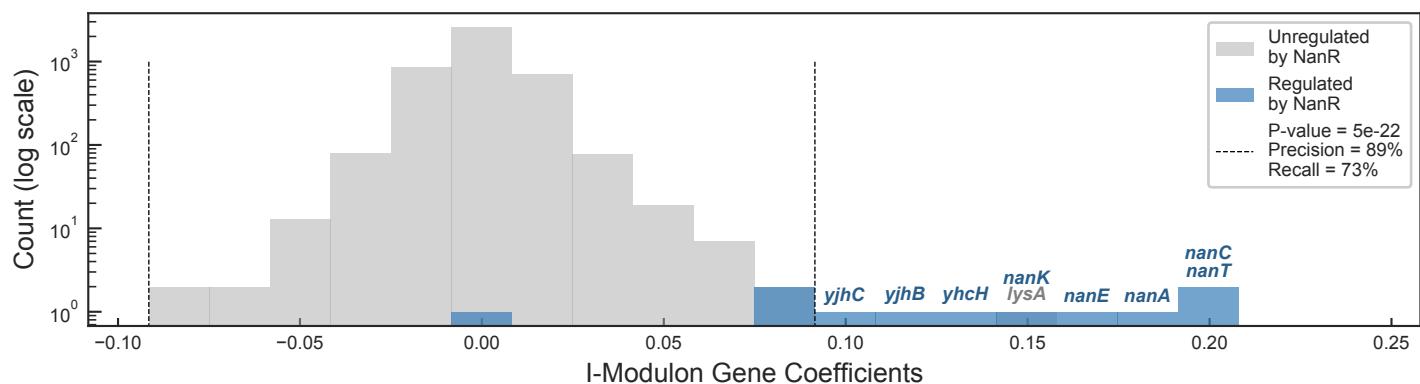
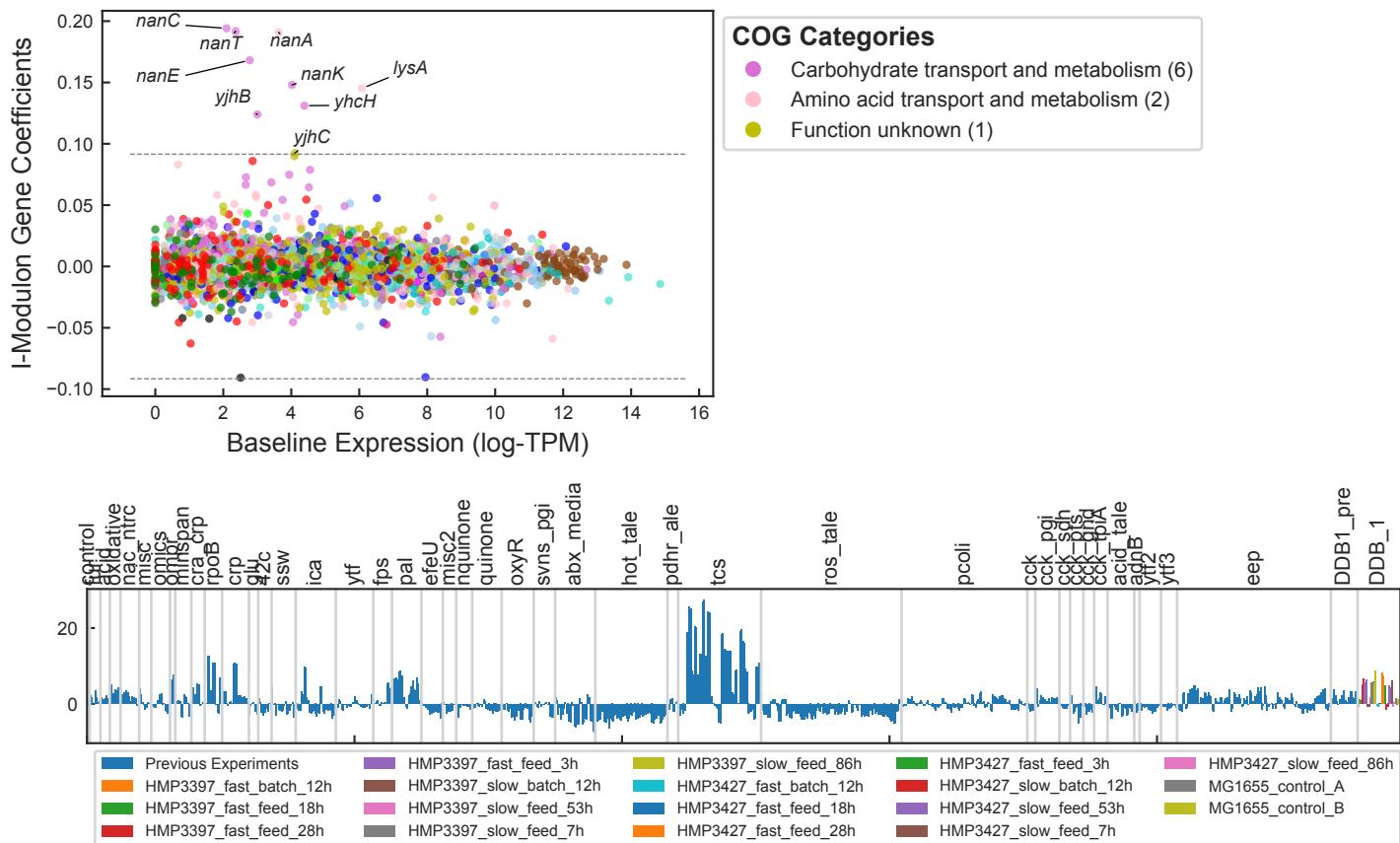
COG Categories

- Carbohydrate transport and metabolism (7)
- Amino acid transport and metabolism (1)
- Cell wall/membrane/envelope biogenesis (1)
- Function unknown (1)
- Inorganic ion transport and metabolism (1)
- No COG Annotation (1)



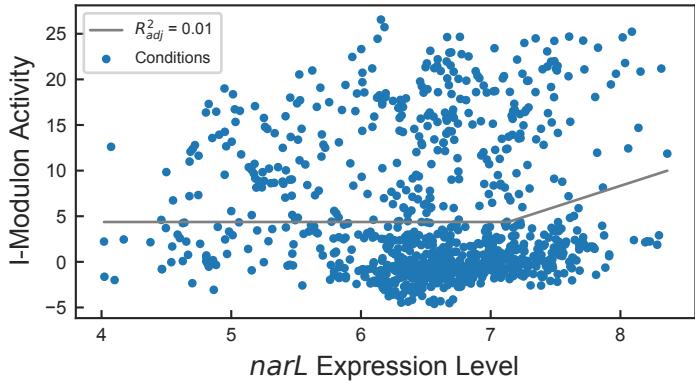
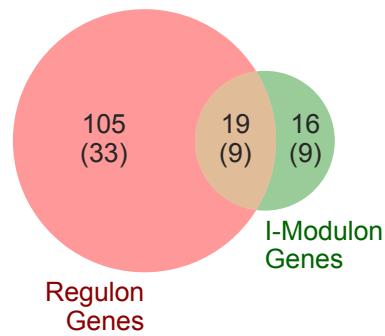
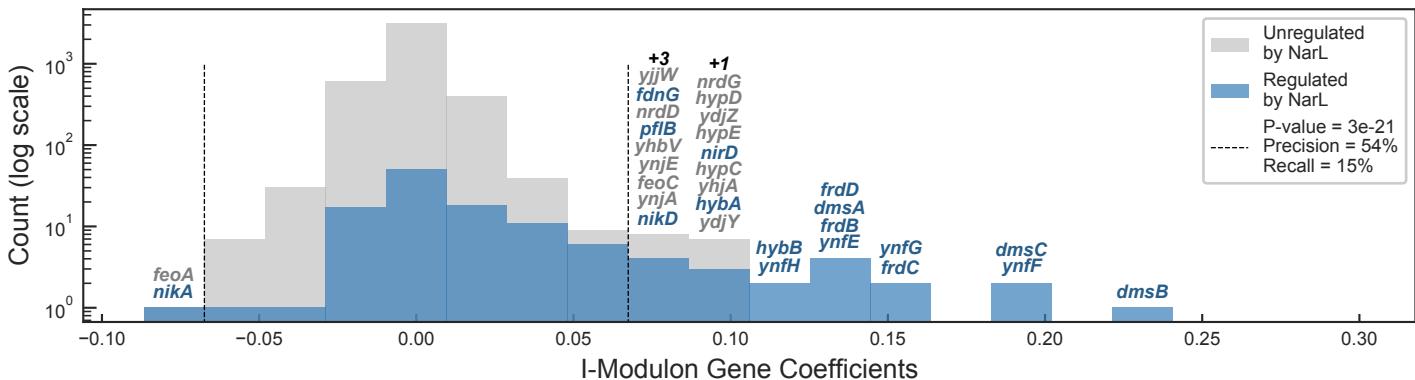
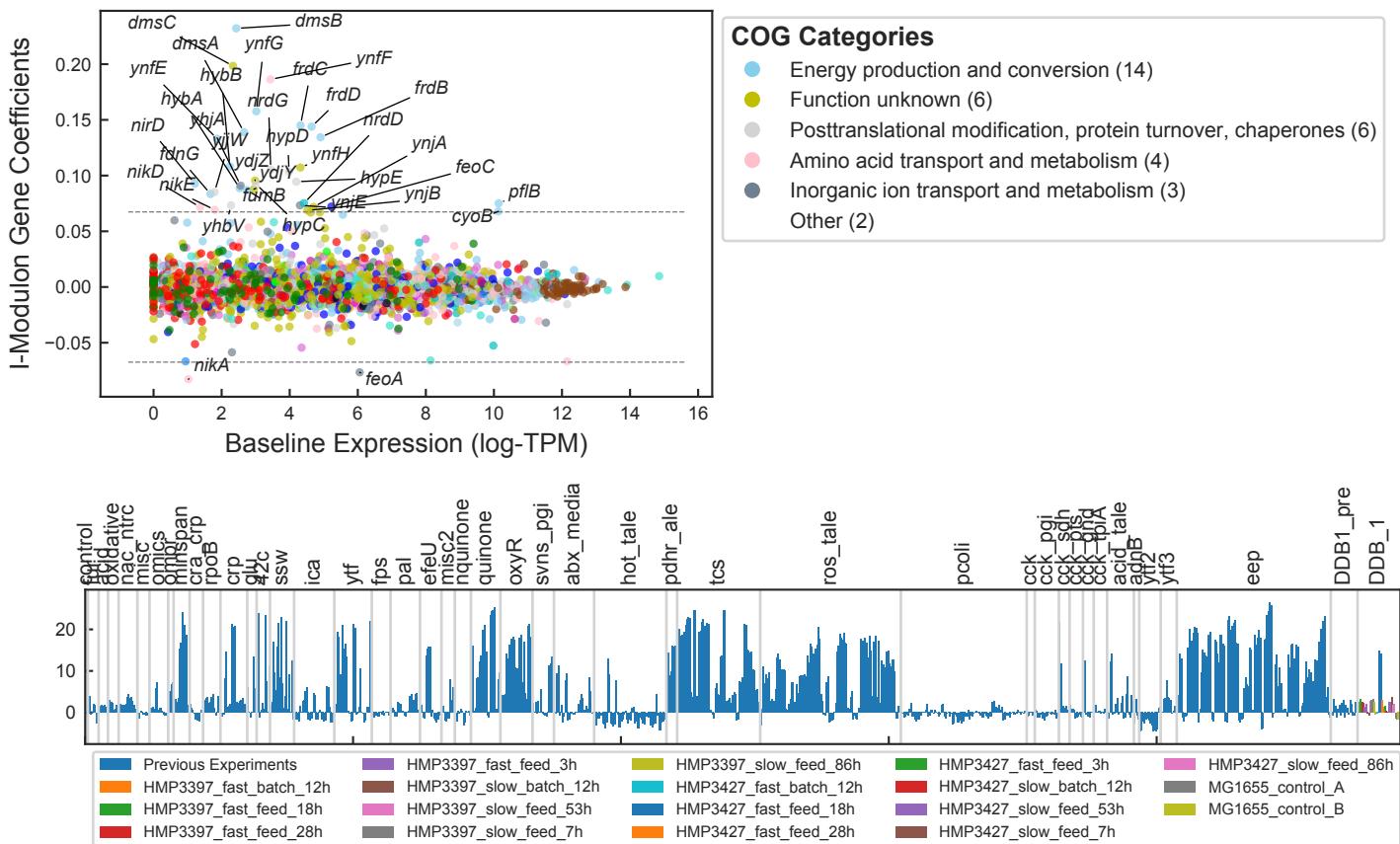
NanR I-Modulon

Regulated by: nanR



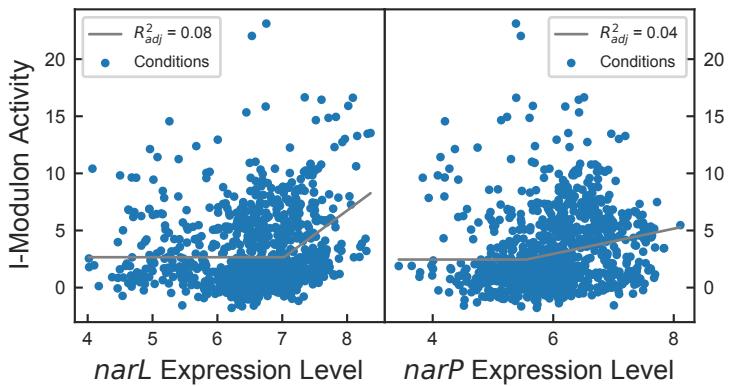
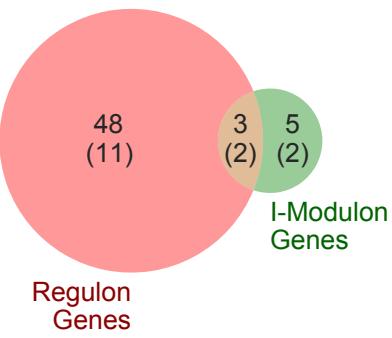
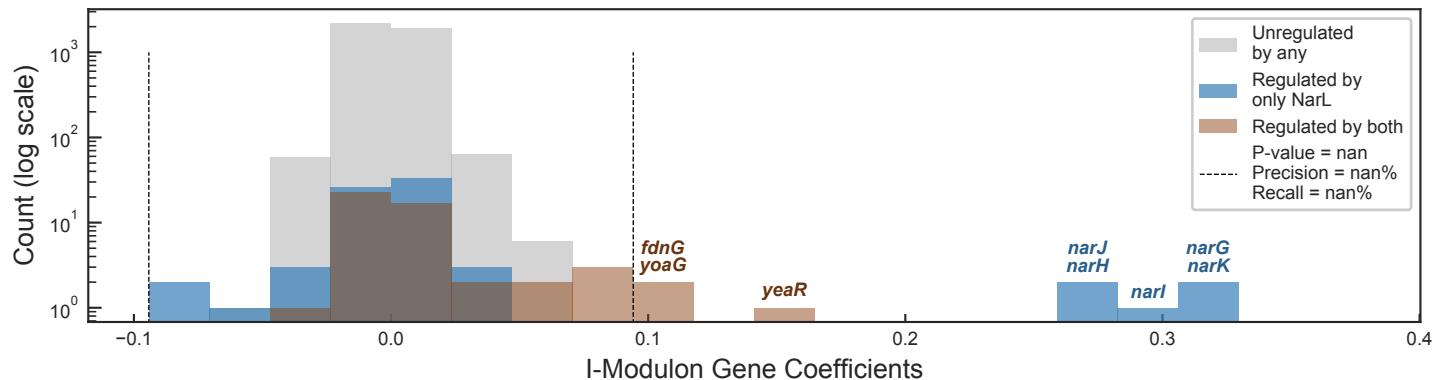
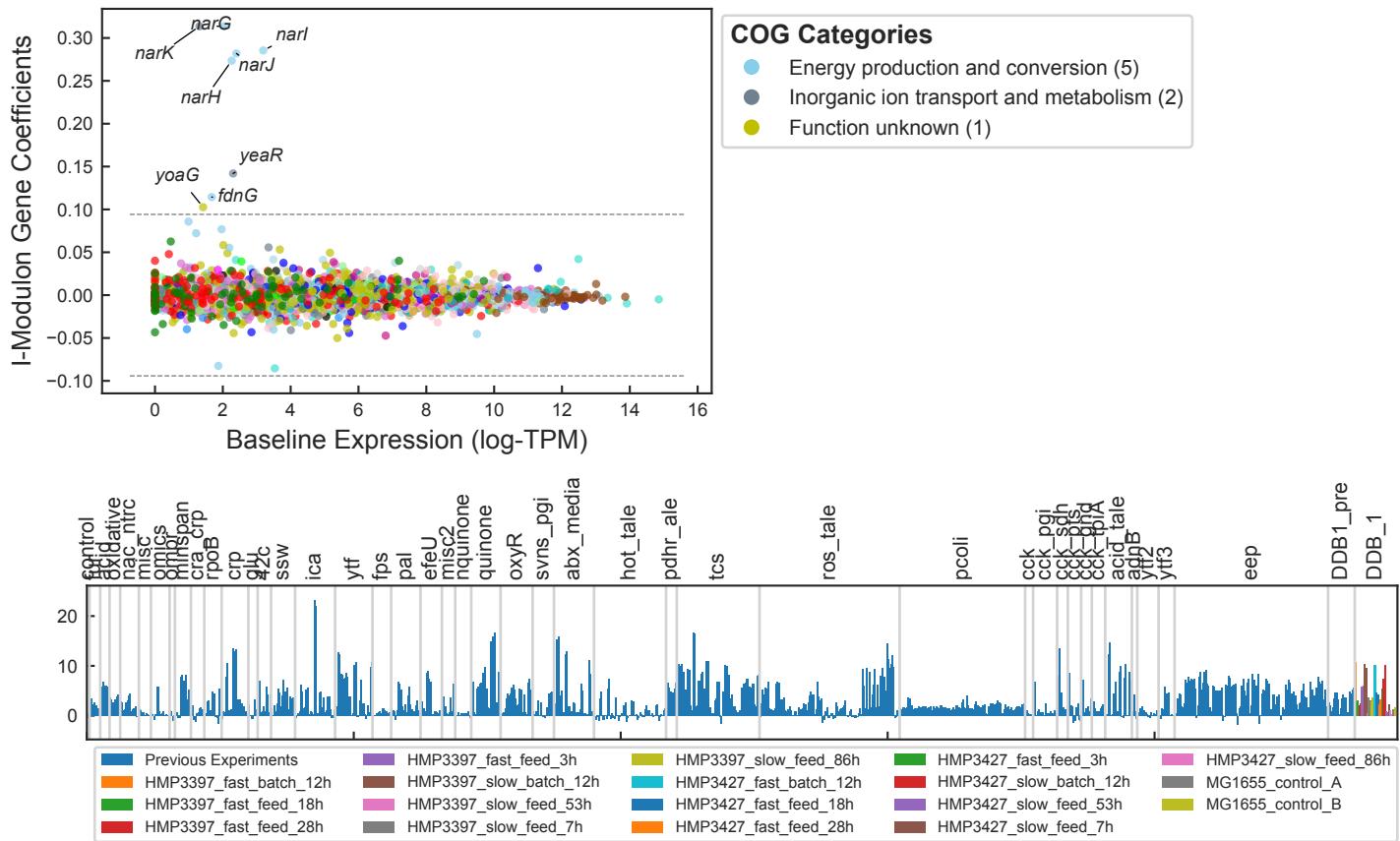
NarL I-Modulon

Regulated by: narL



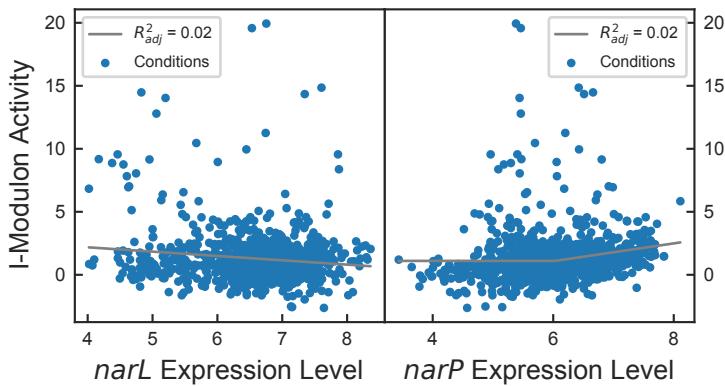
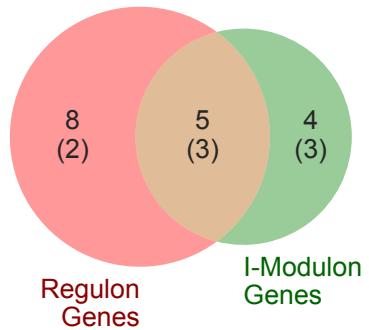
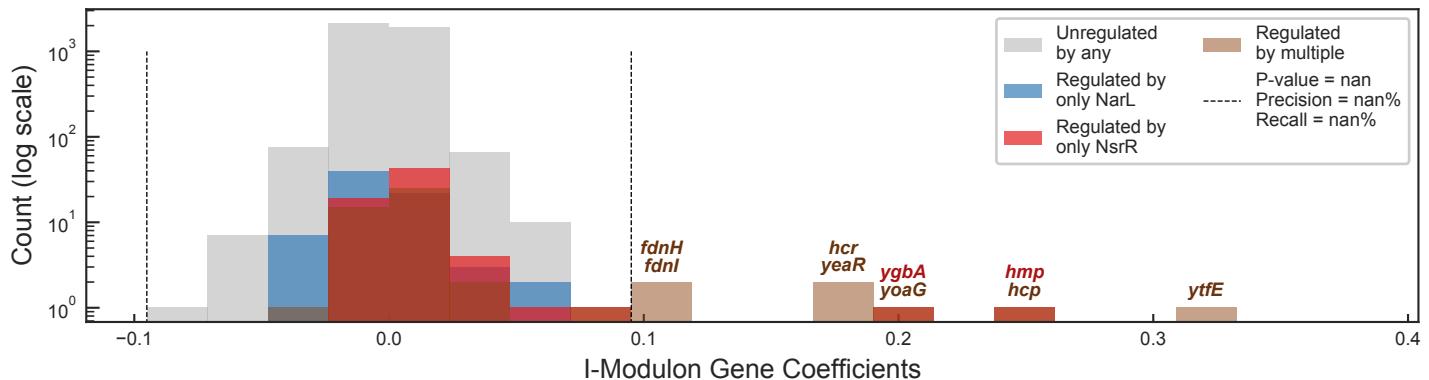
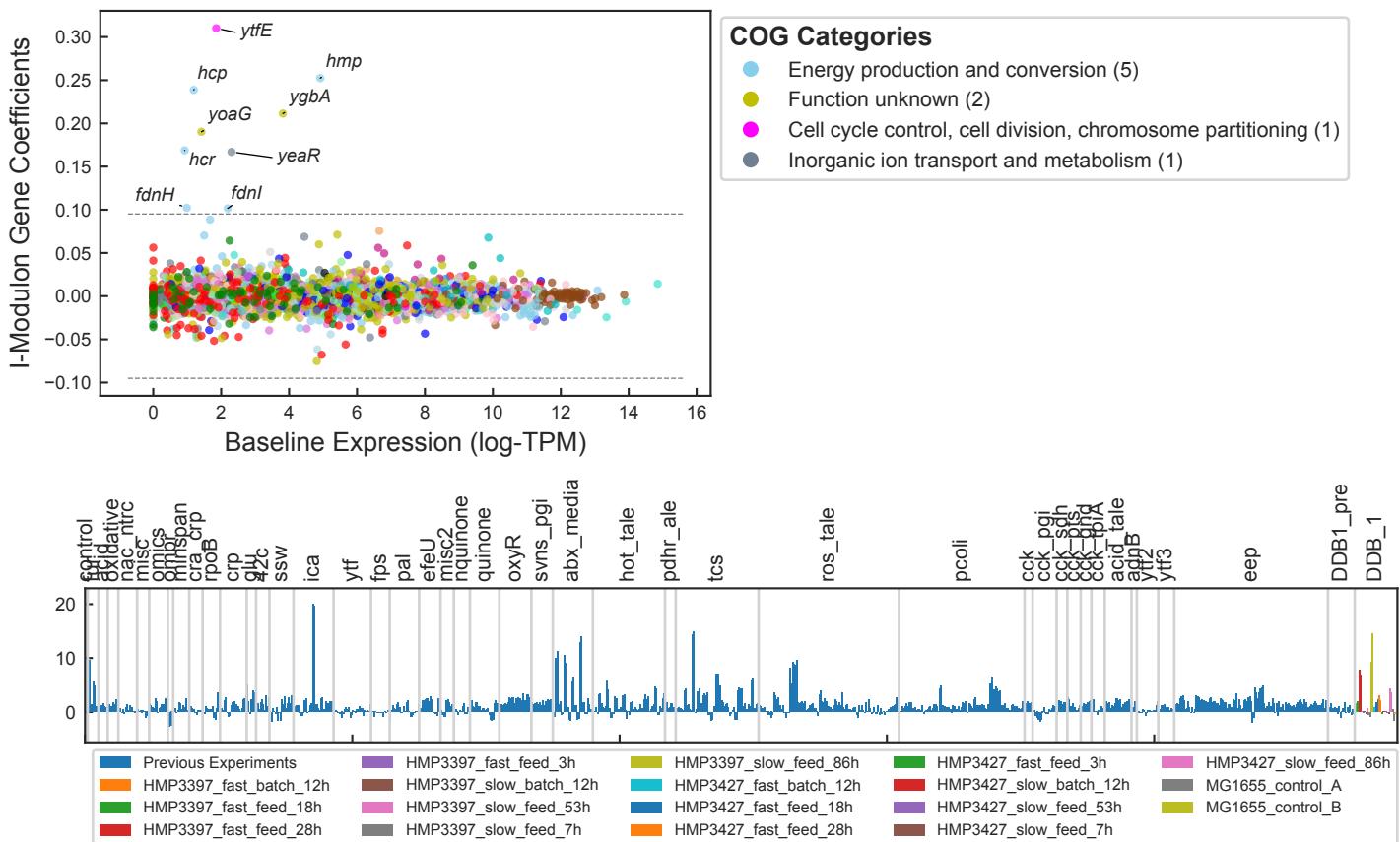
NarL + NarP I-Modulon

Regulated by: narL+narP



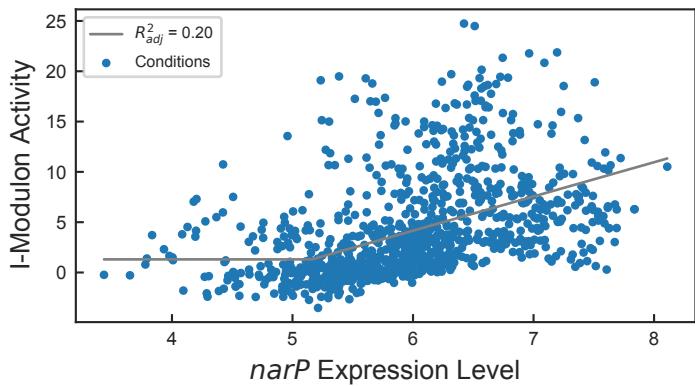
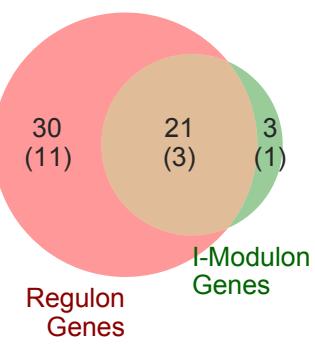
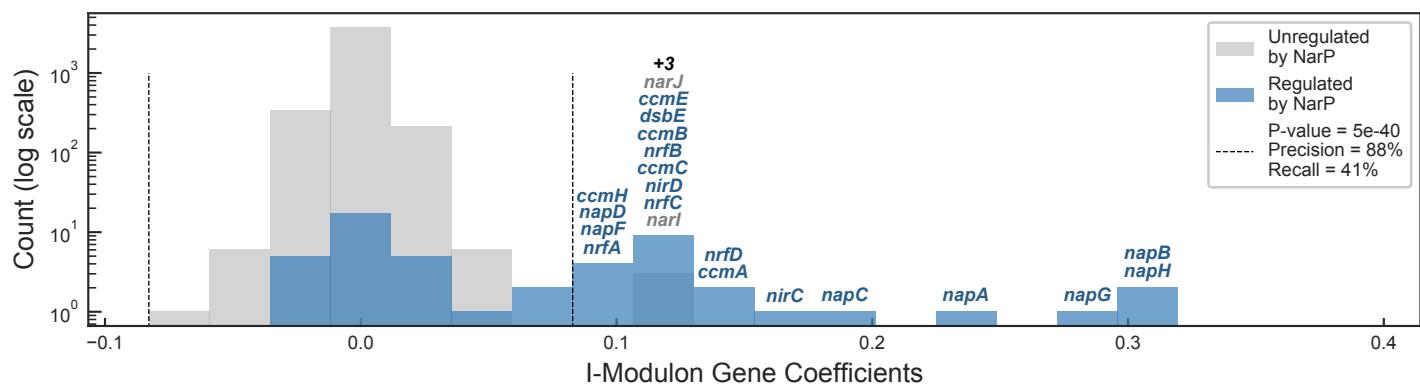
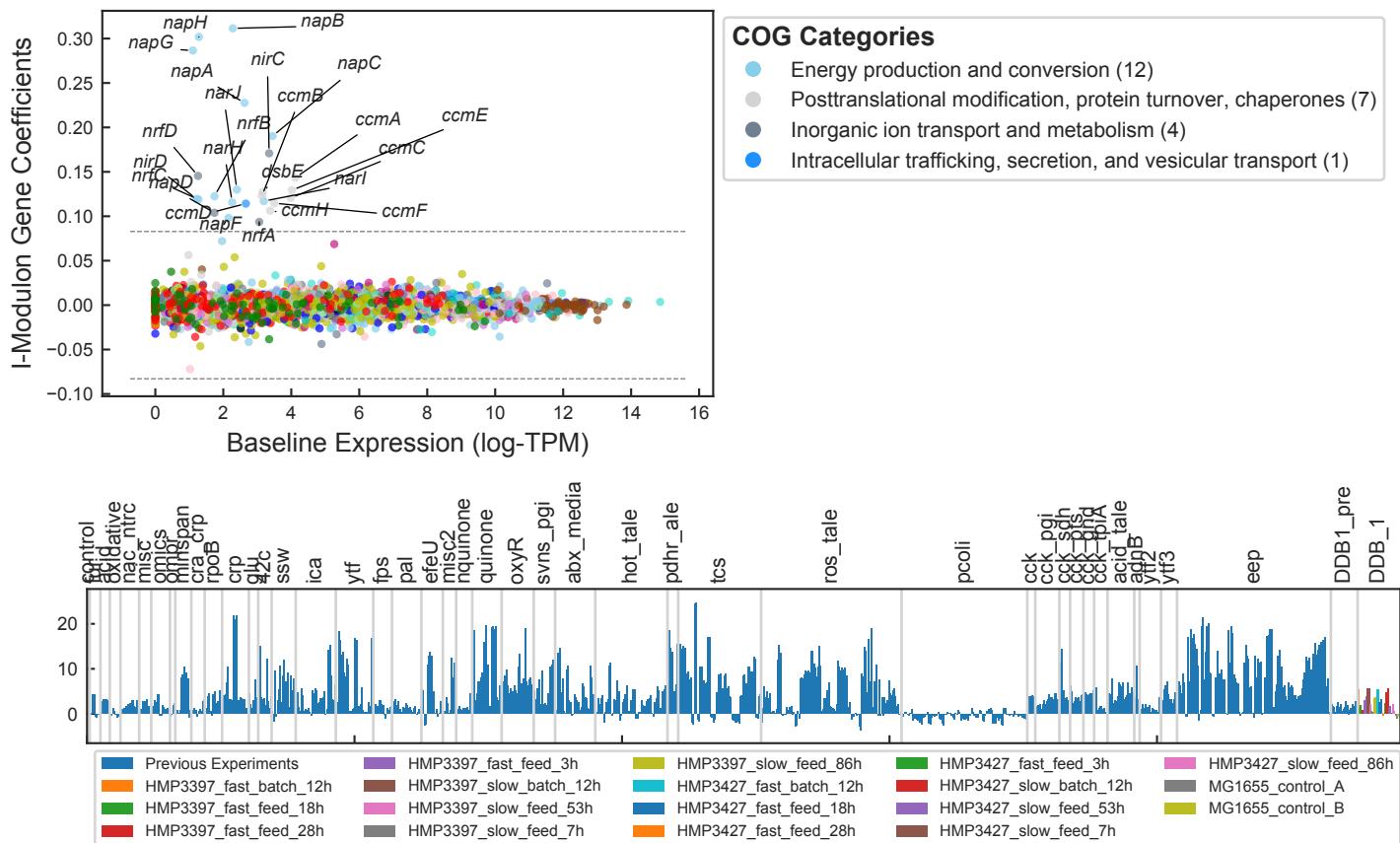
NarL + NarP + NsrR I-Modulon

Regulated by: narL+narP+nsrR



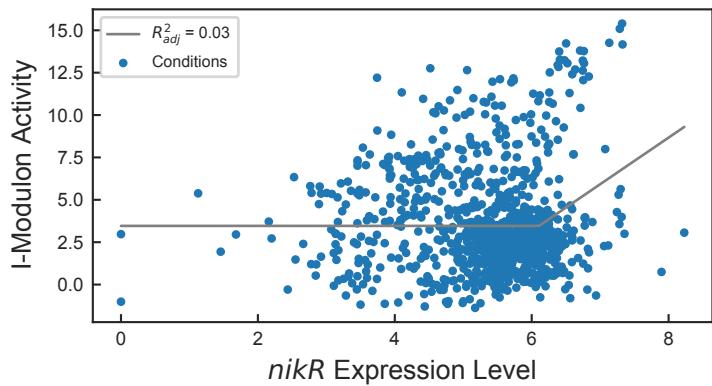
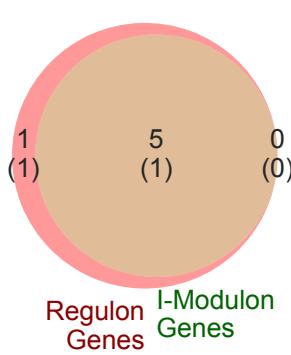
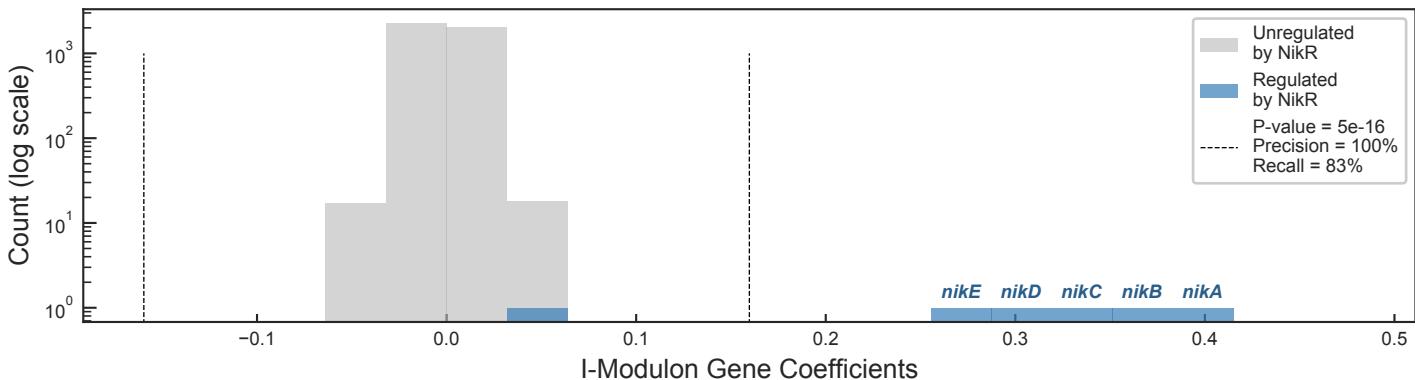
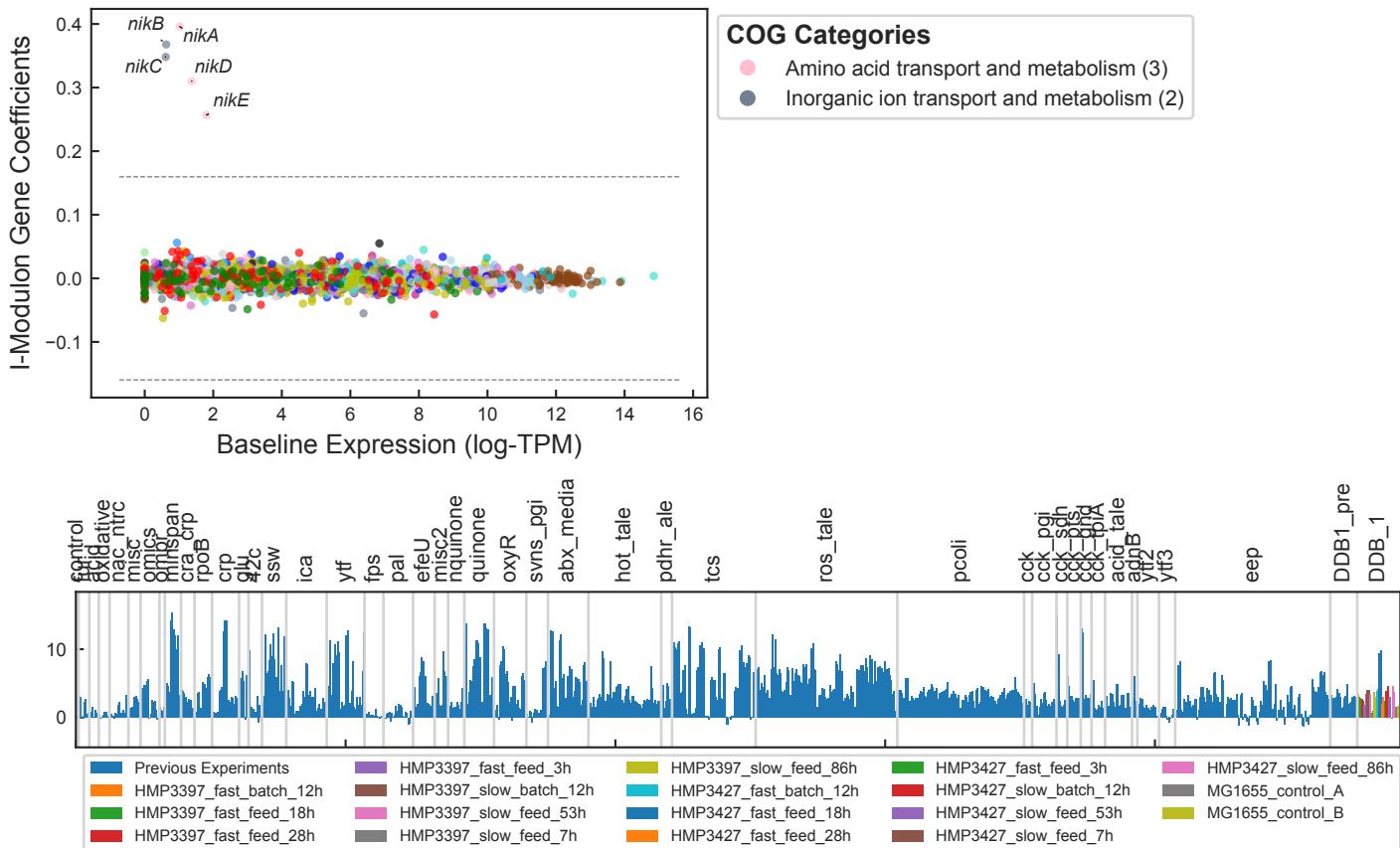
NarP I-Modulon

Regulated by: narP



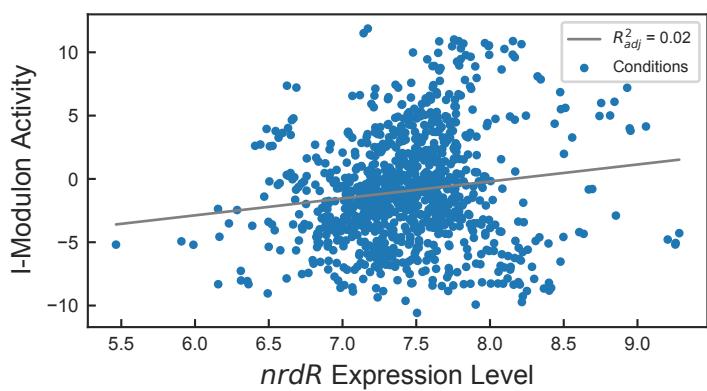
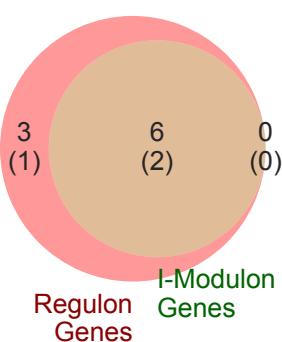
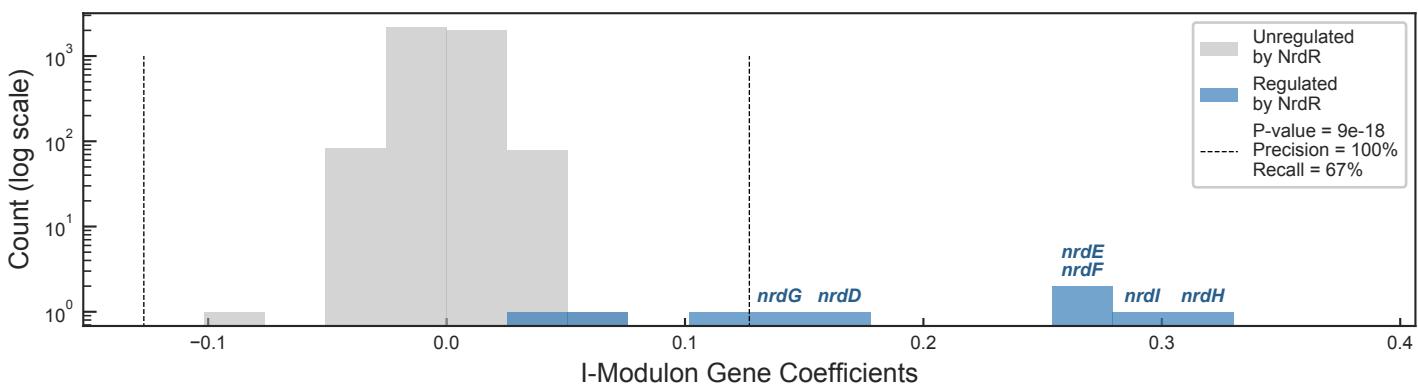
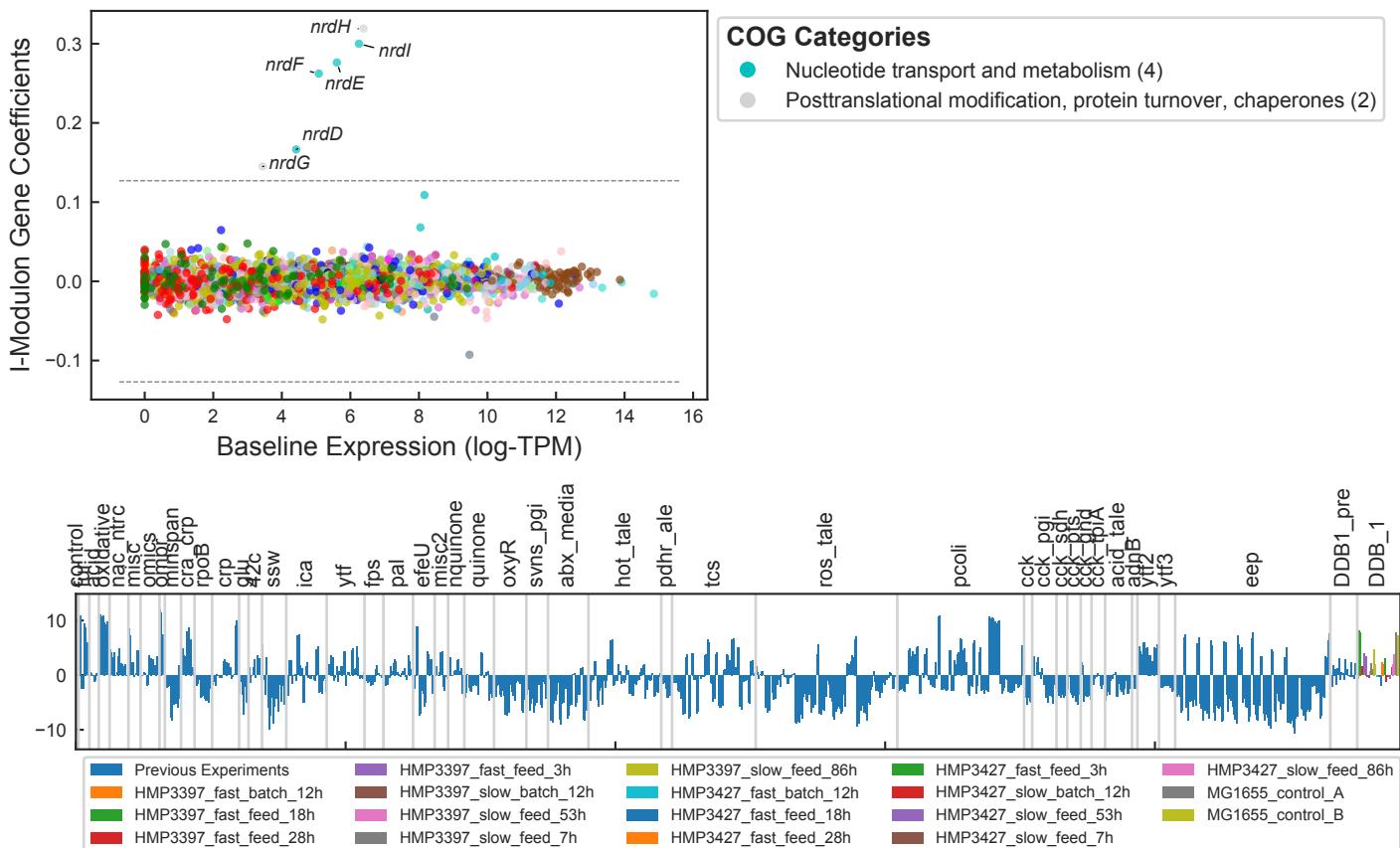
NikR I-Modulon

Regulated by: nikR



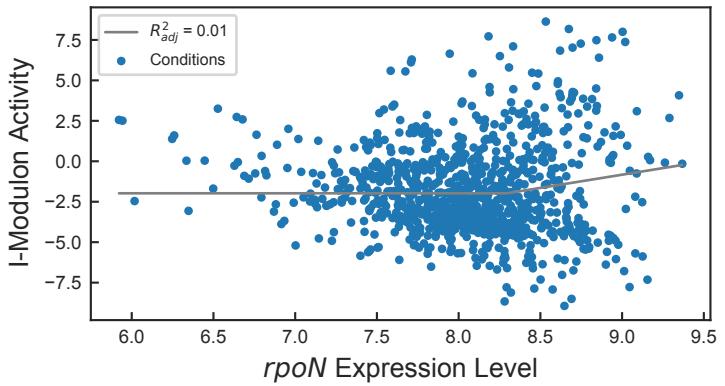
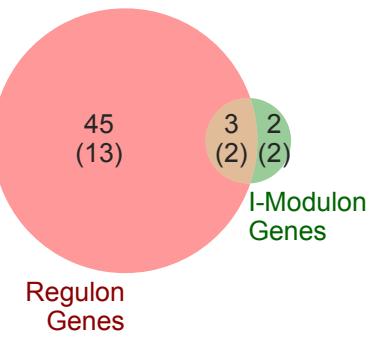
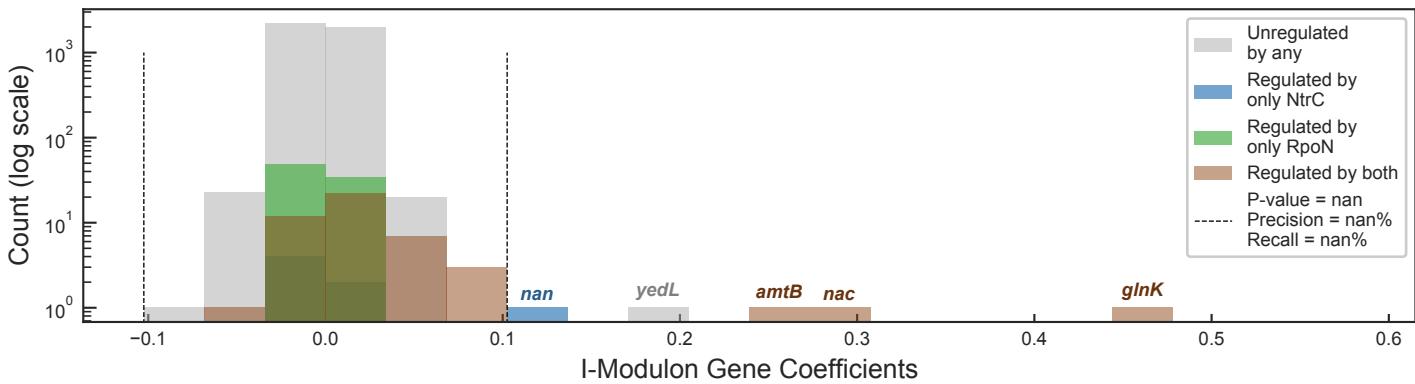
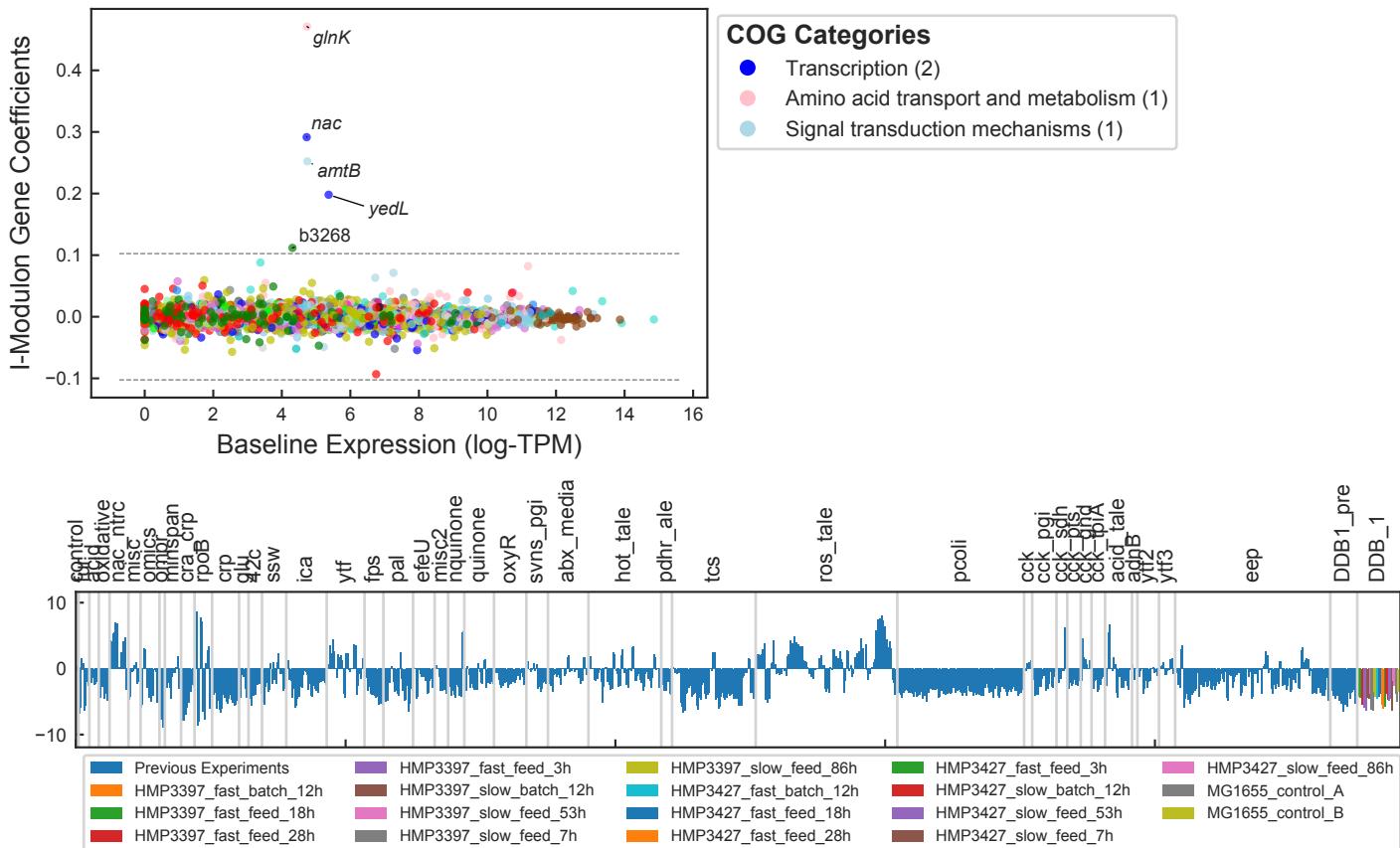
NrdR I-Modulon

Regulated by: nrdR



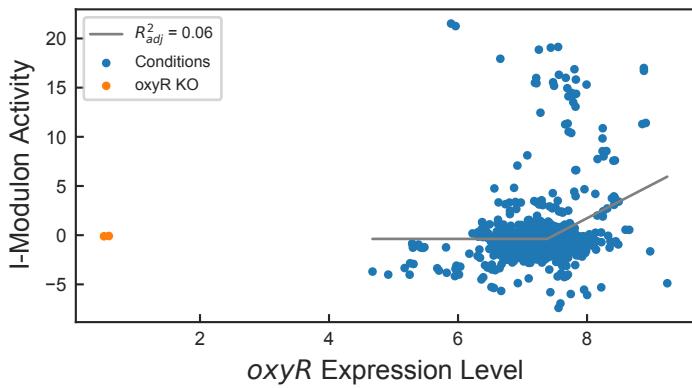
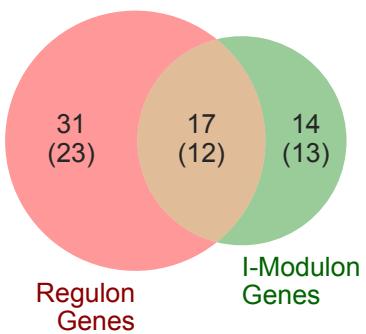
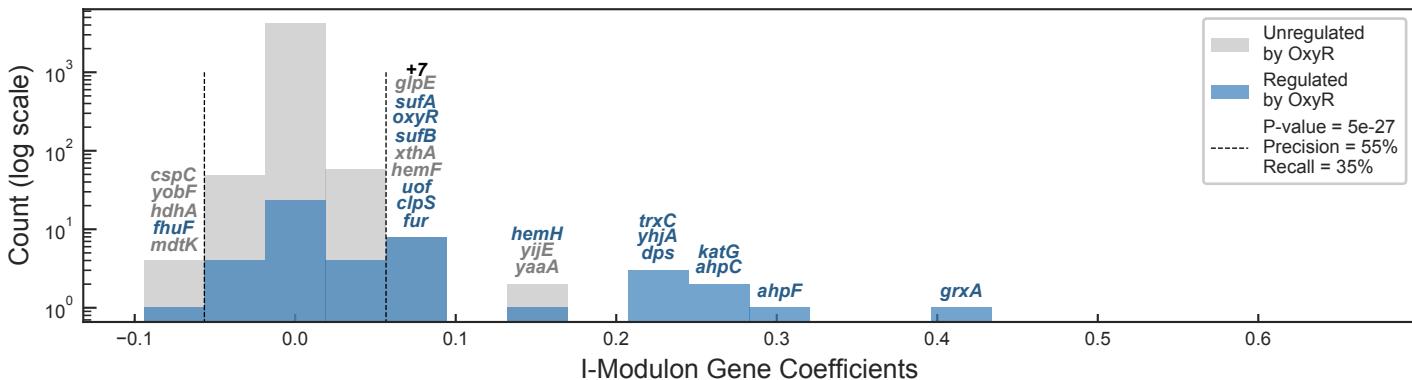
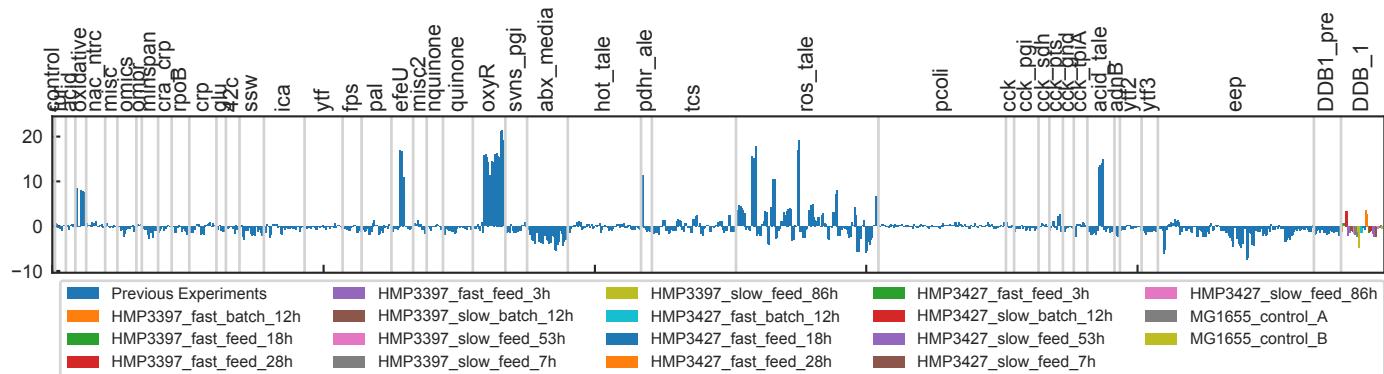
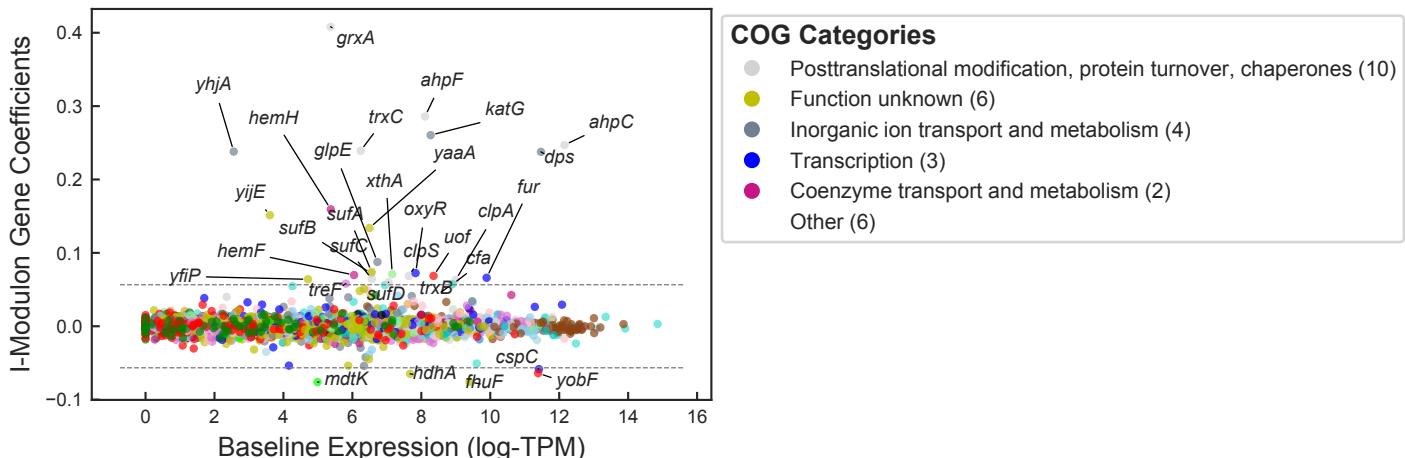
NtrC + RpoN I-Modulon

Regulated by: ntrC+rpoN



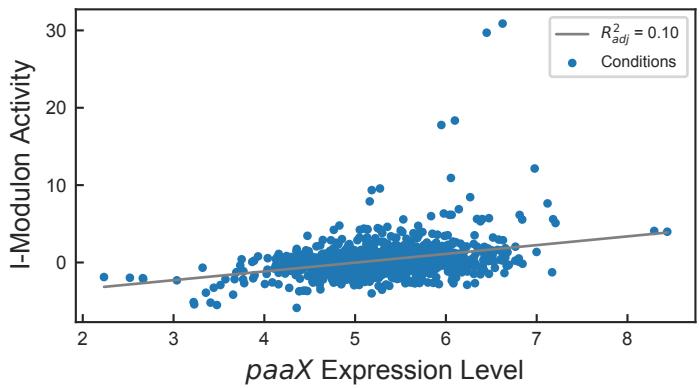
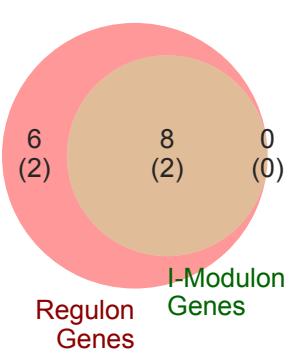
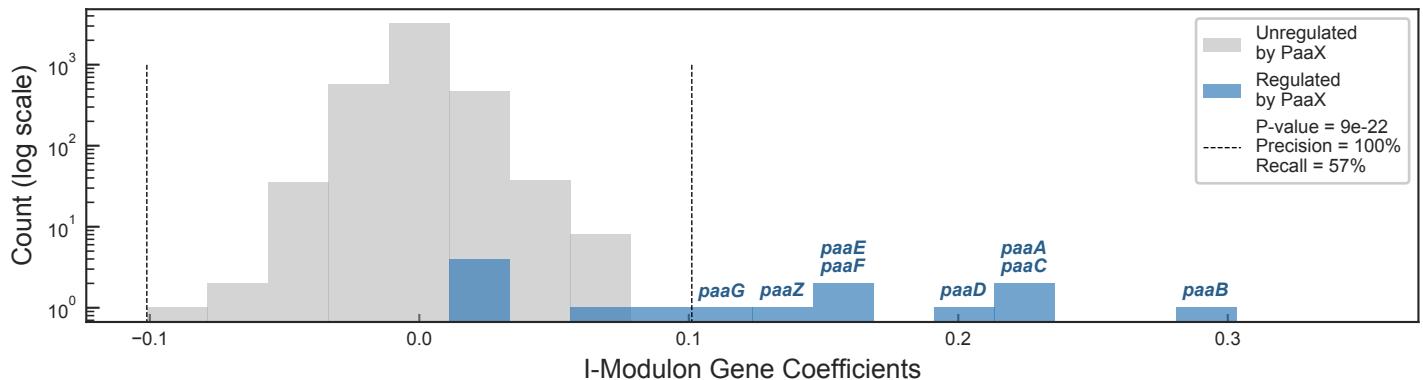
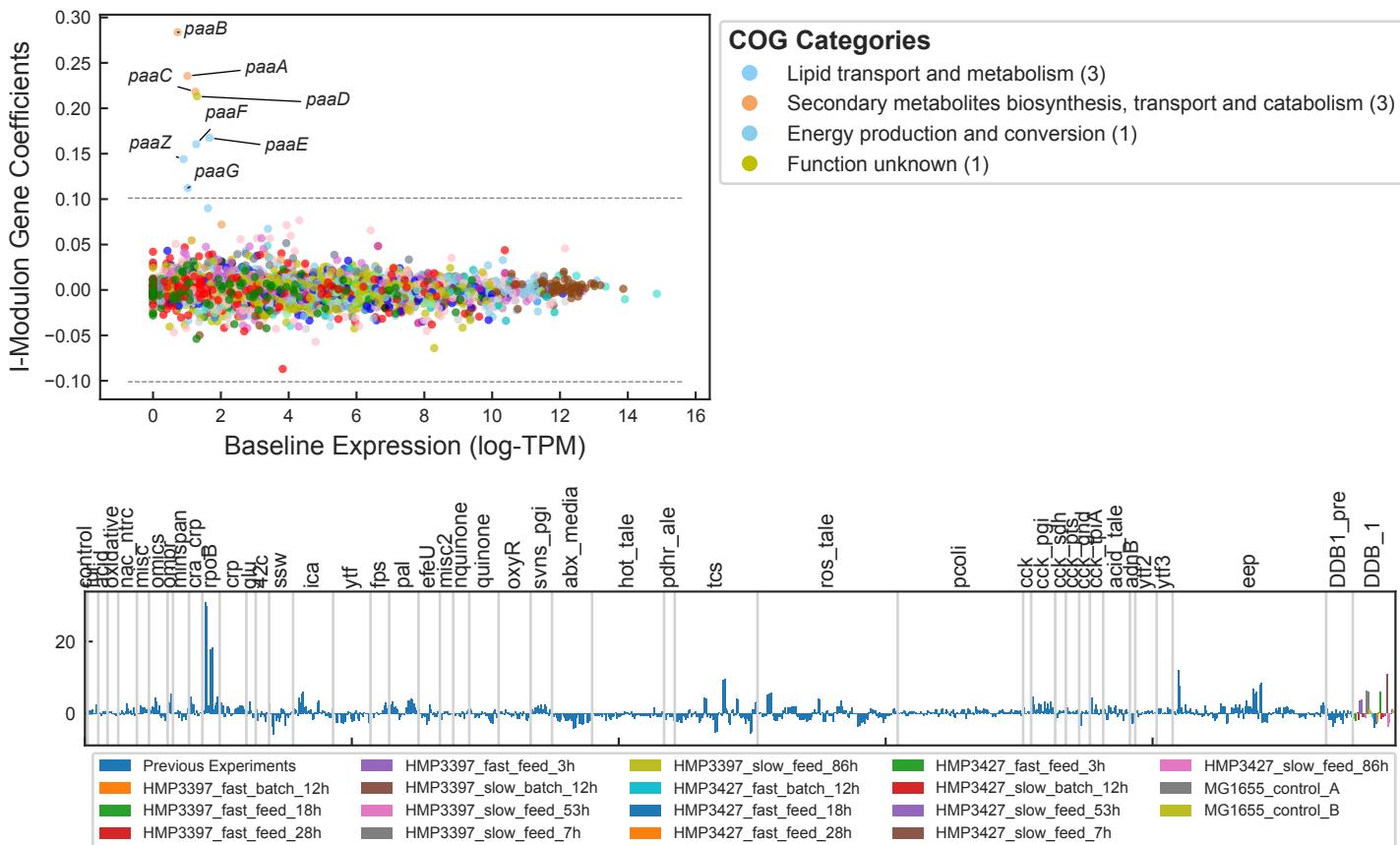
OxyR I-Modulon

Regulated by: oxyR



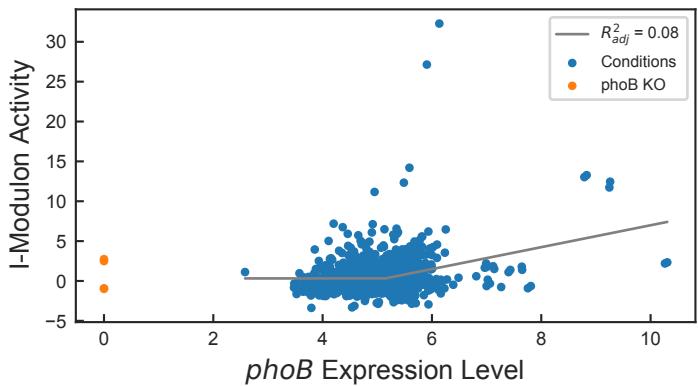
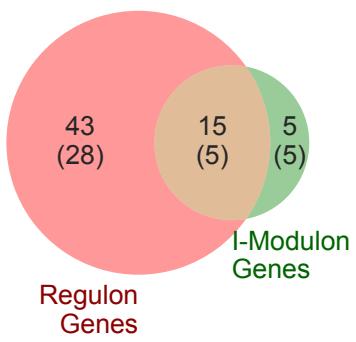
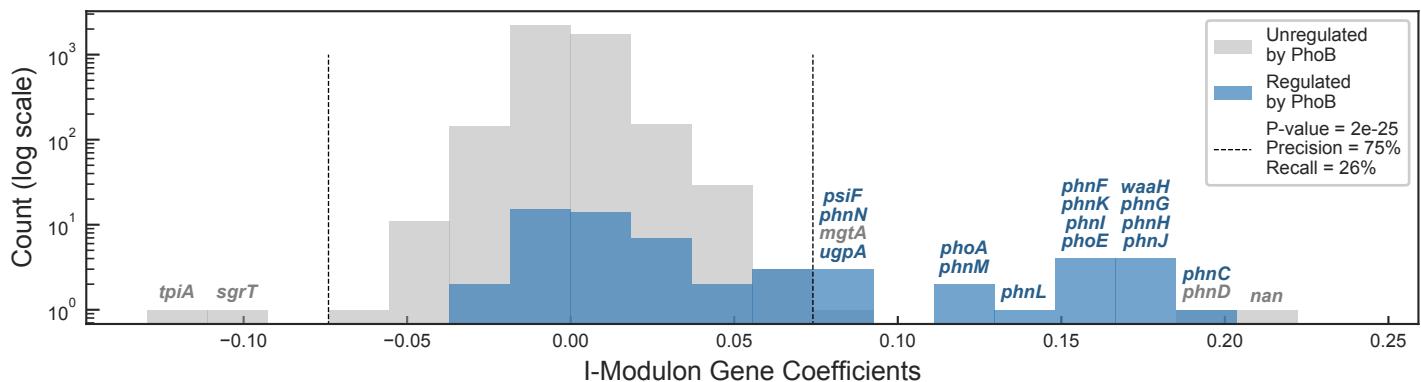
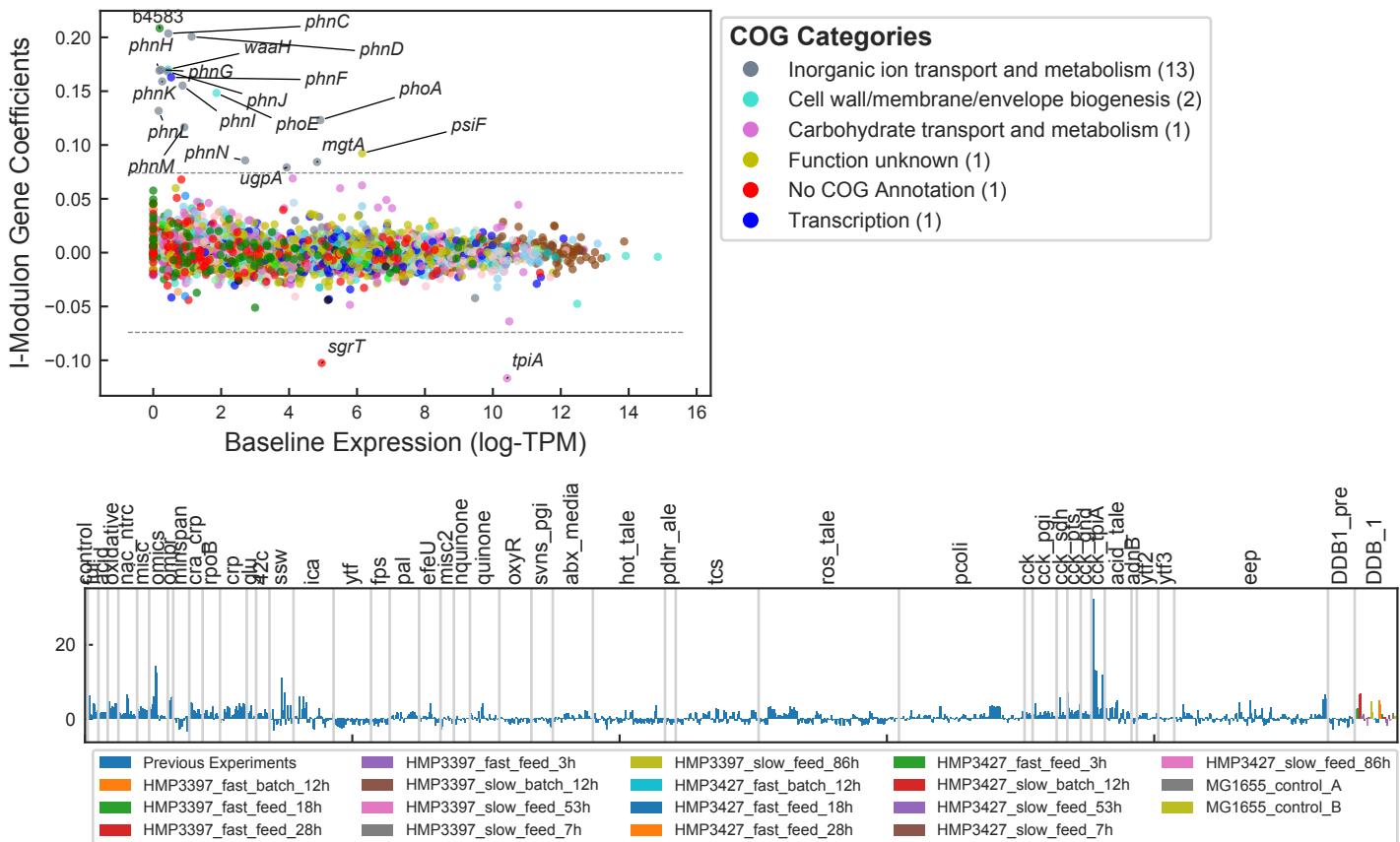
PaaX I-Modulon

Regulated by: paaX



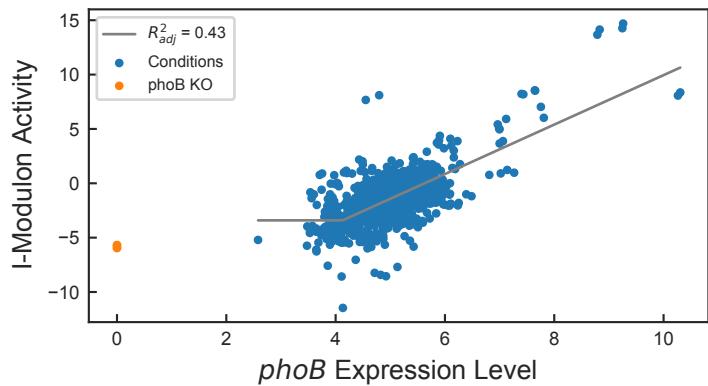
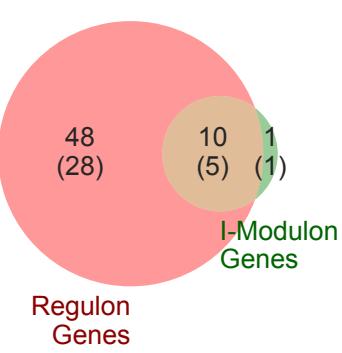
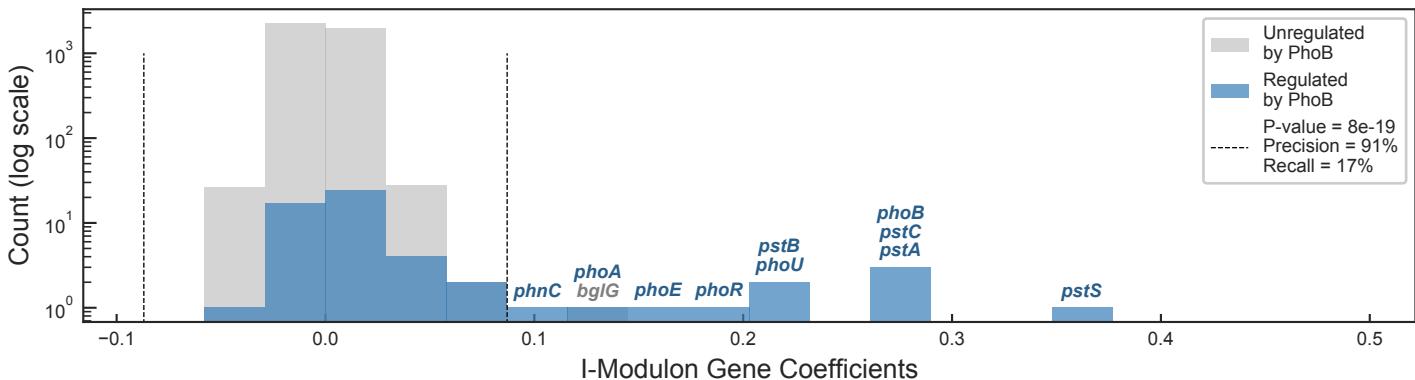
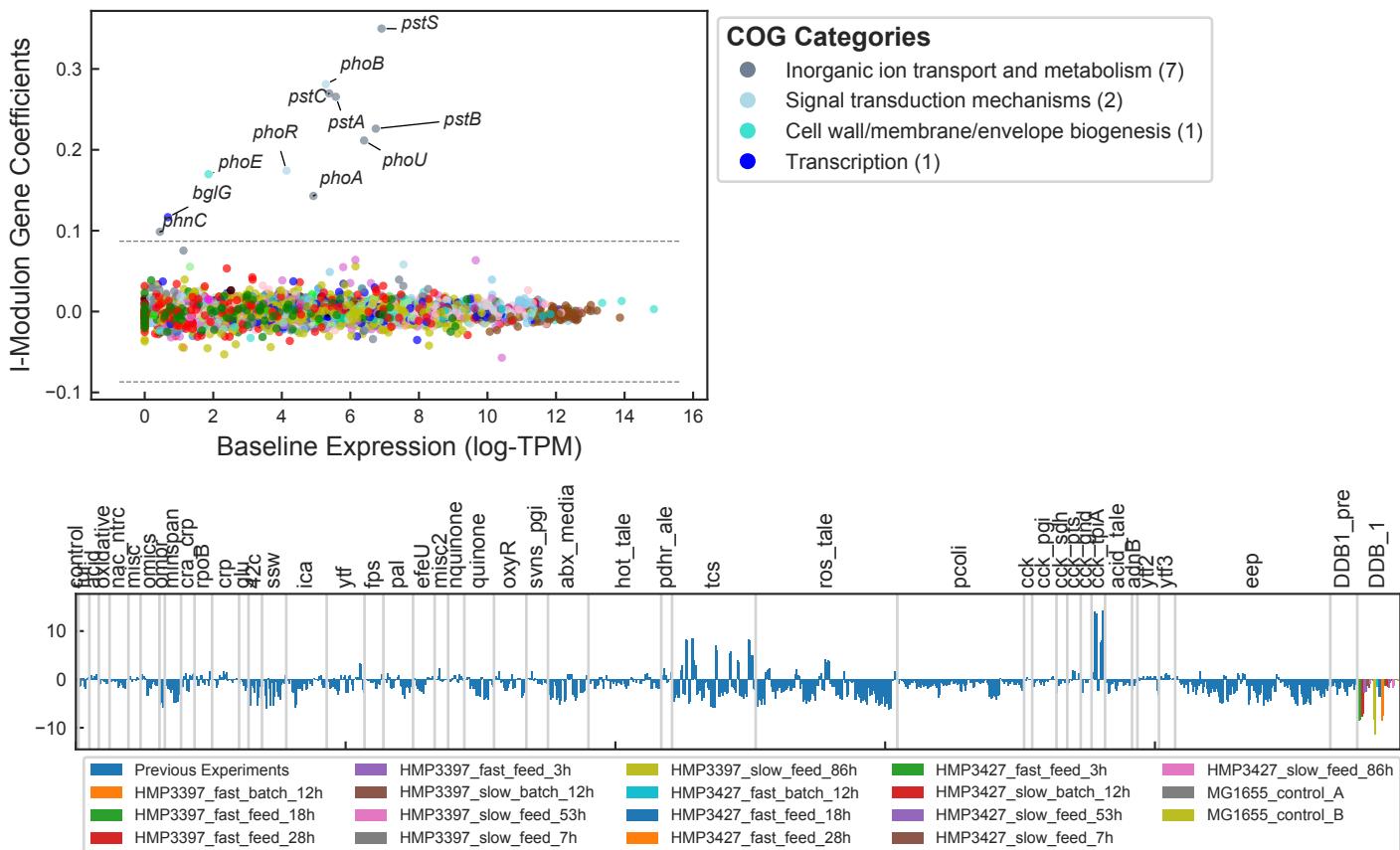
PhoB – 1 l-Modulon

Regulated by: phoB



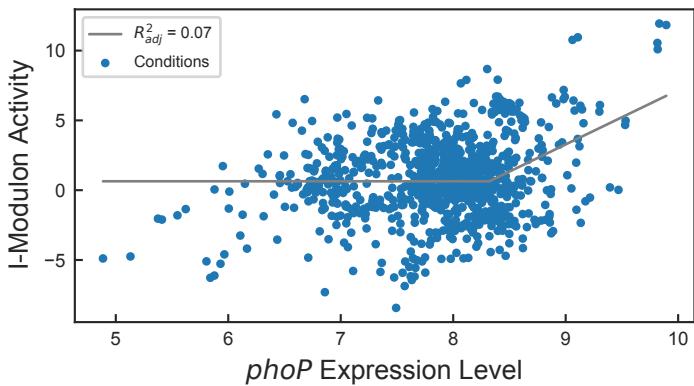
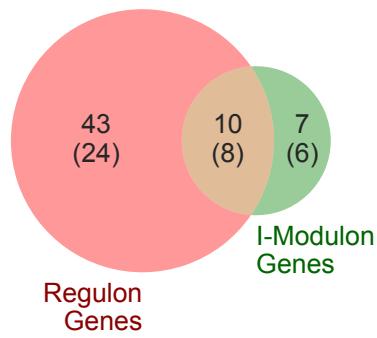
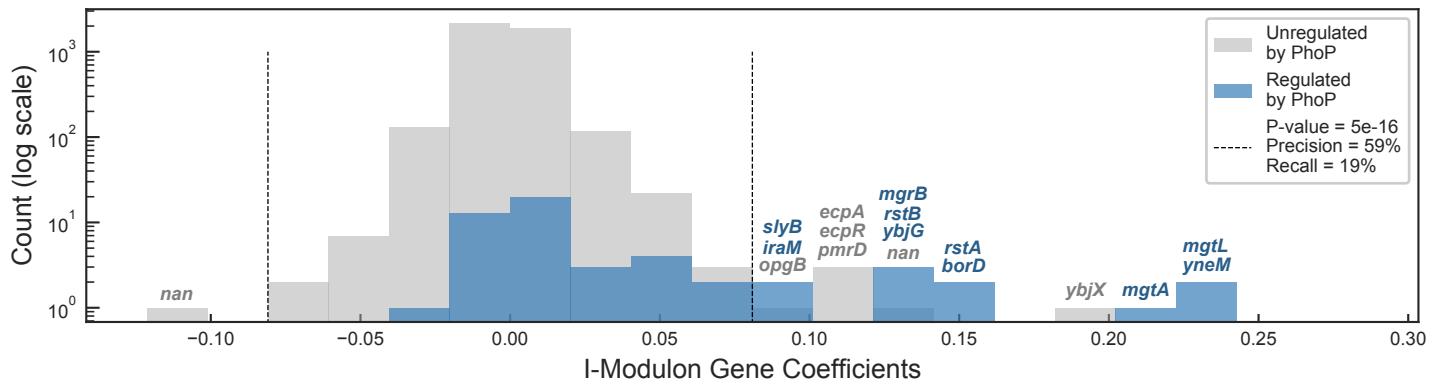
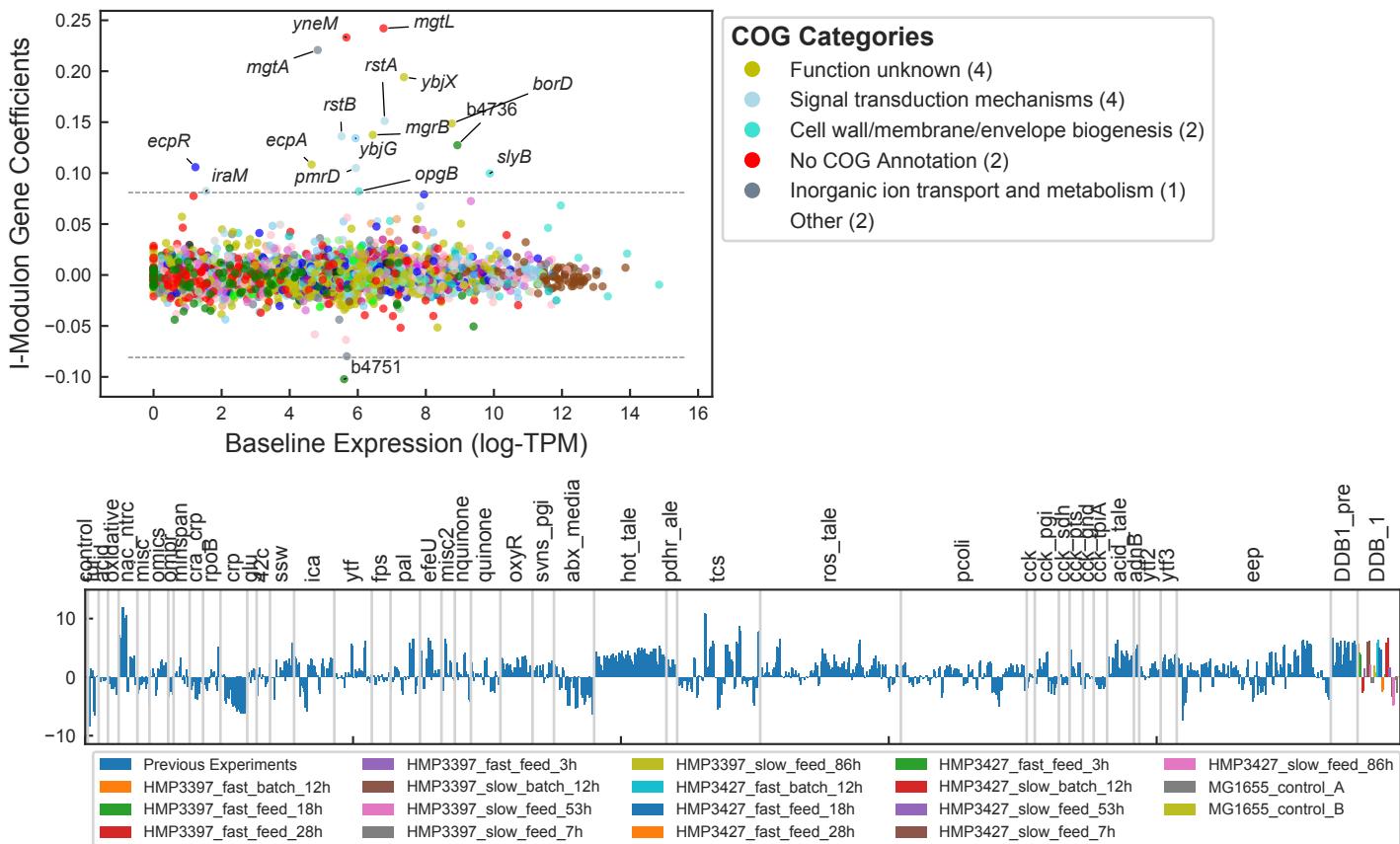
PhoB – 2 I-Modulon

Regulated by: phoB

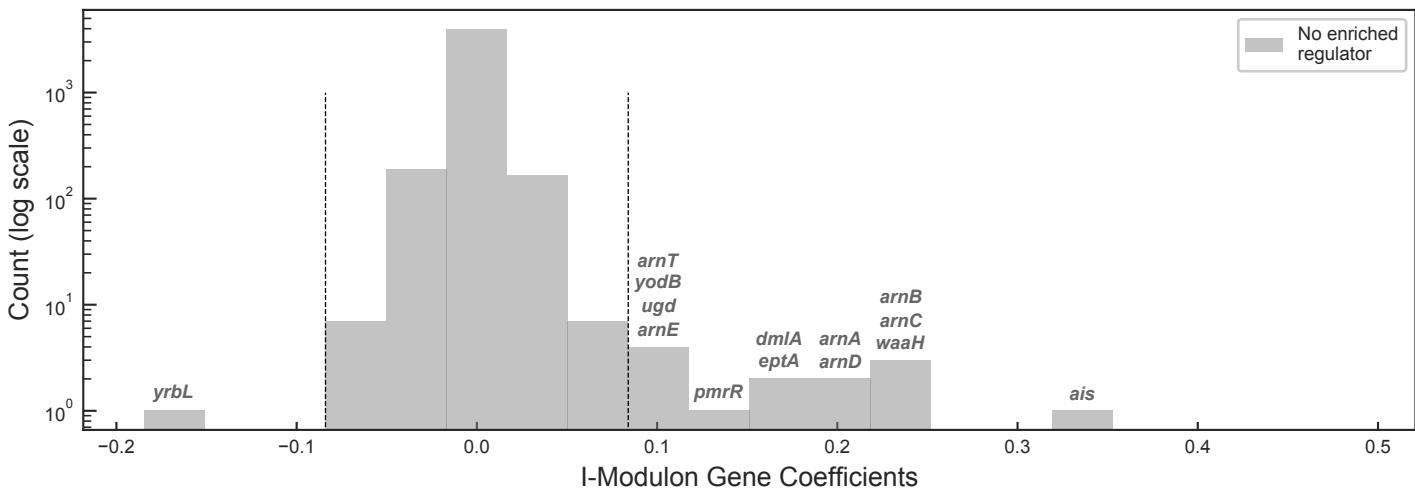
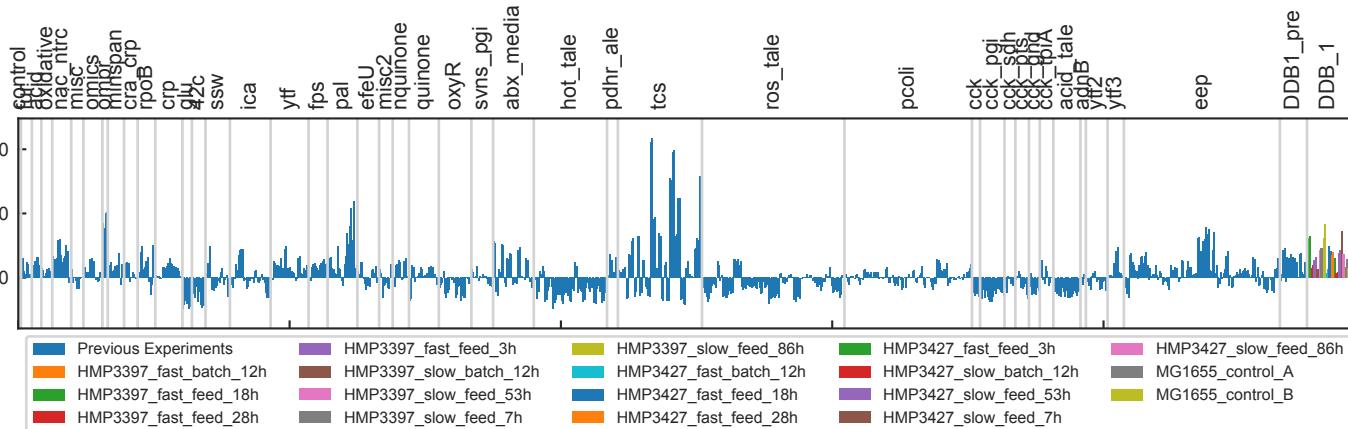
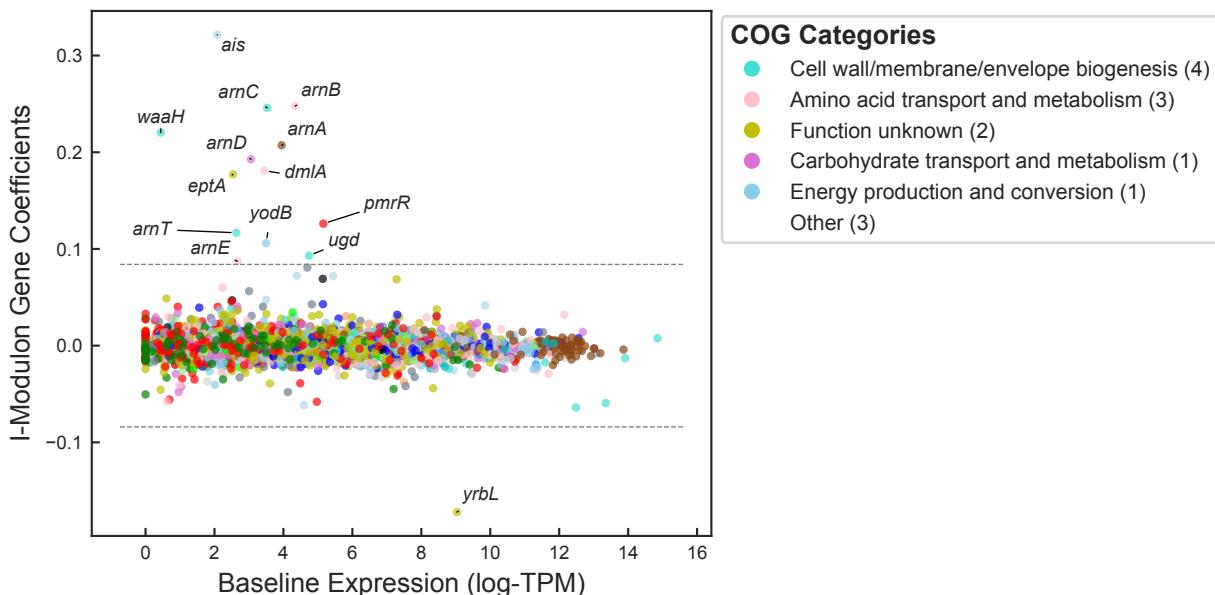


PhoP I-Modulon

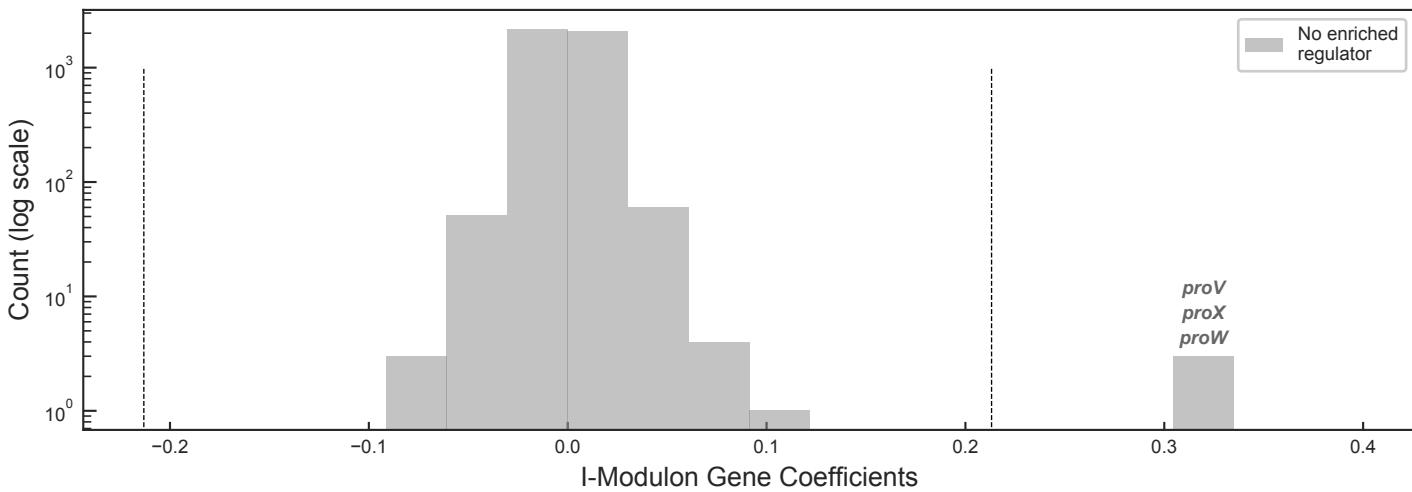
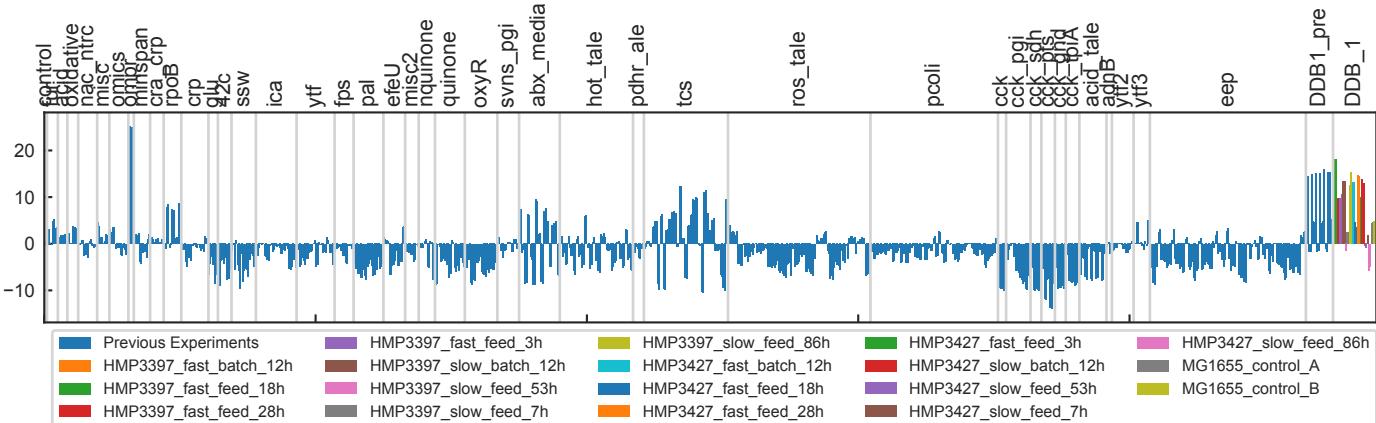
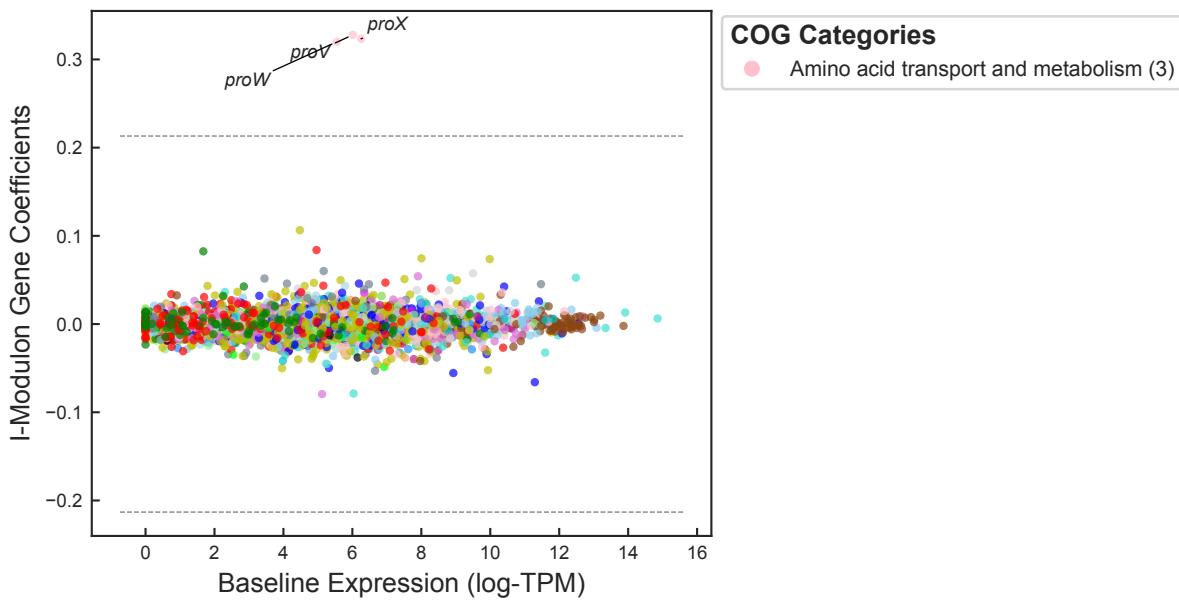
Regulated by: phoP



Polymixin I-Modulon

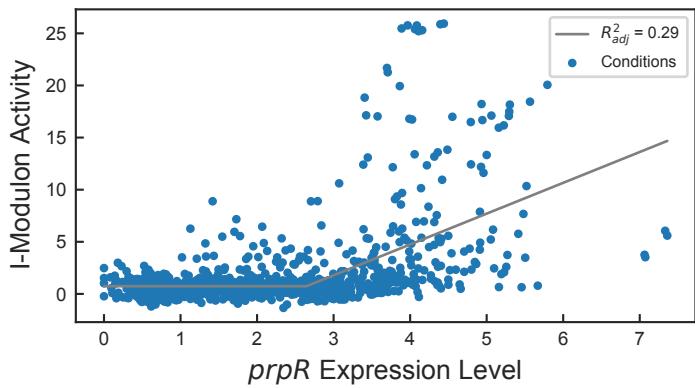
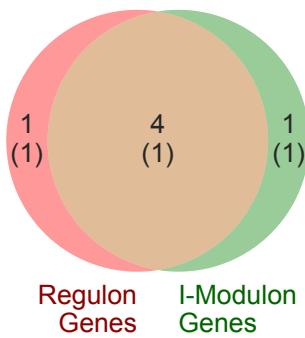
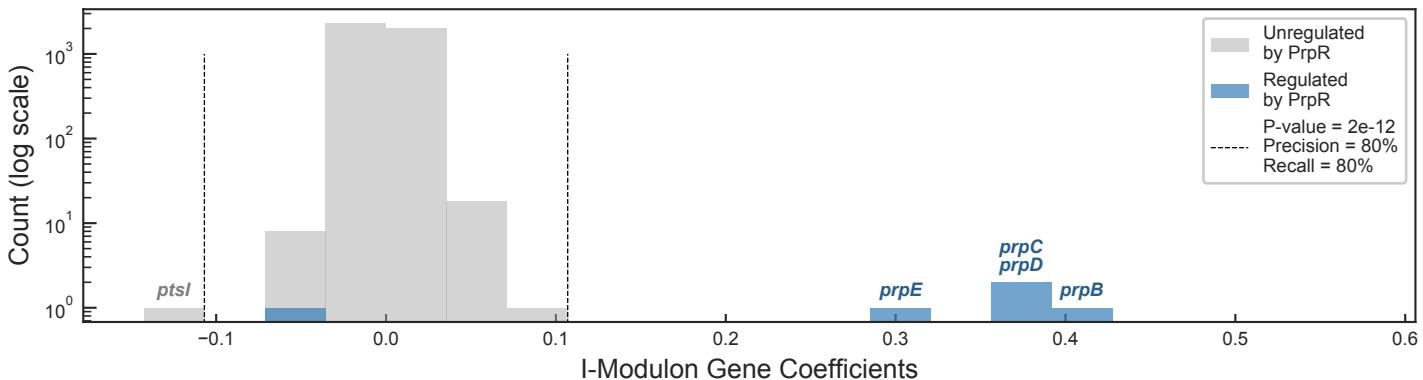
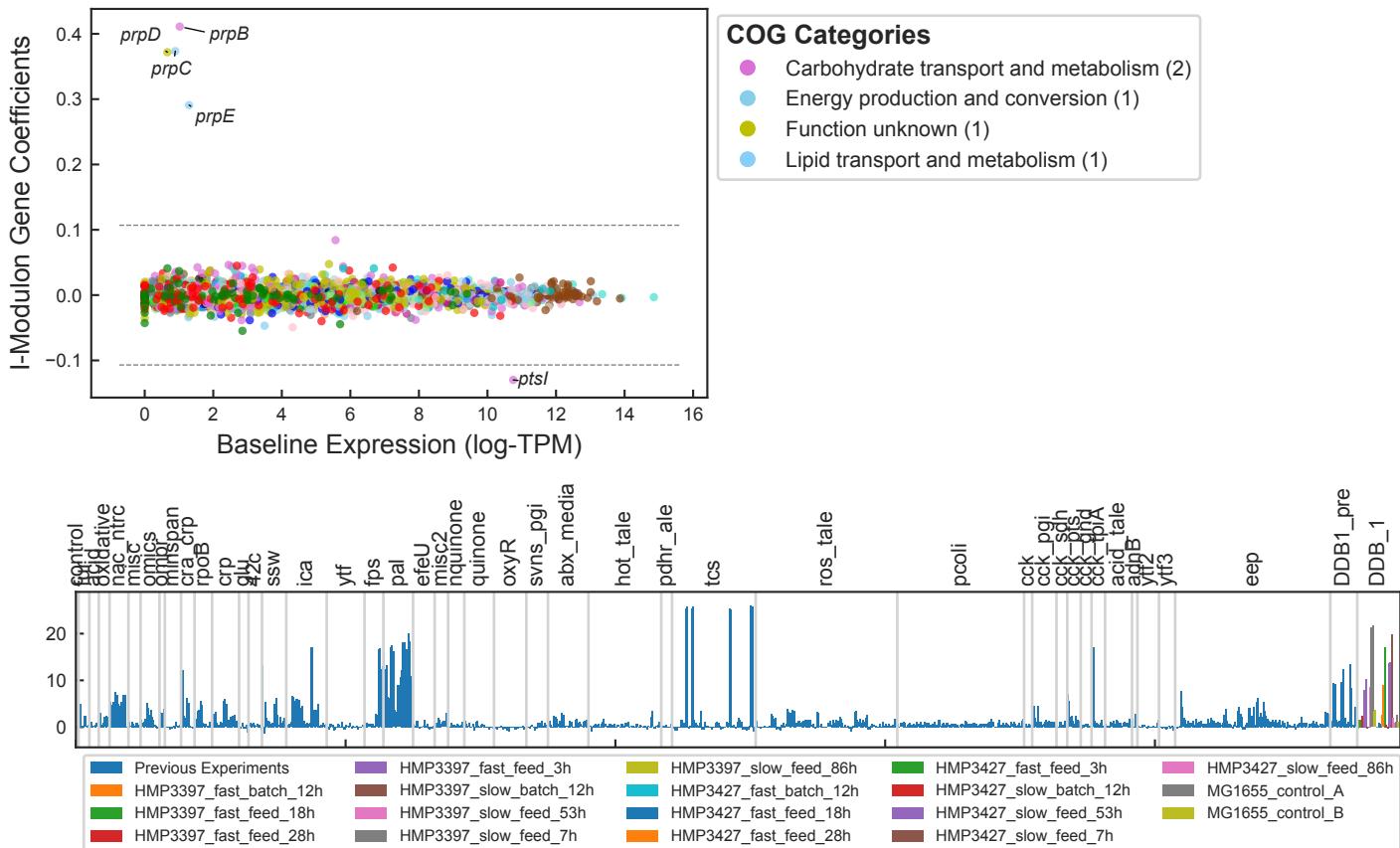


ProVWX I-Modulon



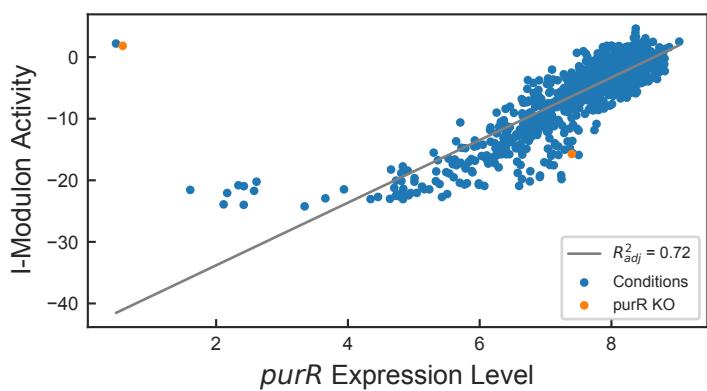
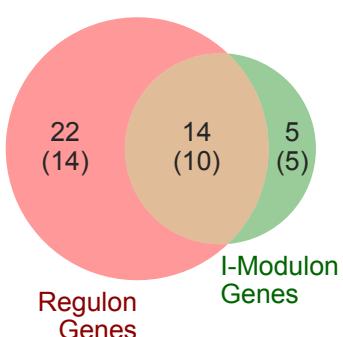
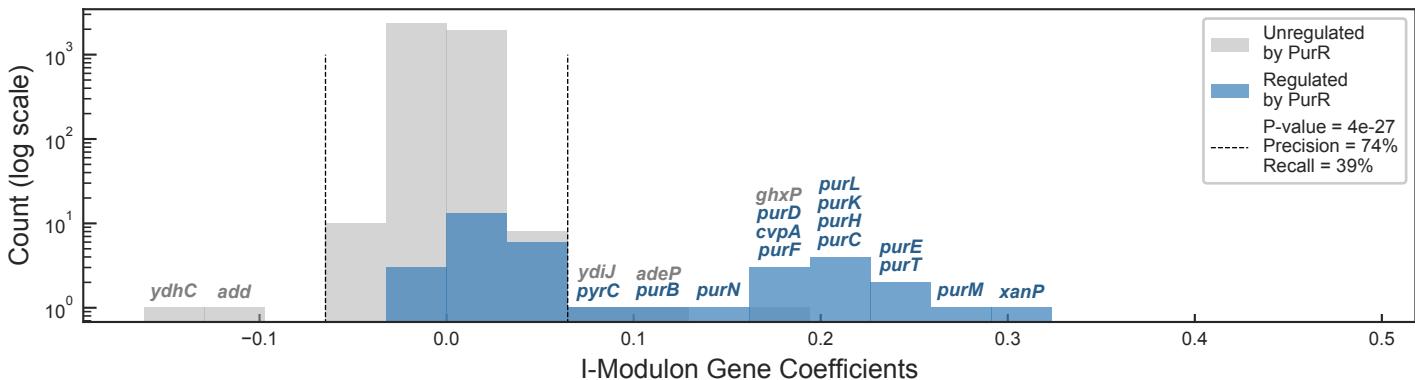
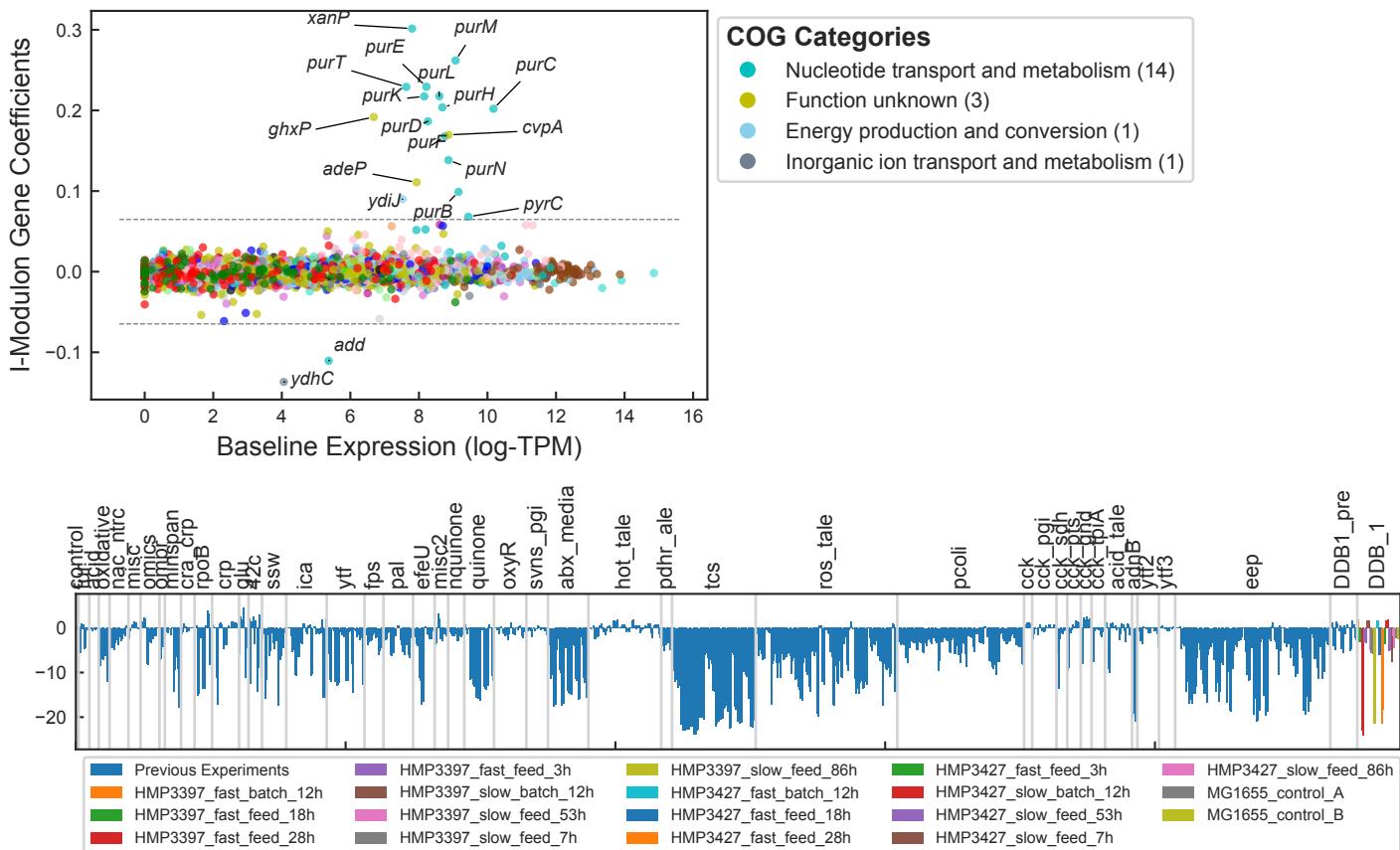
PrpR I-Modulon

Regulated by: prpR



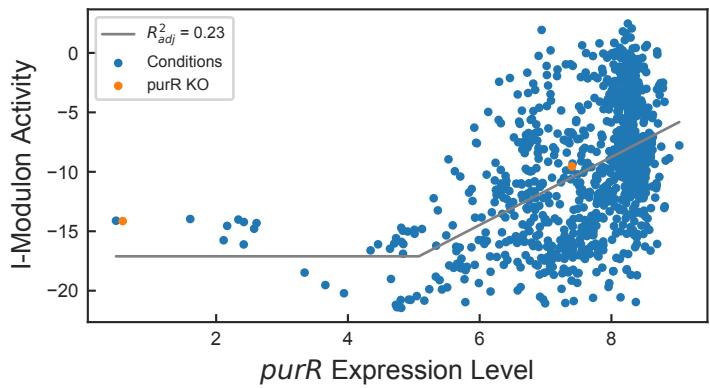
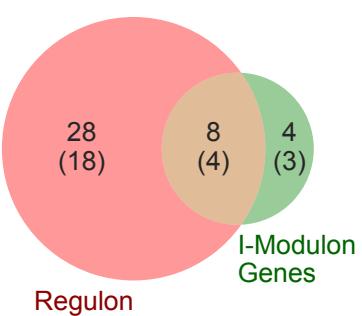
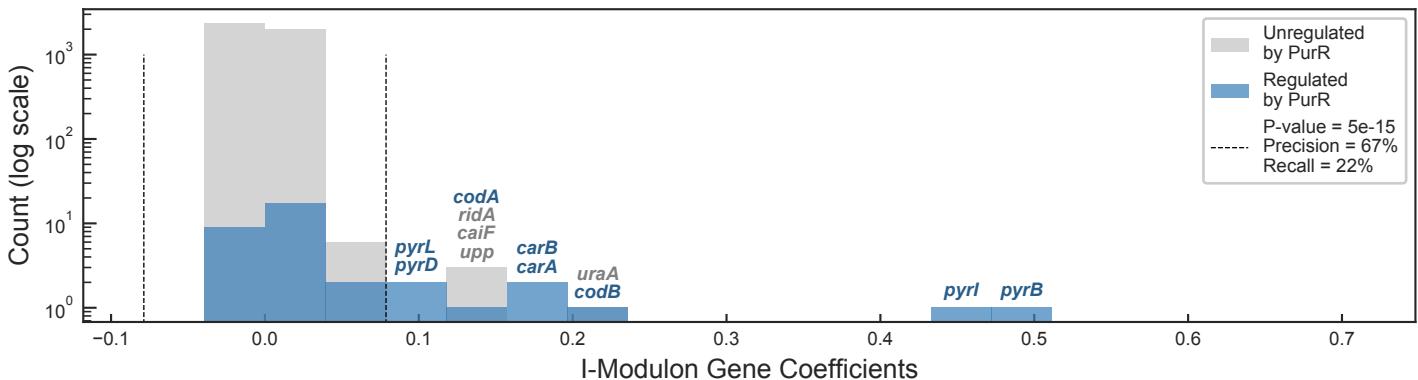
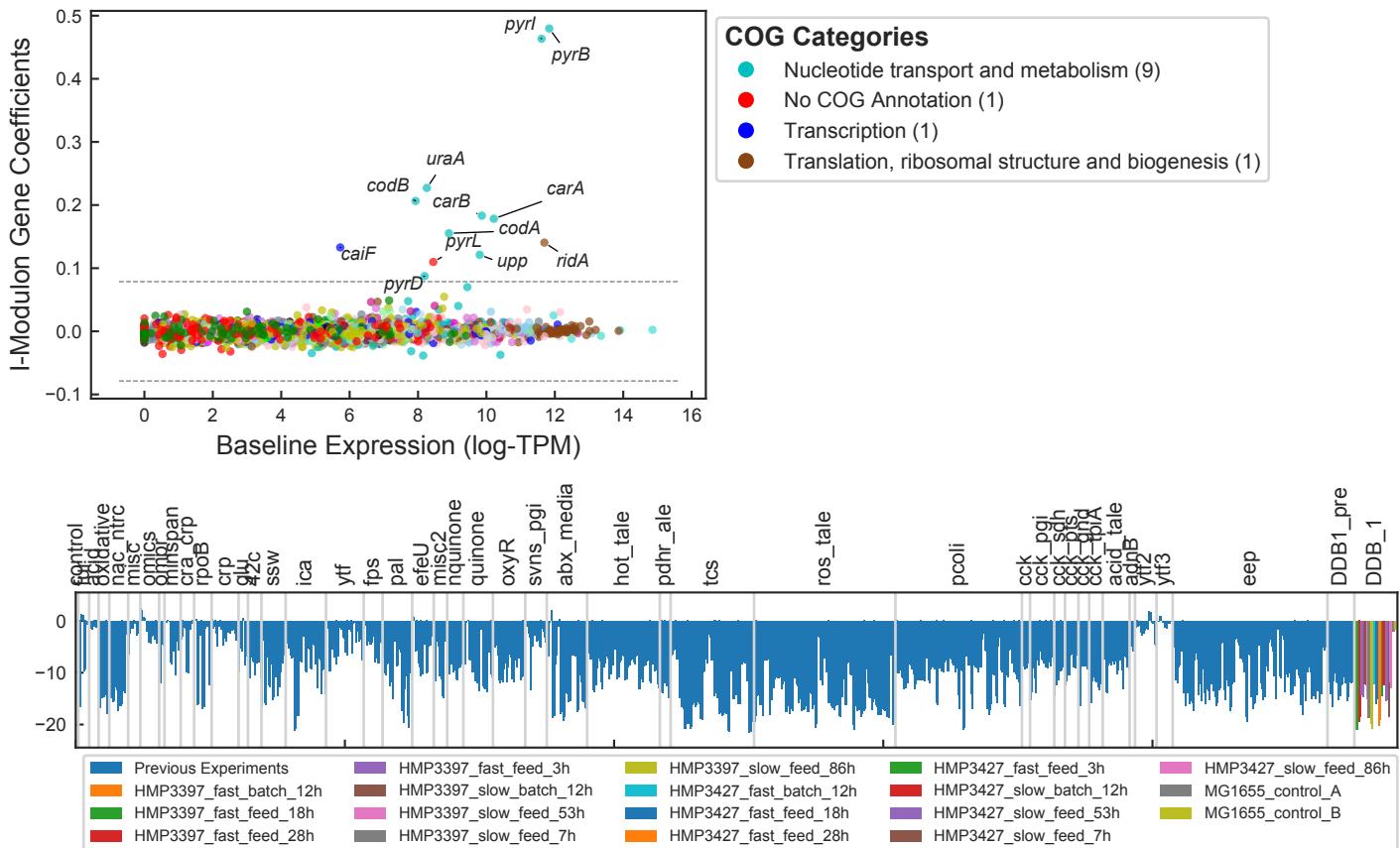
PurR – 1 I-Modulon

Regulated by: purR



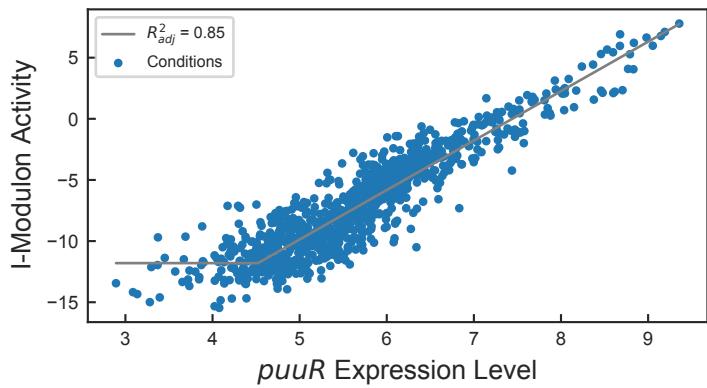
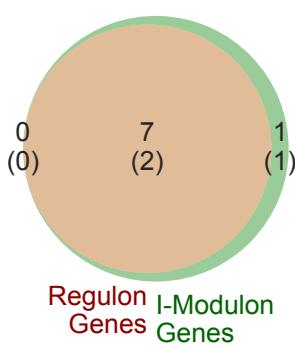
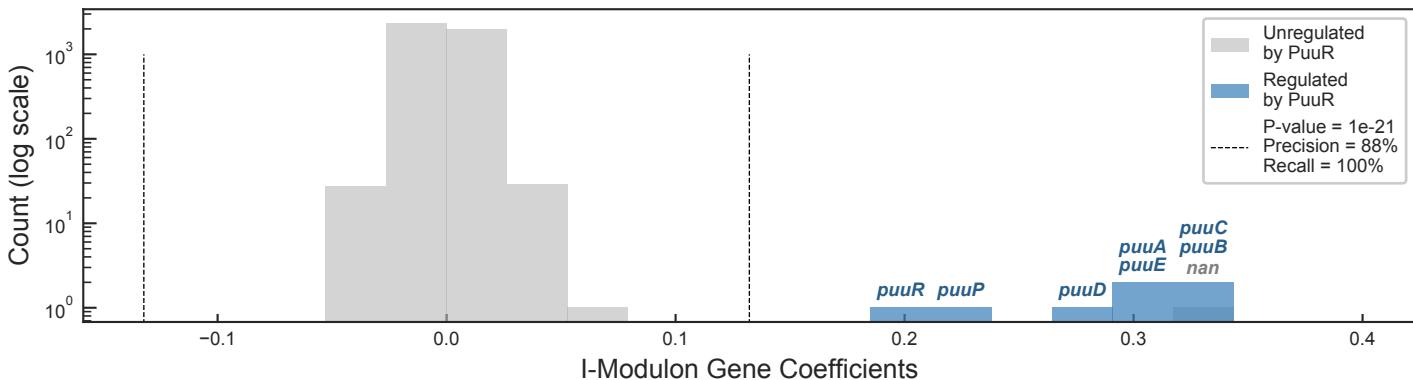
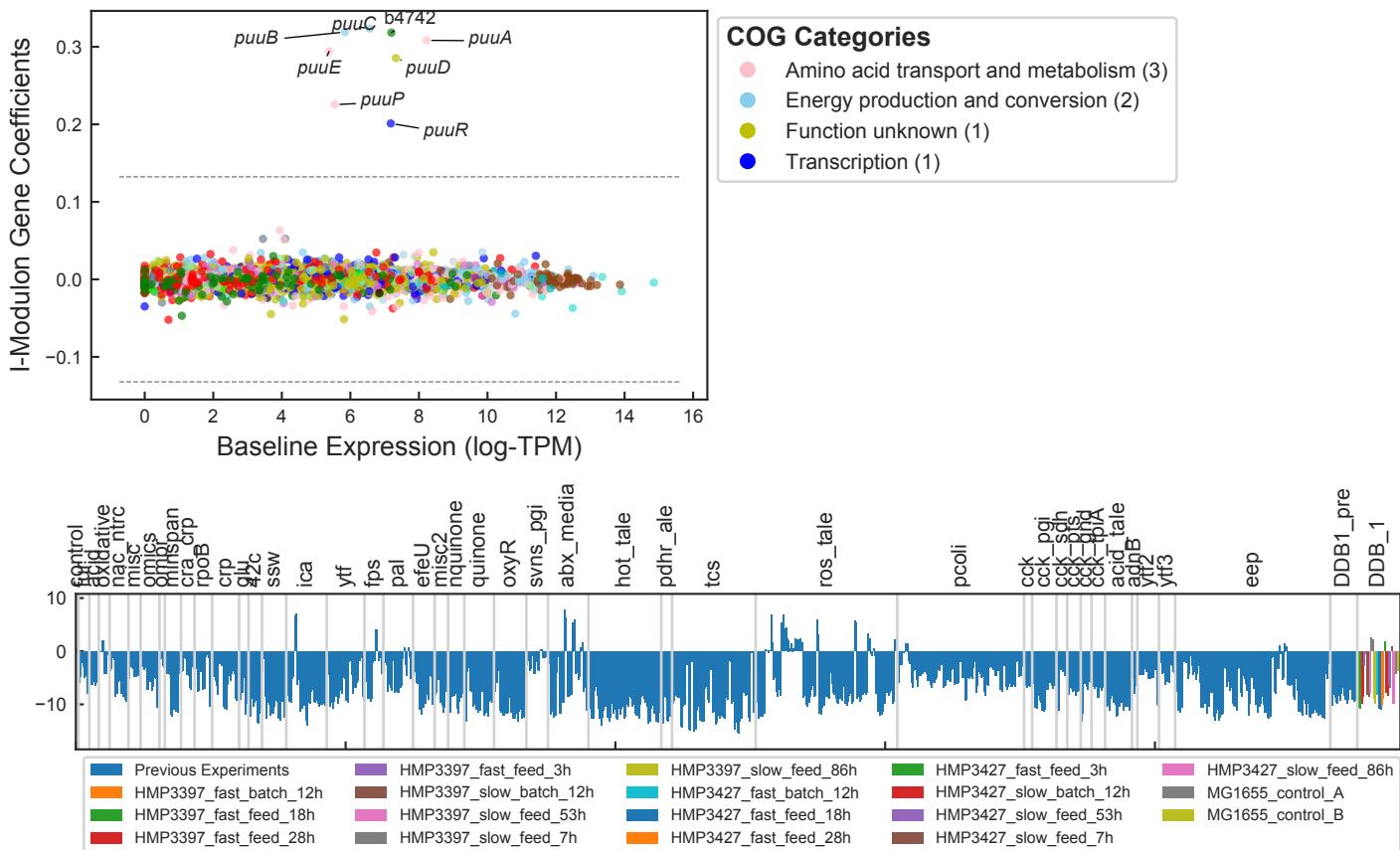
PurR – 2 I-Modulon

Regulated by: purR

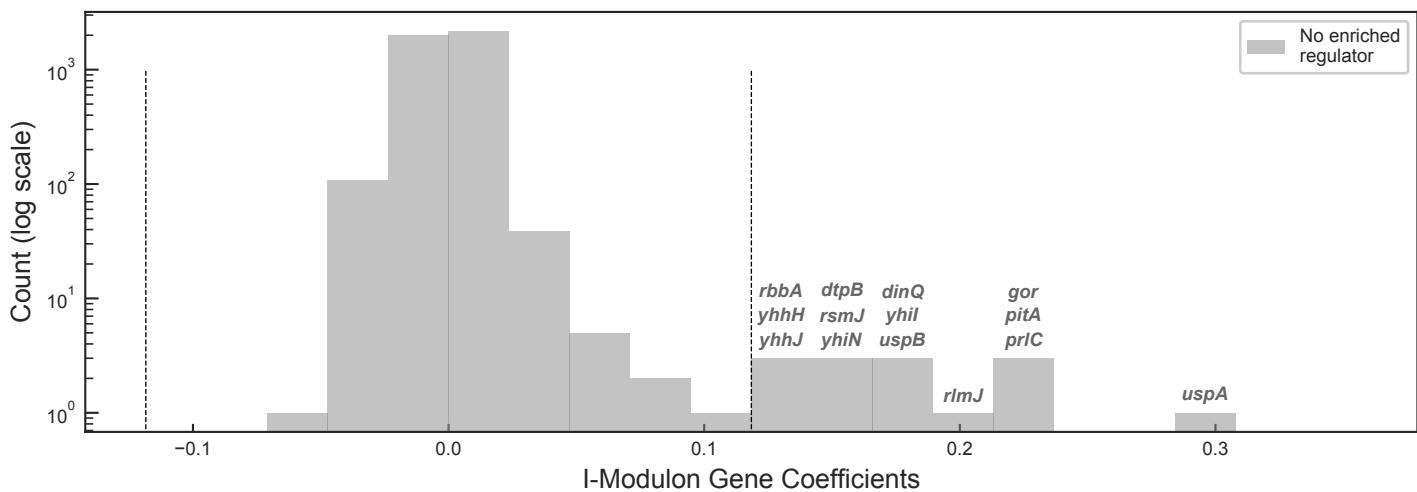
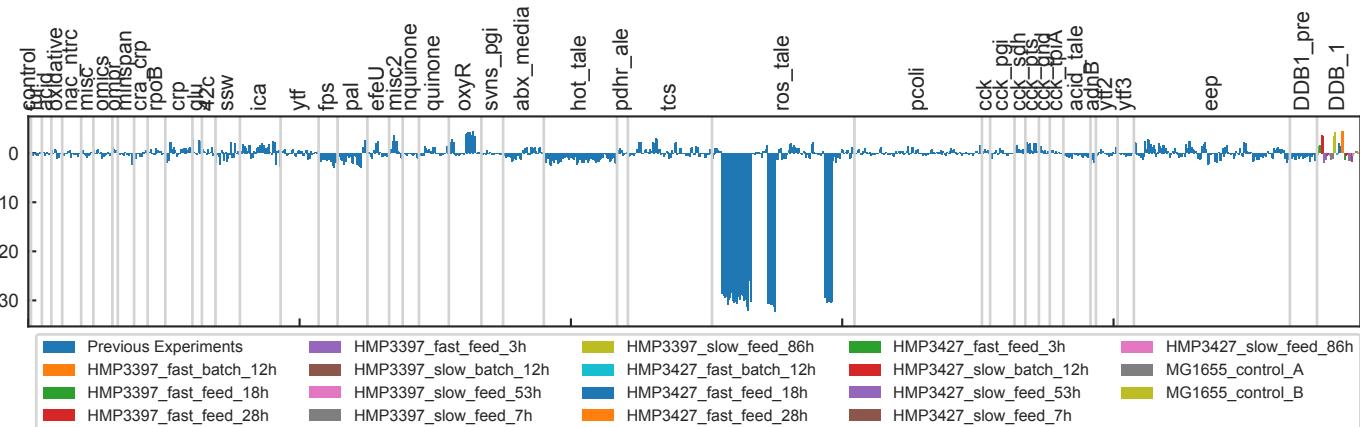
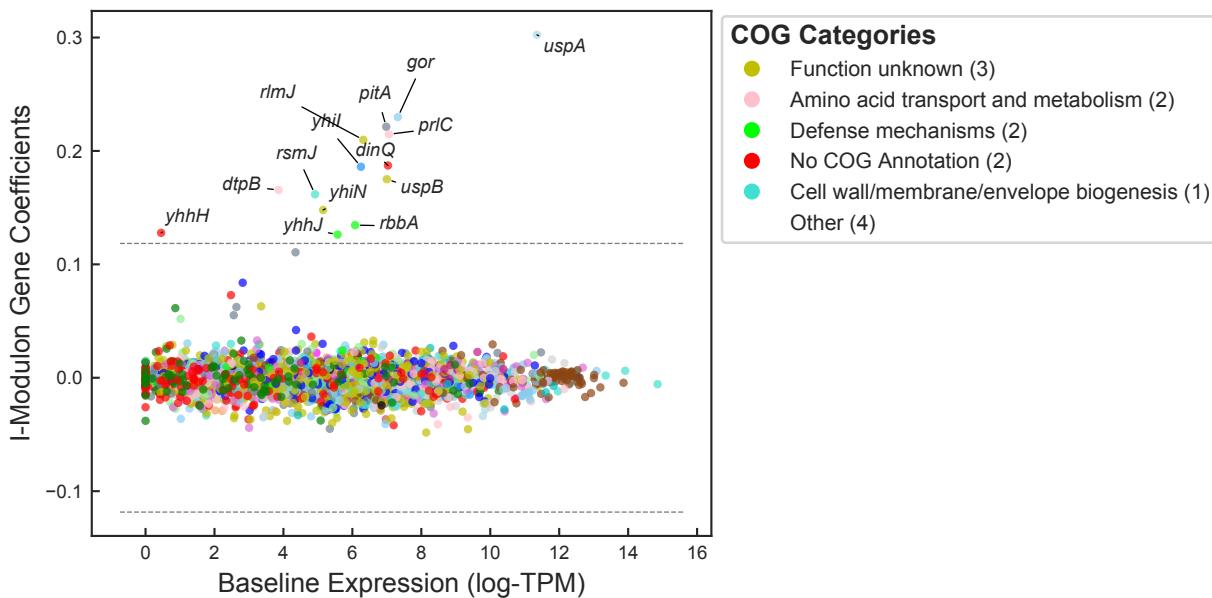


PuuR I-Modulon

Regulated by: puuR

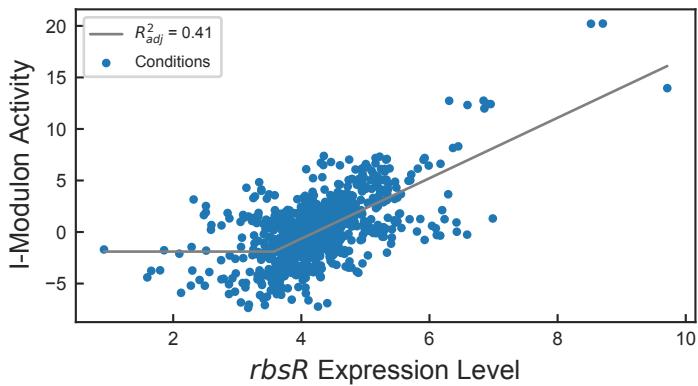
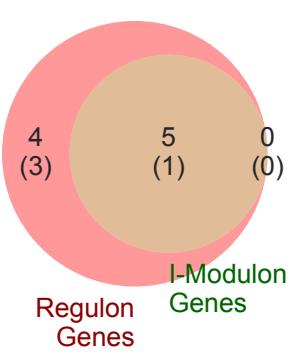
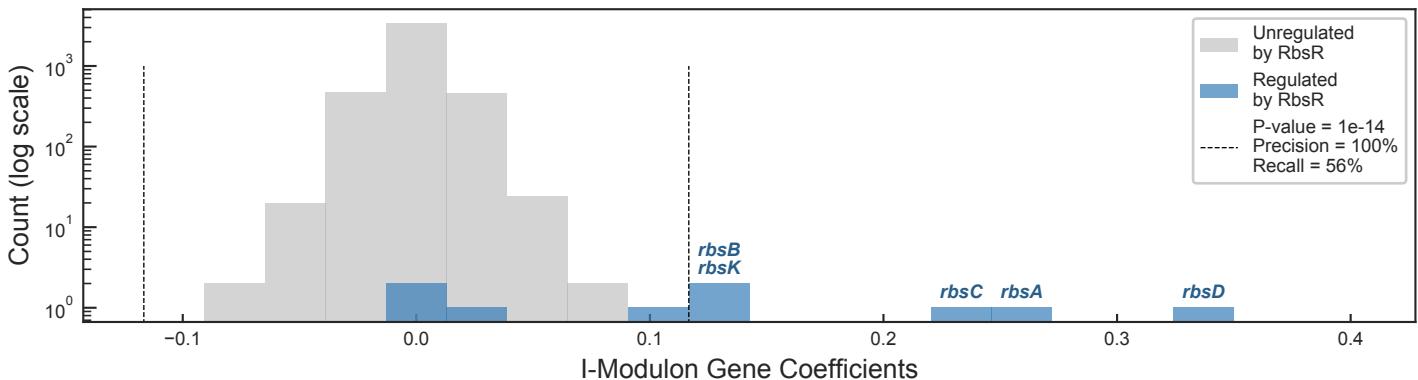
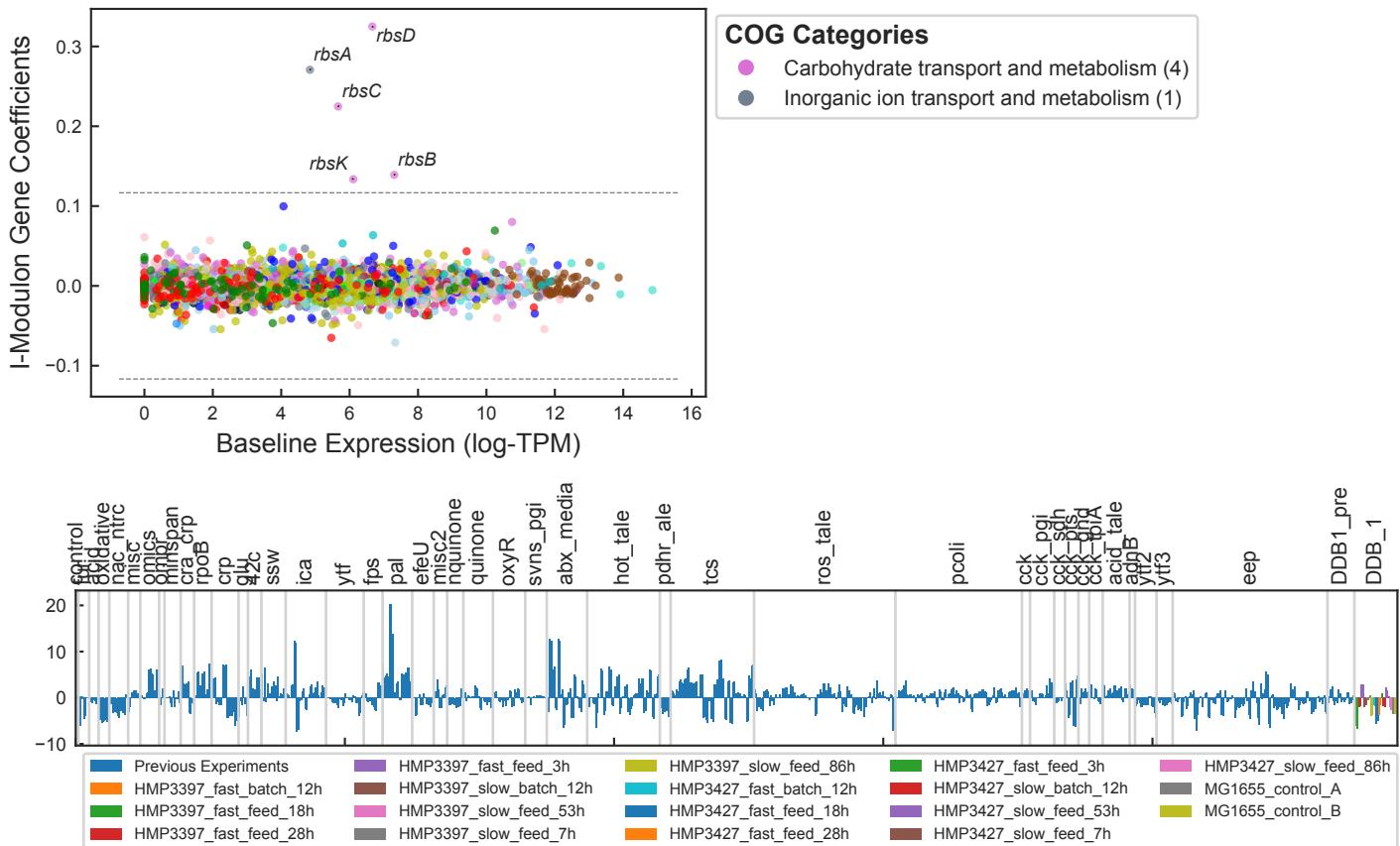


ROS – deletions I-Modulon



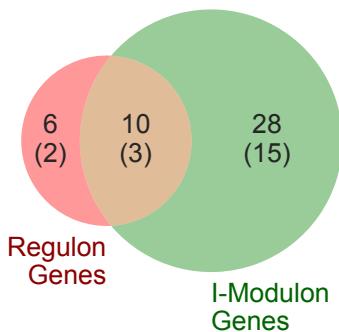
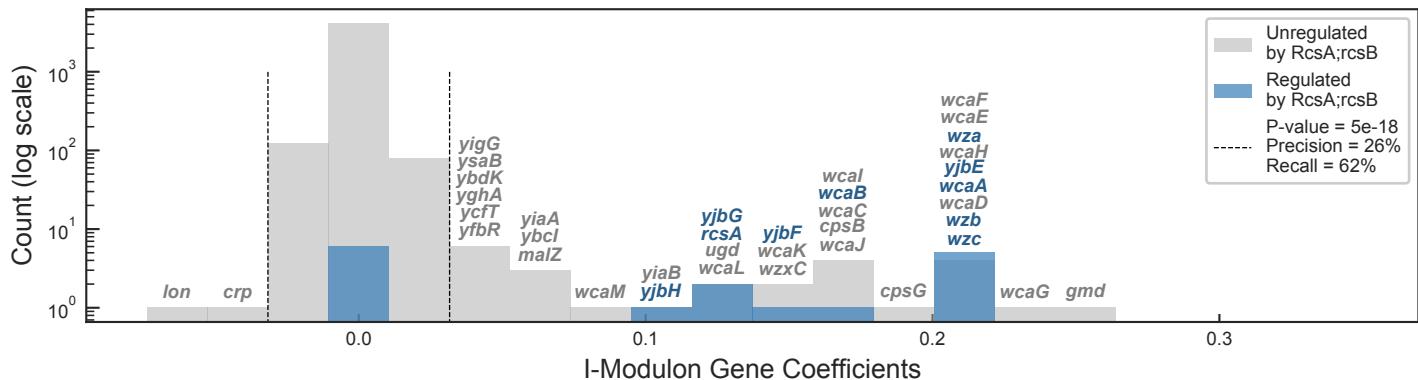
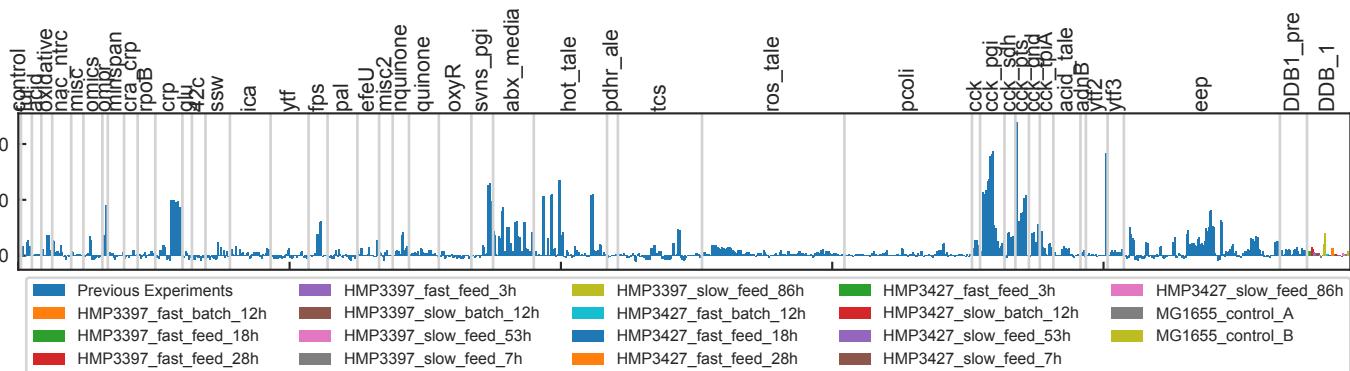
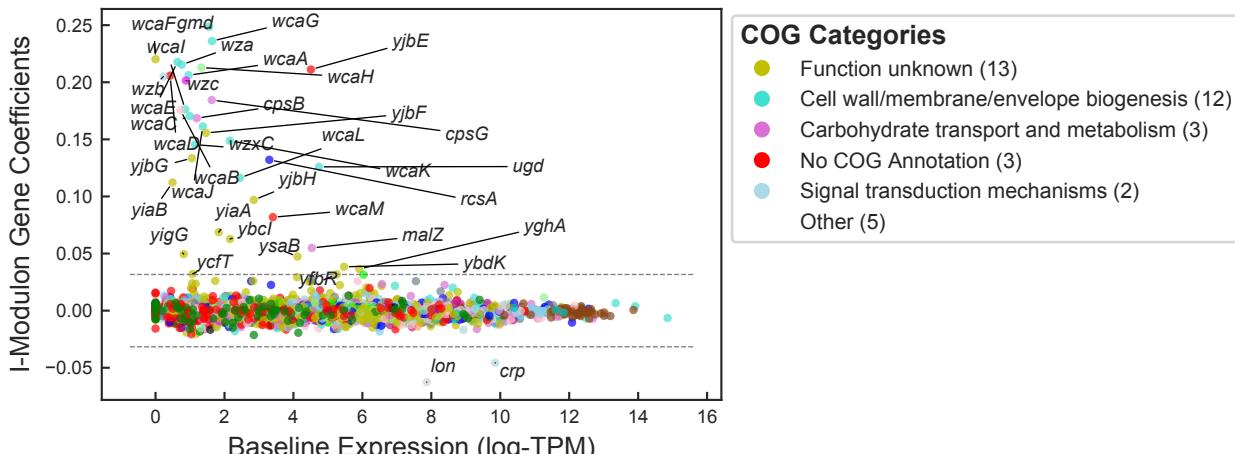
RbsR I-Modulon

Regulated by: rbsR



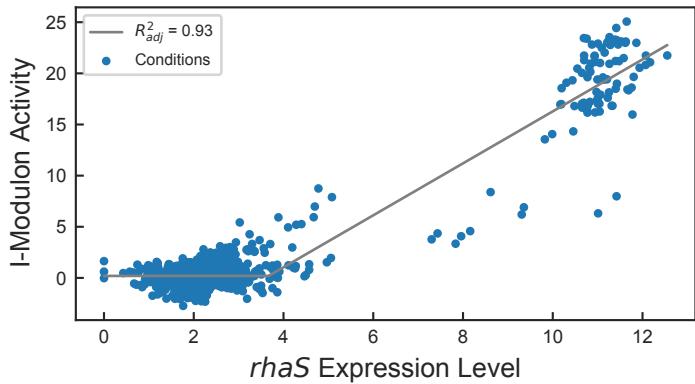
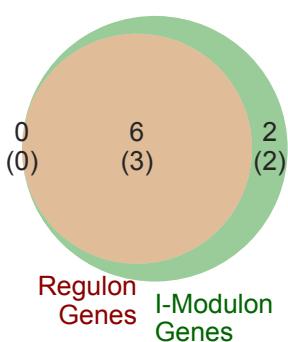
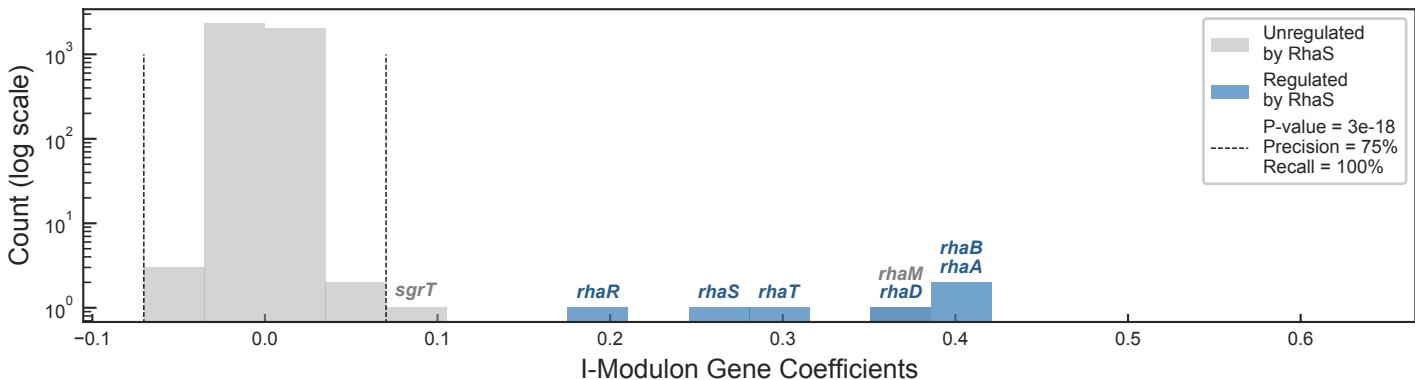
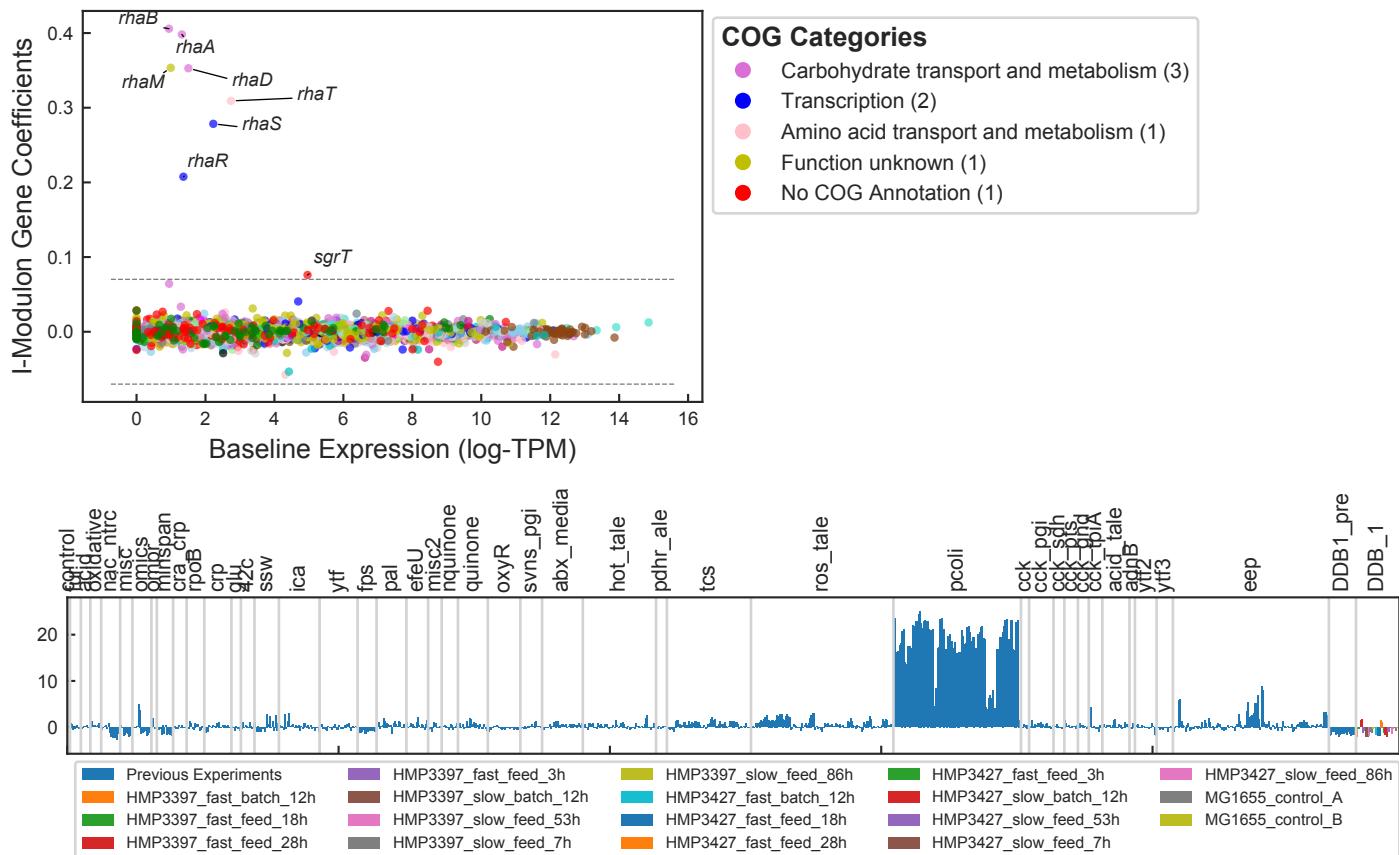
RcsAB I-Modulon

Regulated by: rcsA;rcsB



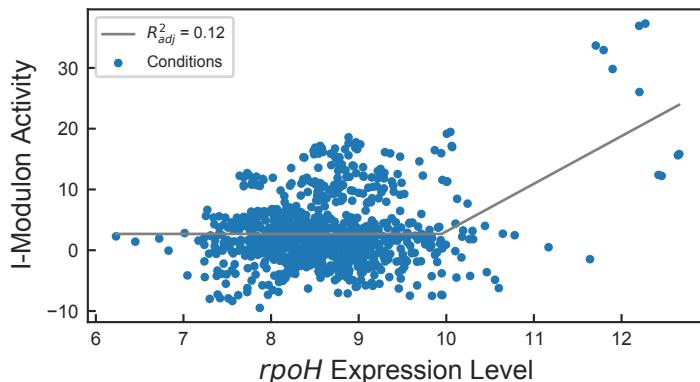
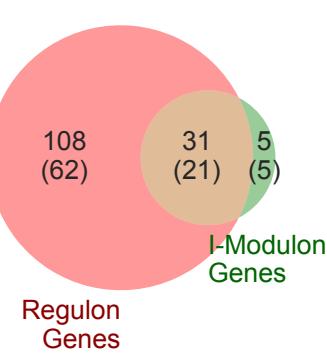
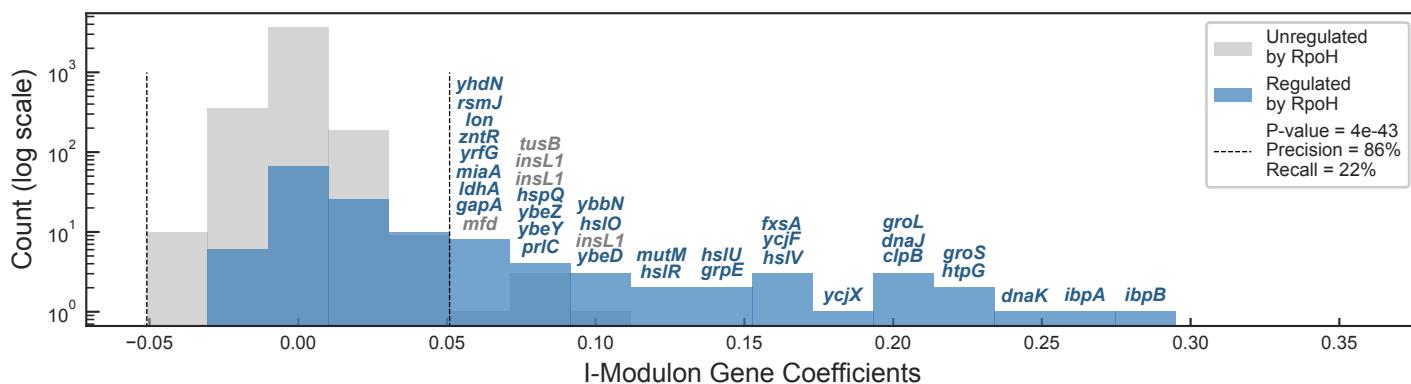
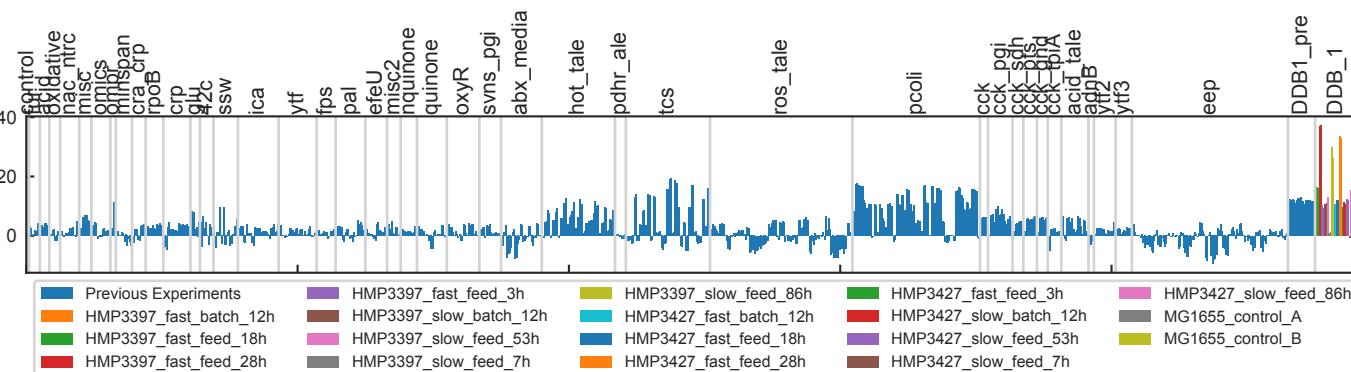
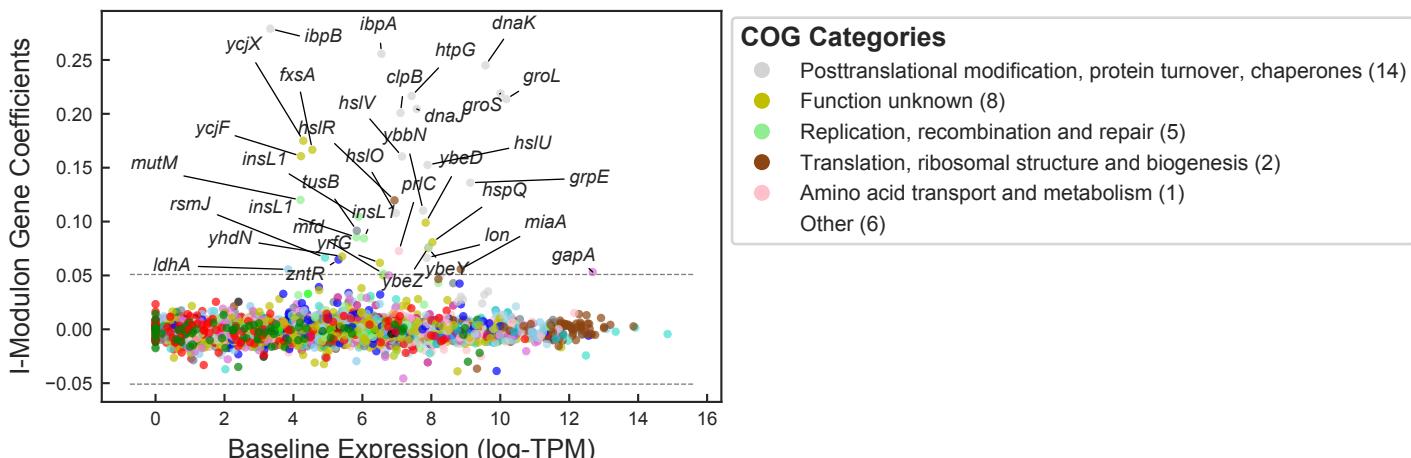
RhaS I-Modulon

Regulated by: rhaS



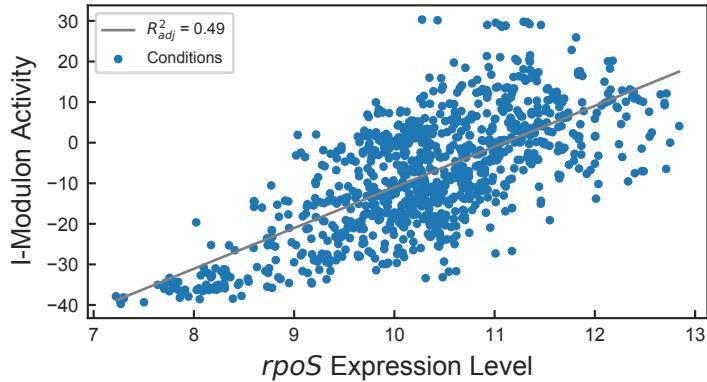
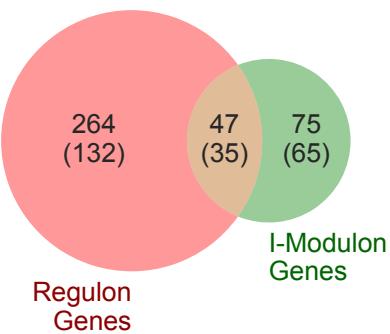
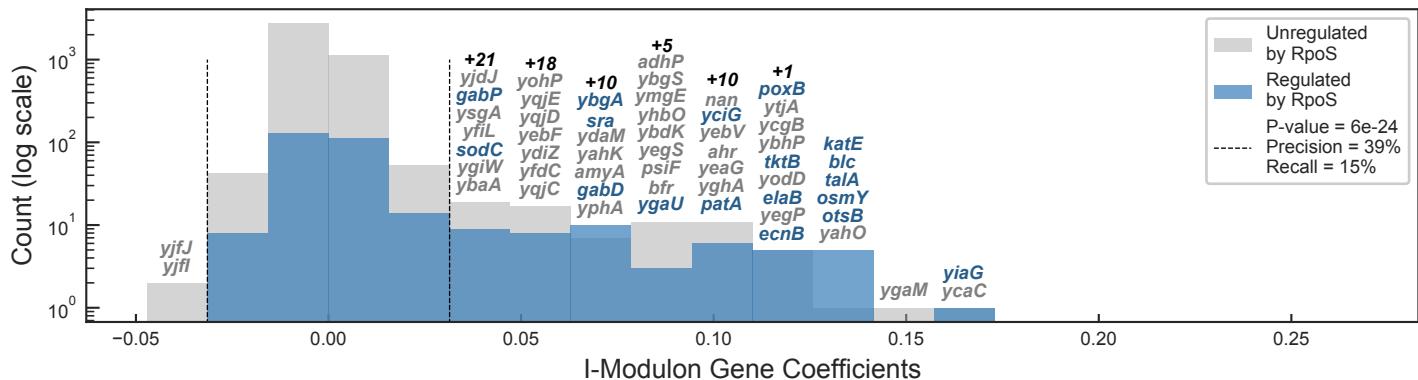
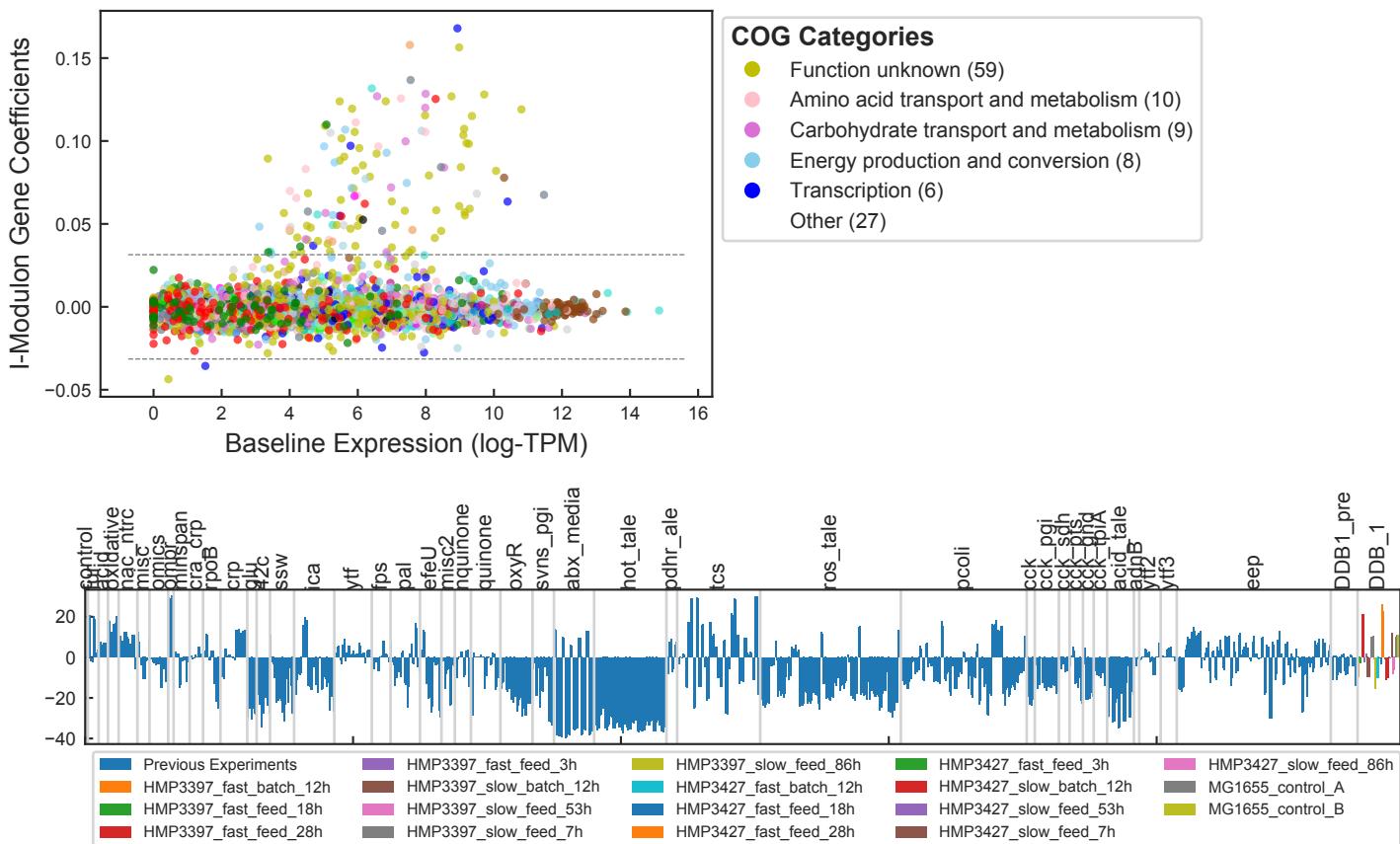
RpoH I-Modulon

Regulated by: rpoH



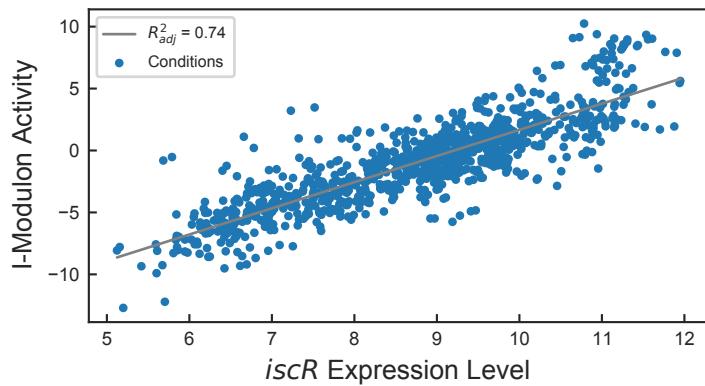
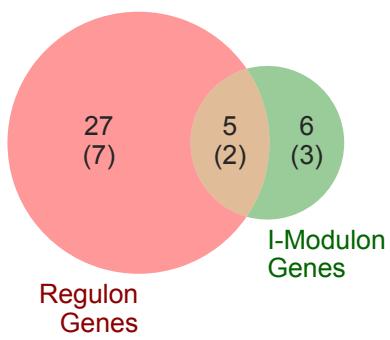
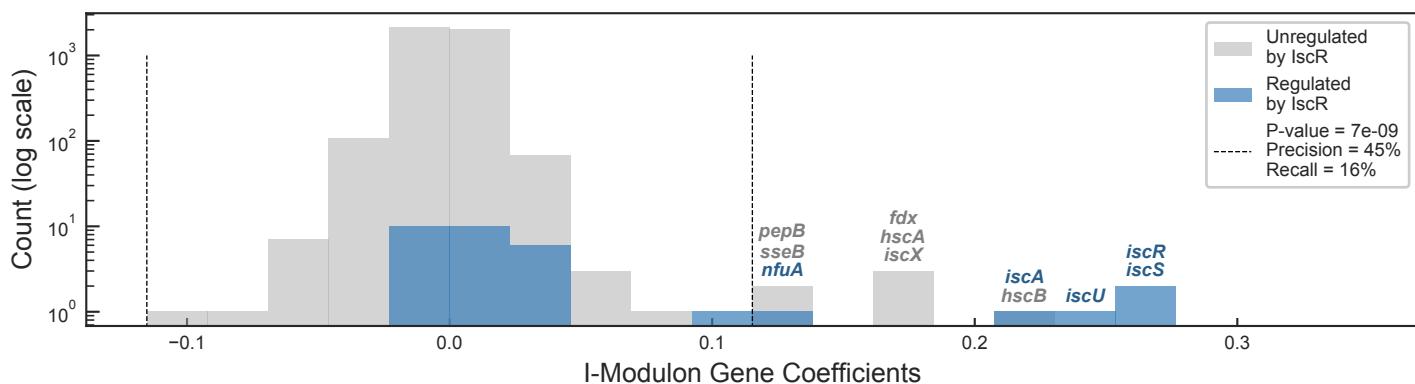
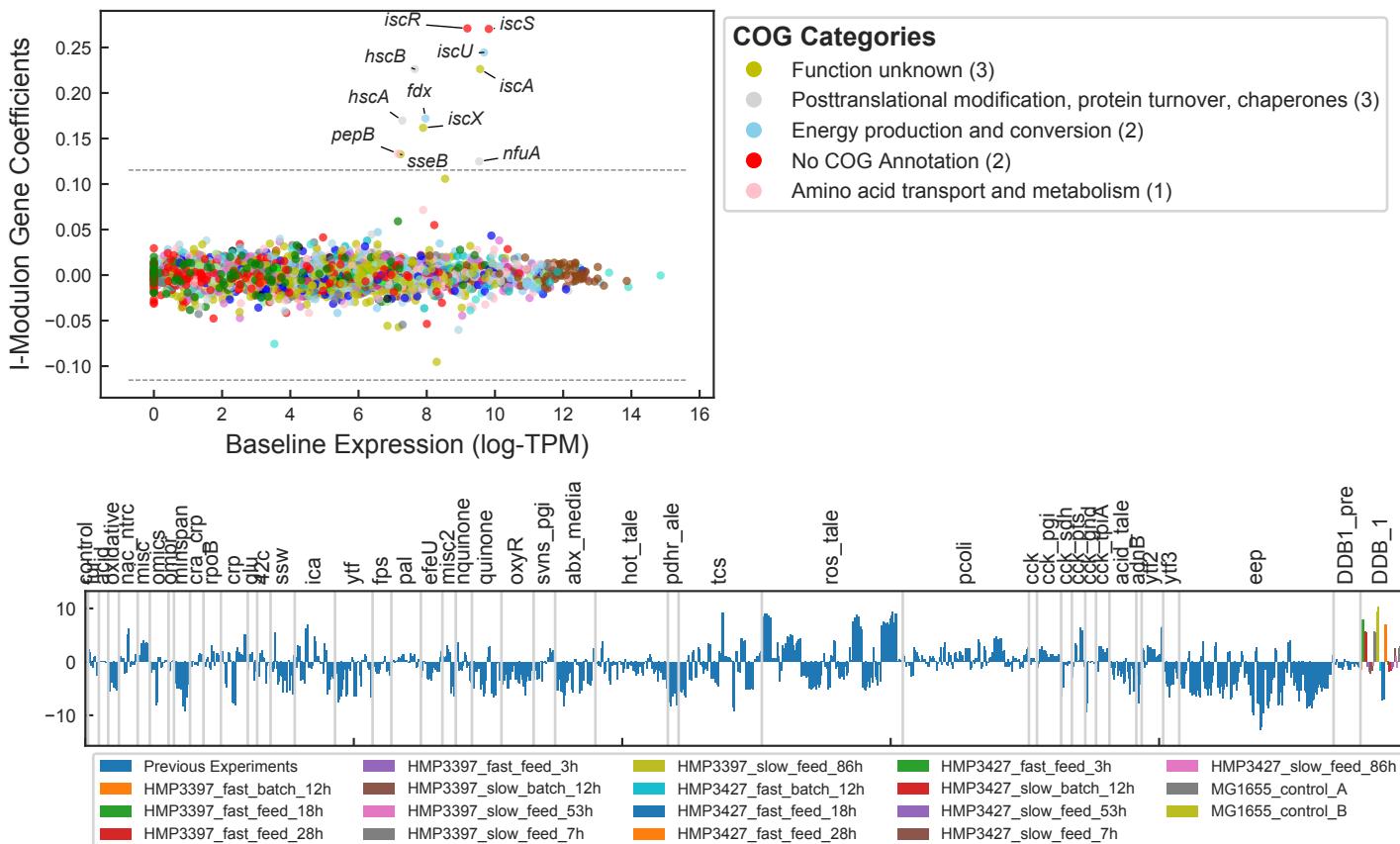
RpoS I-Modulon

Regulated by: rpoS

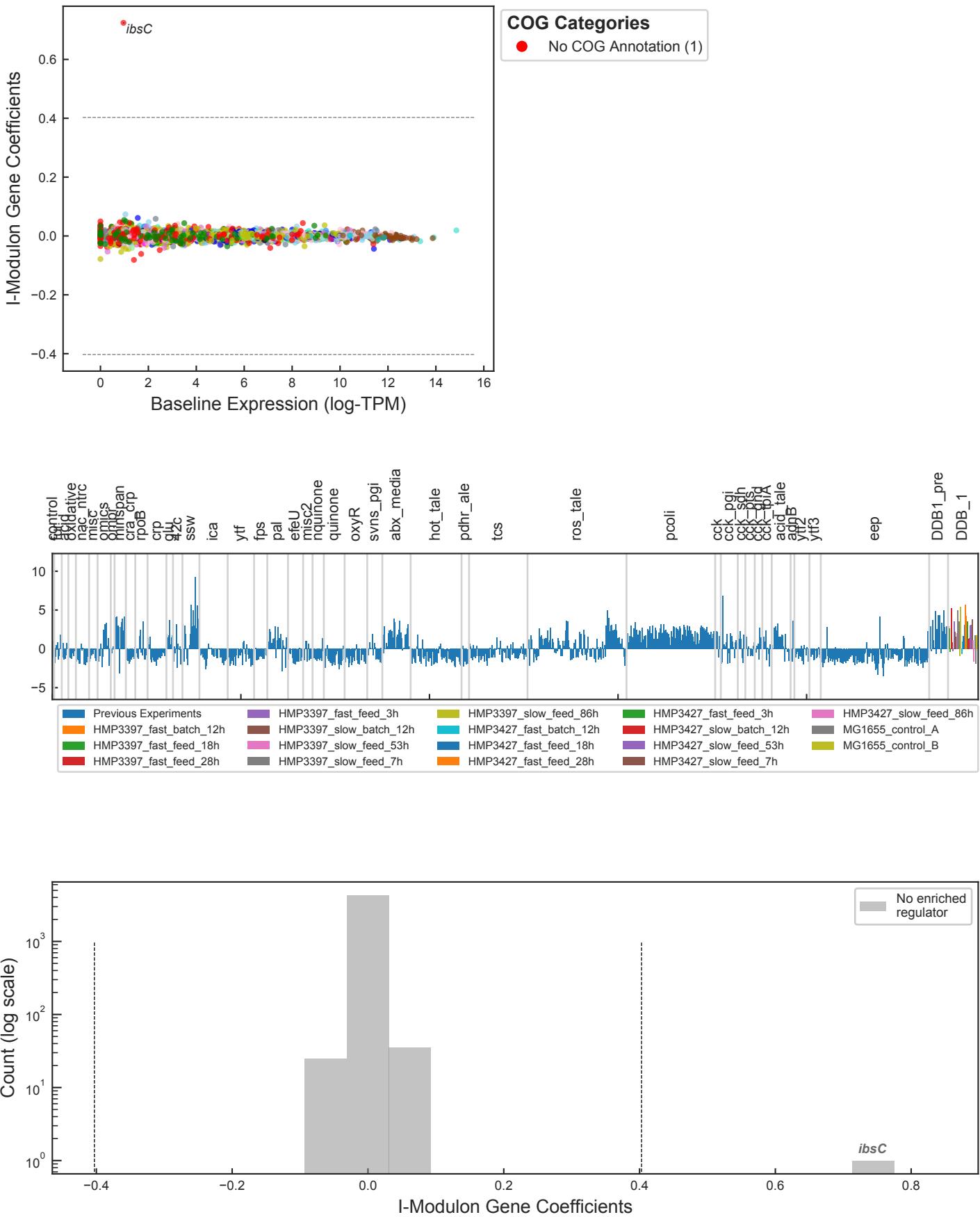


RyhB/IscR I-Modulon

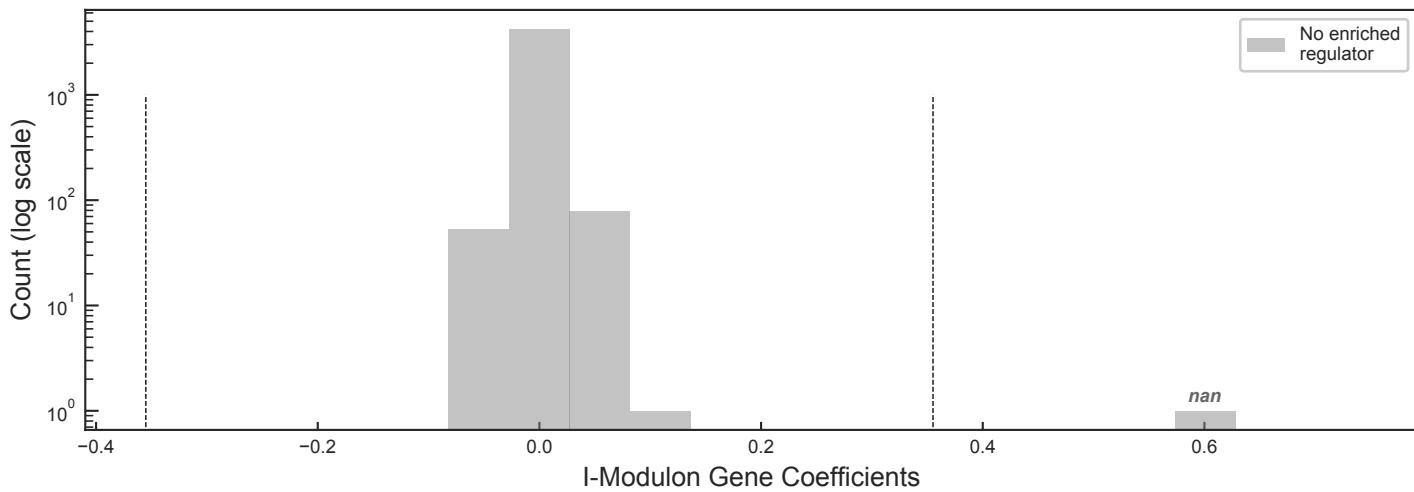
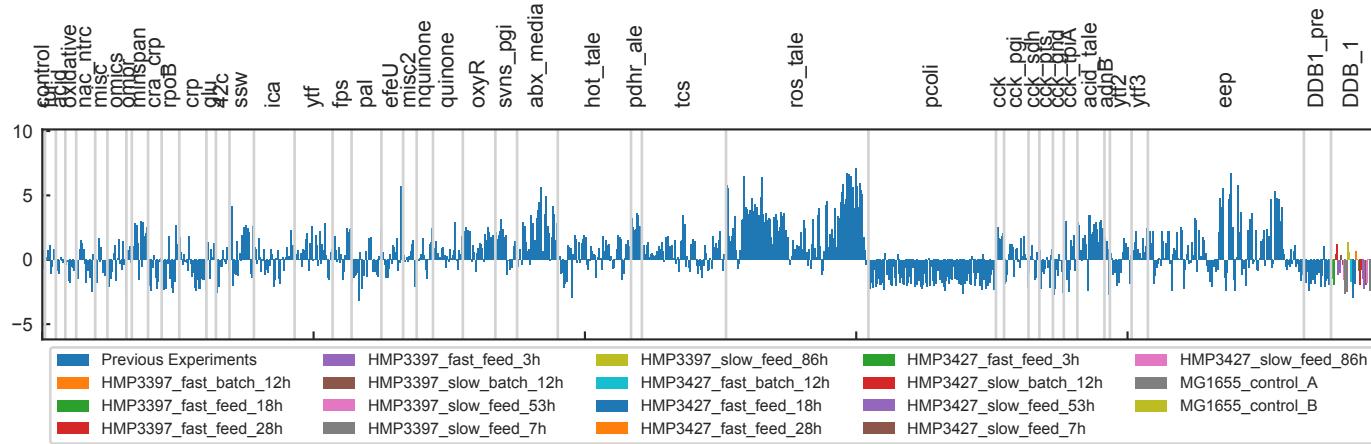
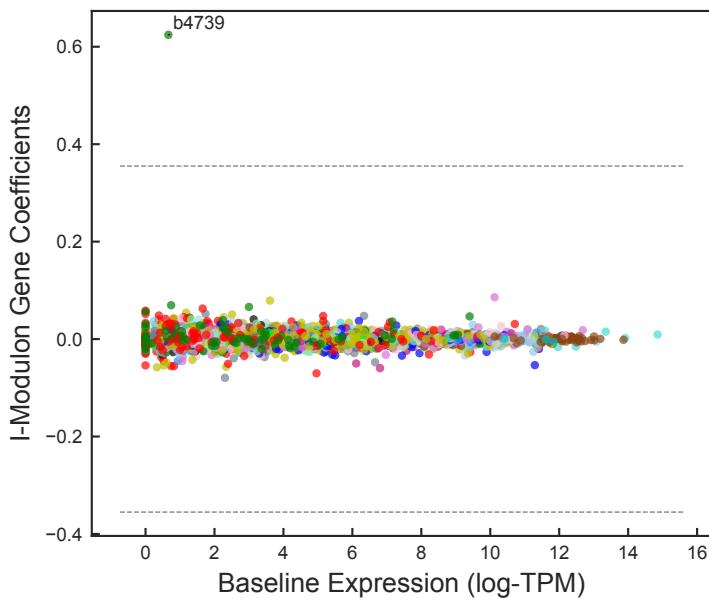
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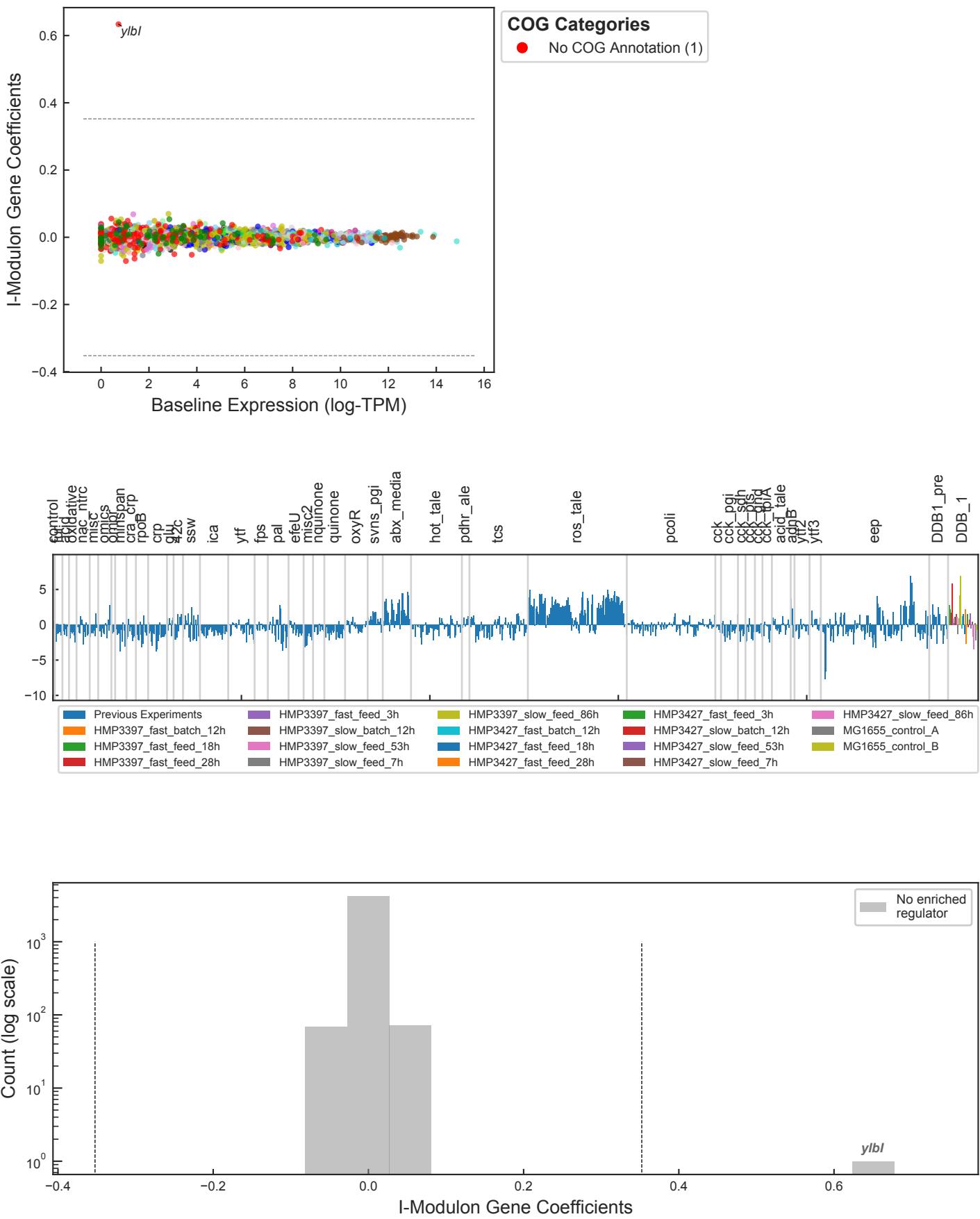
SG – 1 I-Modulon



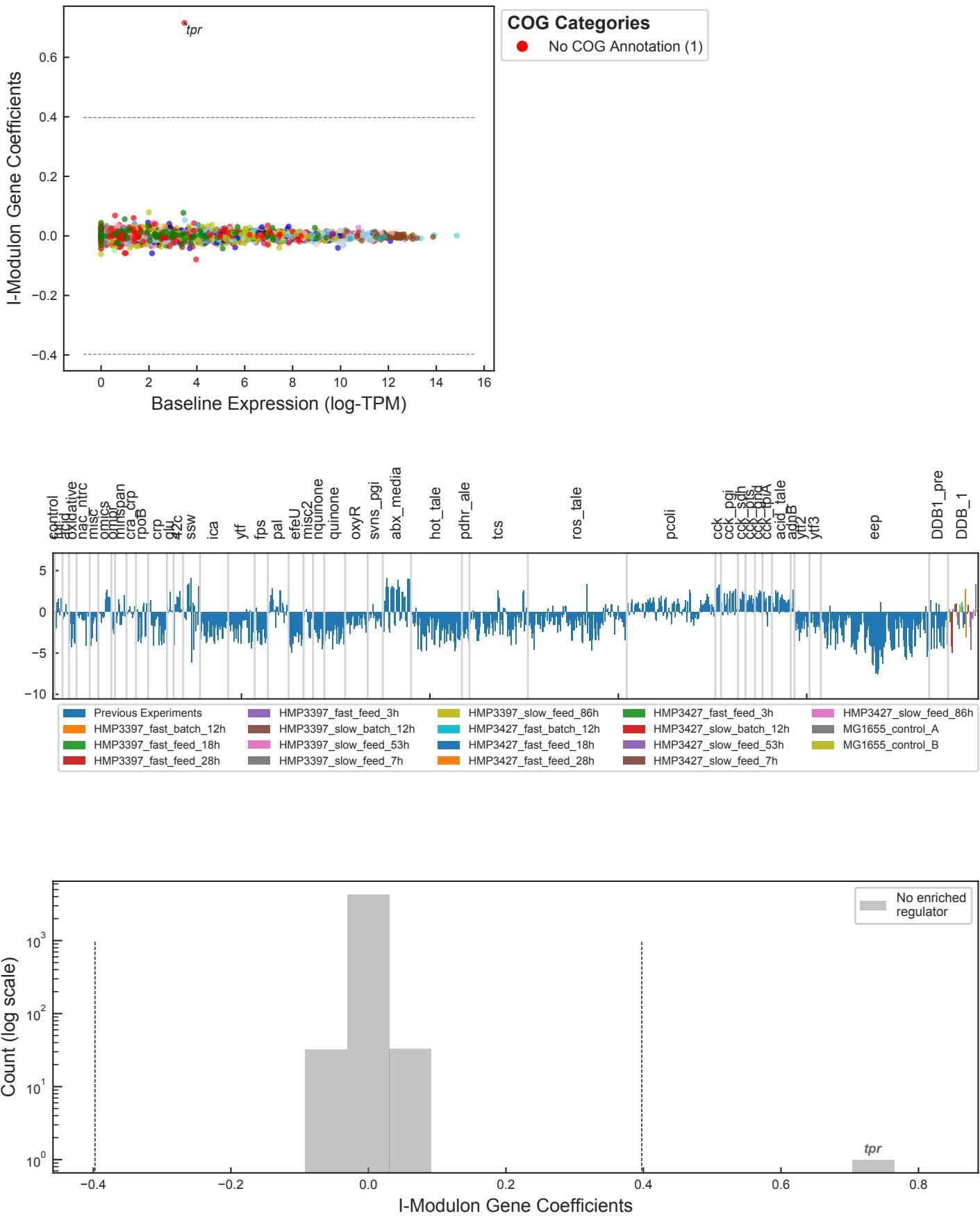
SG – 10 I-Modulon



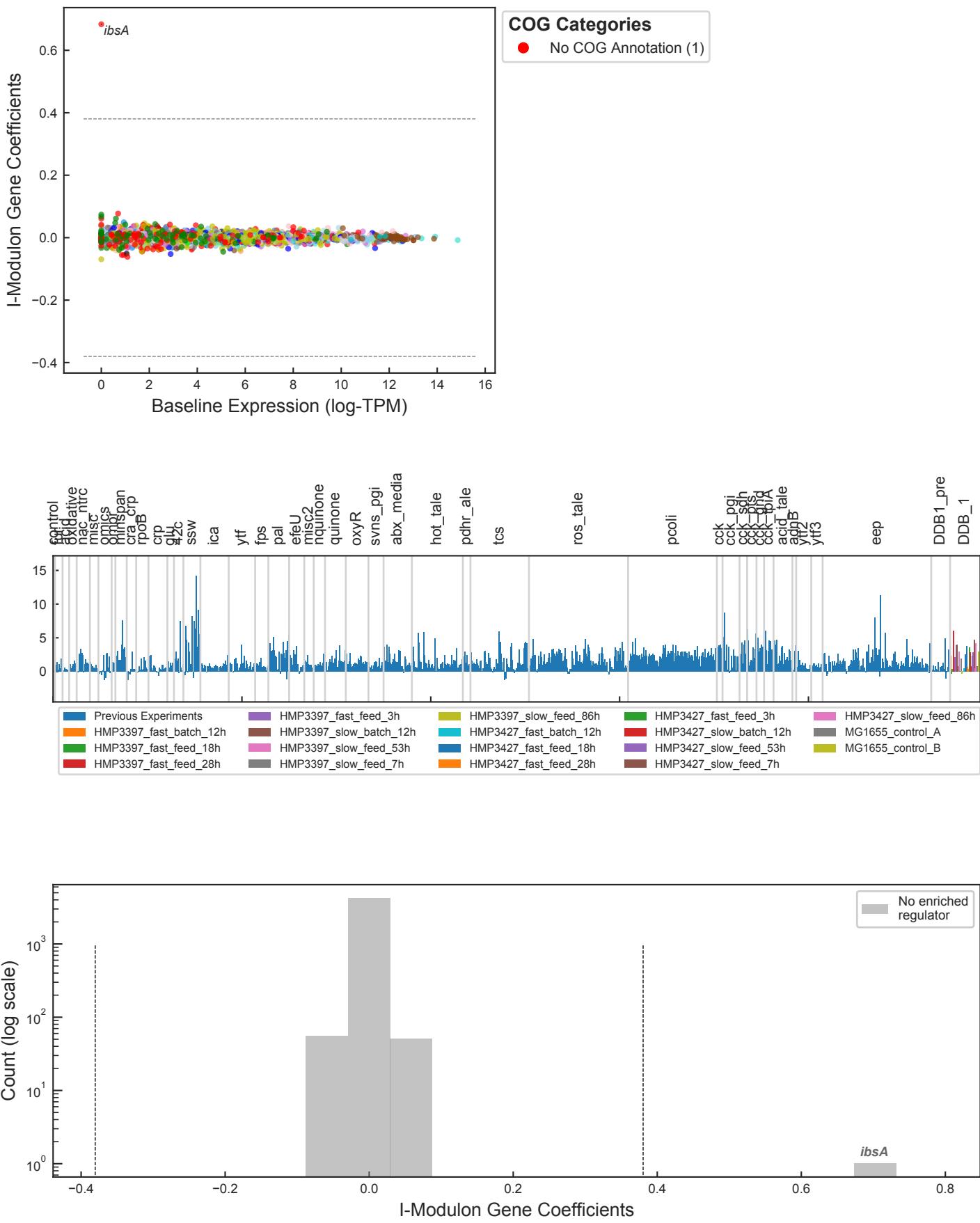
SG – 11 I-Modulon



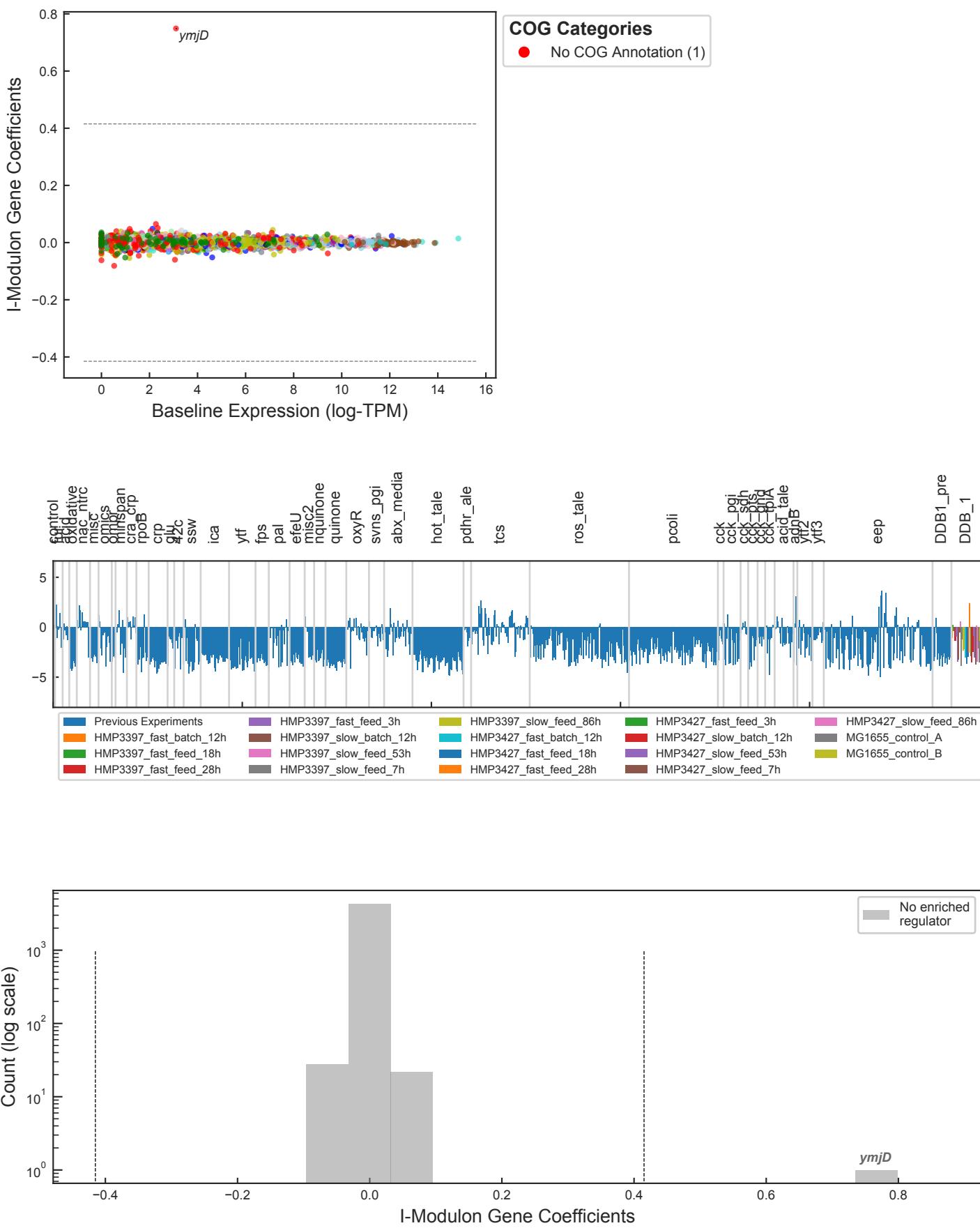
SG – 12 I-Modulon



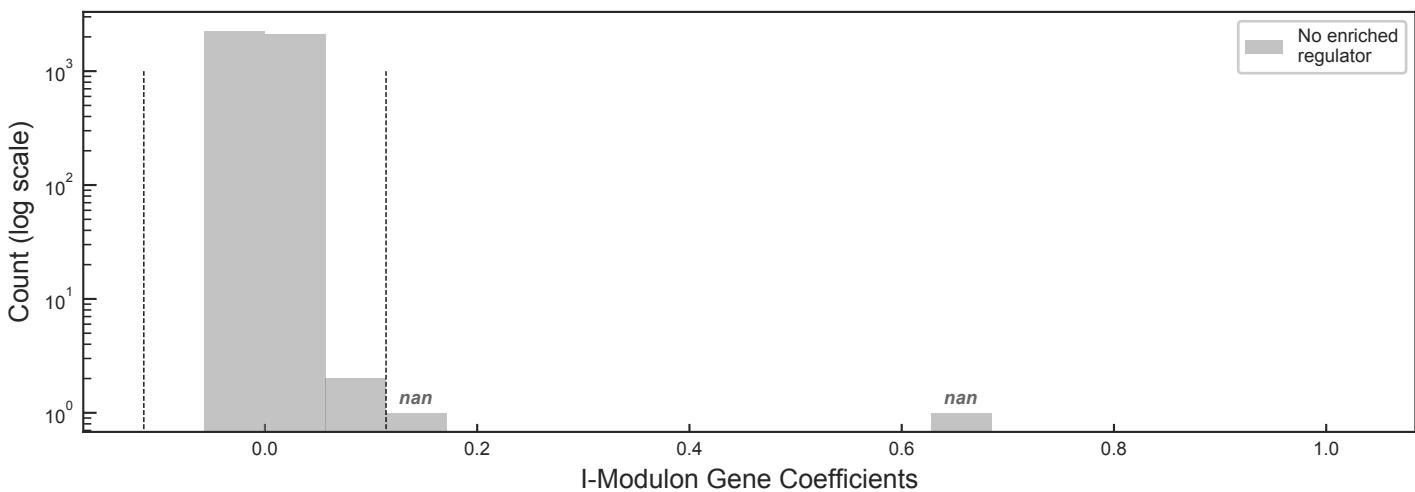
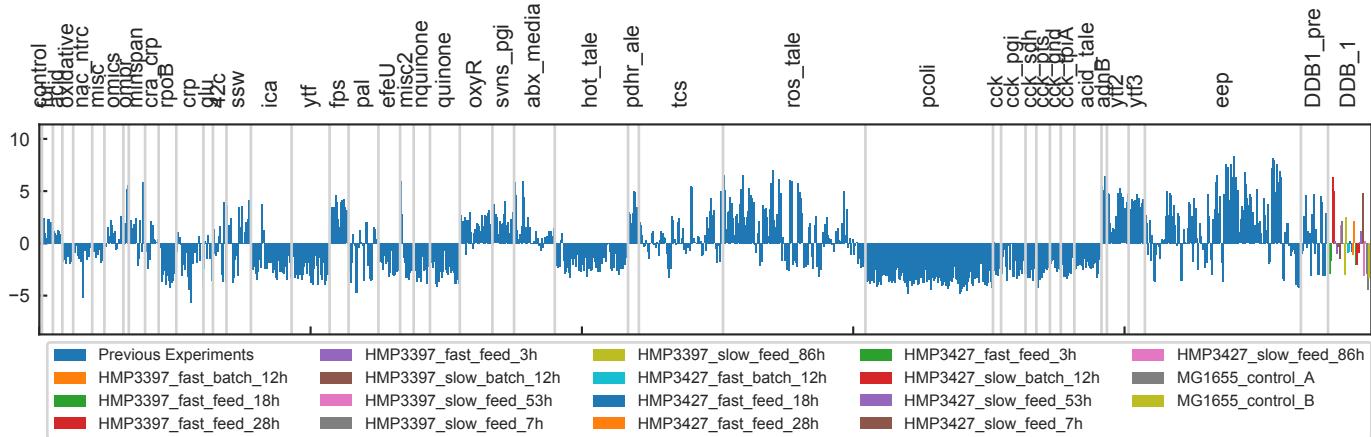
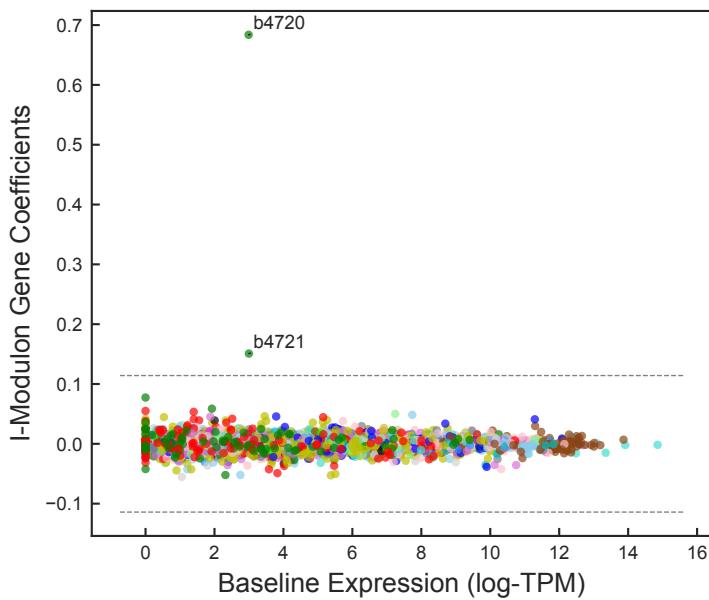
SG – 13 I-Modulon



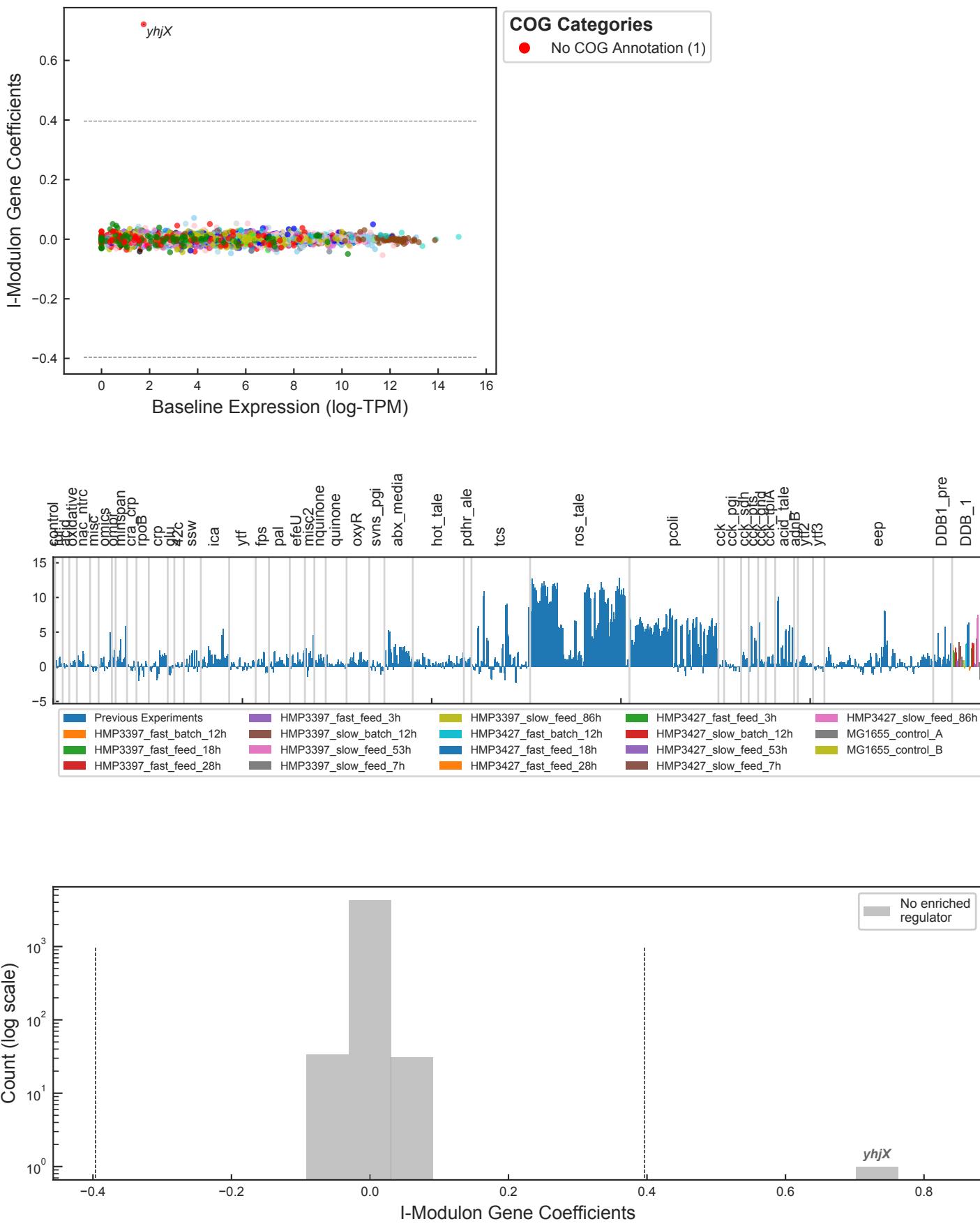
SG – 14 I-Modulon



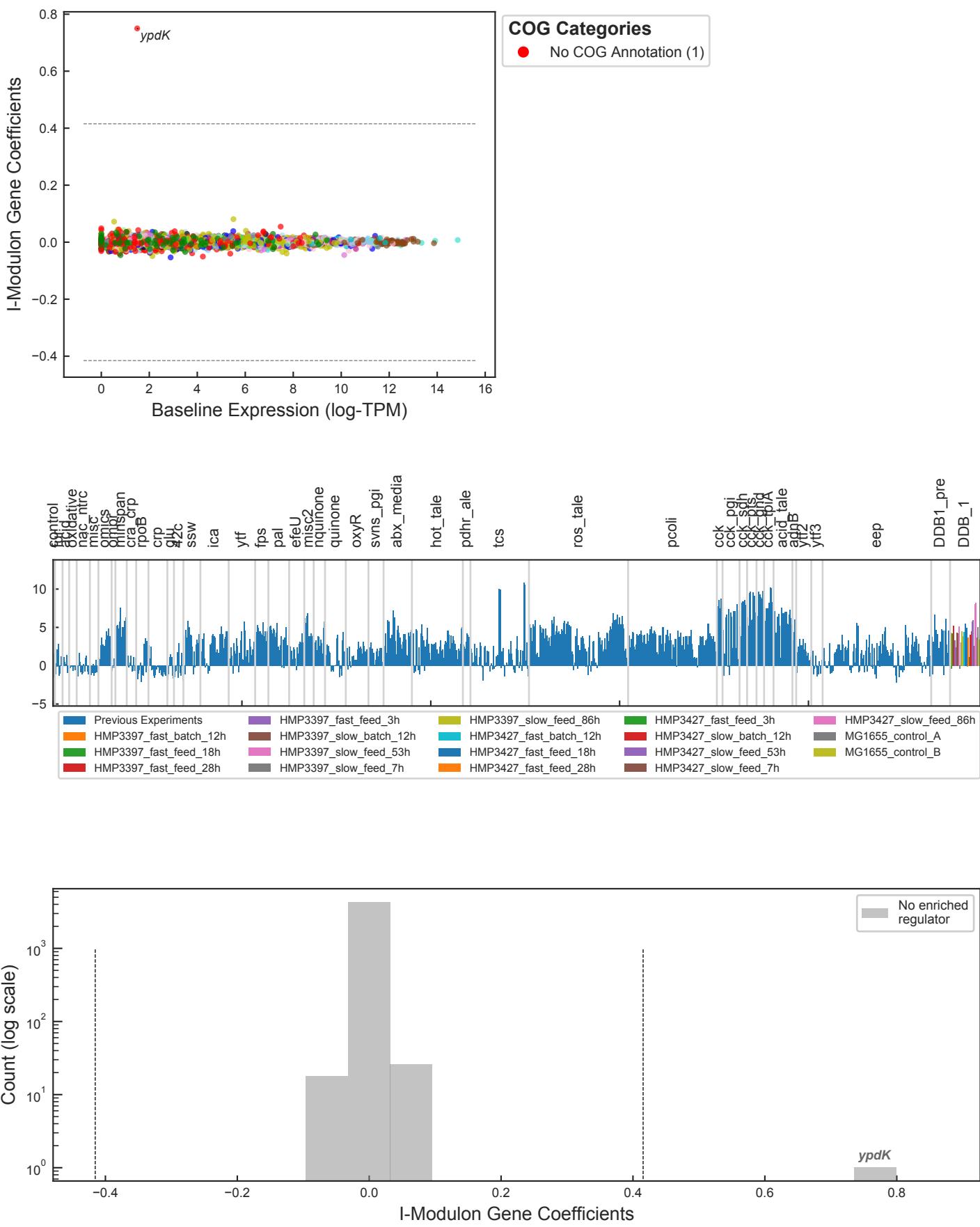
SG – 15 I-Modulon



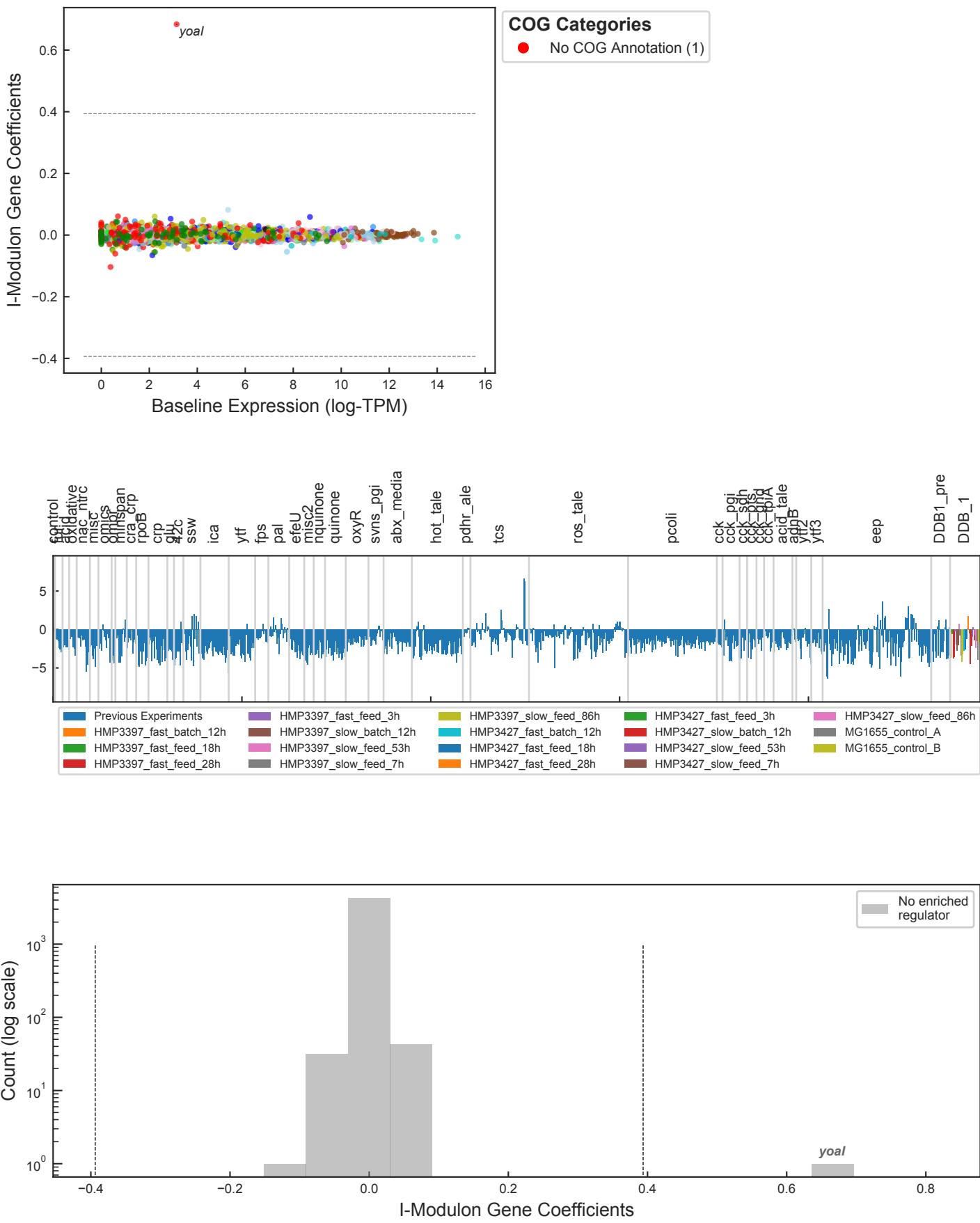
SG – 16 I-Modulon



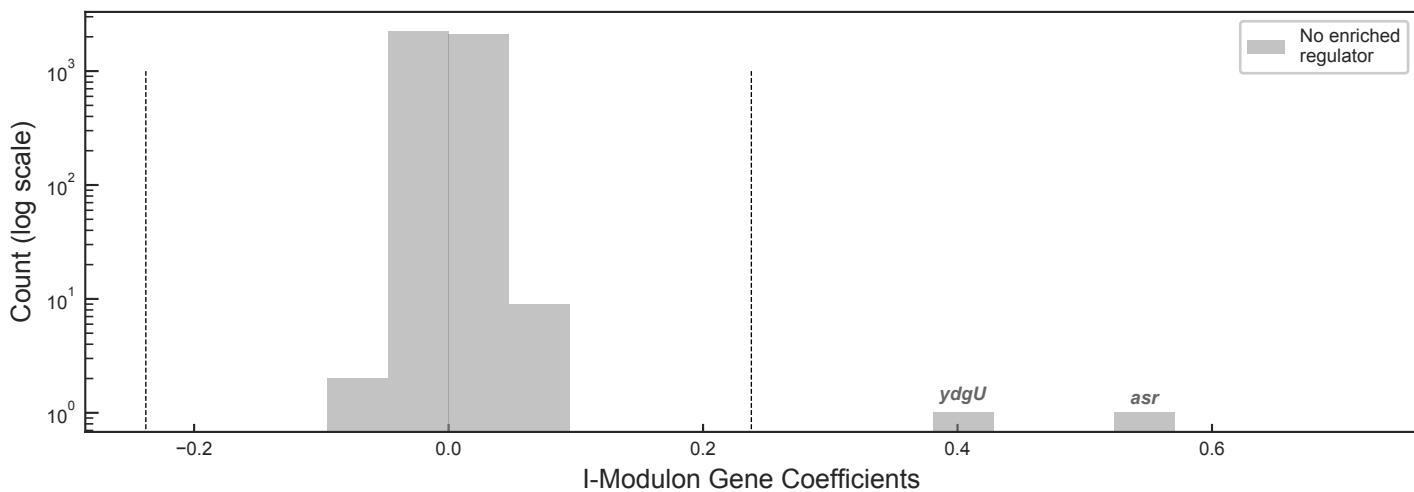
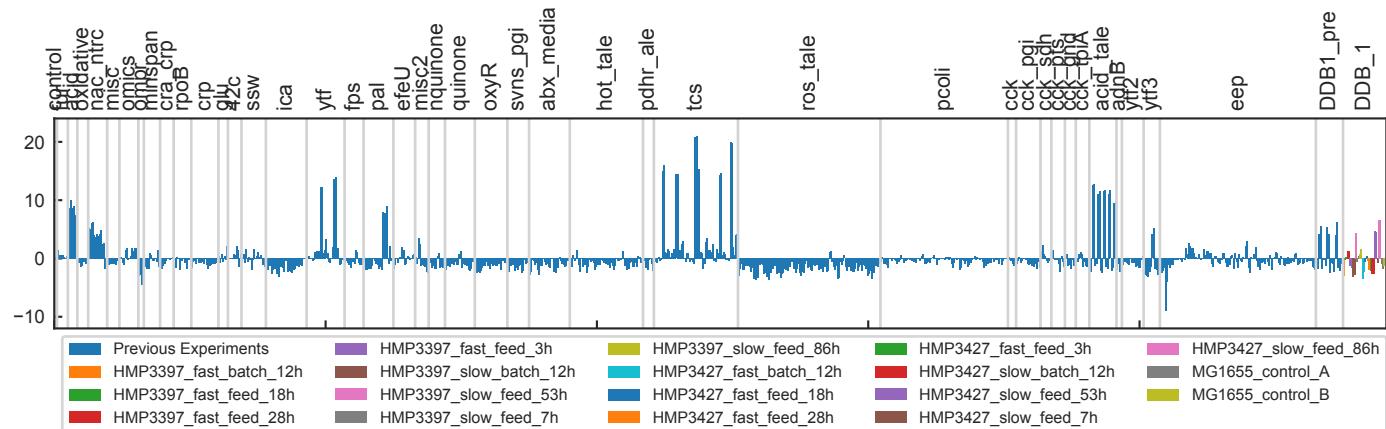
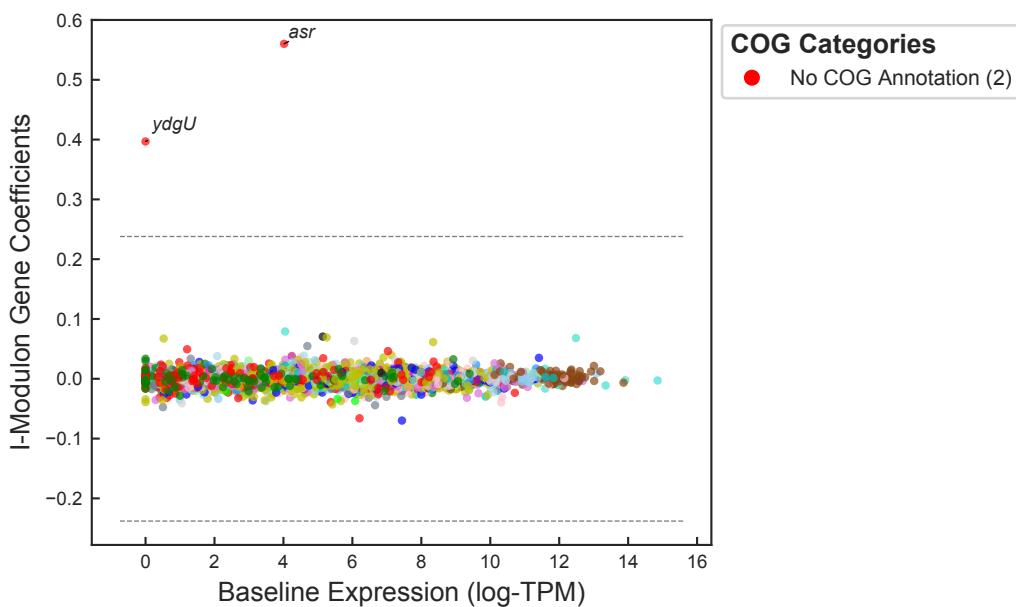
SG – 17 I-Modulon



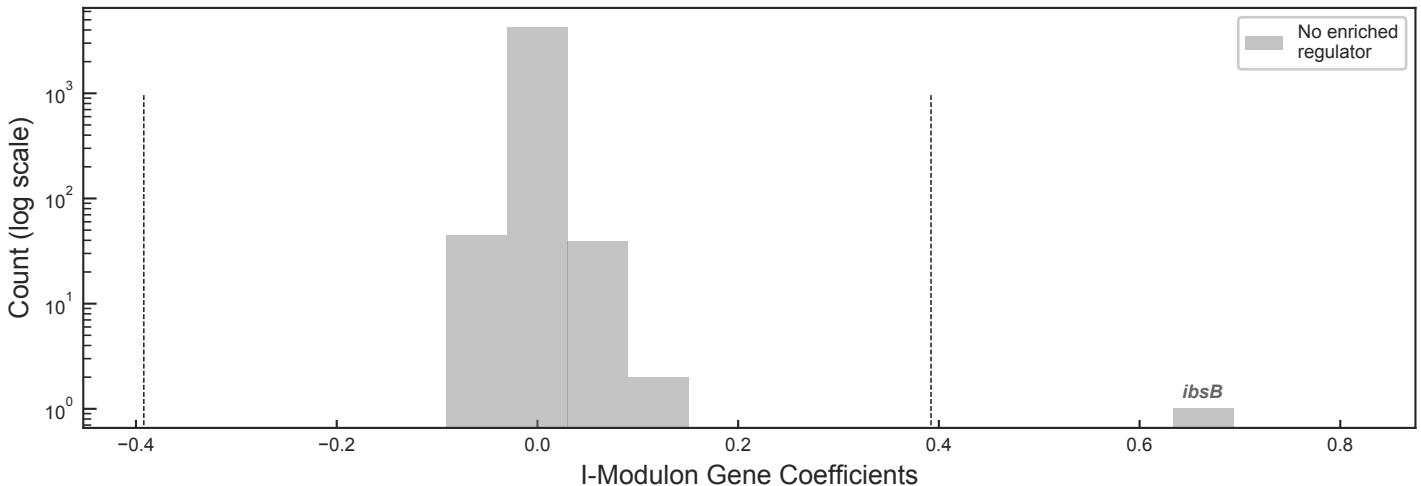
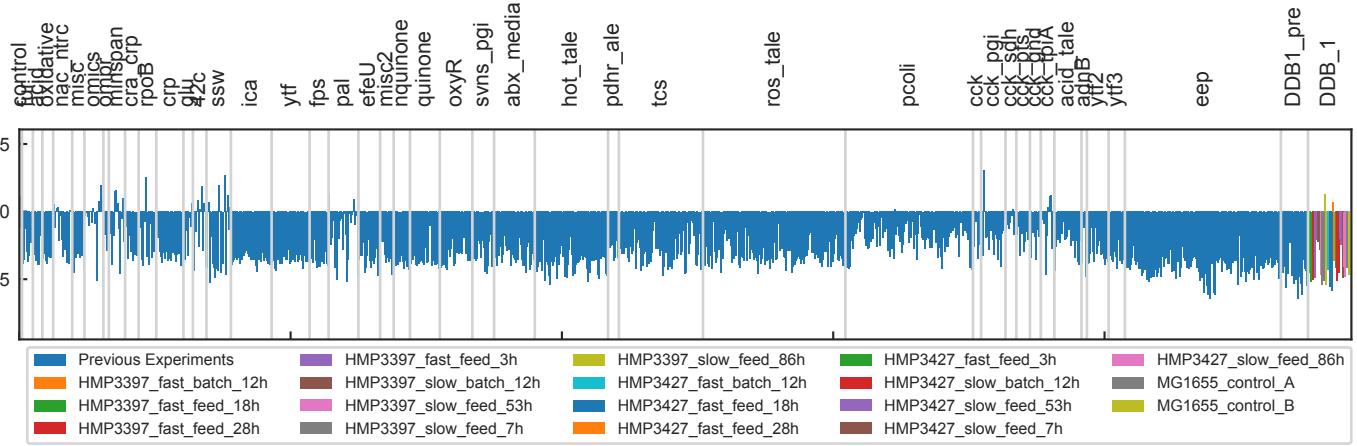
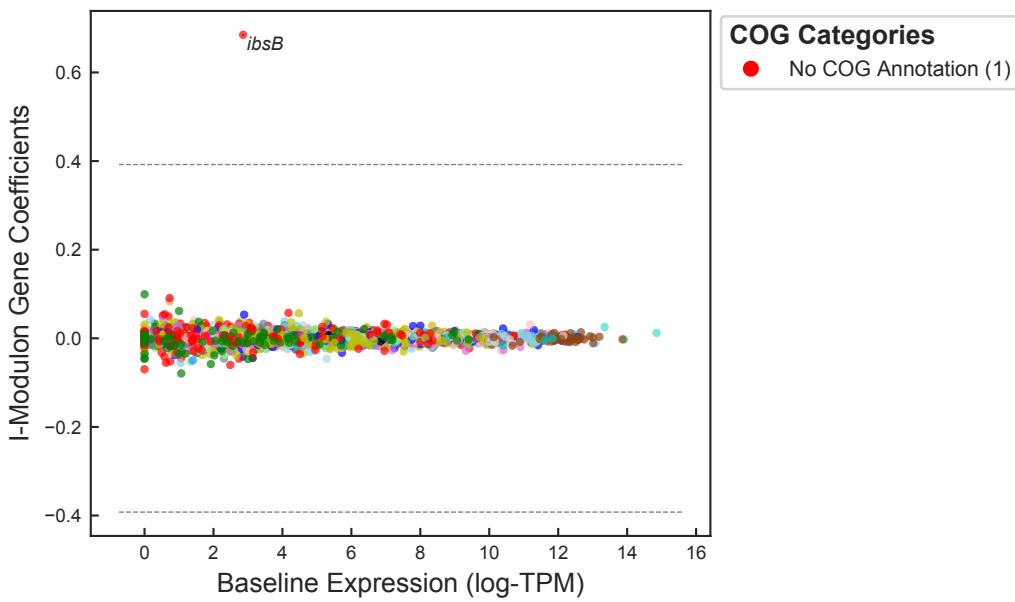
SG – 18 I-Modulon



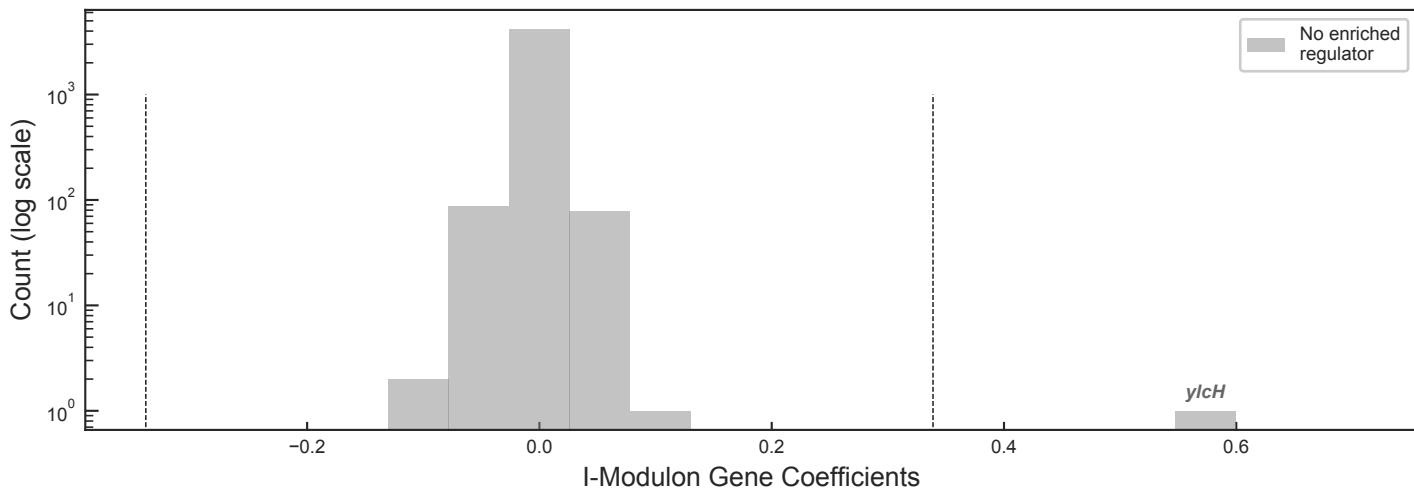
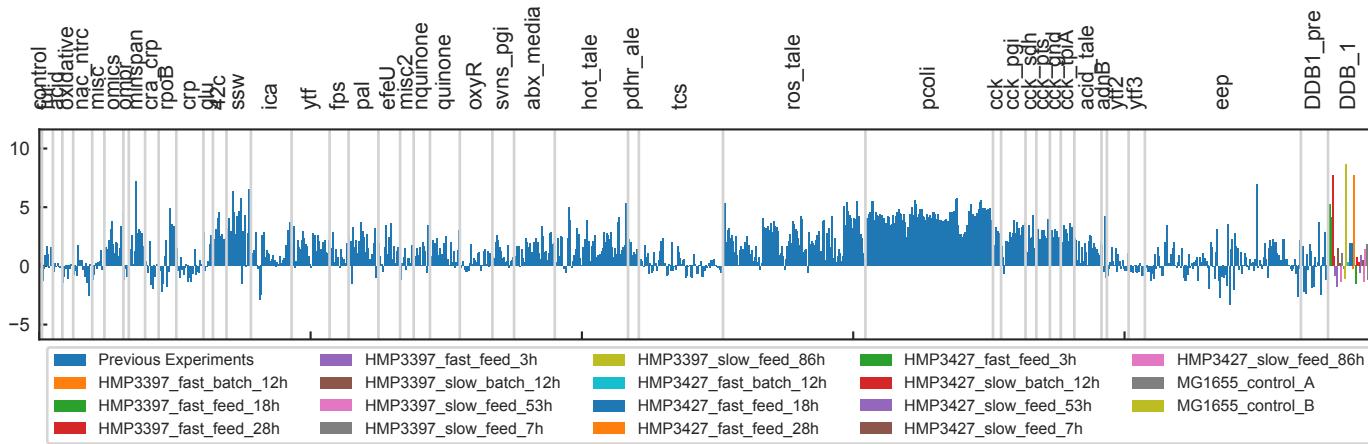
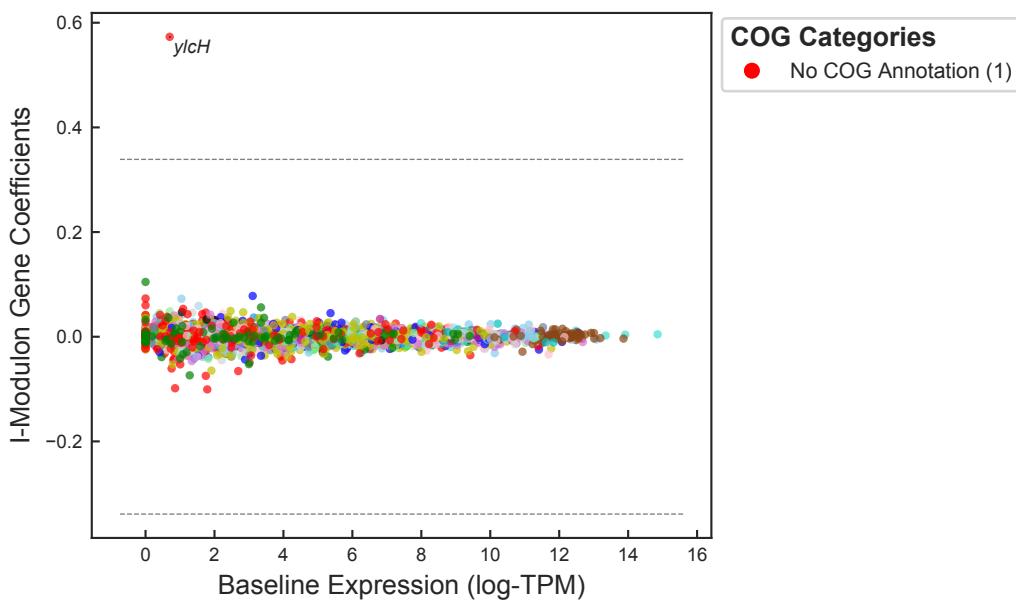
SG – 19 I-Modulon



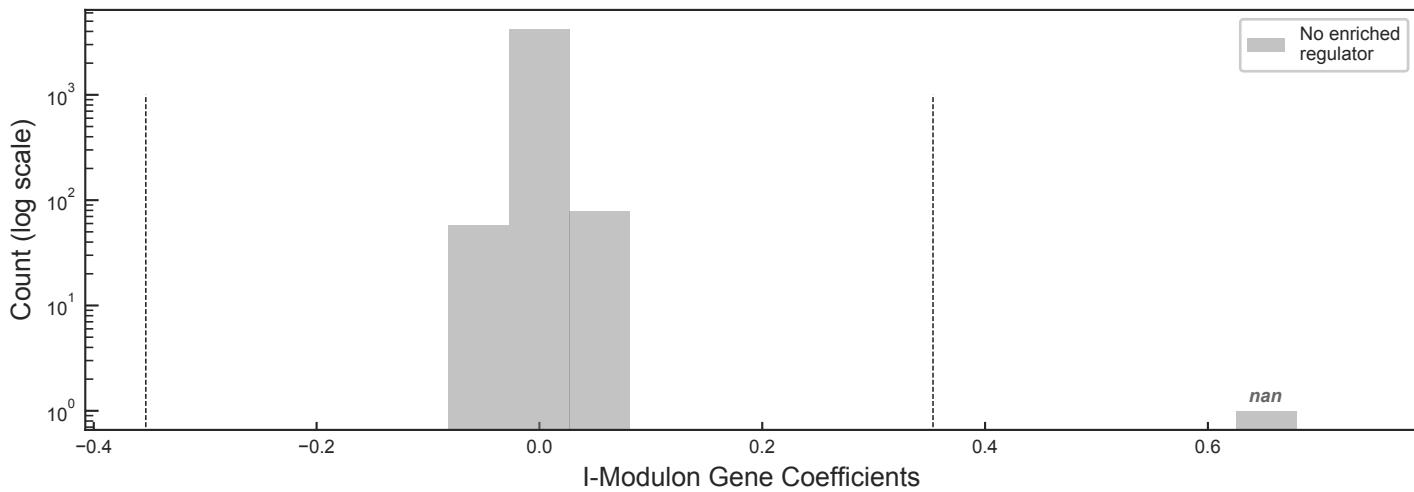
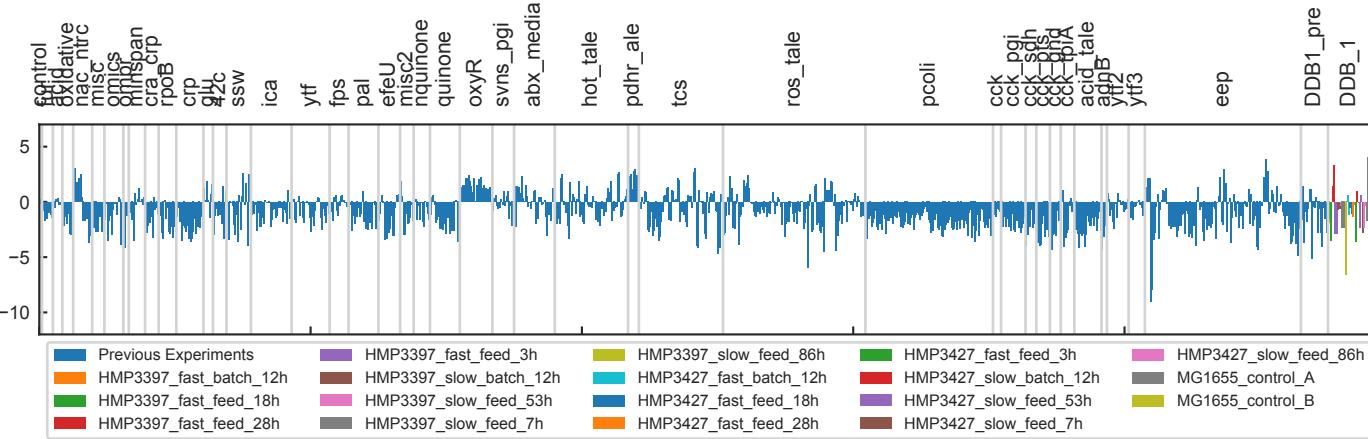
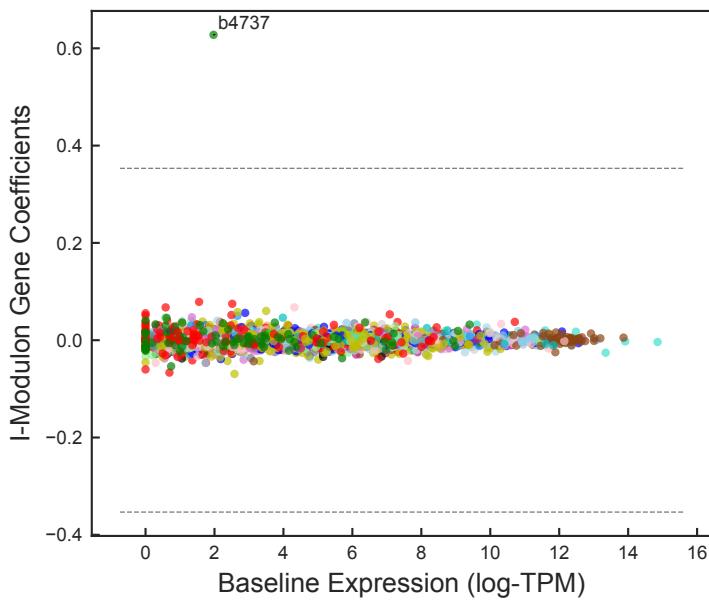
SG – 2 I-Modulon



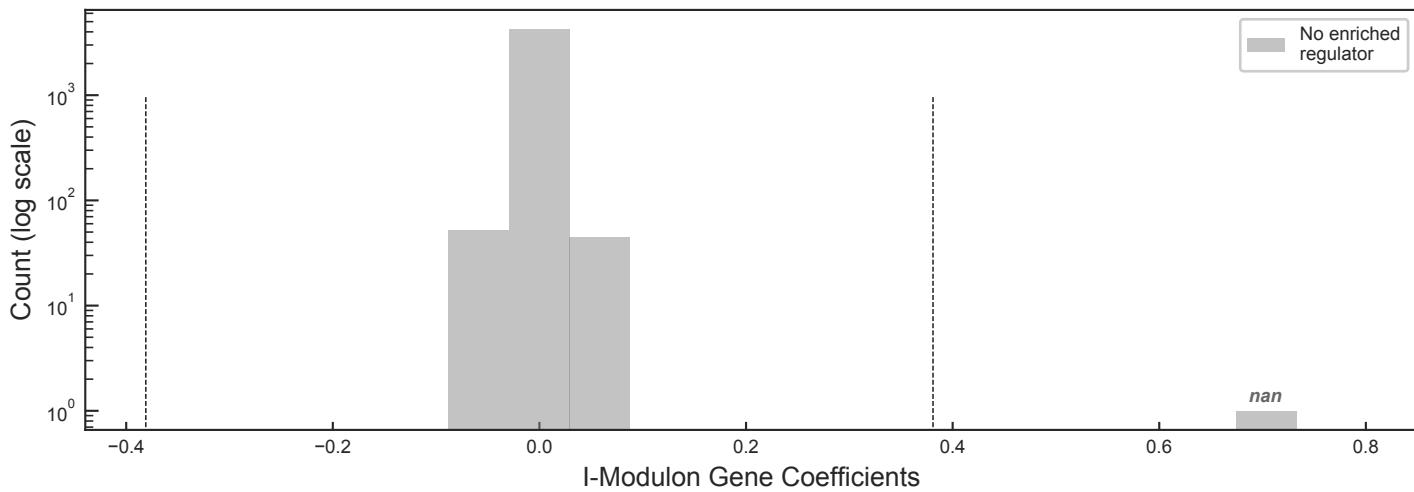
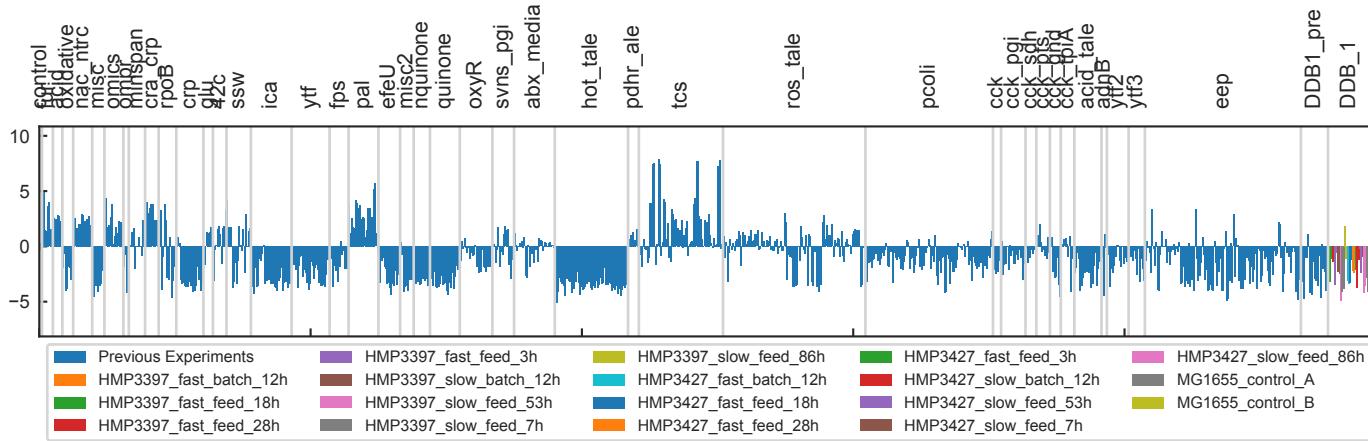
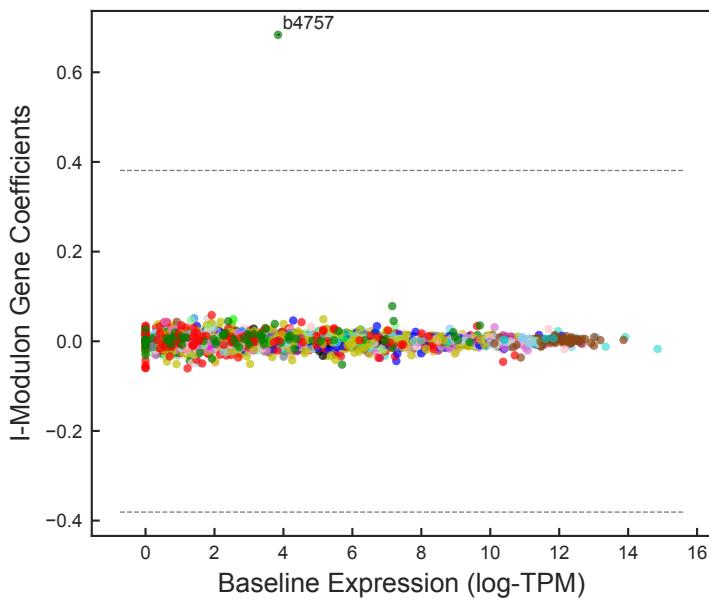
SG – 20 I-Modulon



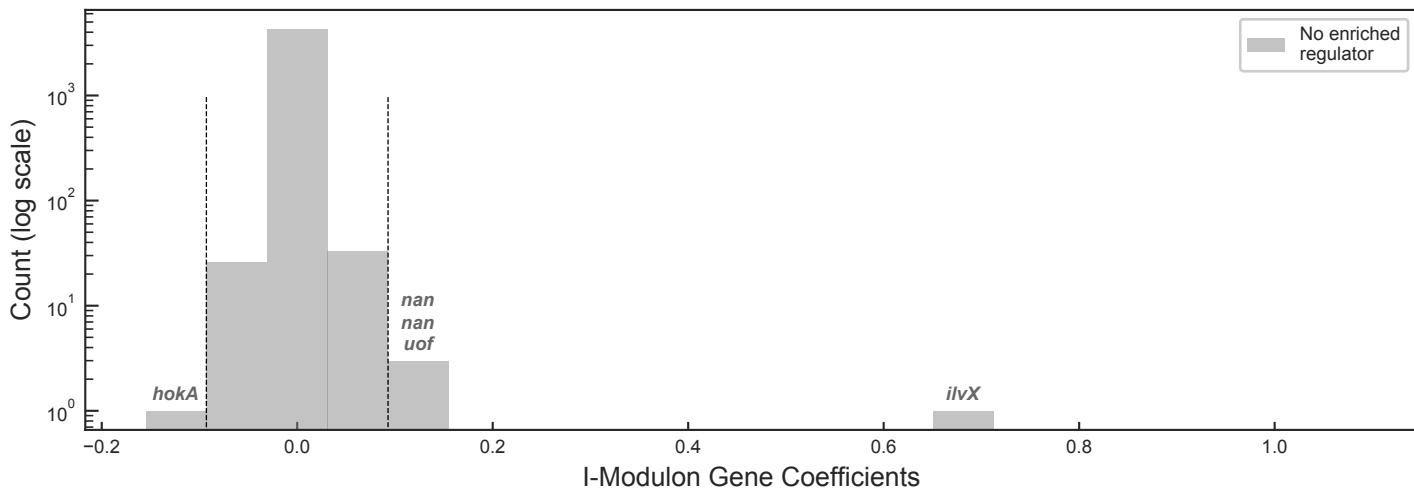
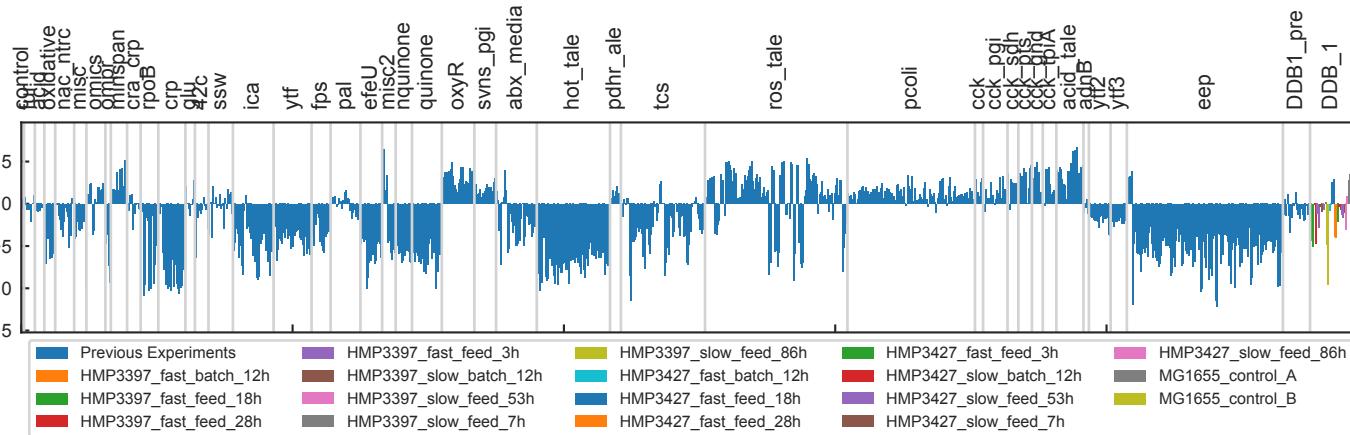
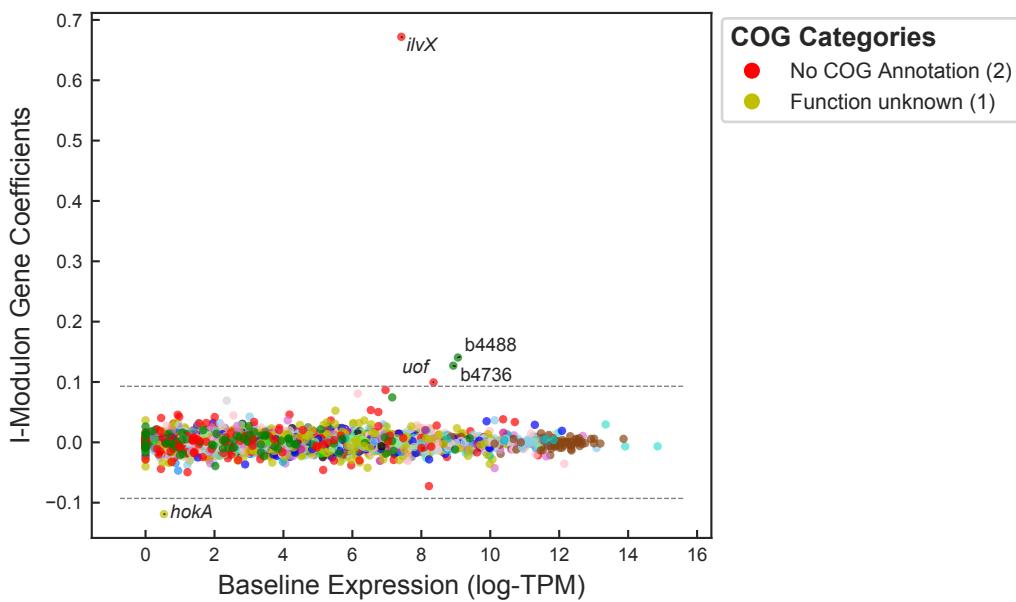
SG – 21 I-Modulon



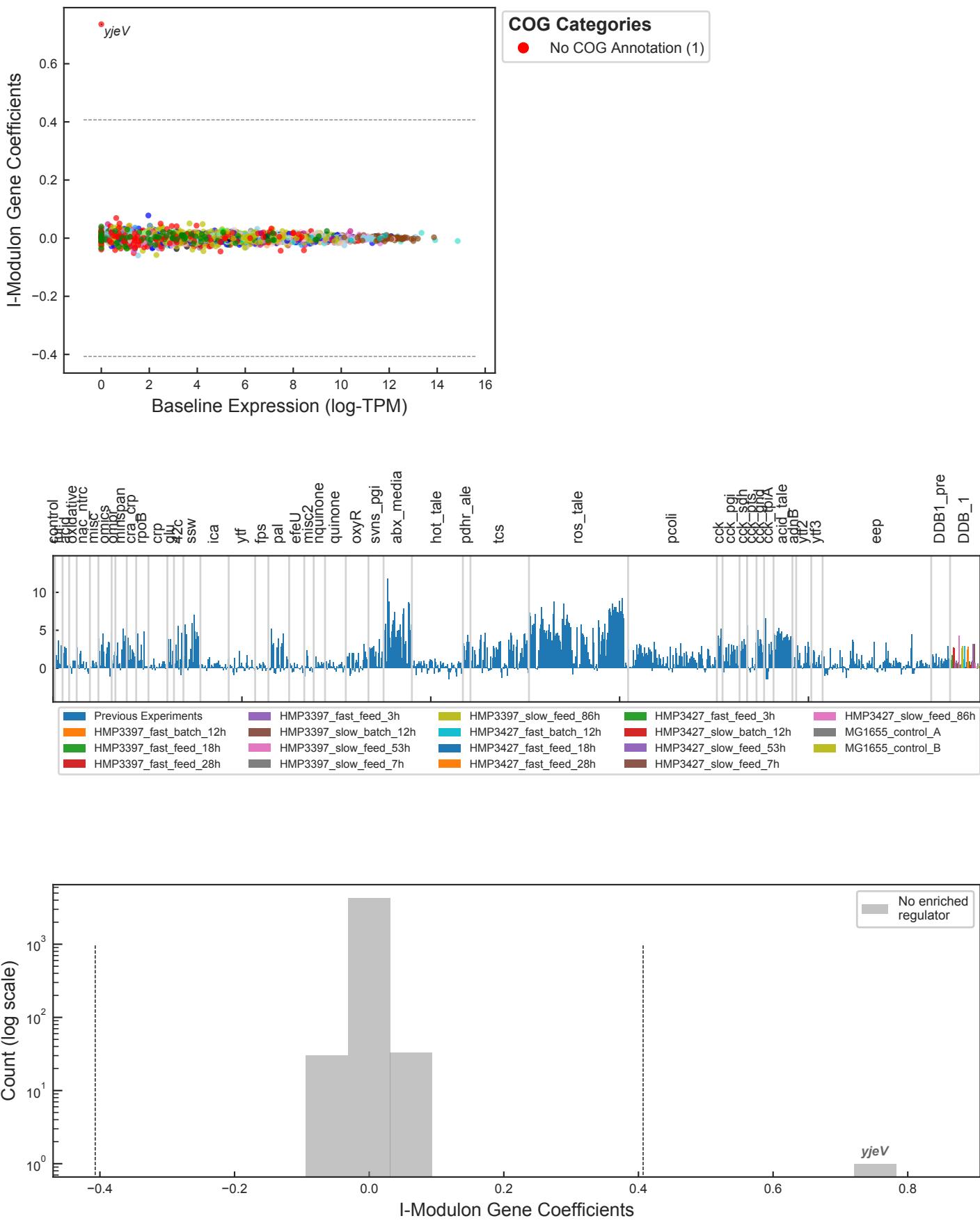
SG – 23 I-Modulon



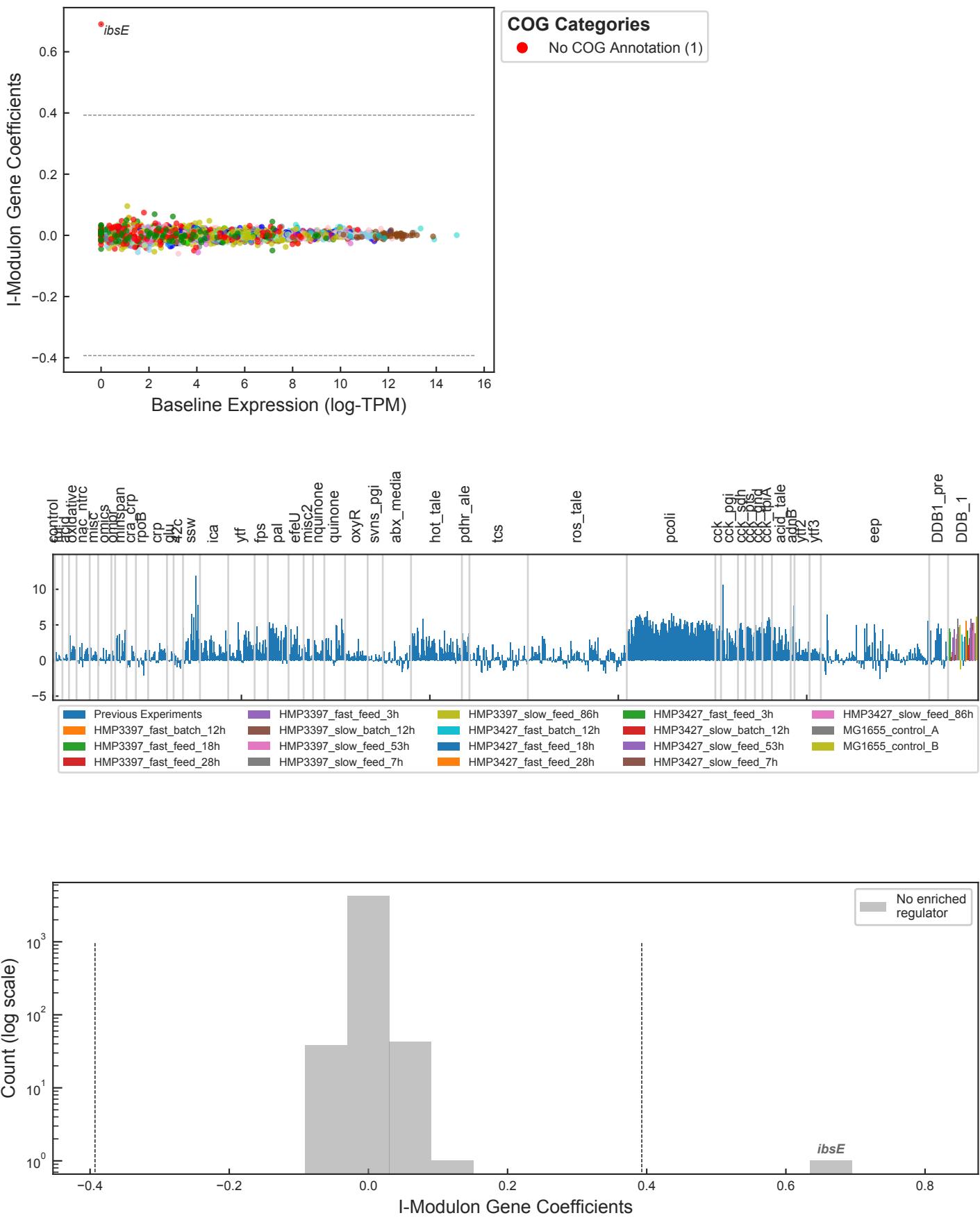
SG – 24 I-Modulon



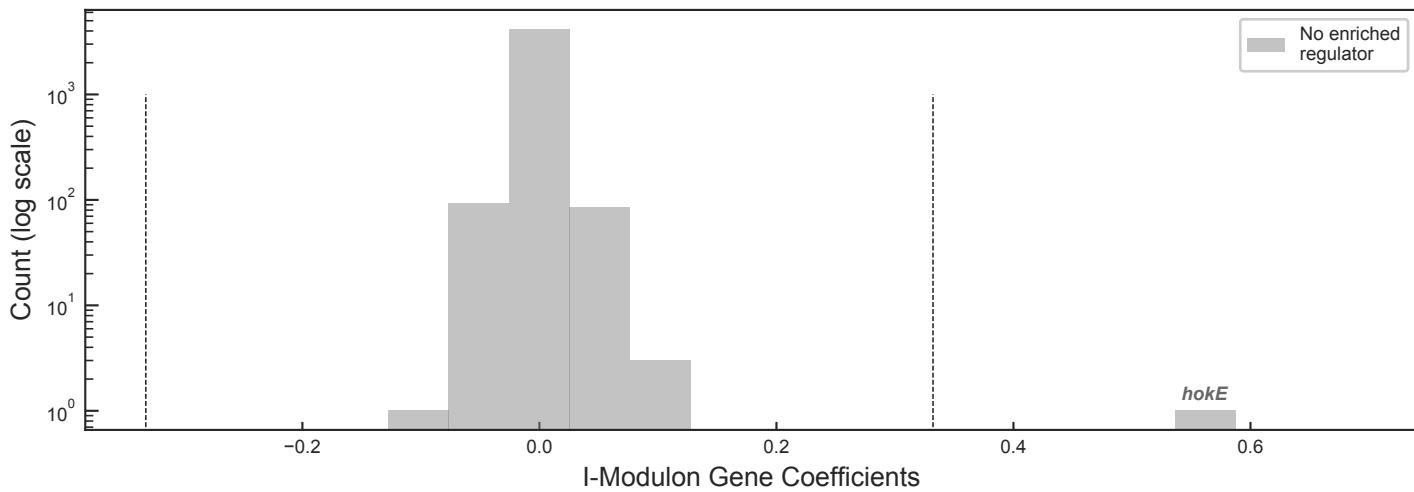
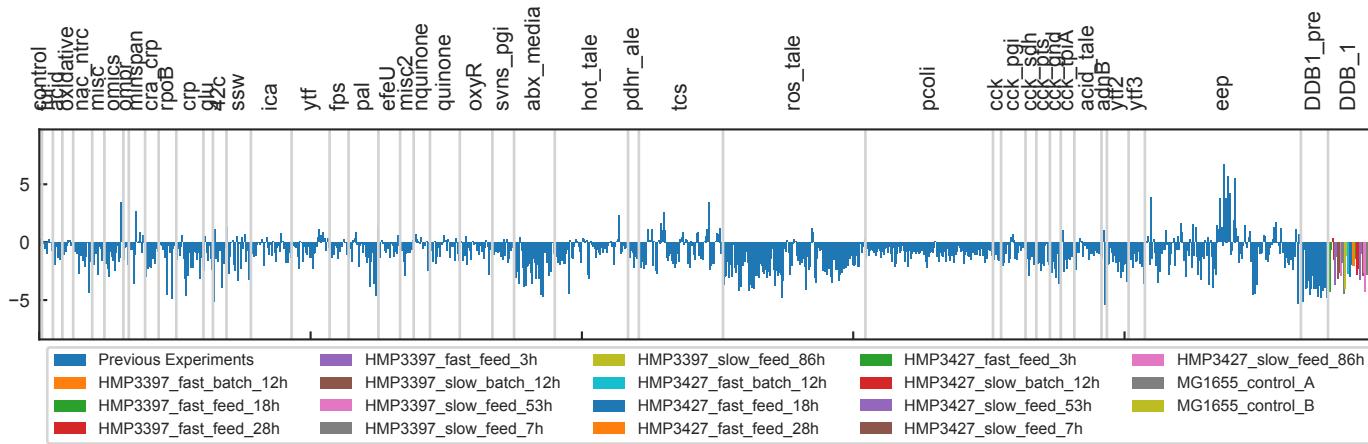
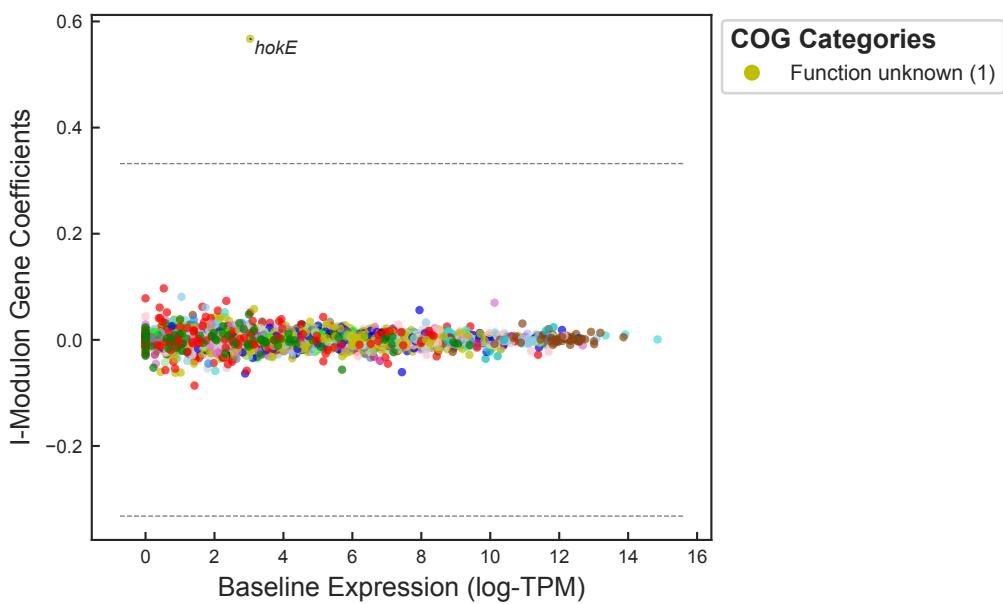
SG – 25 I-Modulon



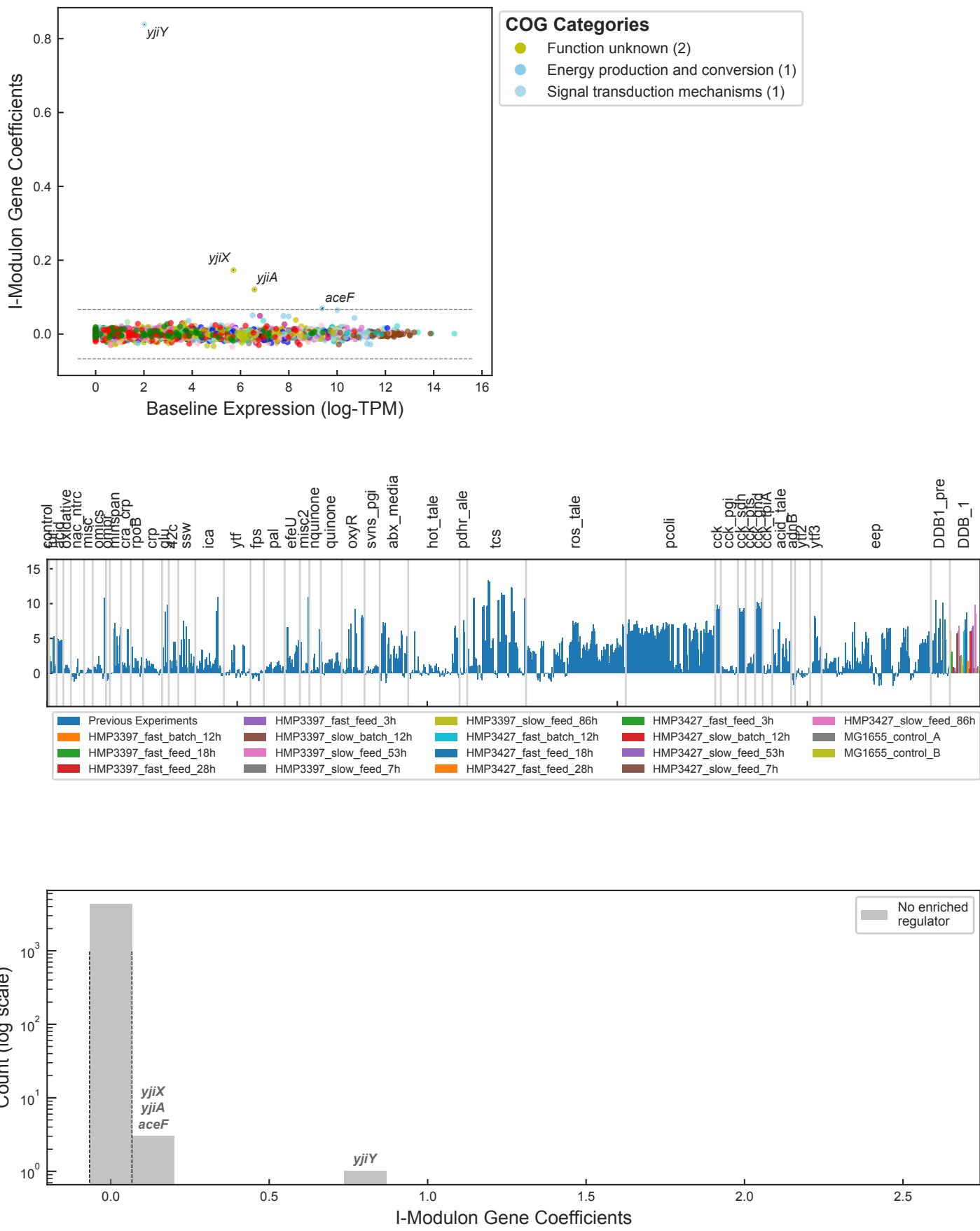
SG – 26 I-Modulon



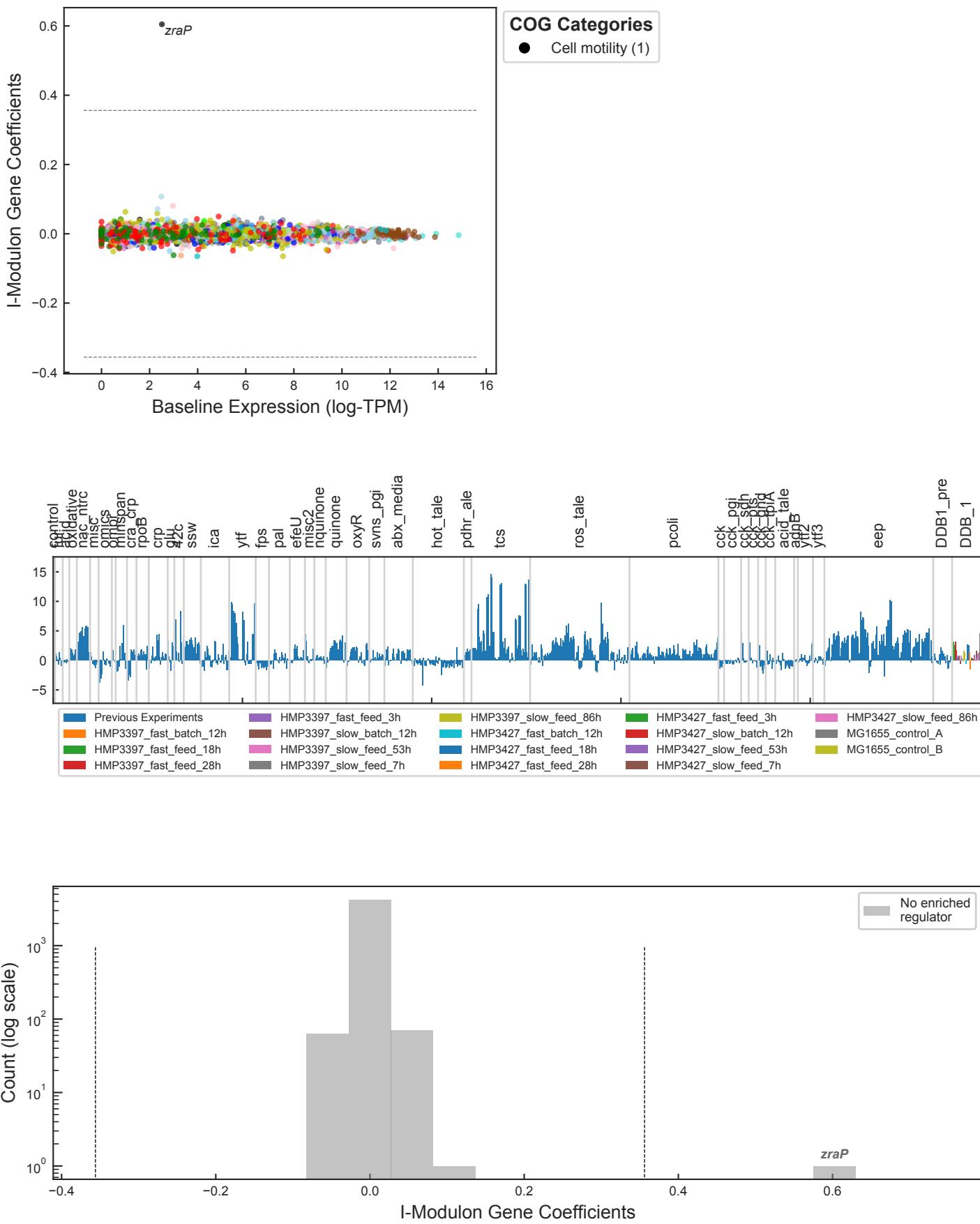
SG – 27 I-Modulon



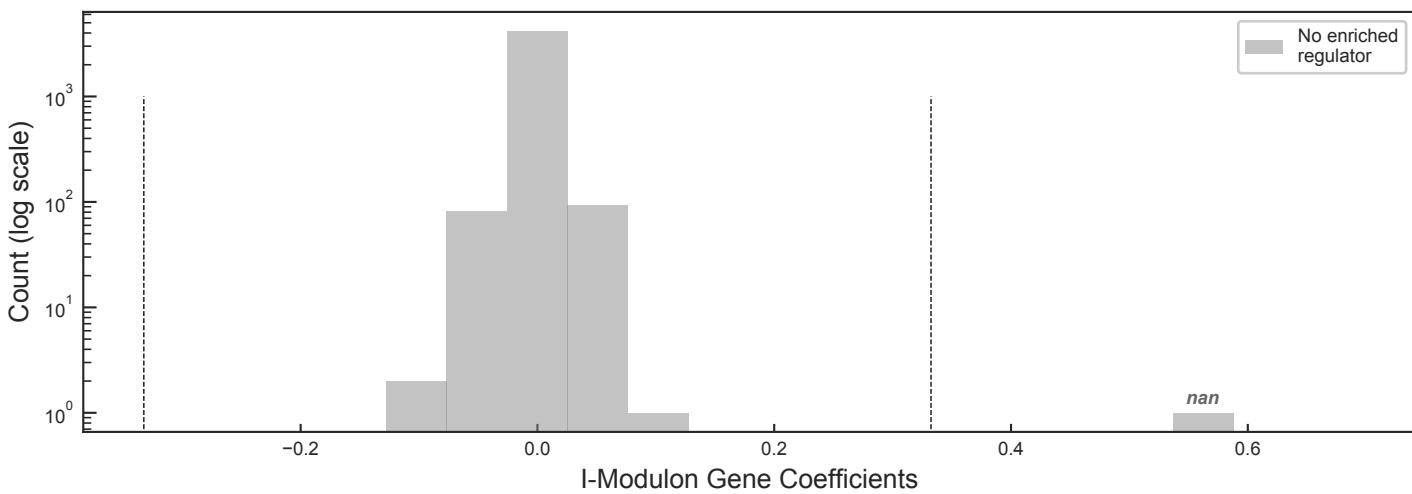
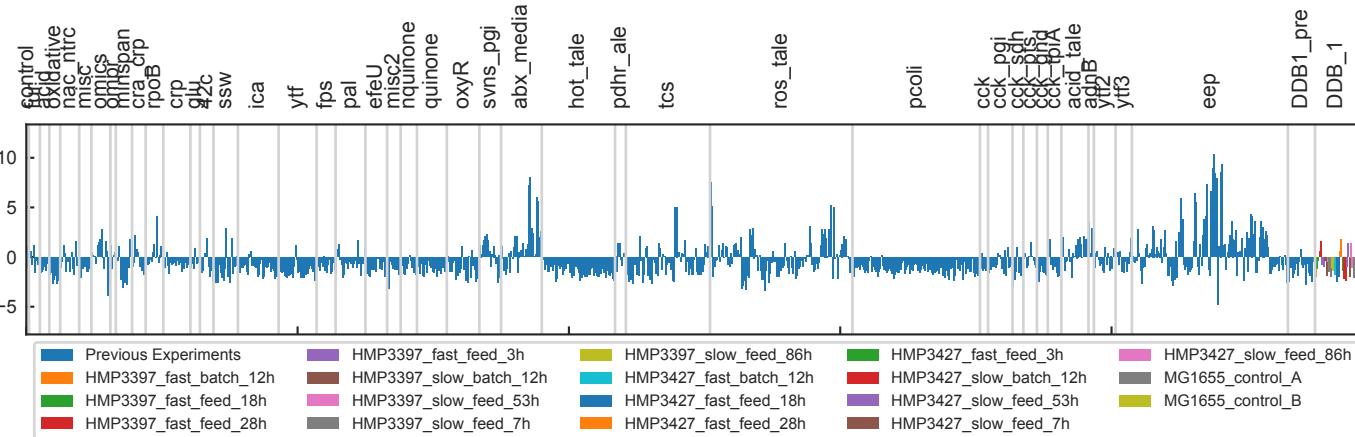
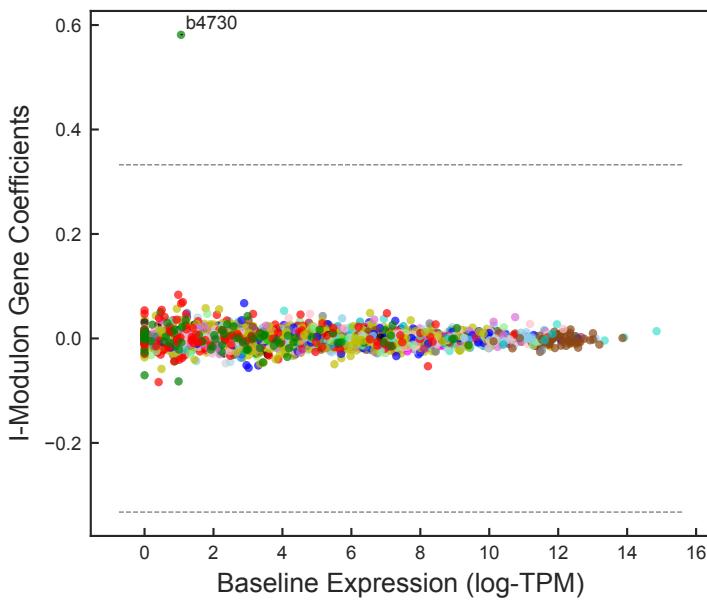
SG – 28 I-Modulon



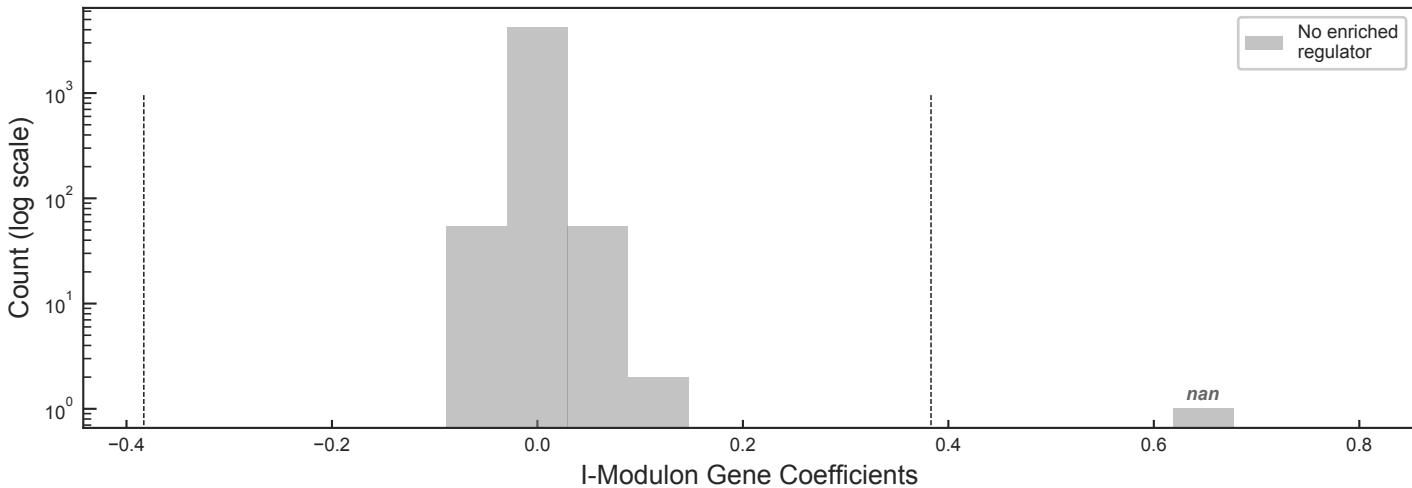
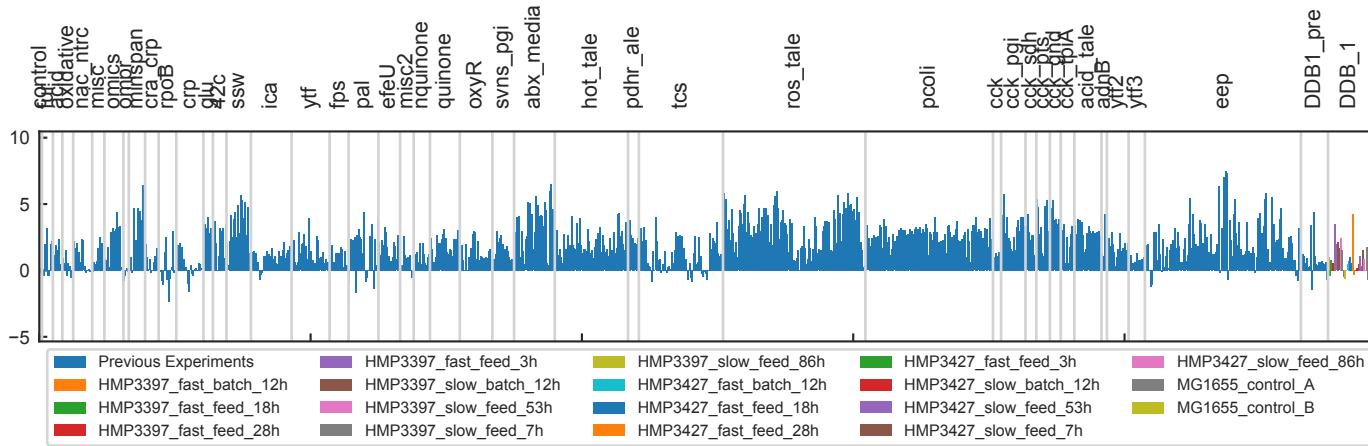
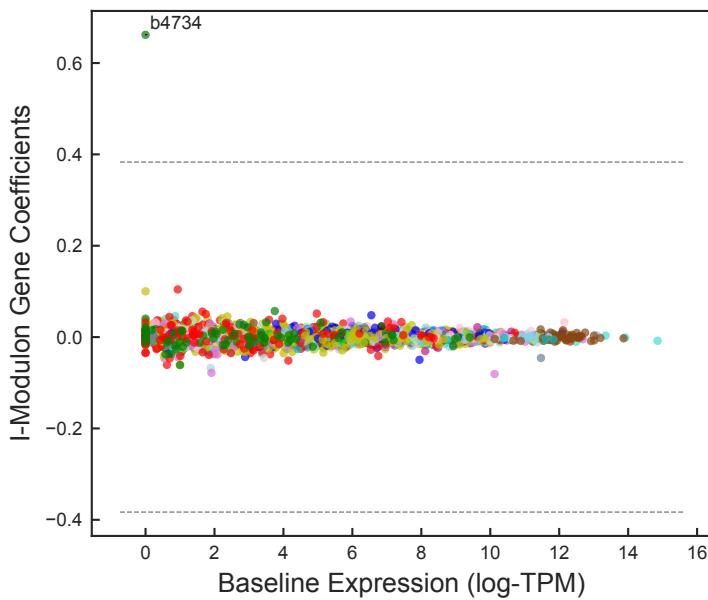
SG – 29 I-Modulon



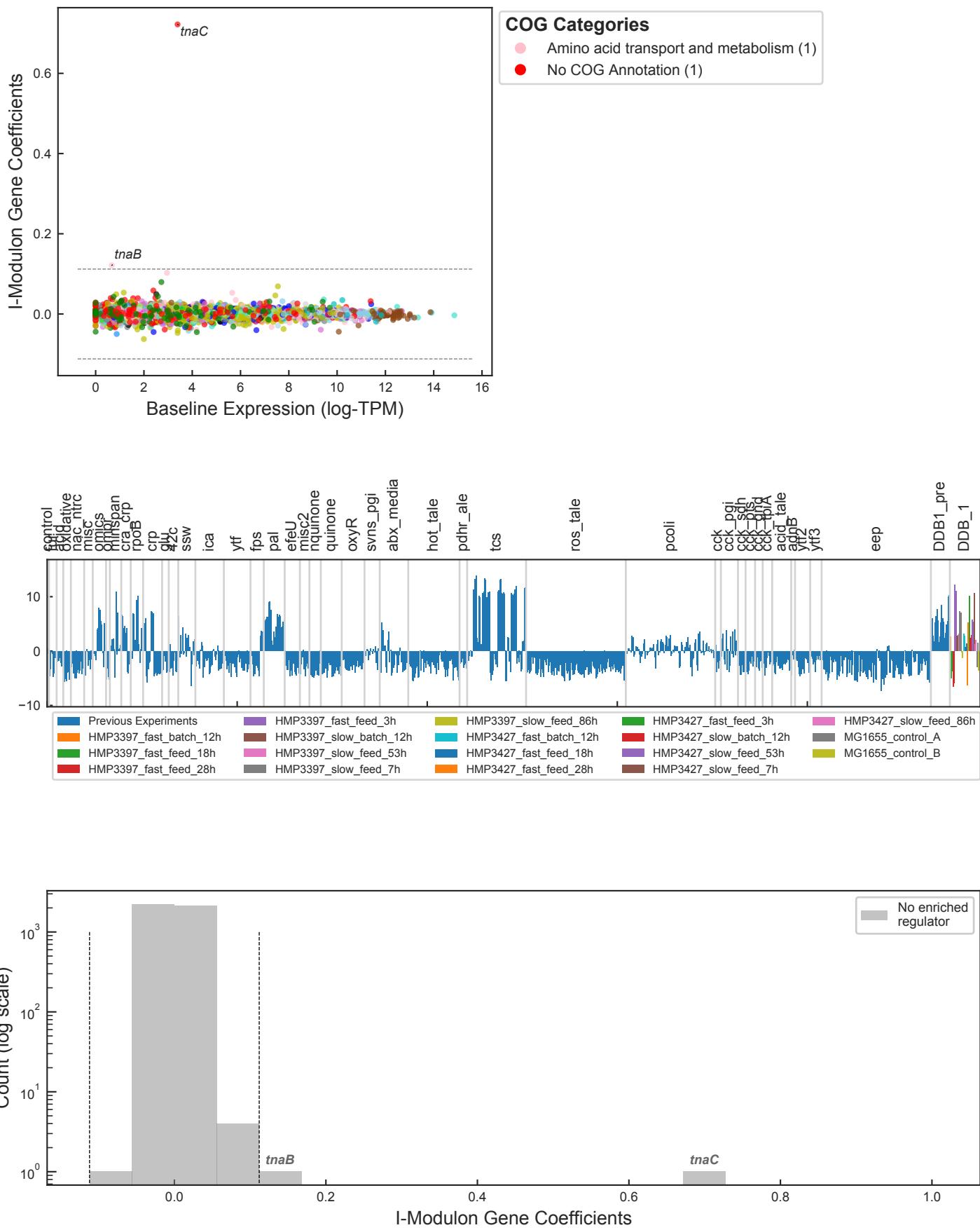
SG – 3 I-Modulon



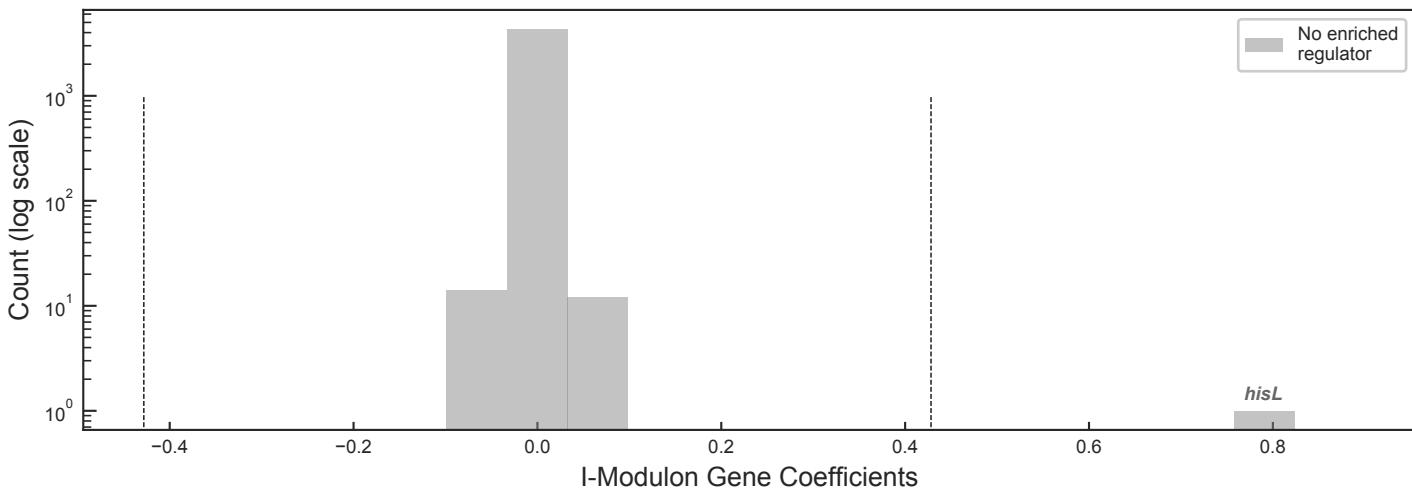
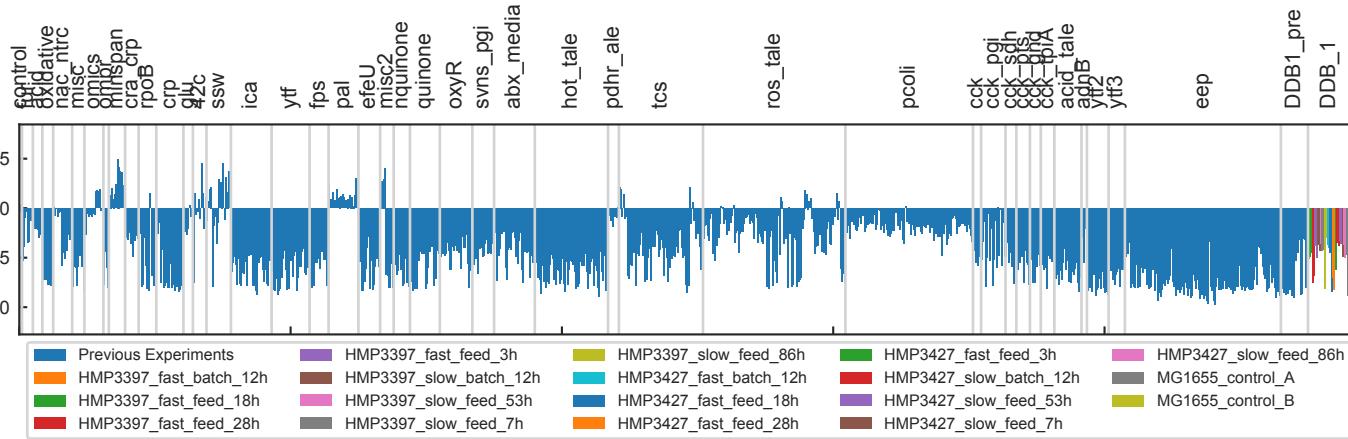
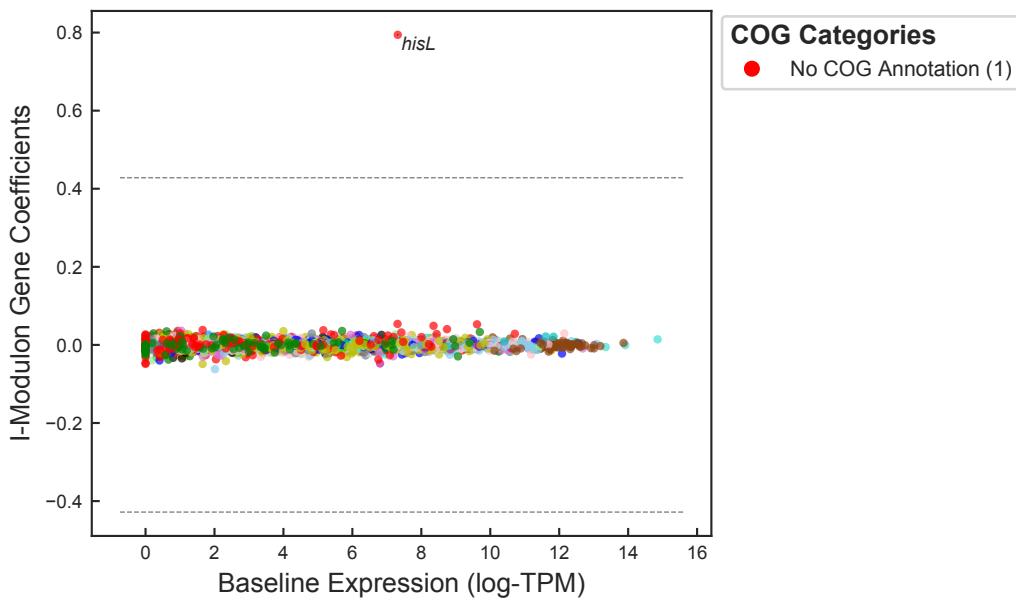
SG – 30 I-Modulon



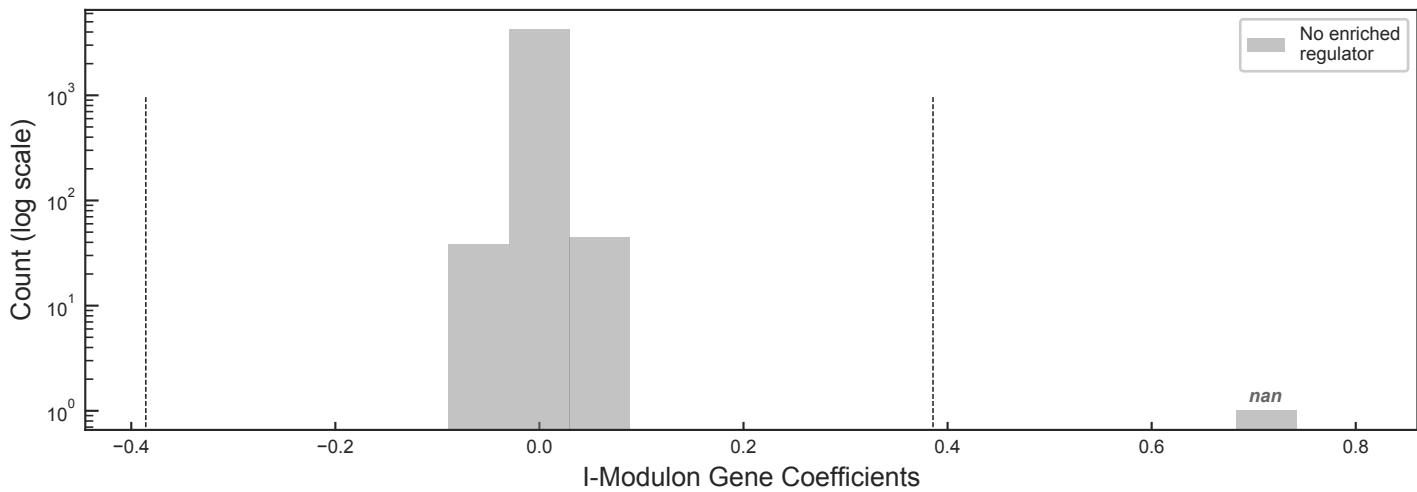
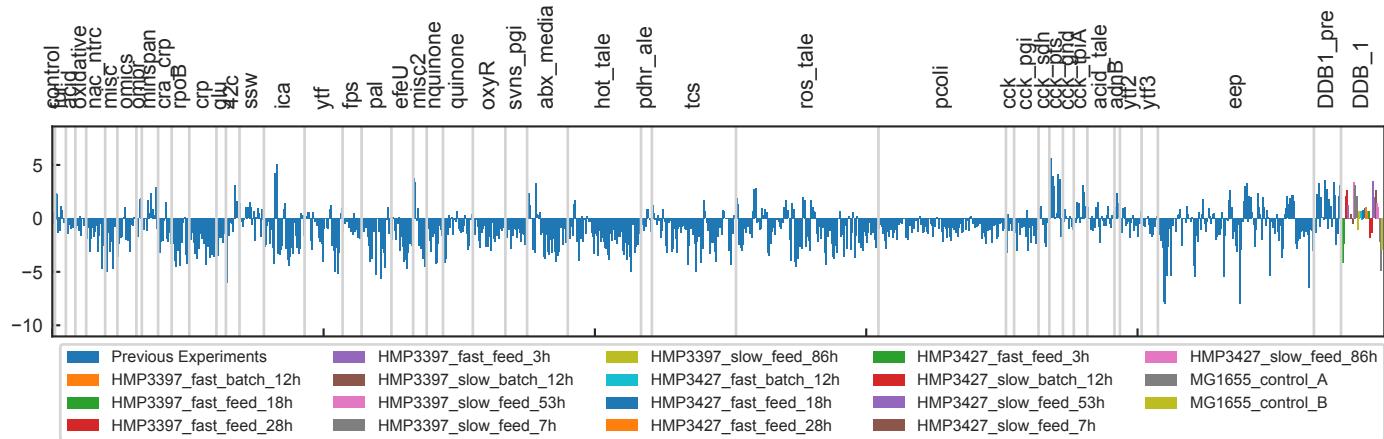
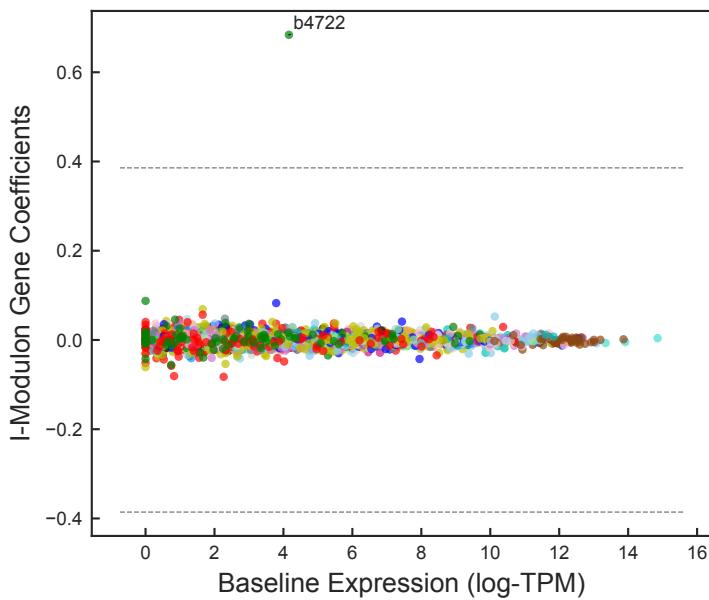
SG – 31 I-Modulon



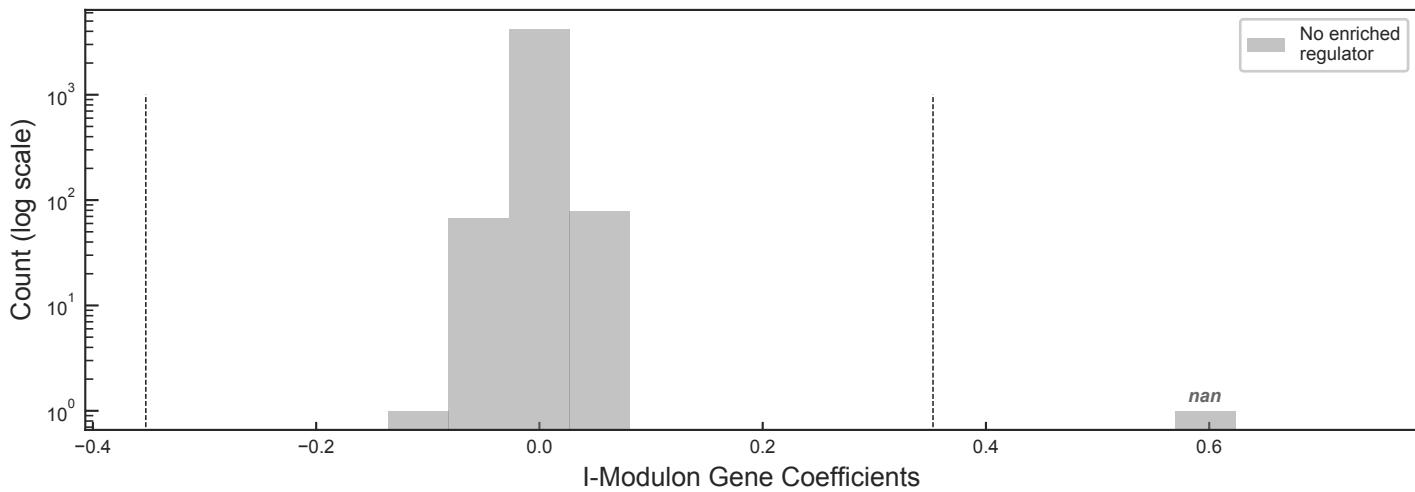
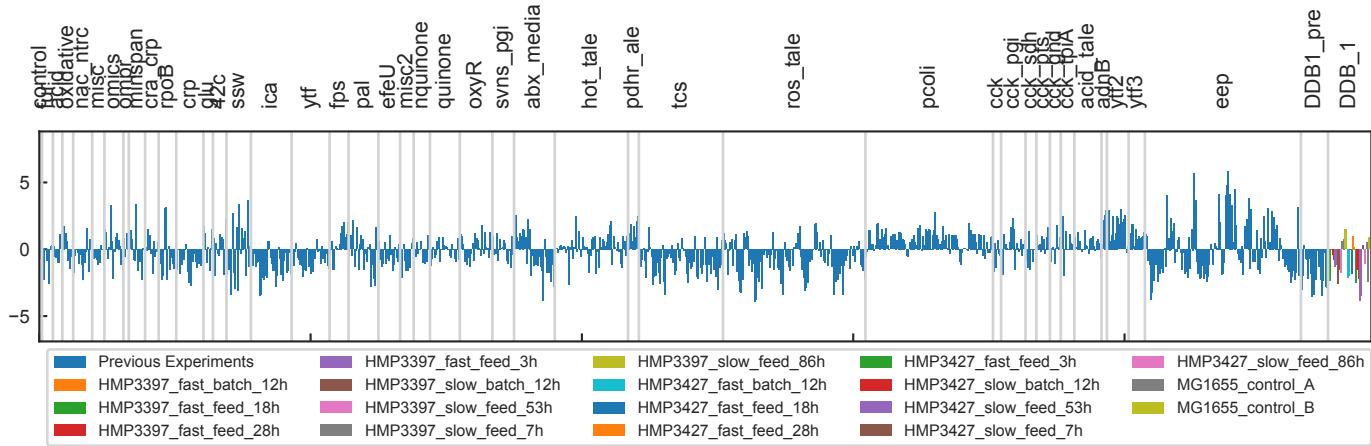
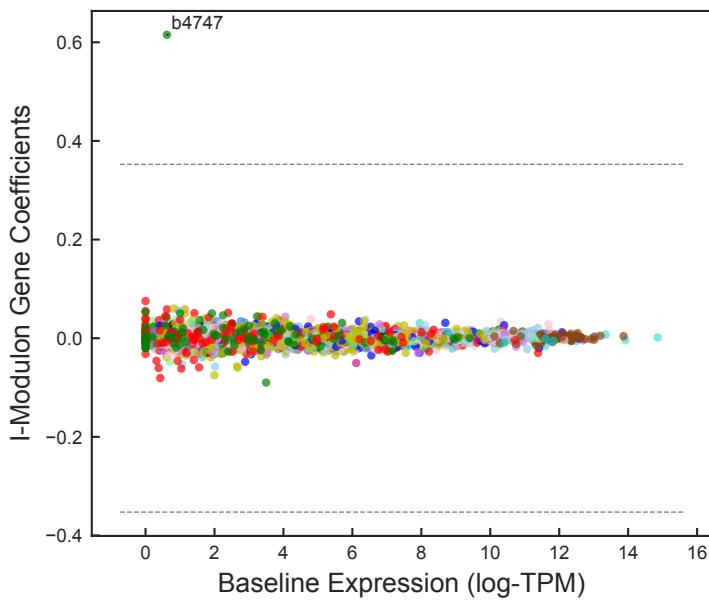
SG – 32 I-Modulon



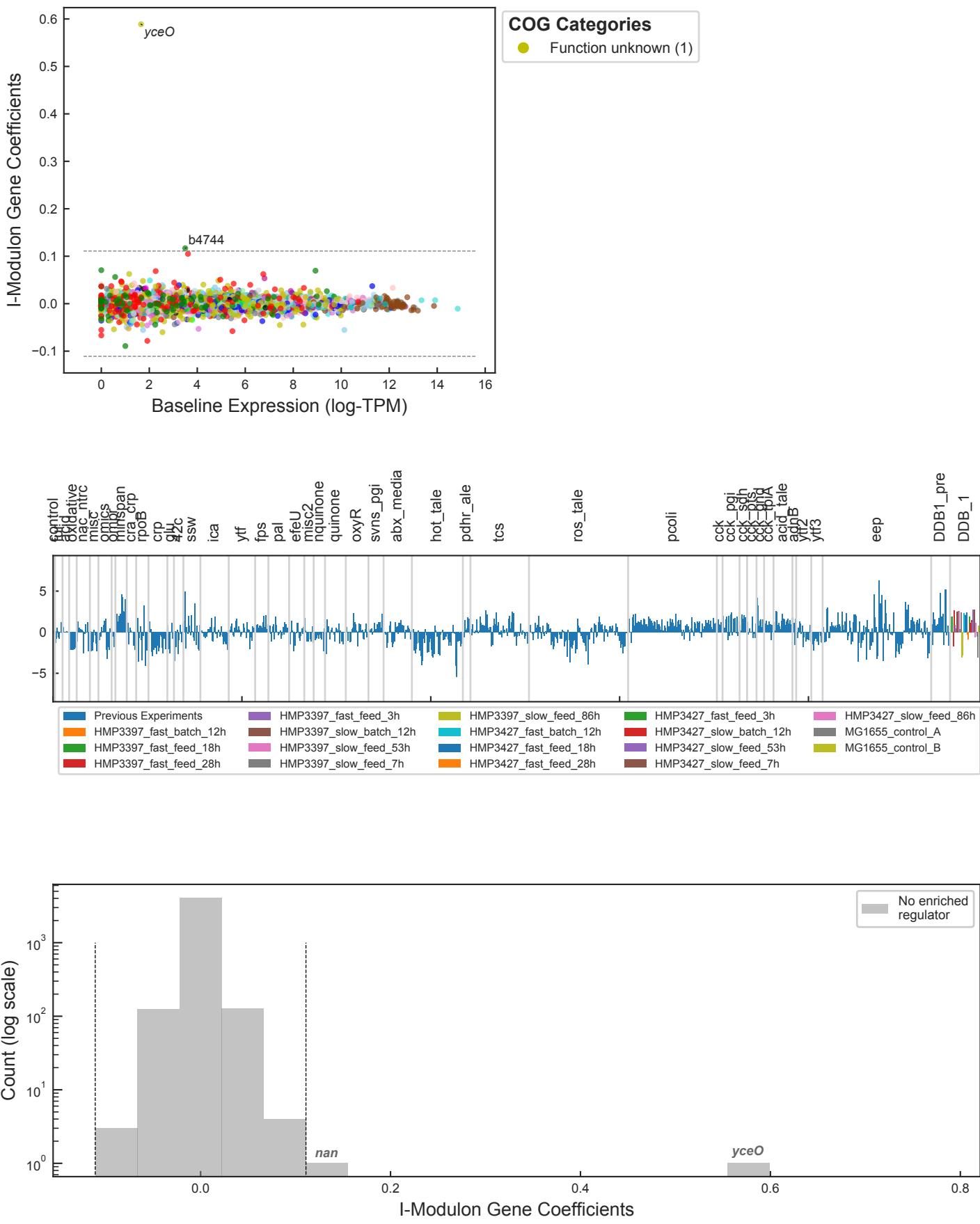
SG – 33 I-Modulon



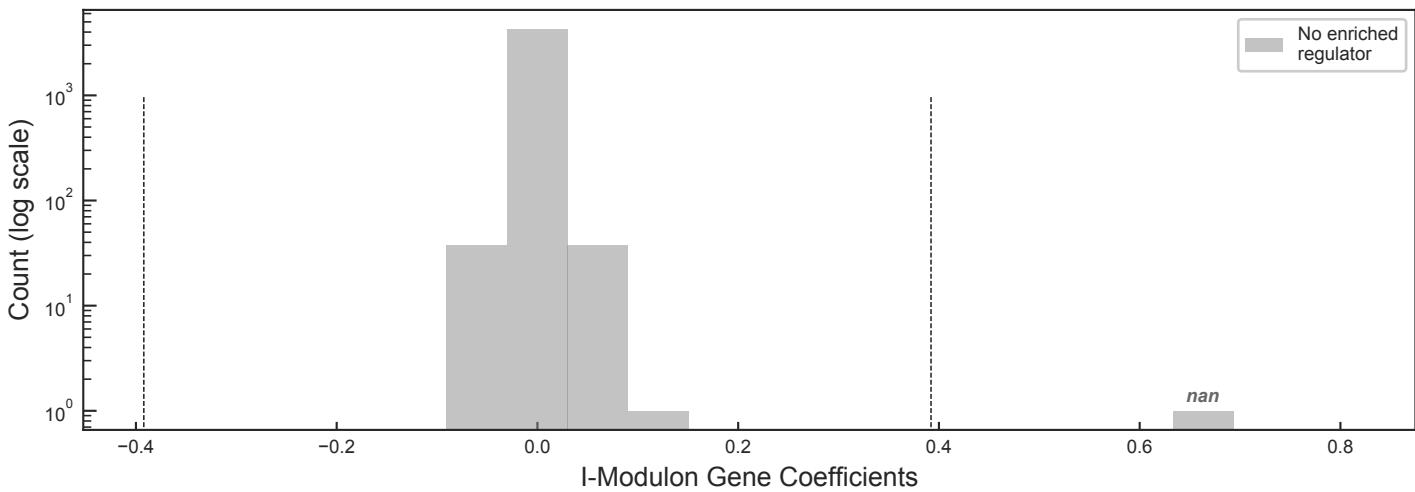
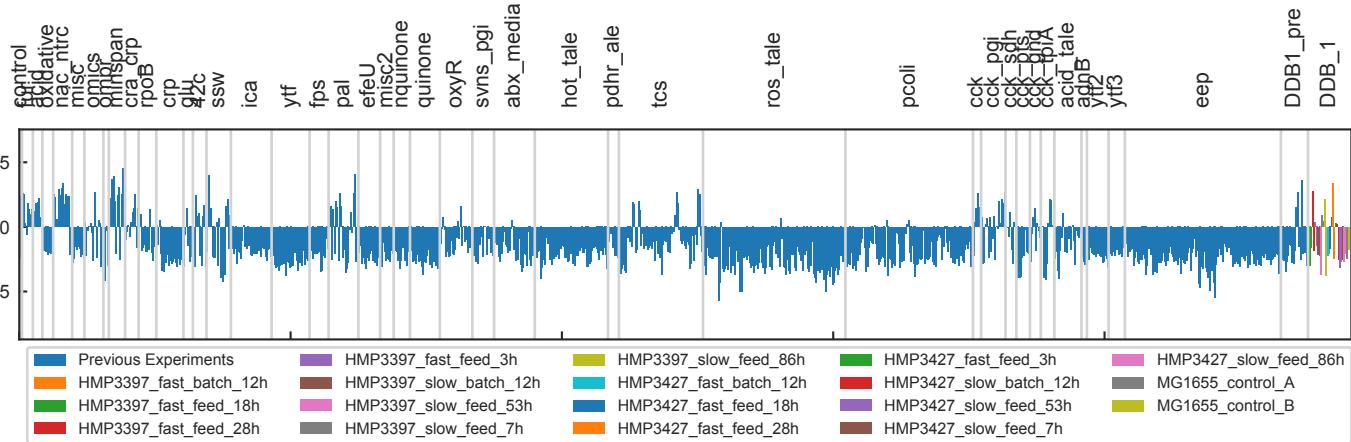
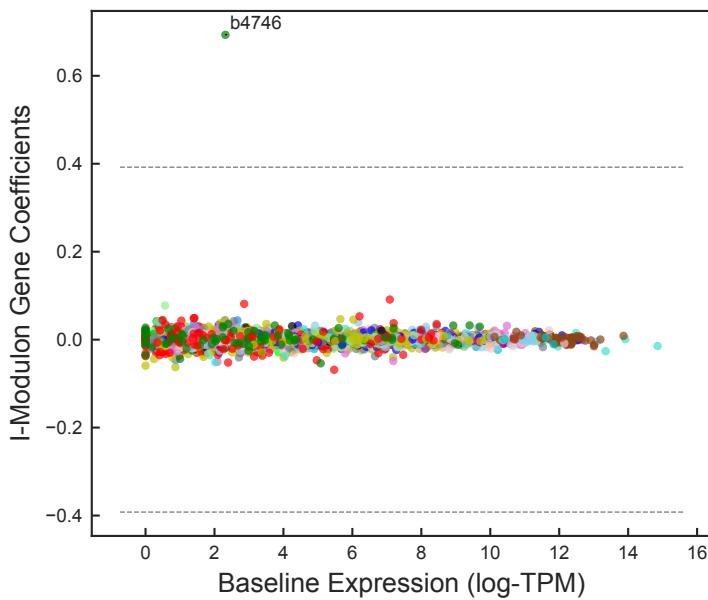
SG – 34 I-Modulon



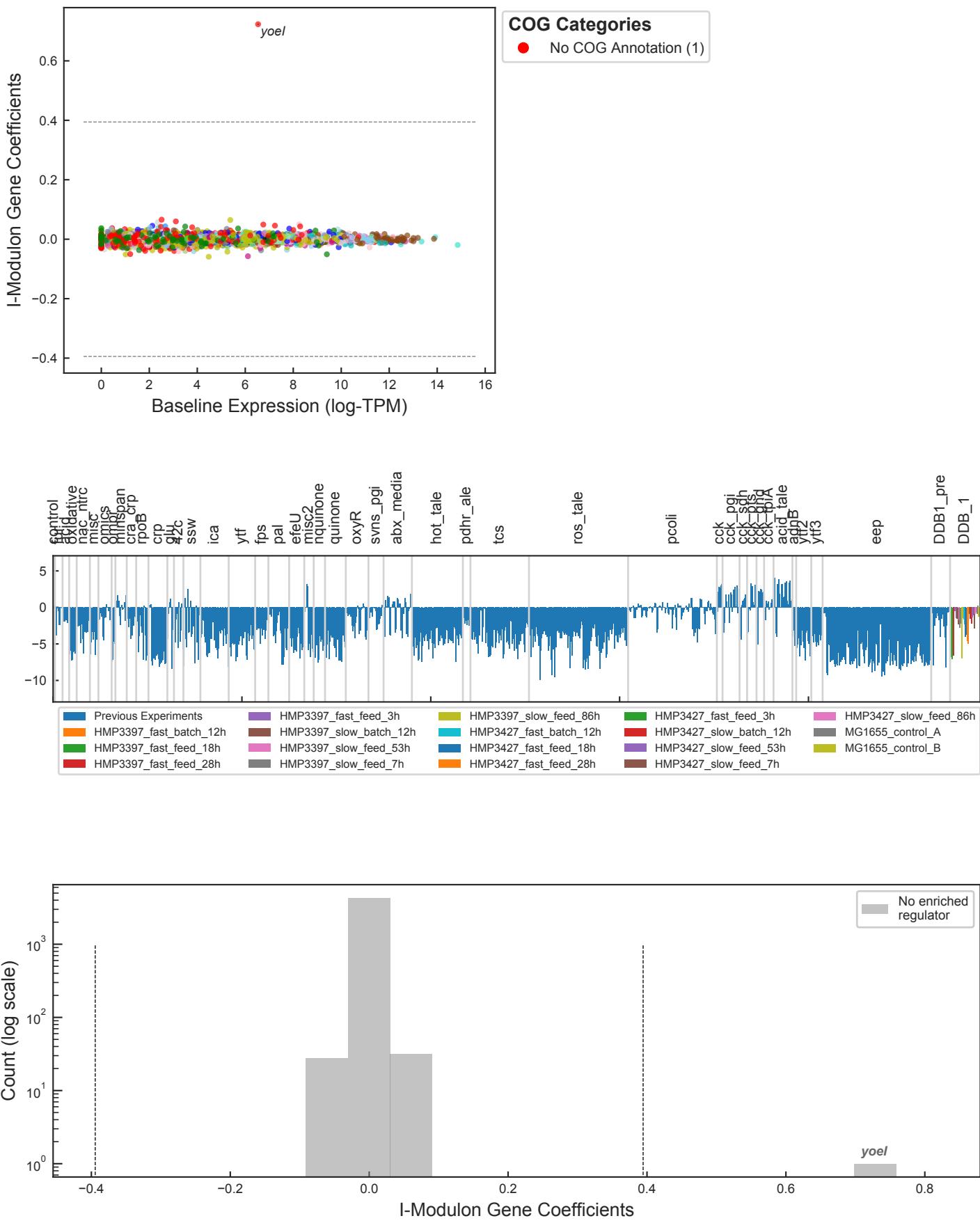
SG – 35 I-Modulon



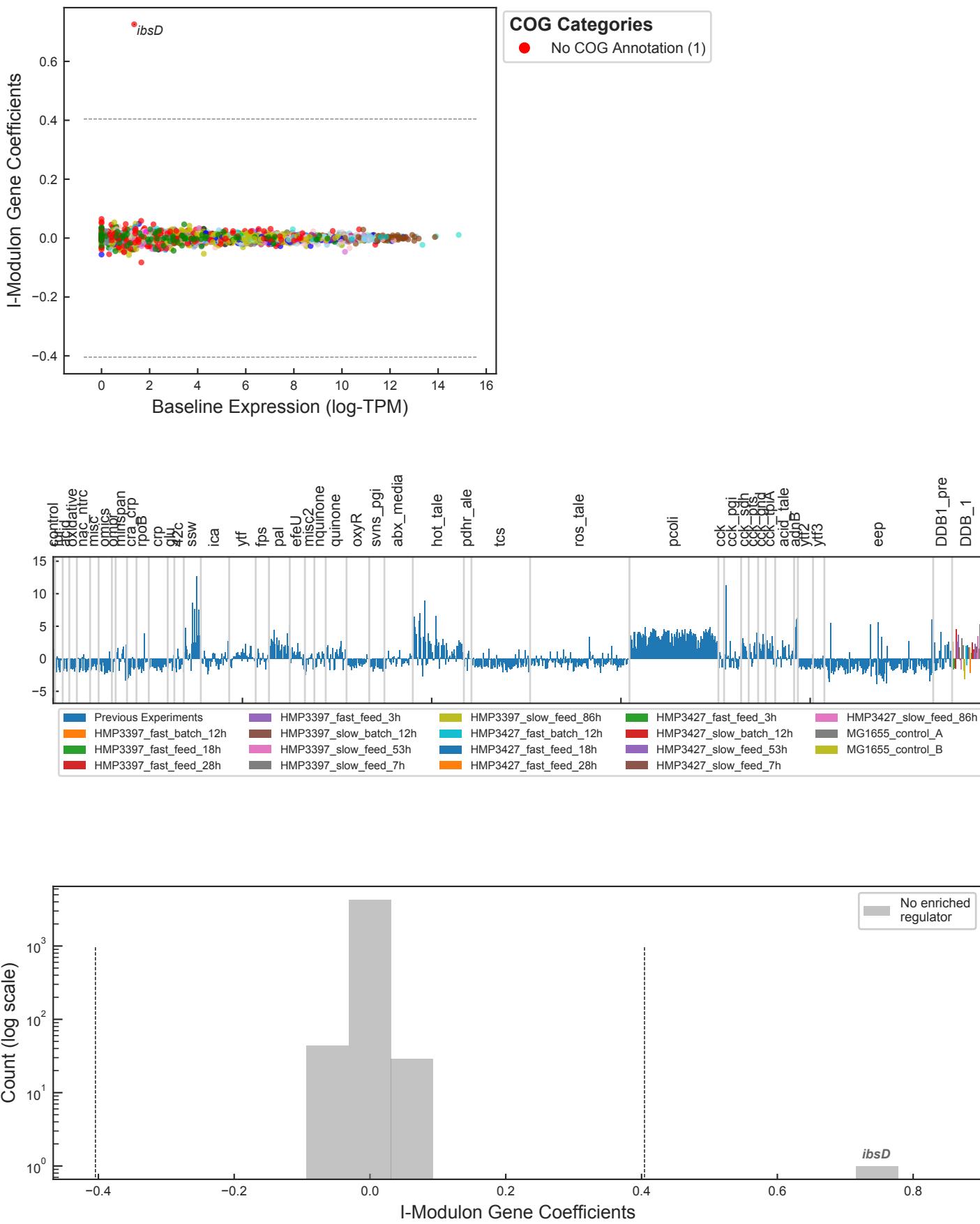
SG – 36 I-Modulon



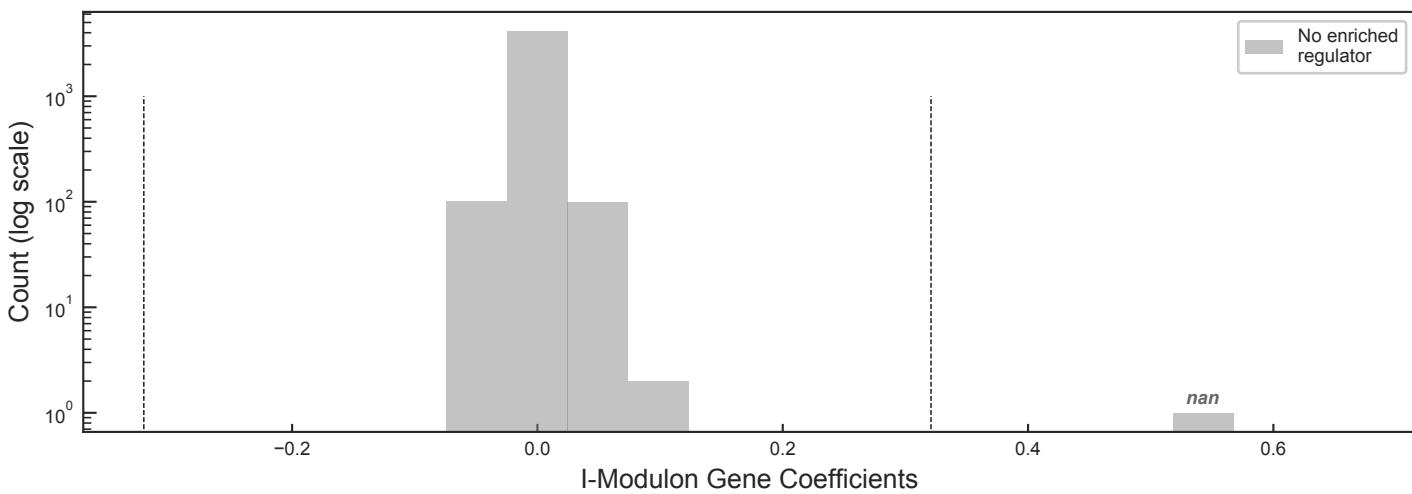
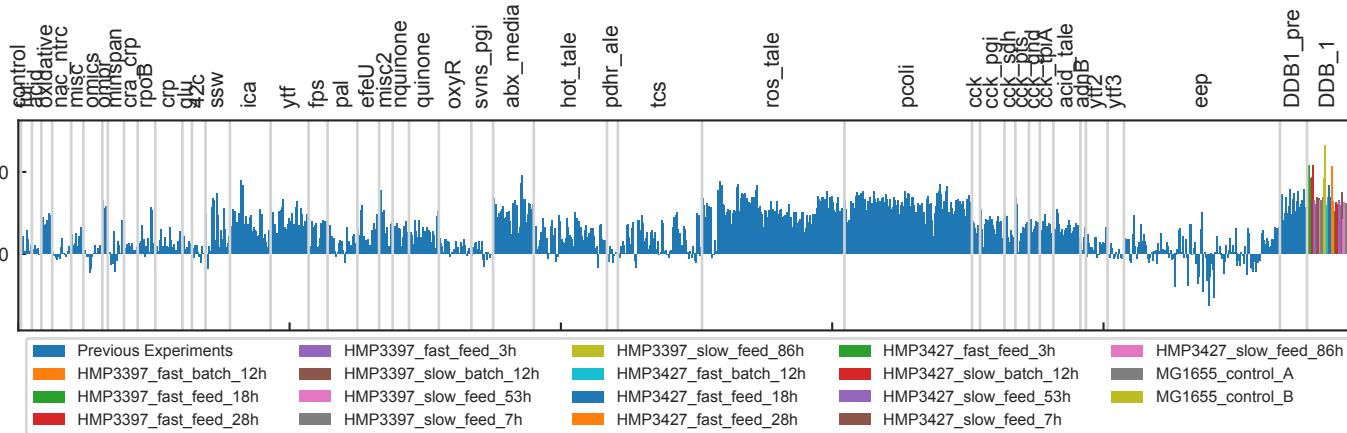
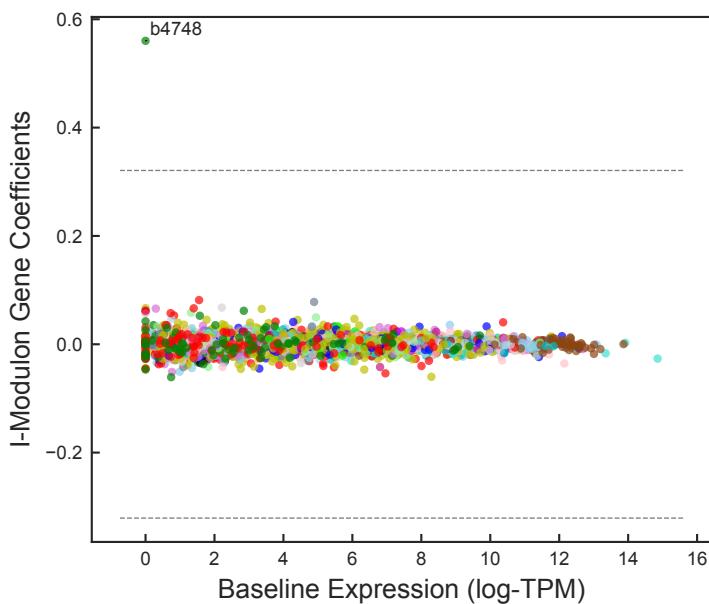
SG – 37 I-Modulon



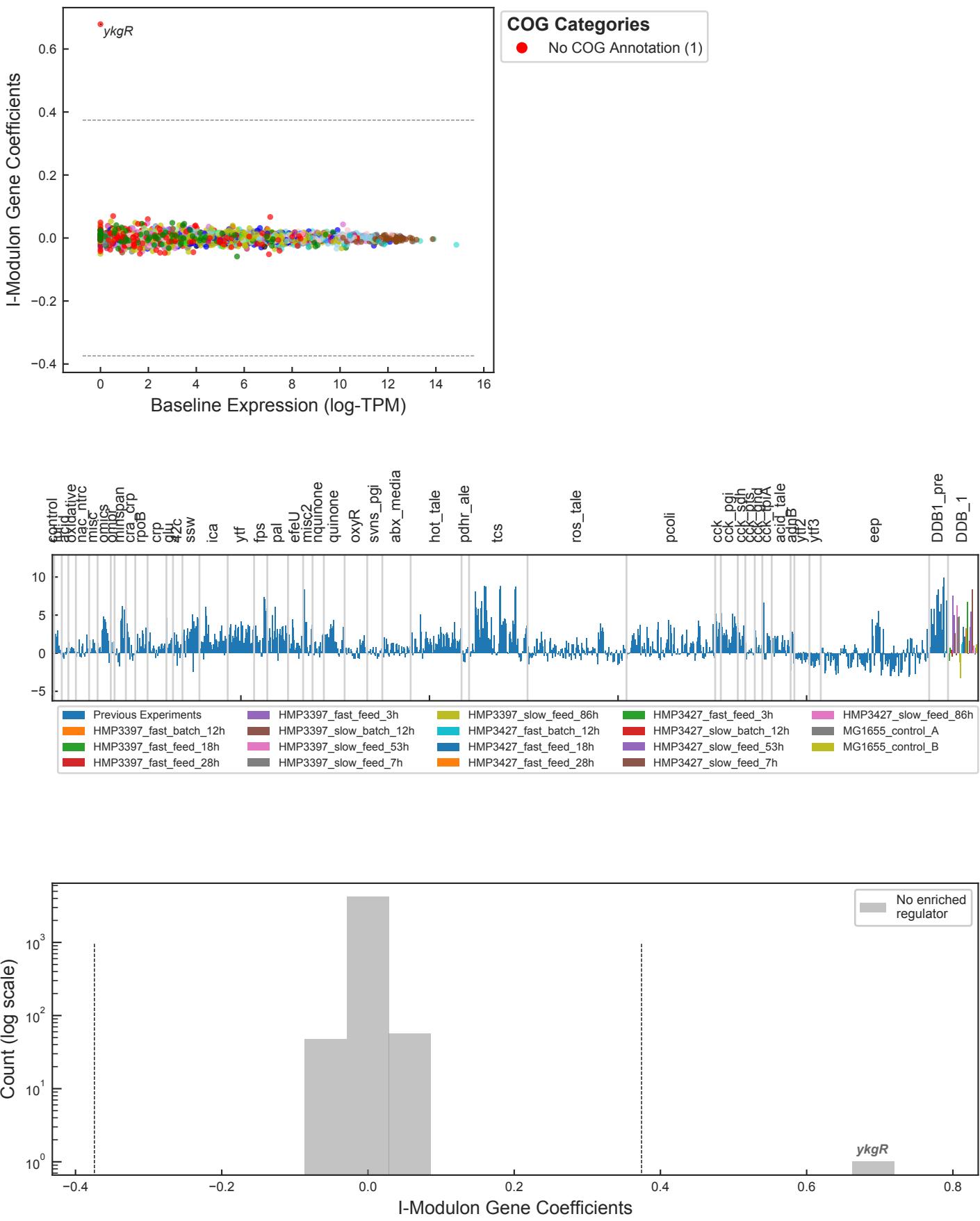
SG – 38 I-Modulon



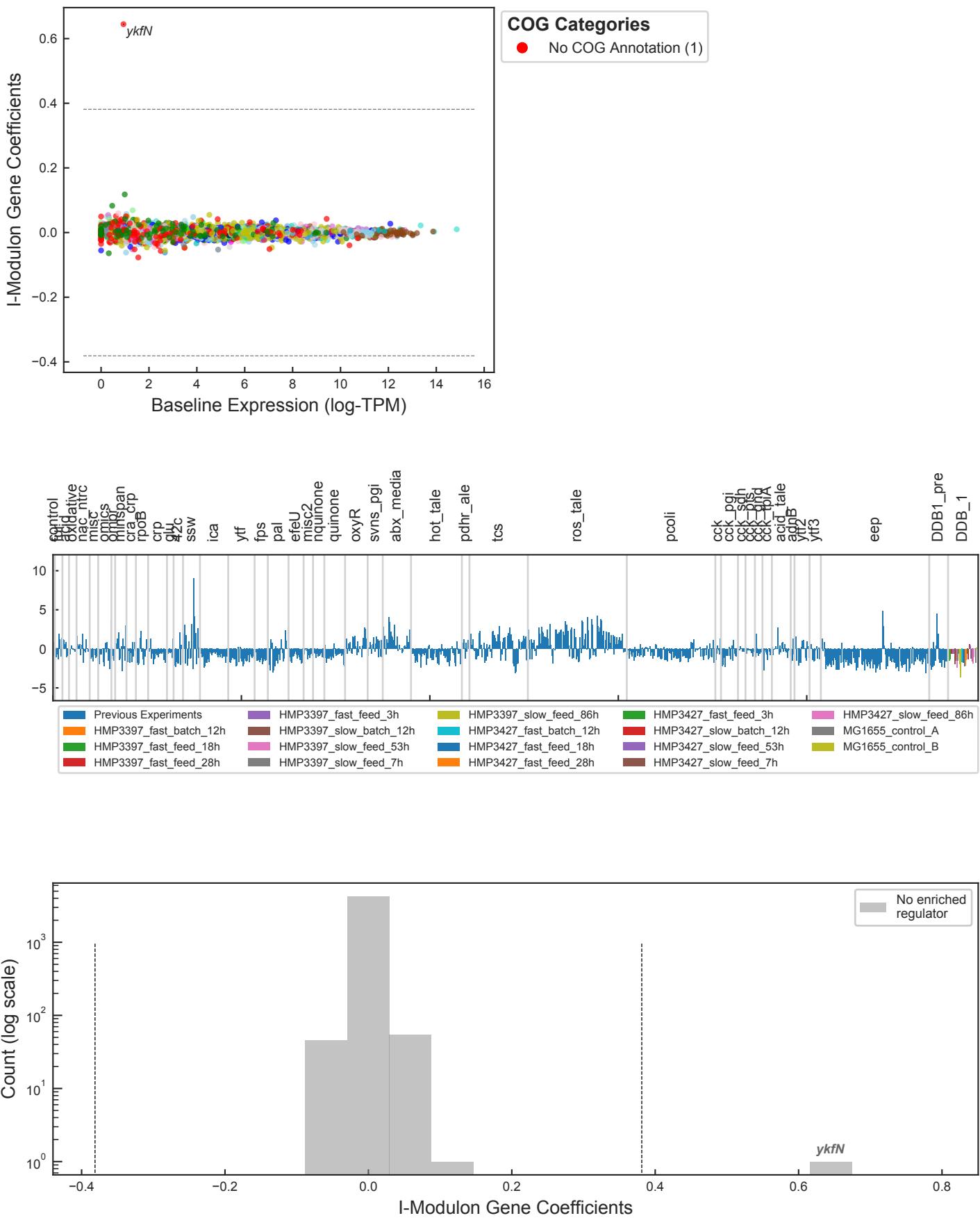
SG – 39 I-Modulon



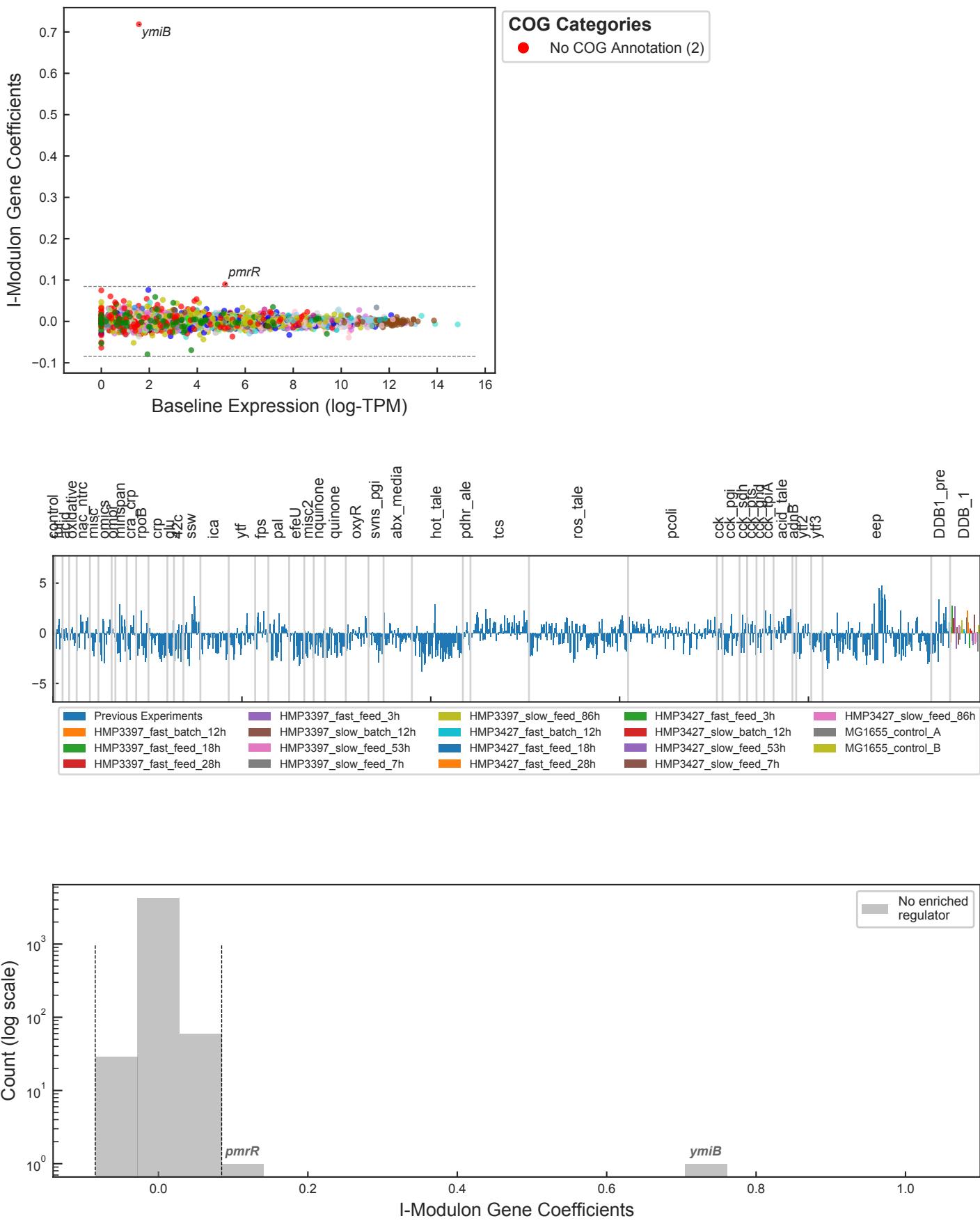
SG – 4 I-Modulon



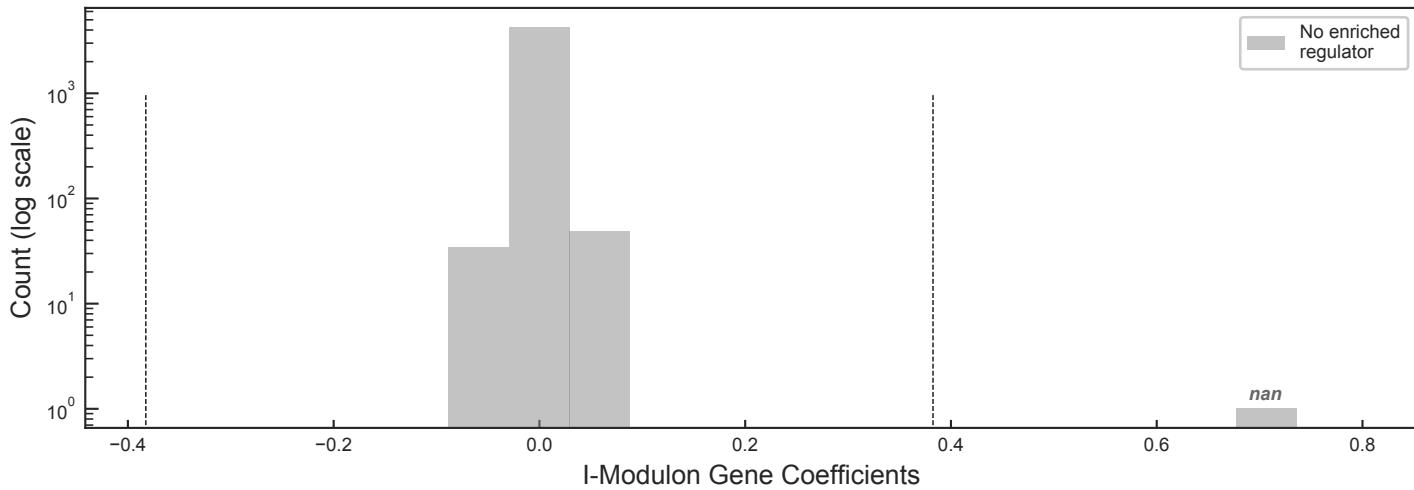
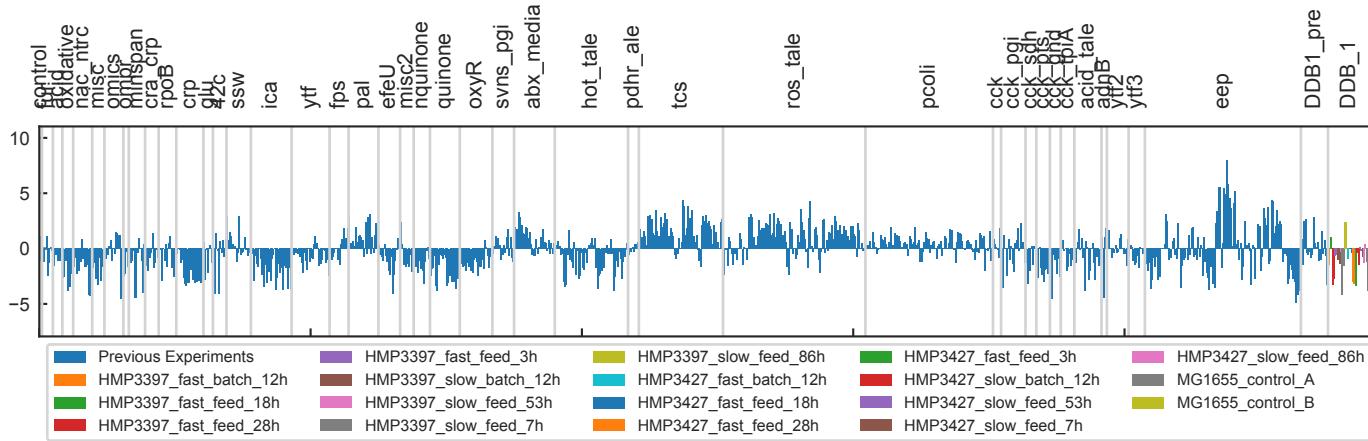
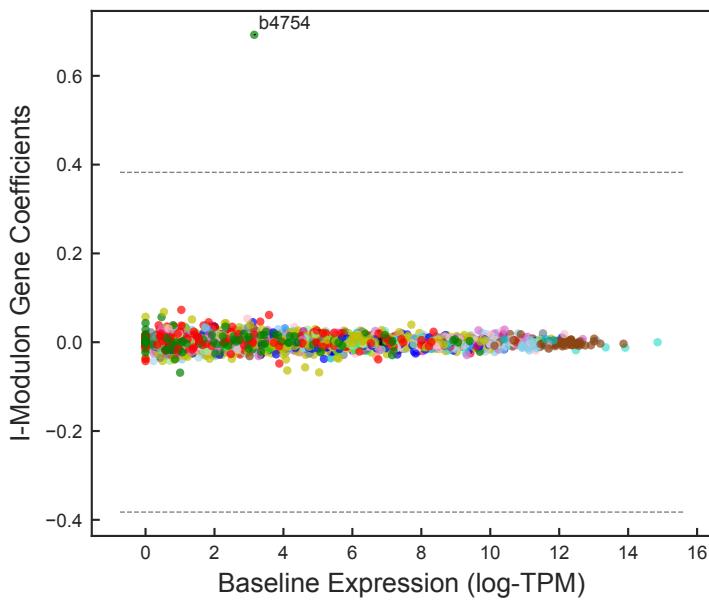
SG – 40 I-Modulon



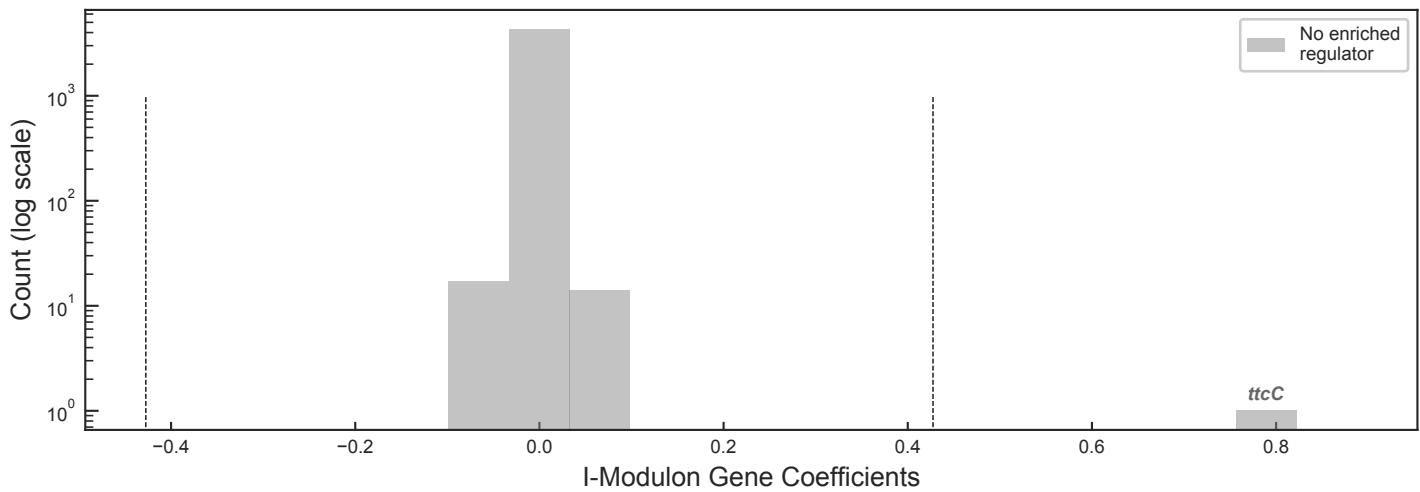
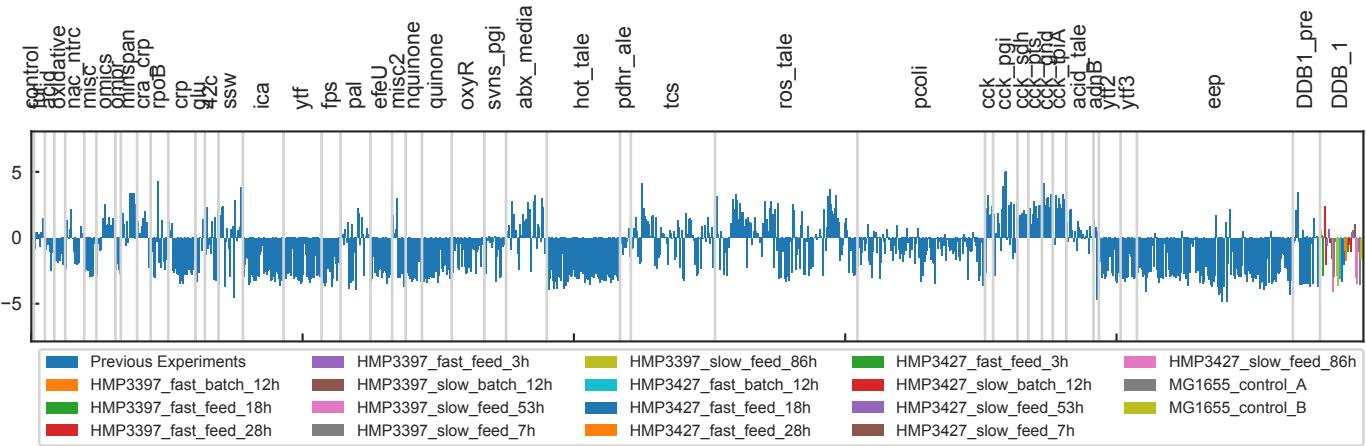
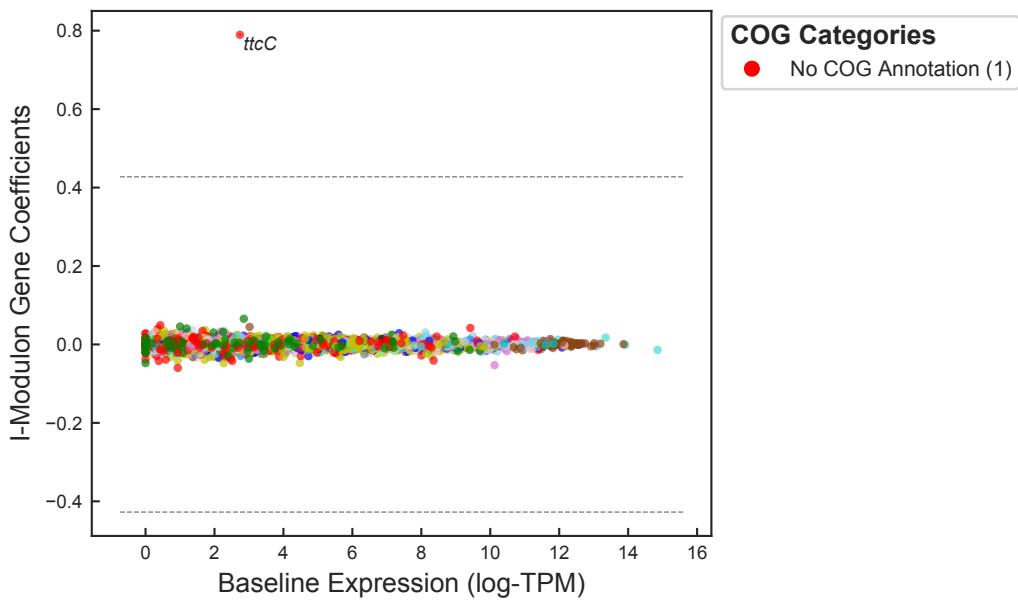
SG – 41 I-Modulon



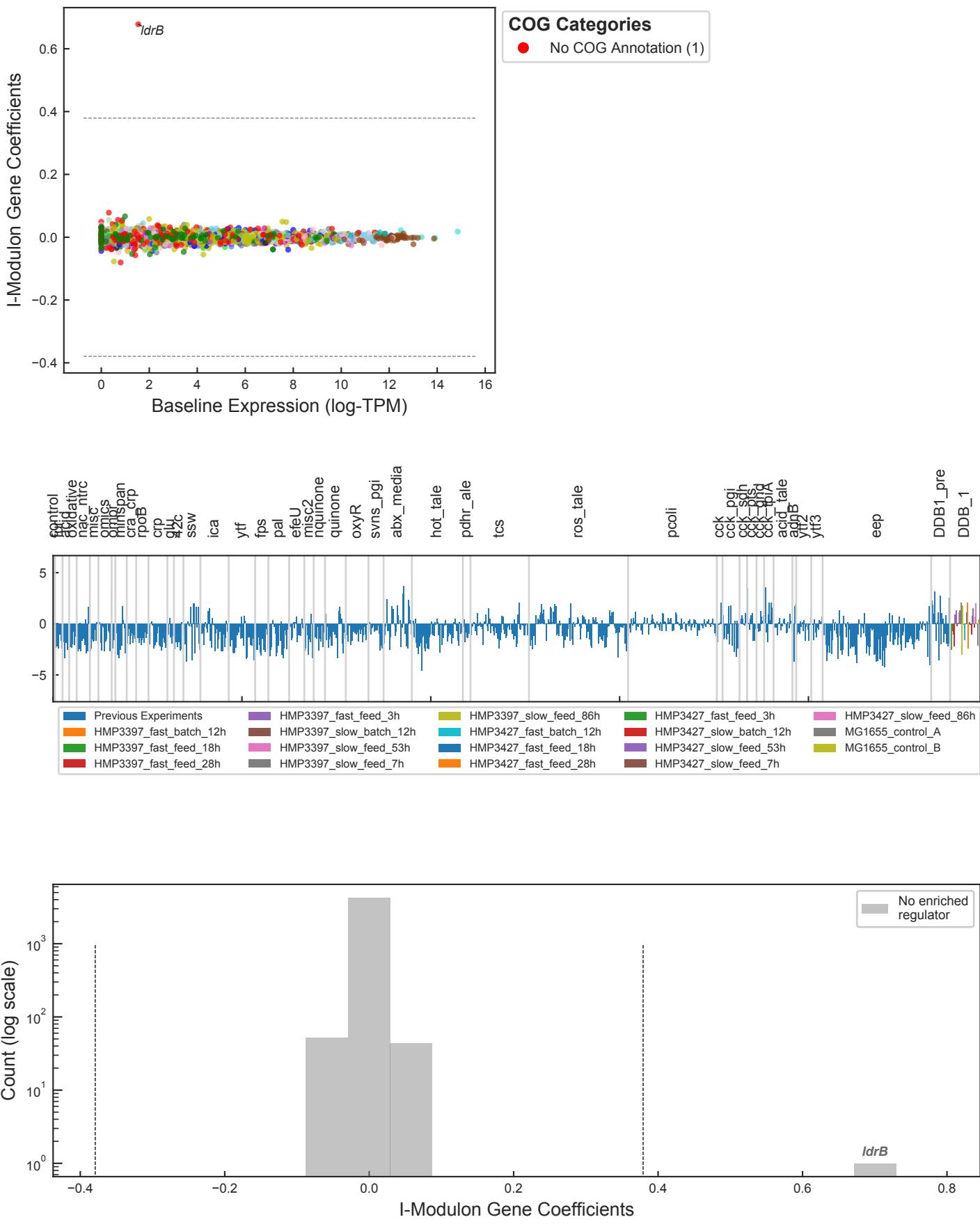
SG – 42 I-Modulon



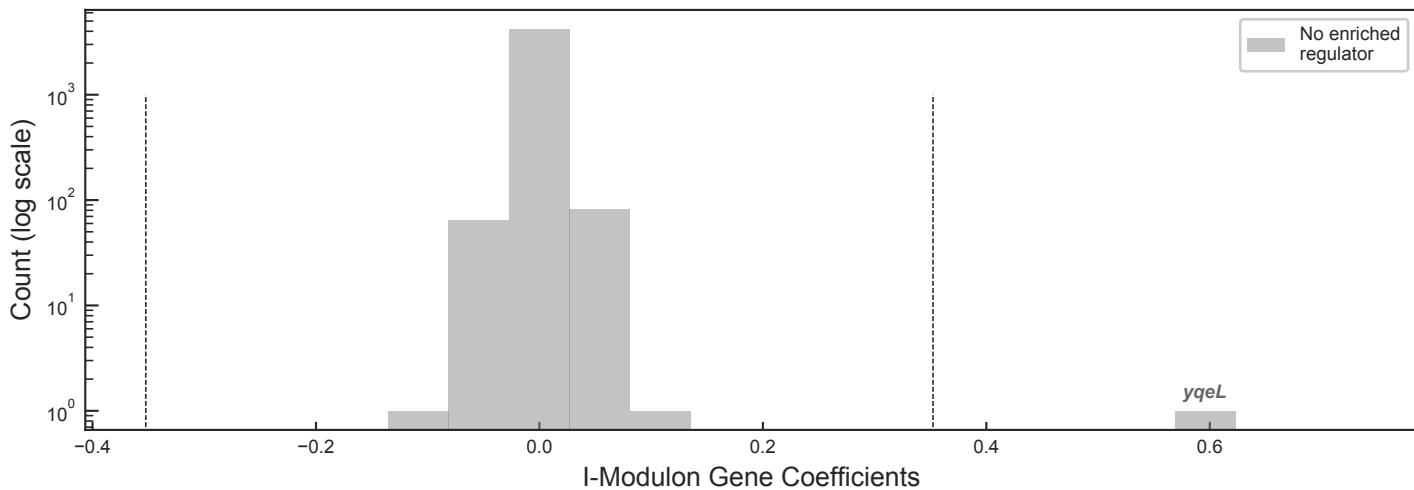
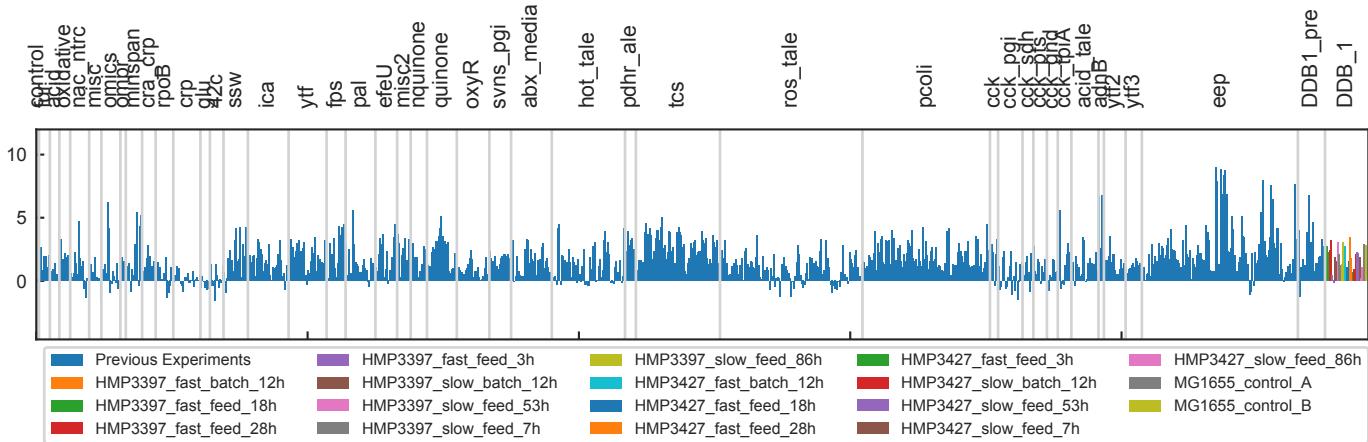
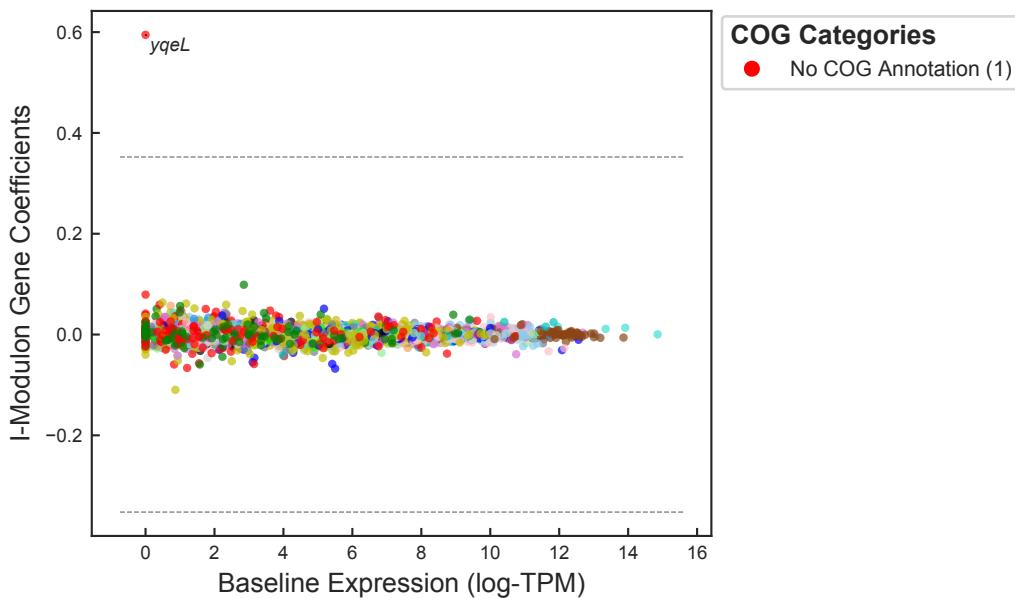
SG – 43 I-Modulon



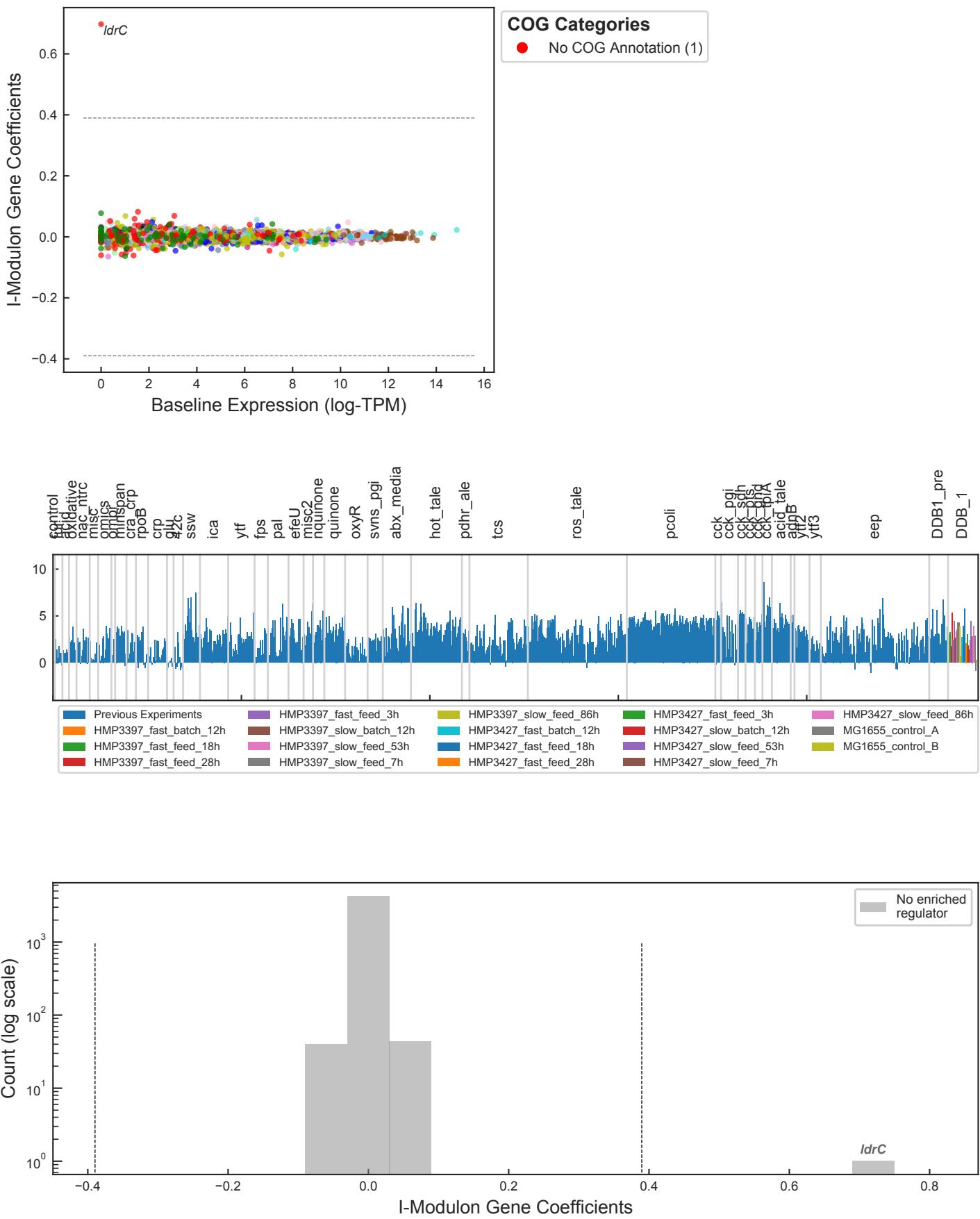
SG – 44 I-Modulon



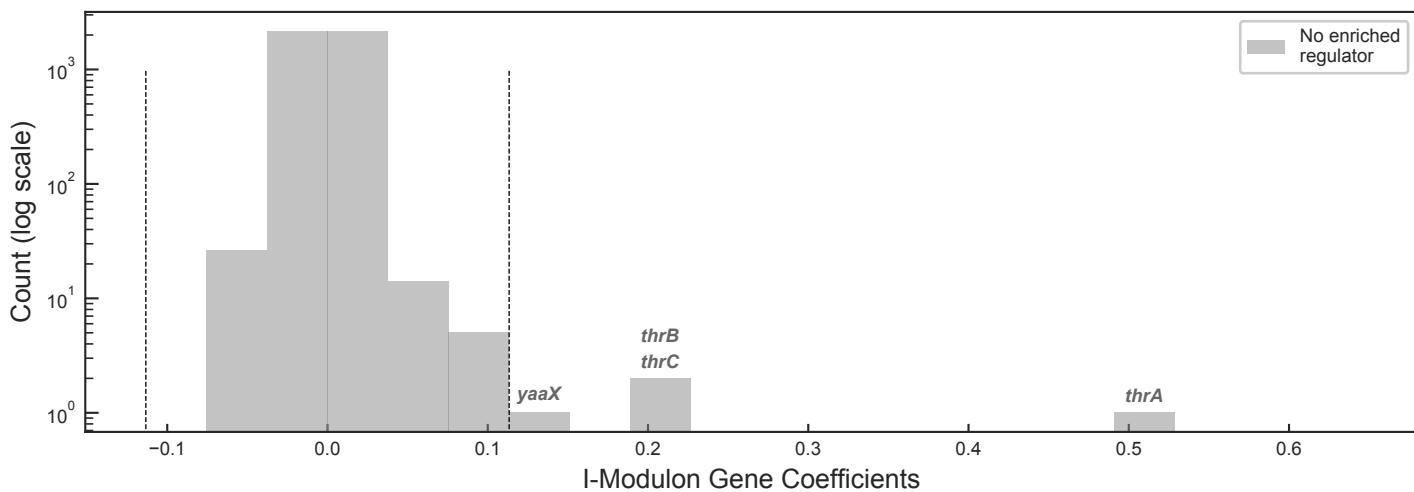
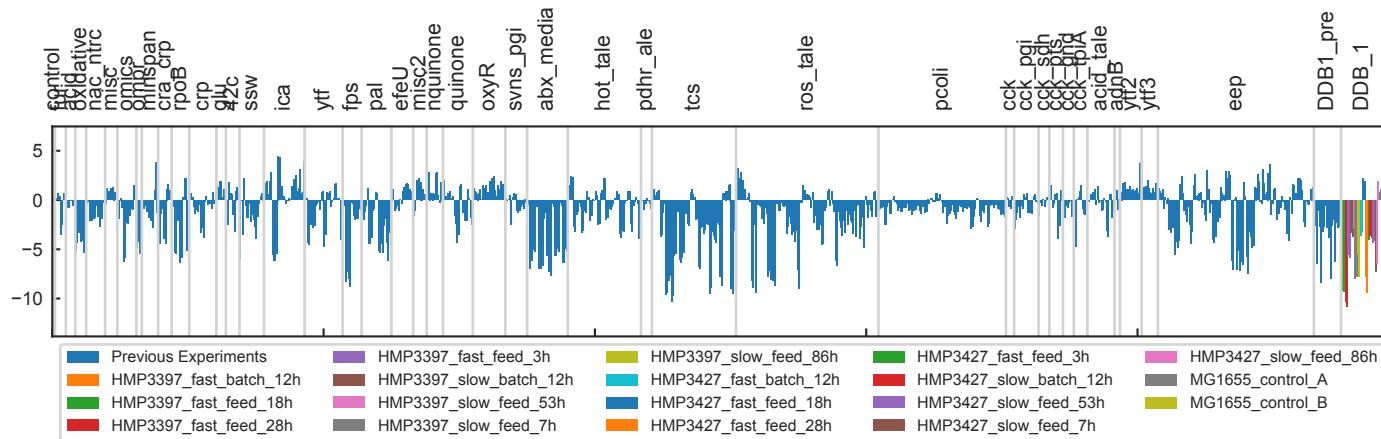
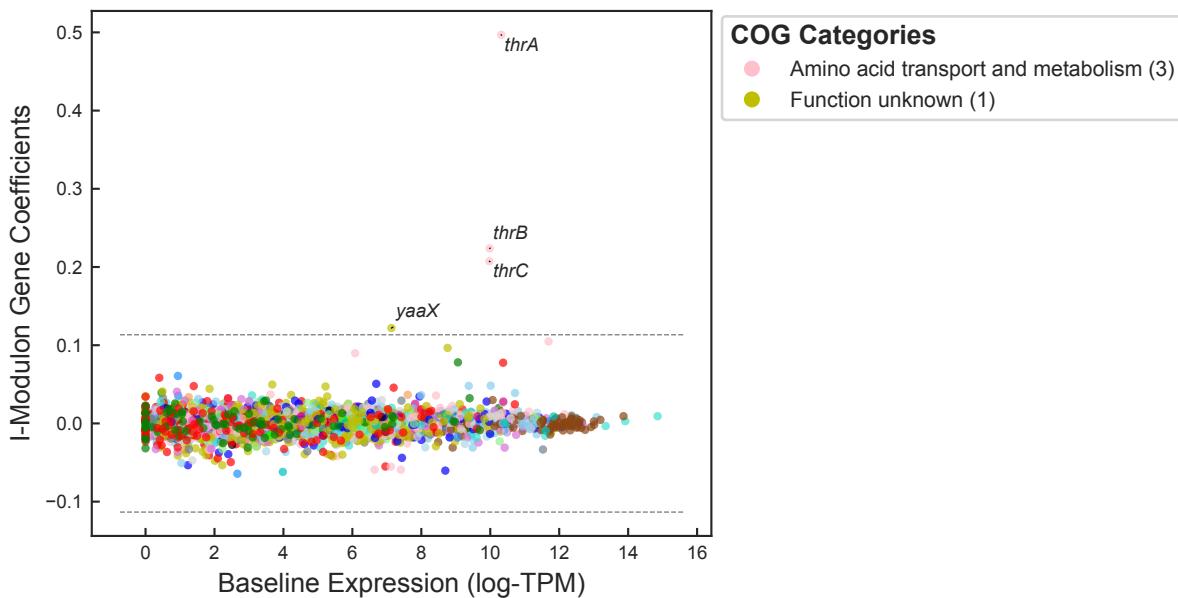
SG – 45 I-Modulon



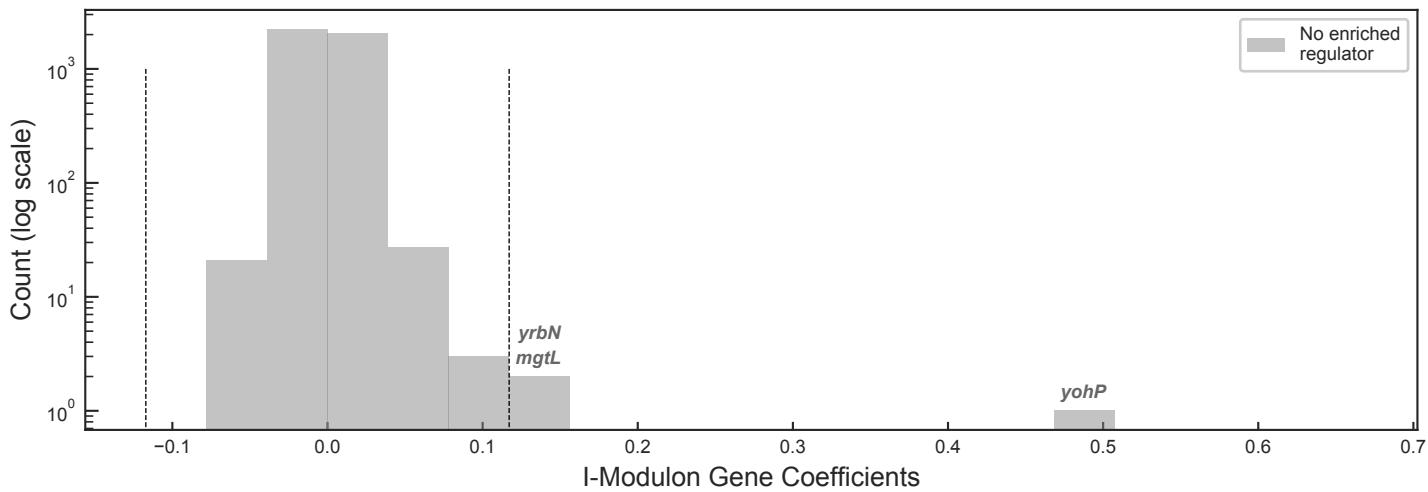
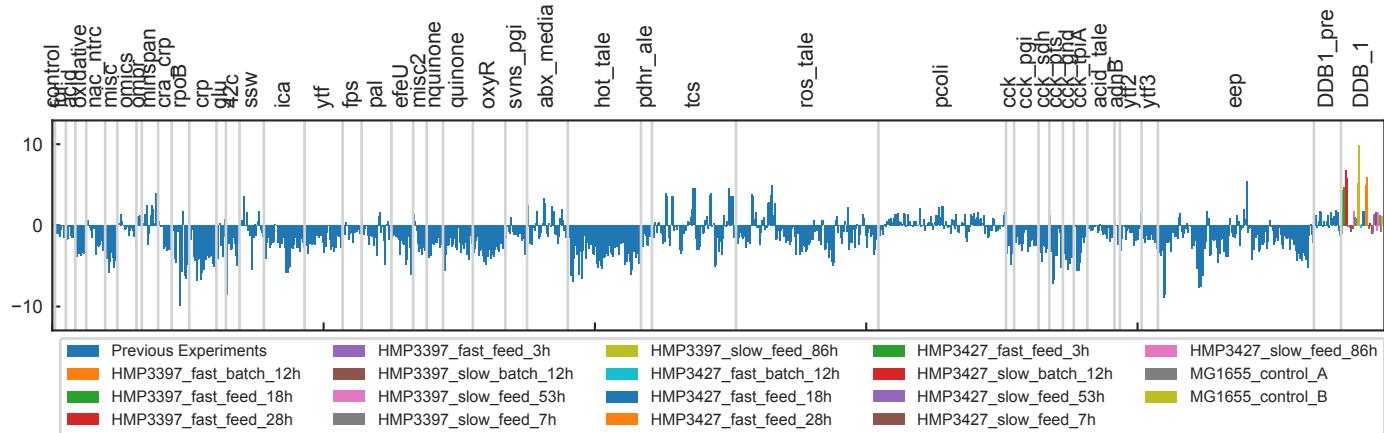
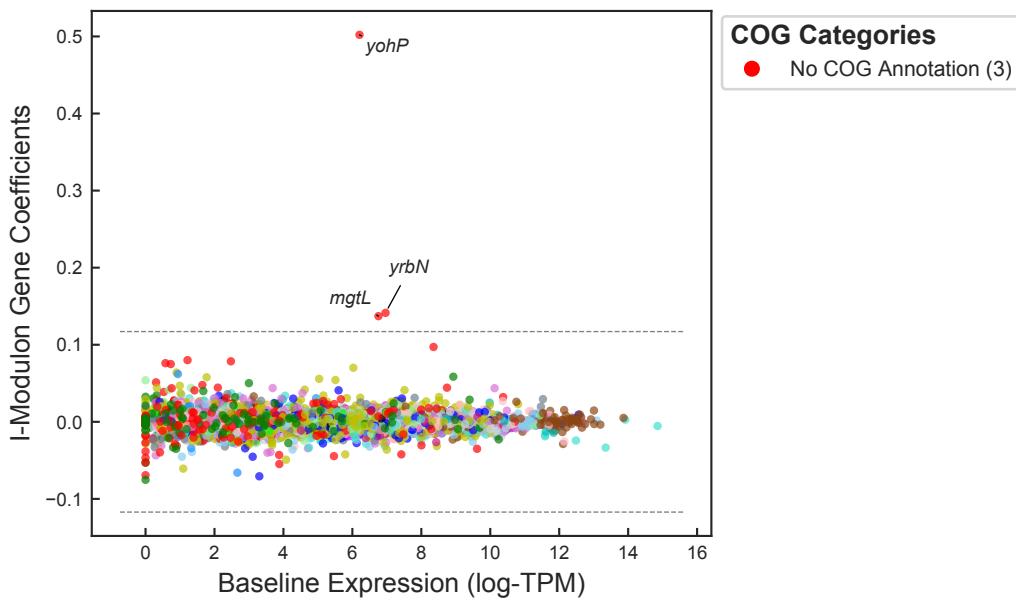
SG – 46 I-Modulon



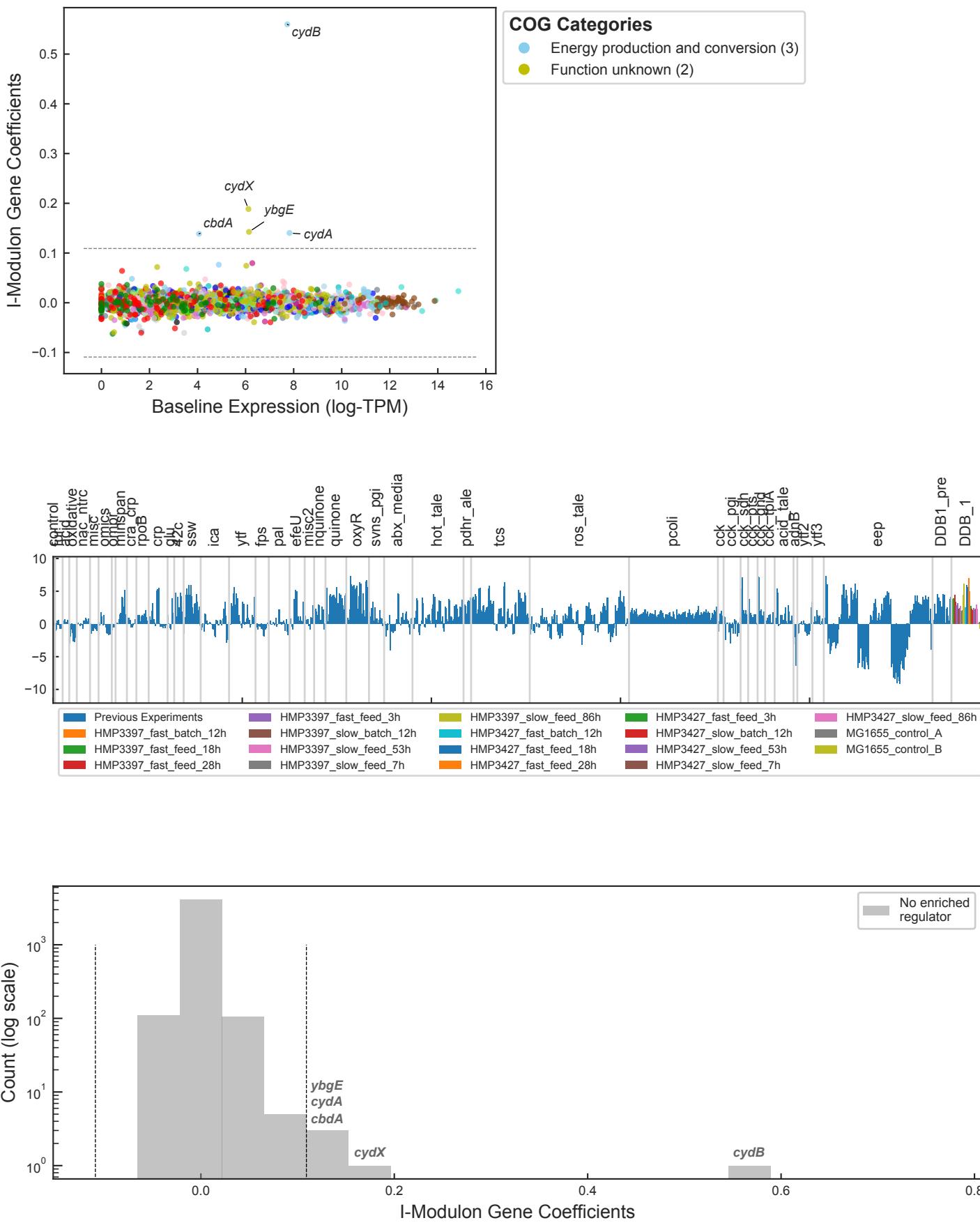
SG – 47 I-Modulon



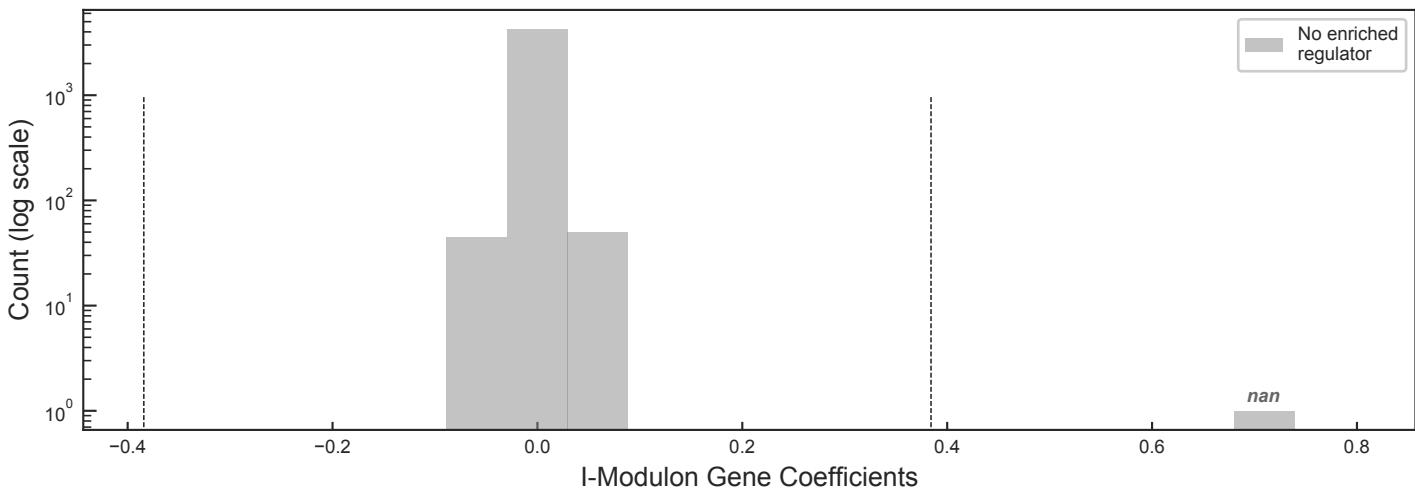
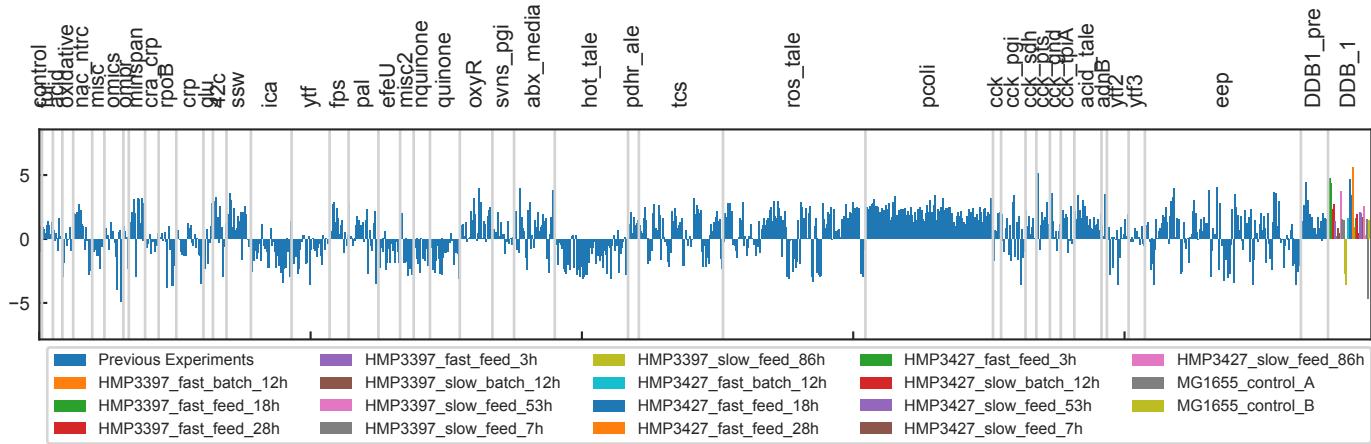
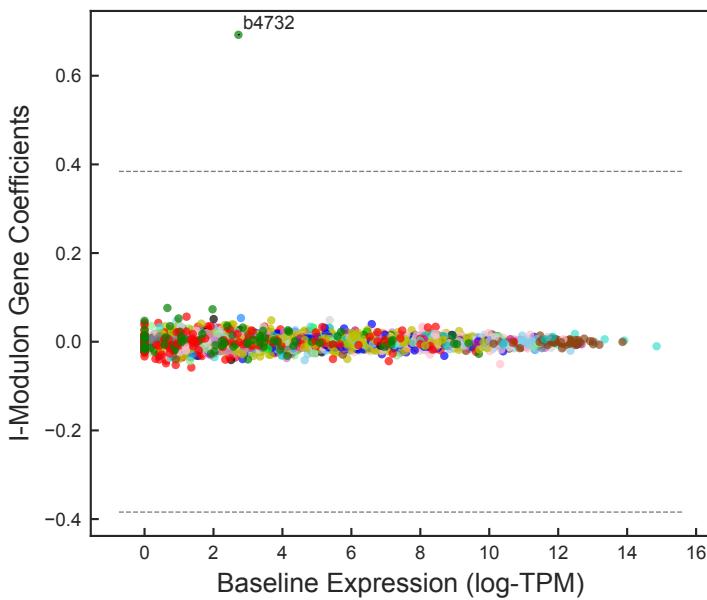
SG – 48 I-Modulon



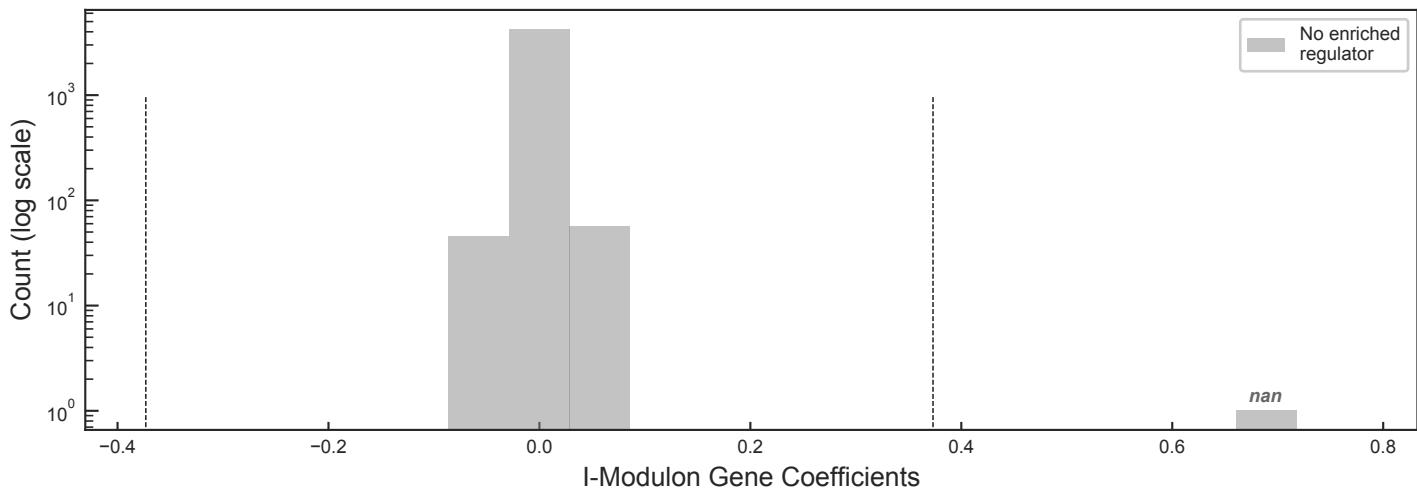
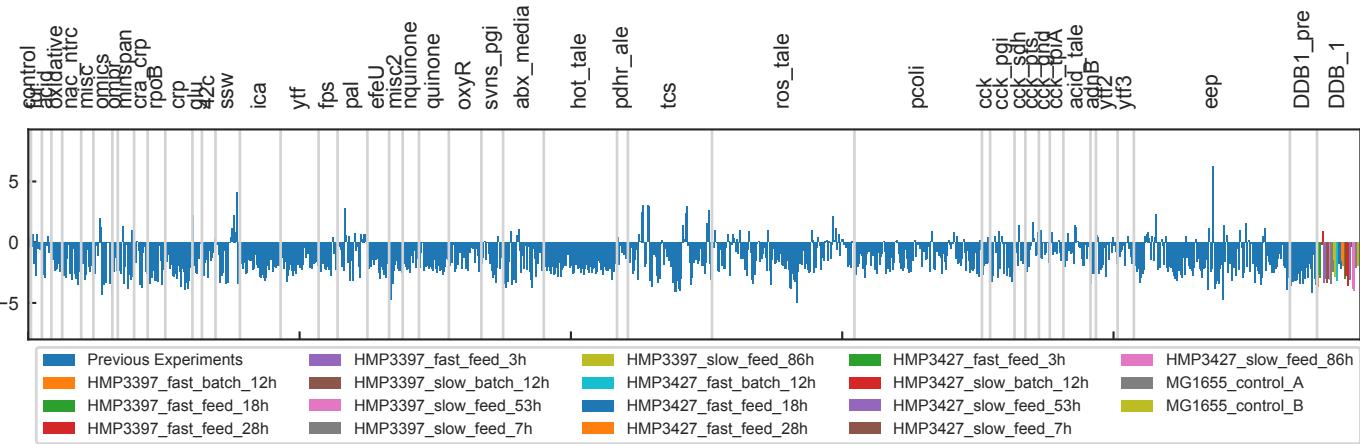
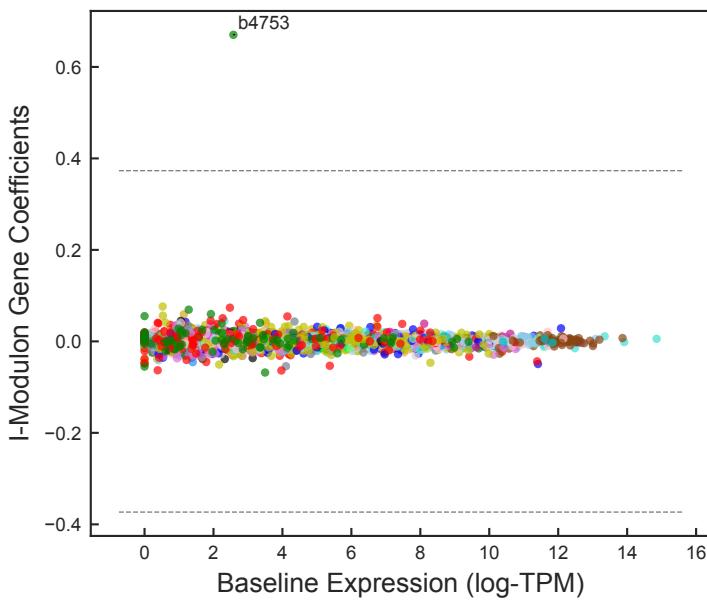
SG – 49 I-Modulon



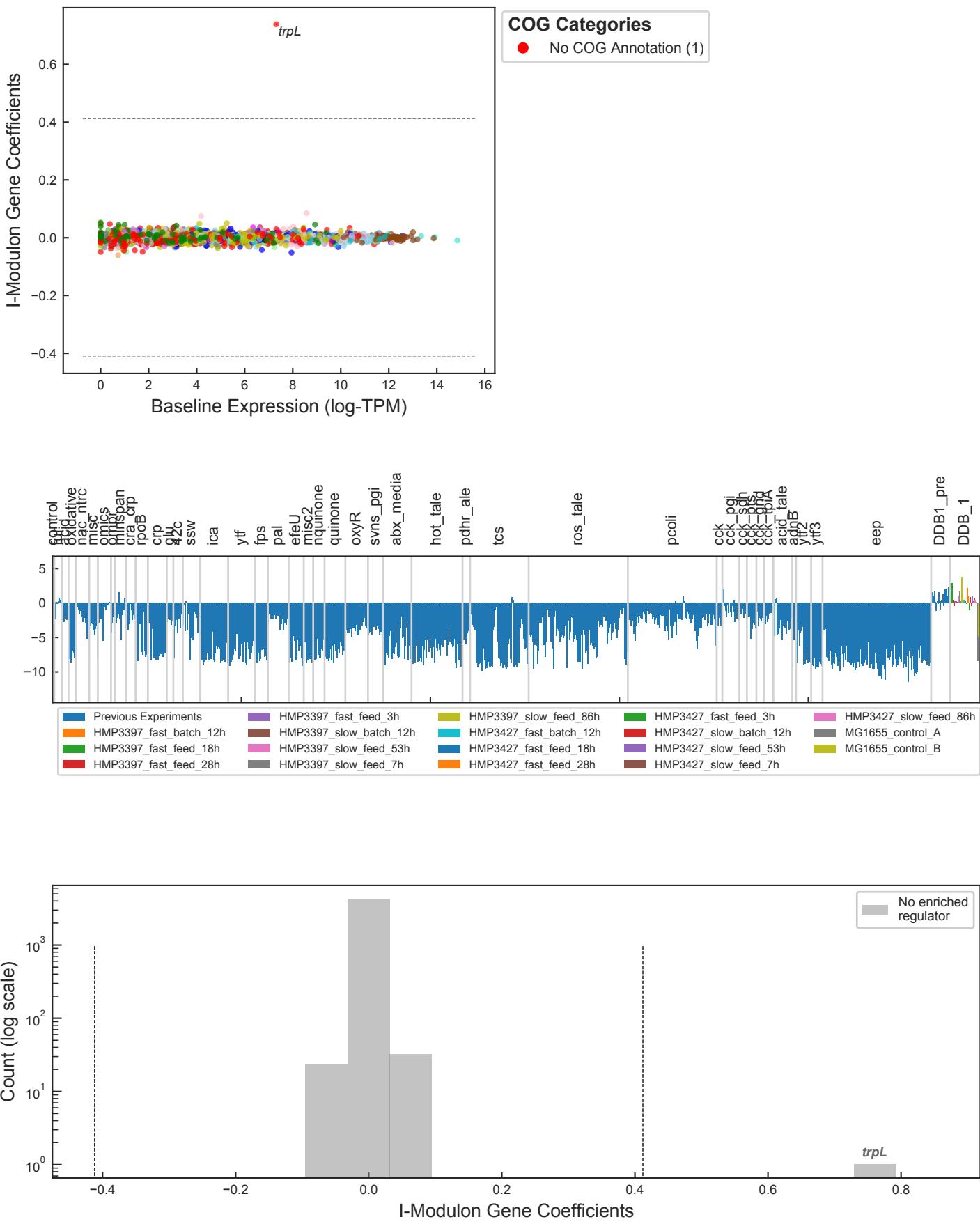
SG – 5 I-Modulon



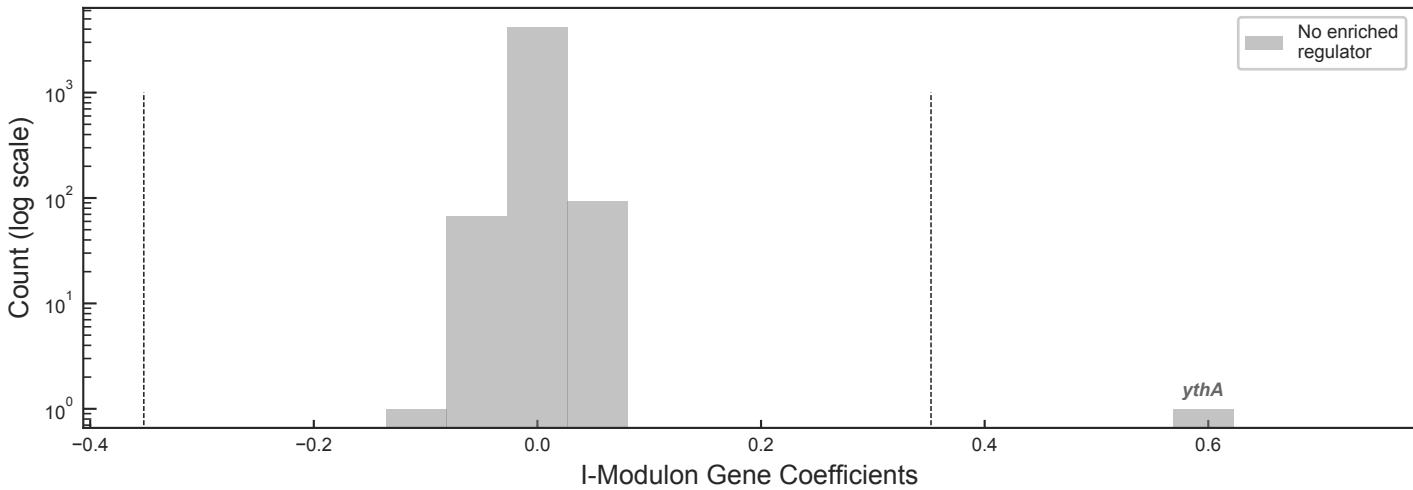
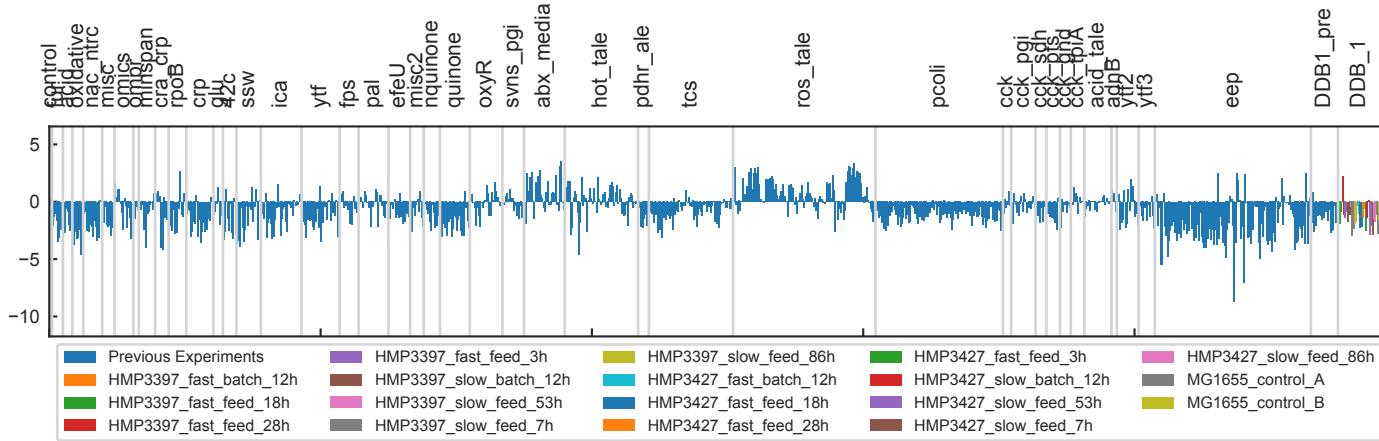
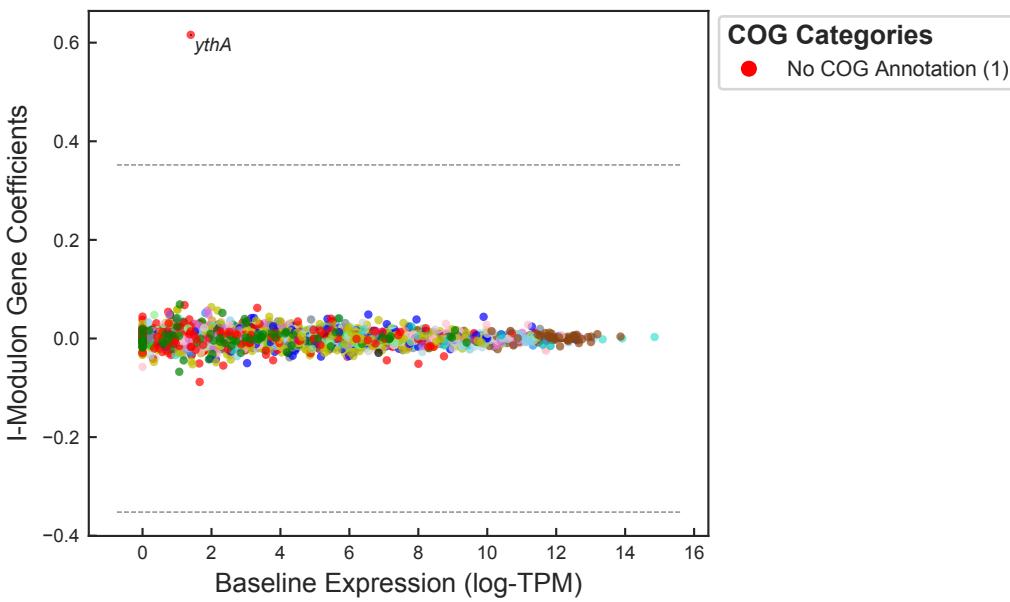
SG – 6 I-Modulon



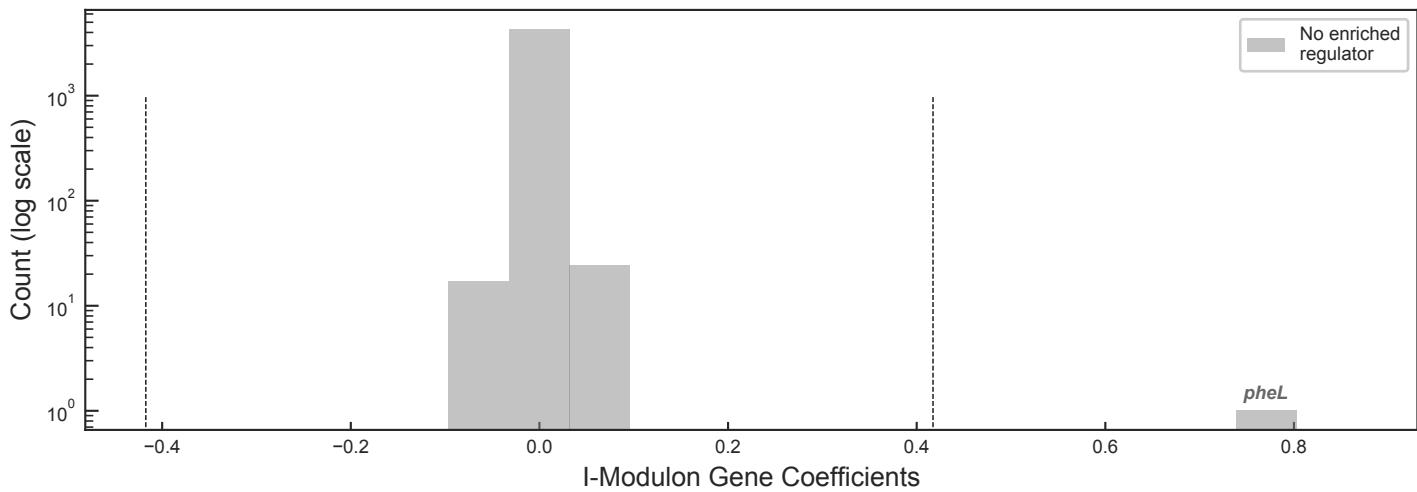
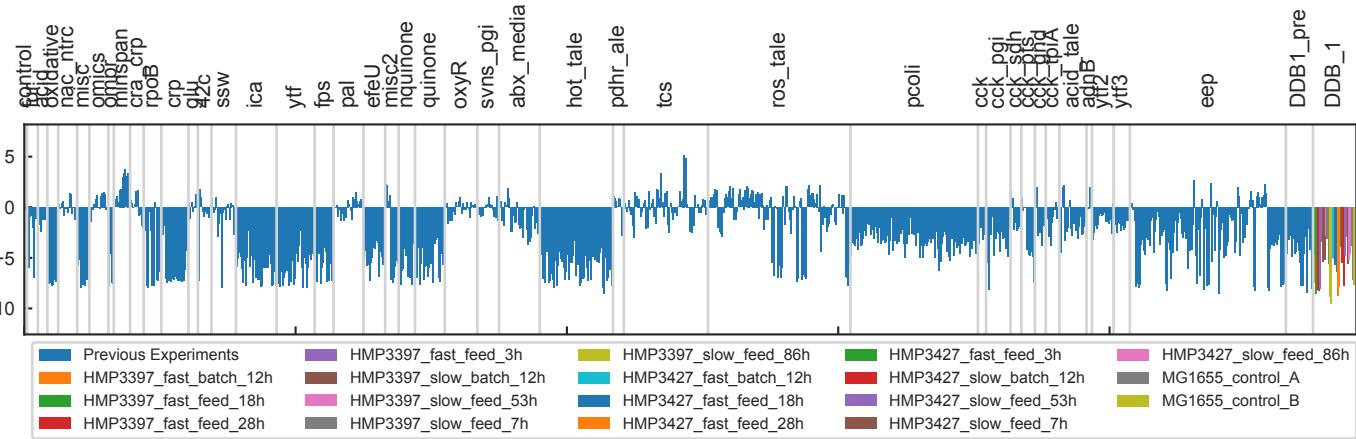
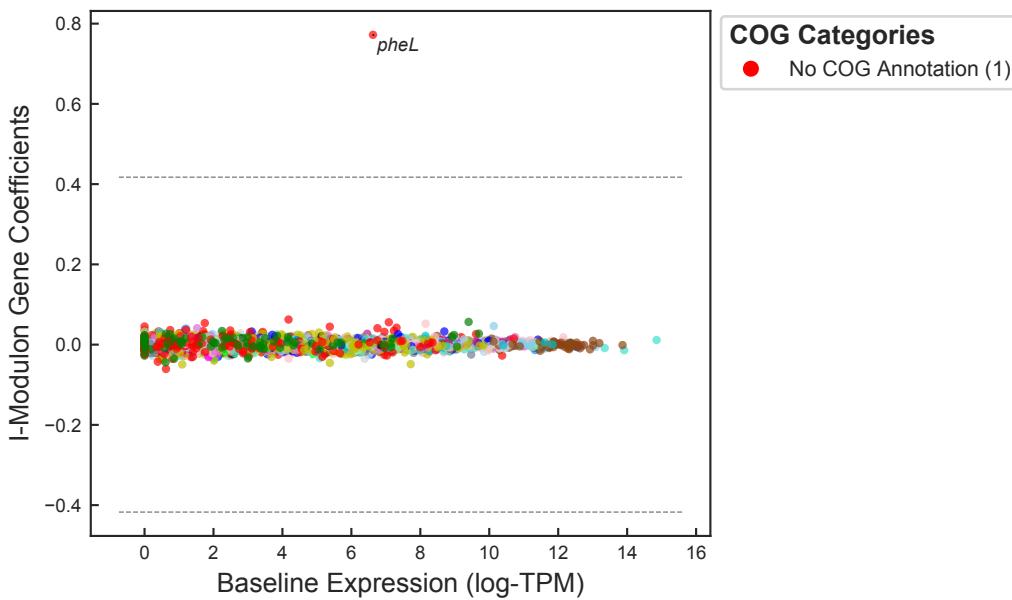
SG – 7 I-Modulon



SG – 8 I-Modulon

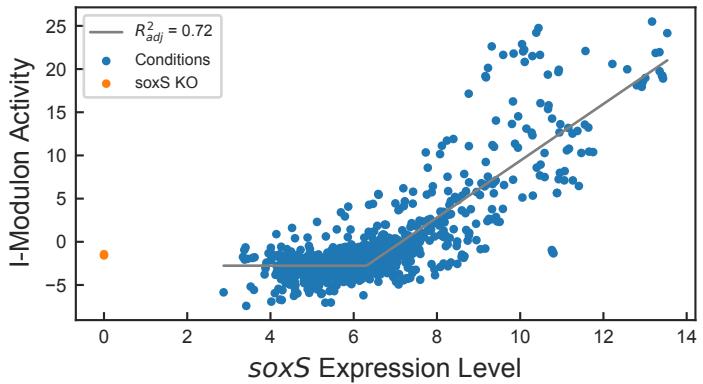
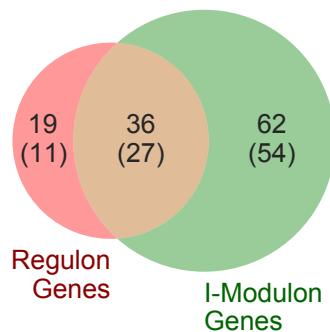
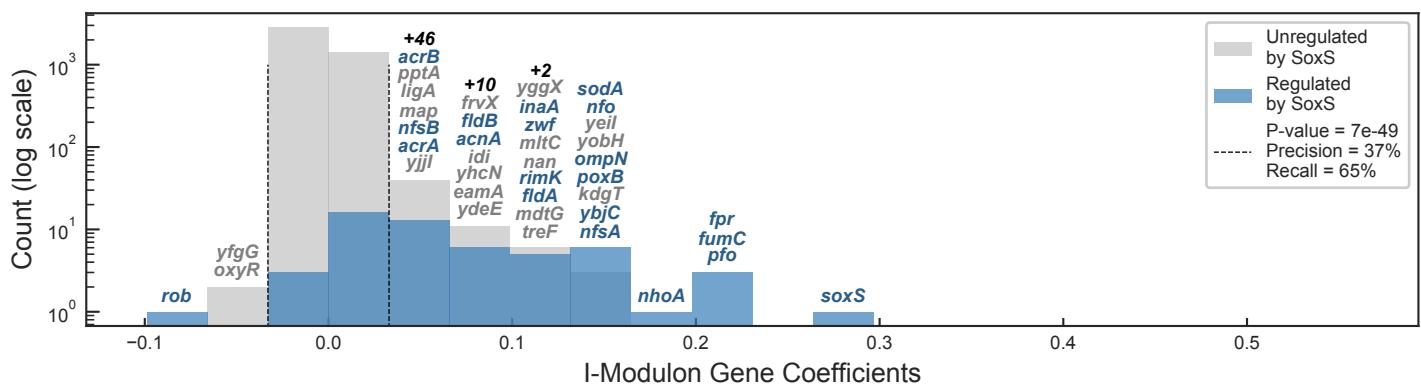
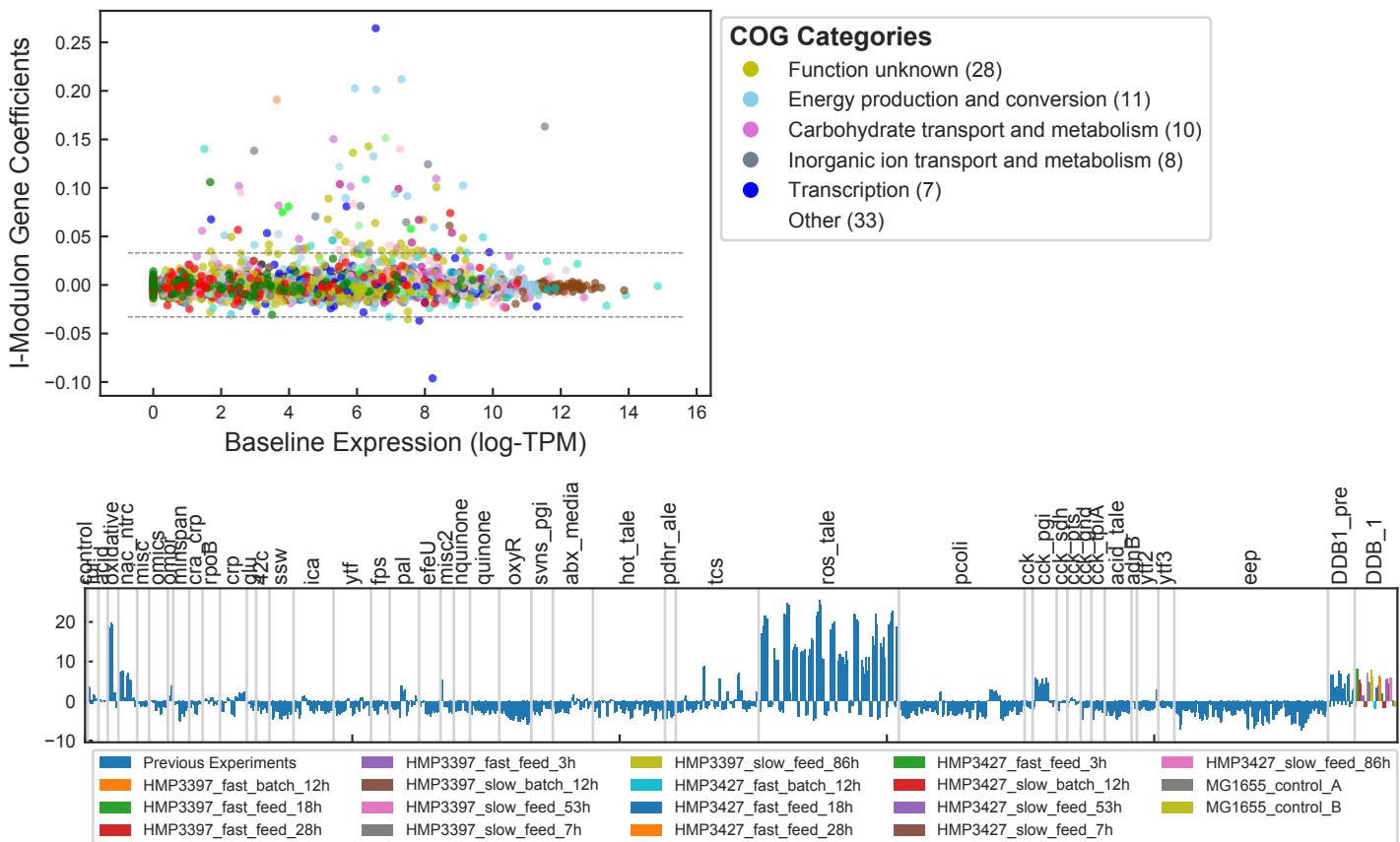


SG – 9 I-Modulon

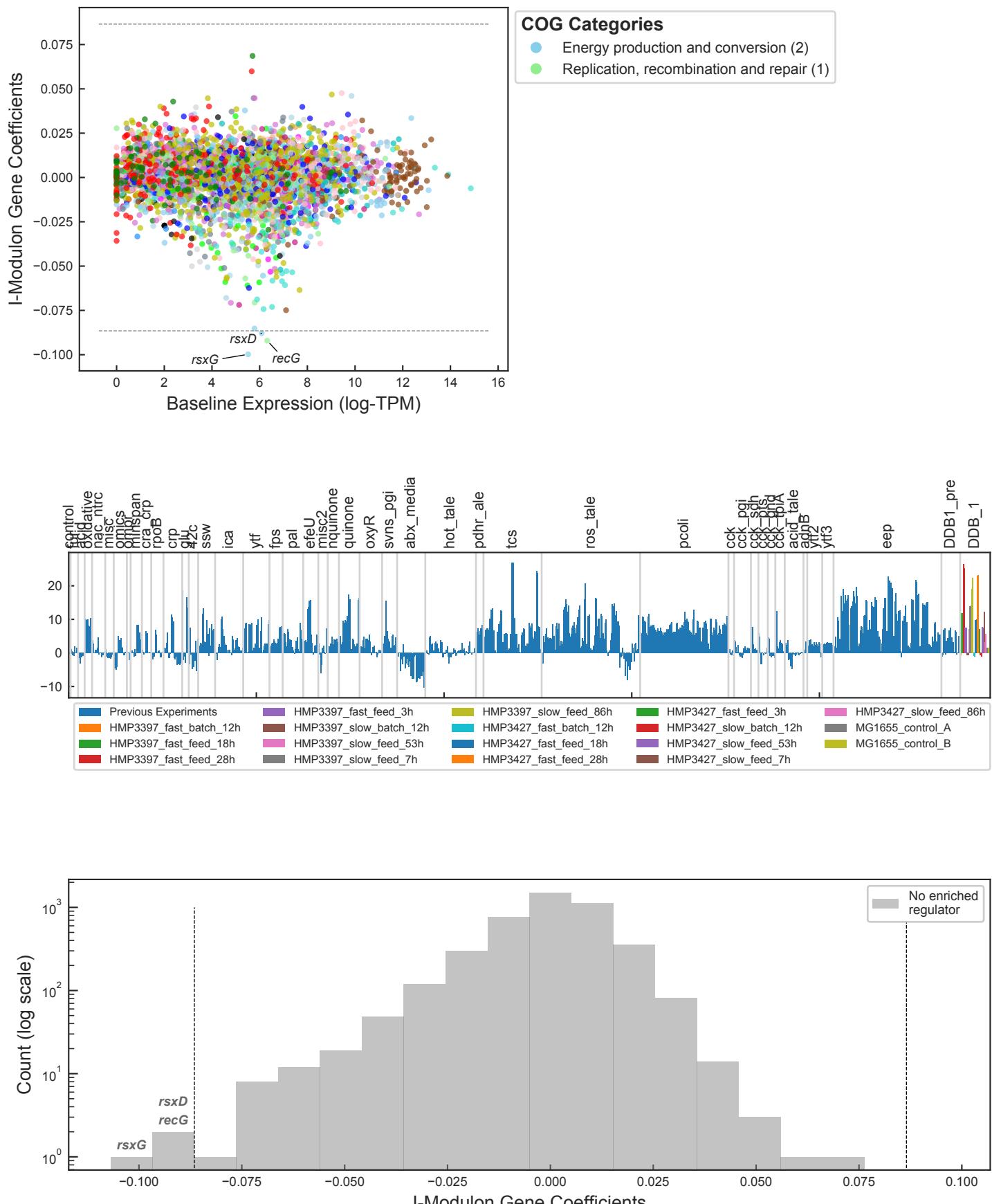


SoxS I-Modulon

Regulated by: soxS

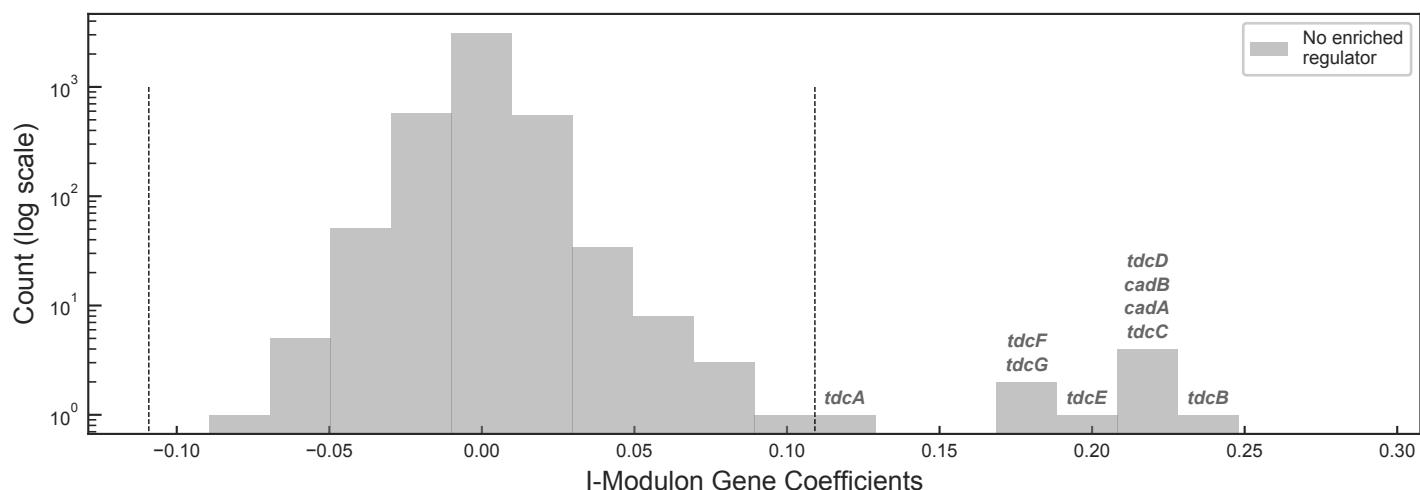
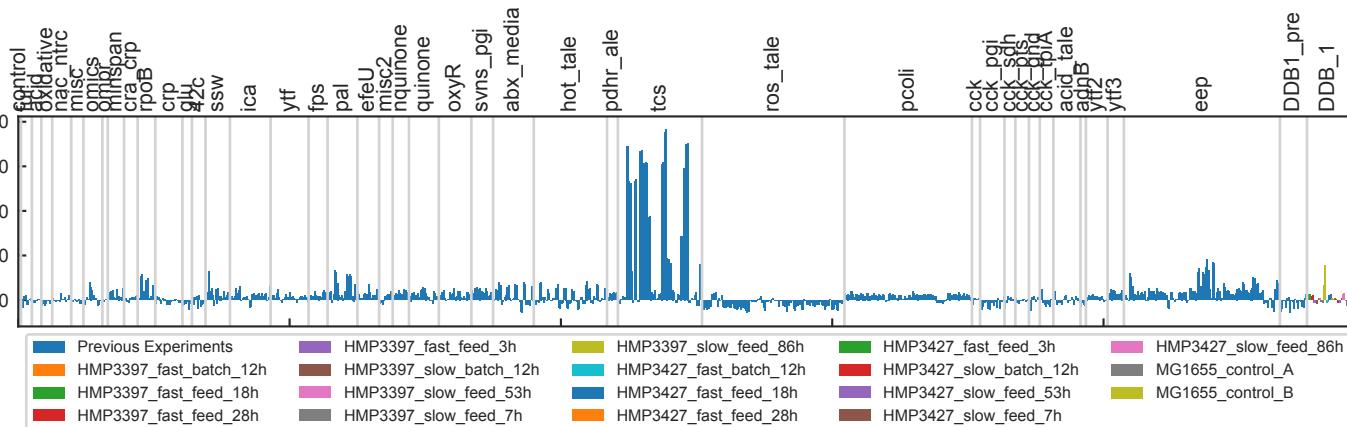
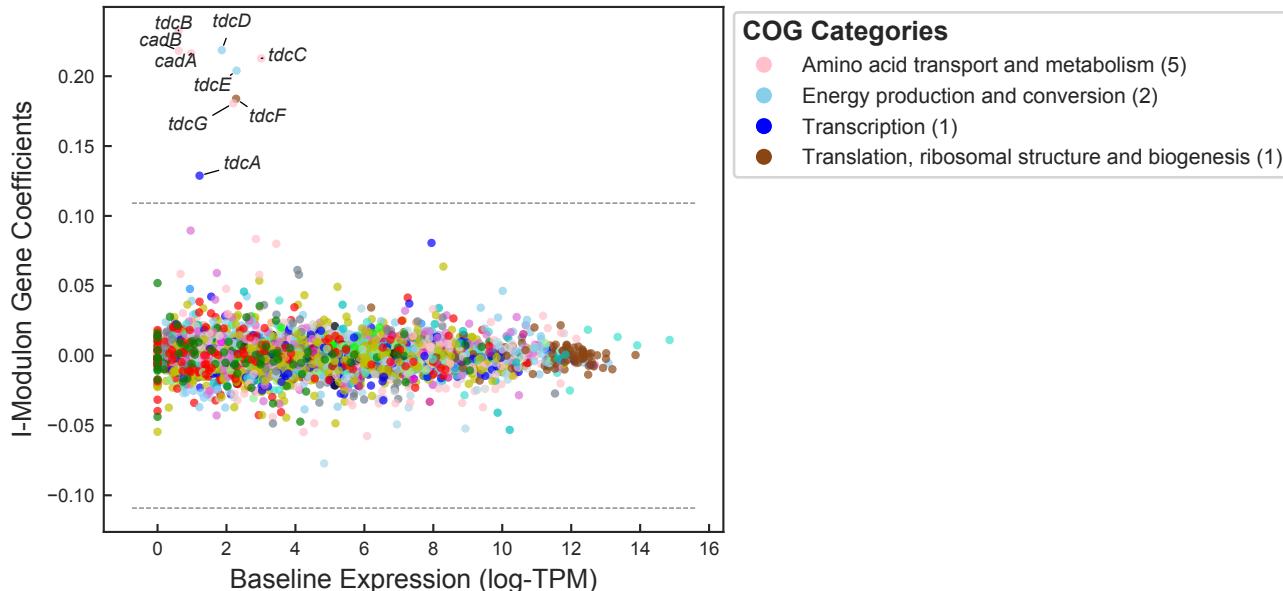


SoxS – anti I-Modulon



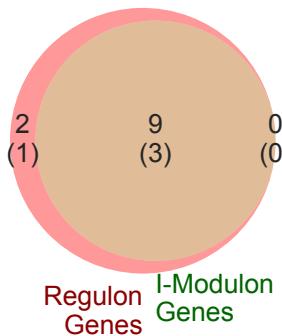
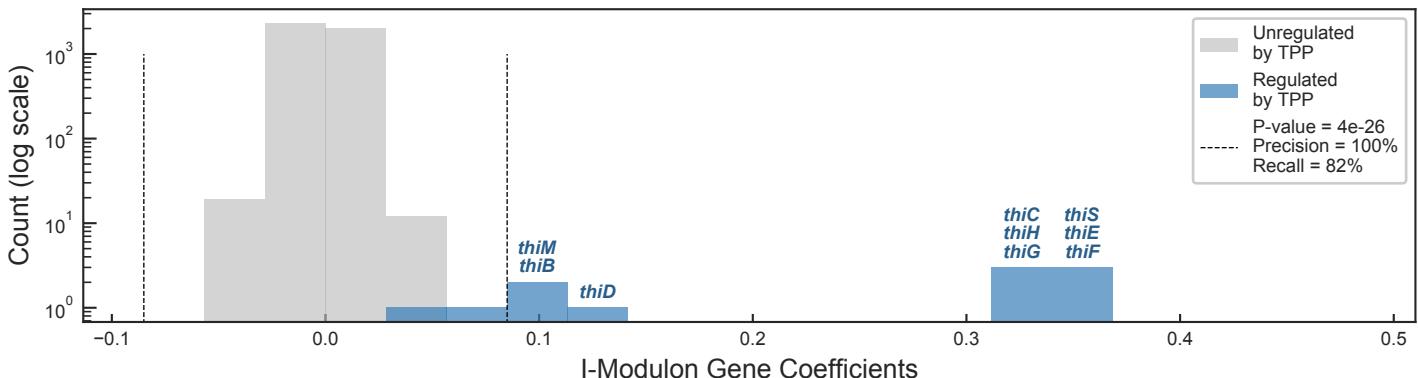
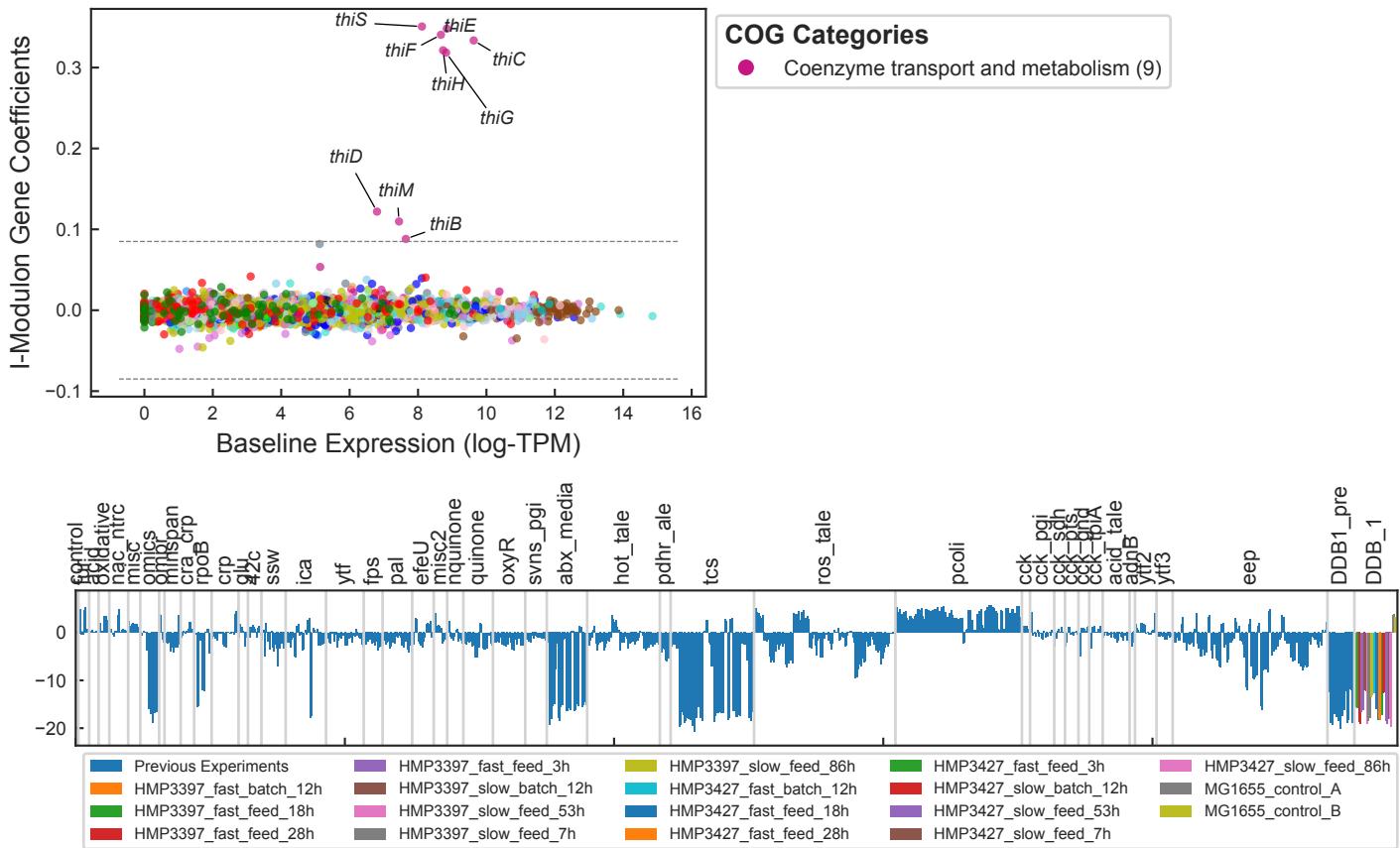
TdcA + TdcR/CadC I-Modulon

Regulated by: tdcA+tdcR/cadC



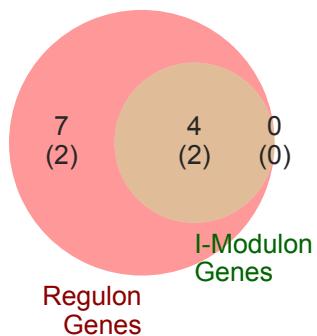
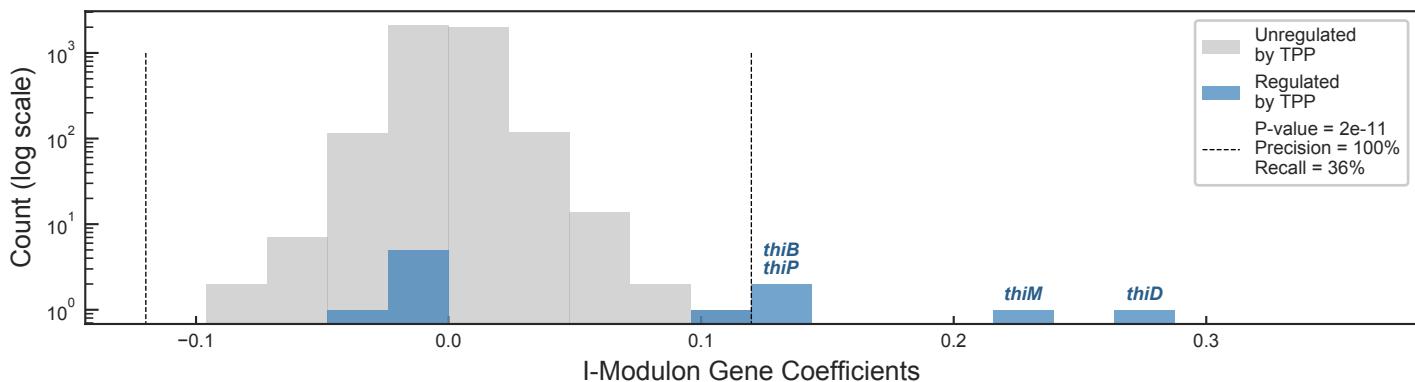
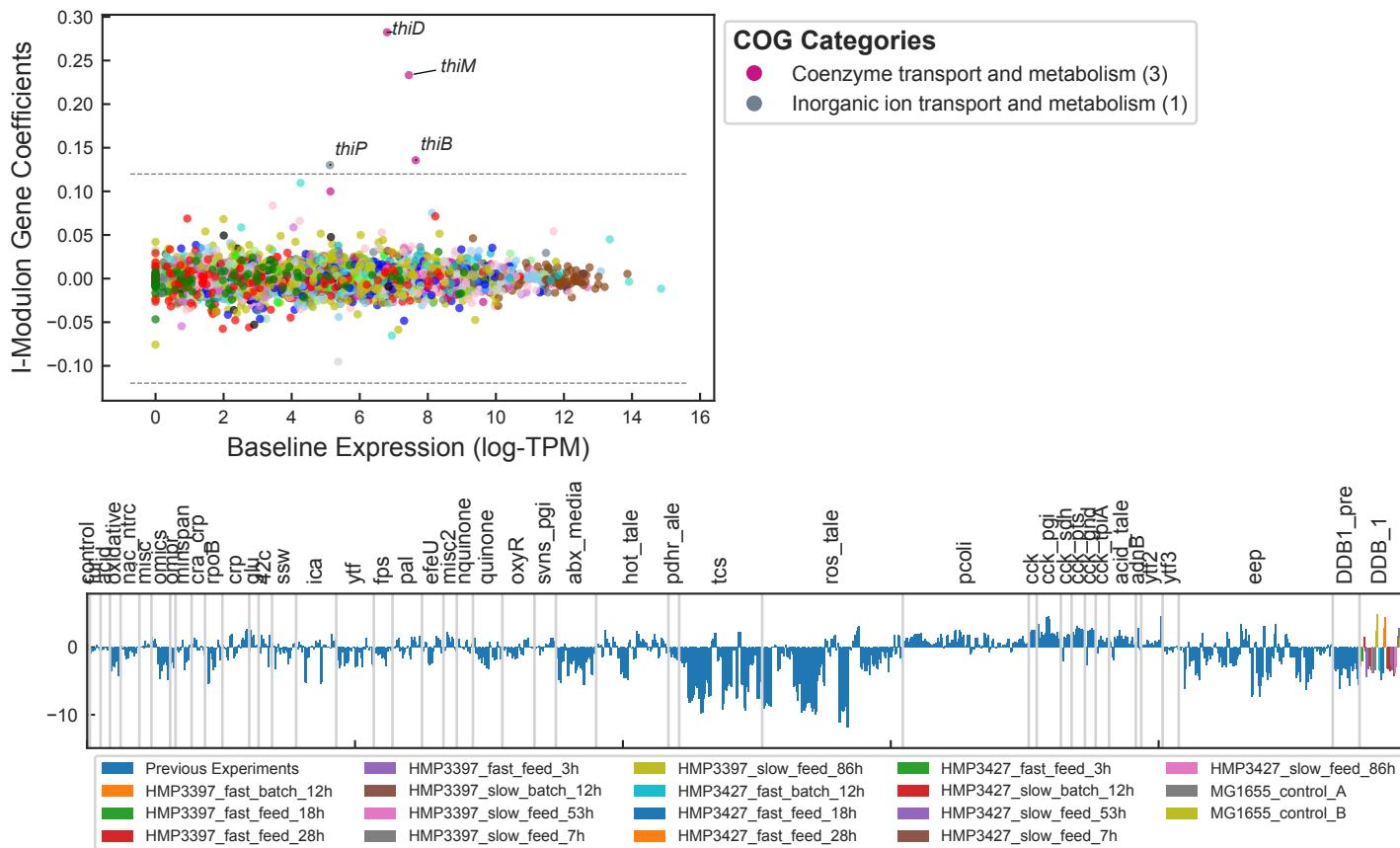
Thiamine – 1 I-Modulon

Regulated by: TPP



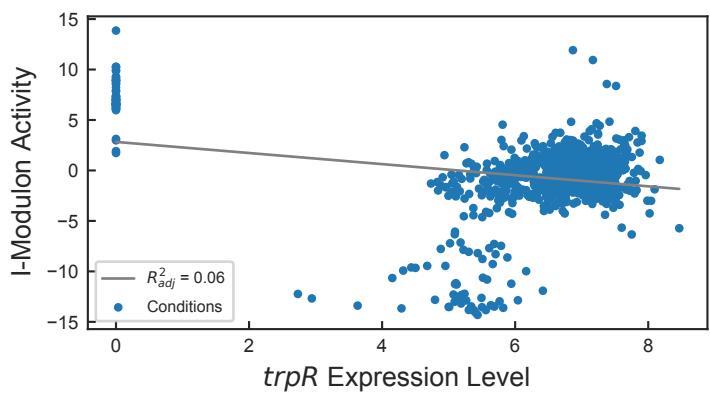
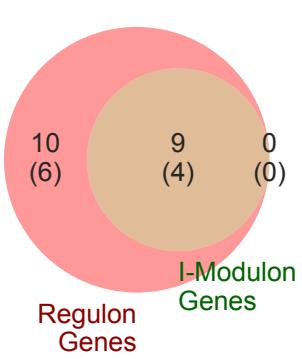
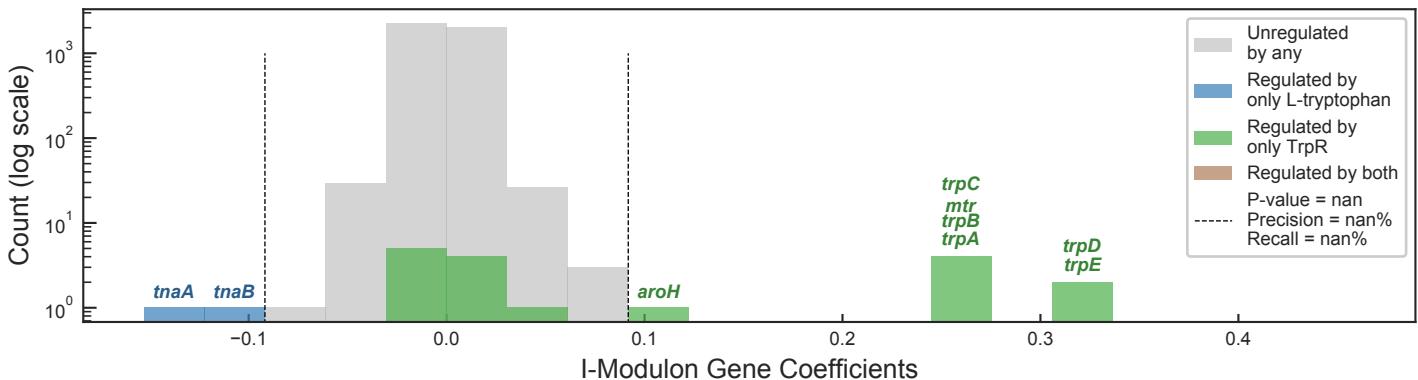
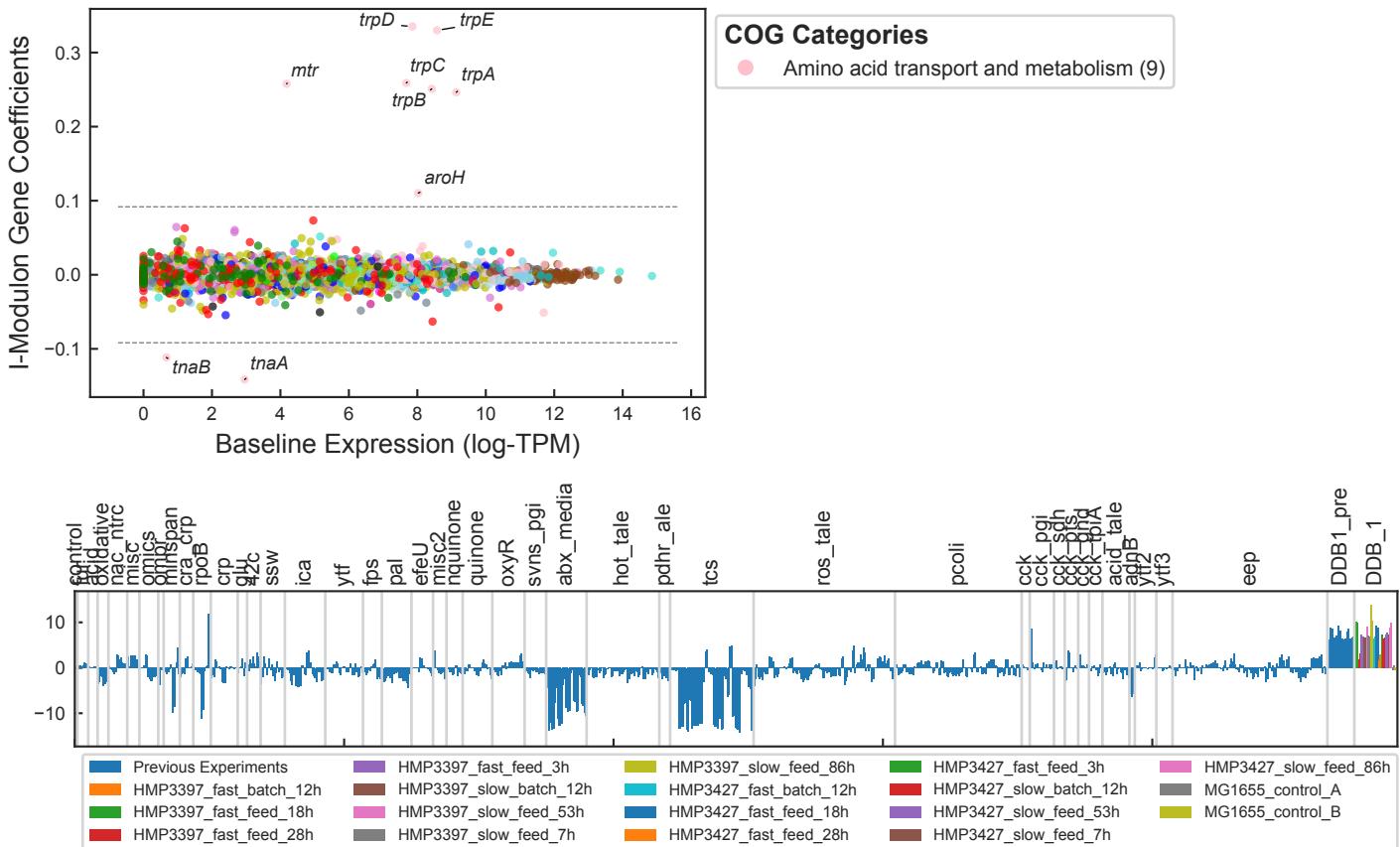
Thiamine – 2 I-Modulon

Regulated by: TPP



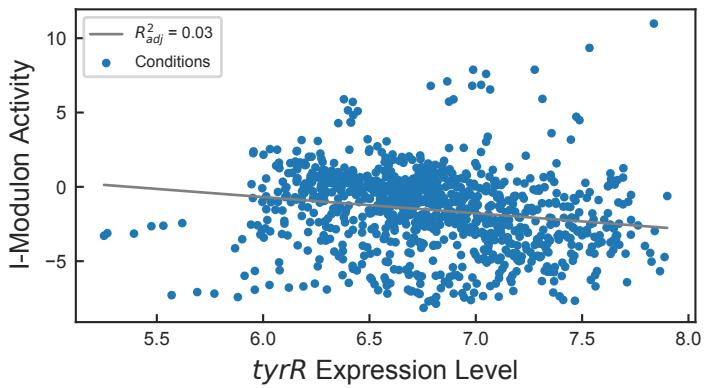
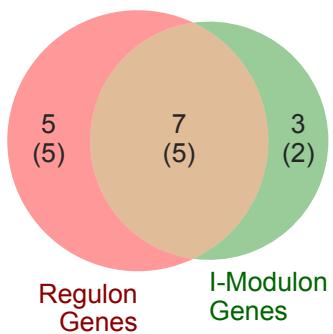
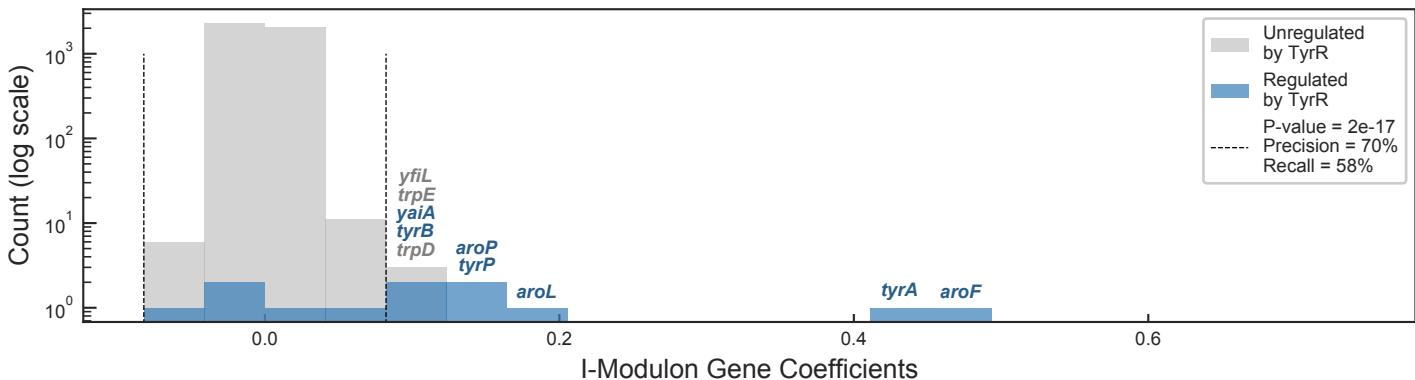
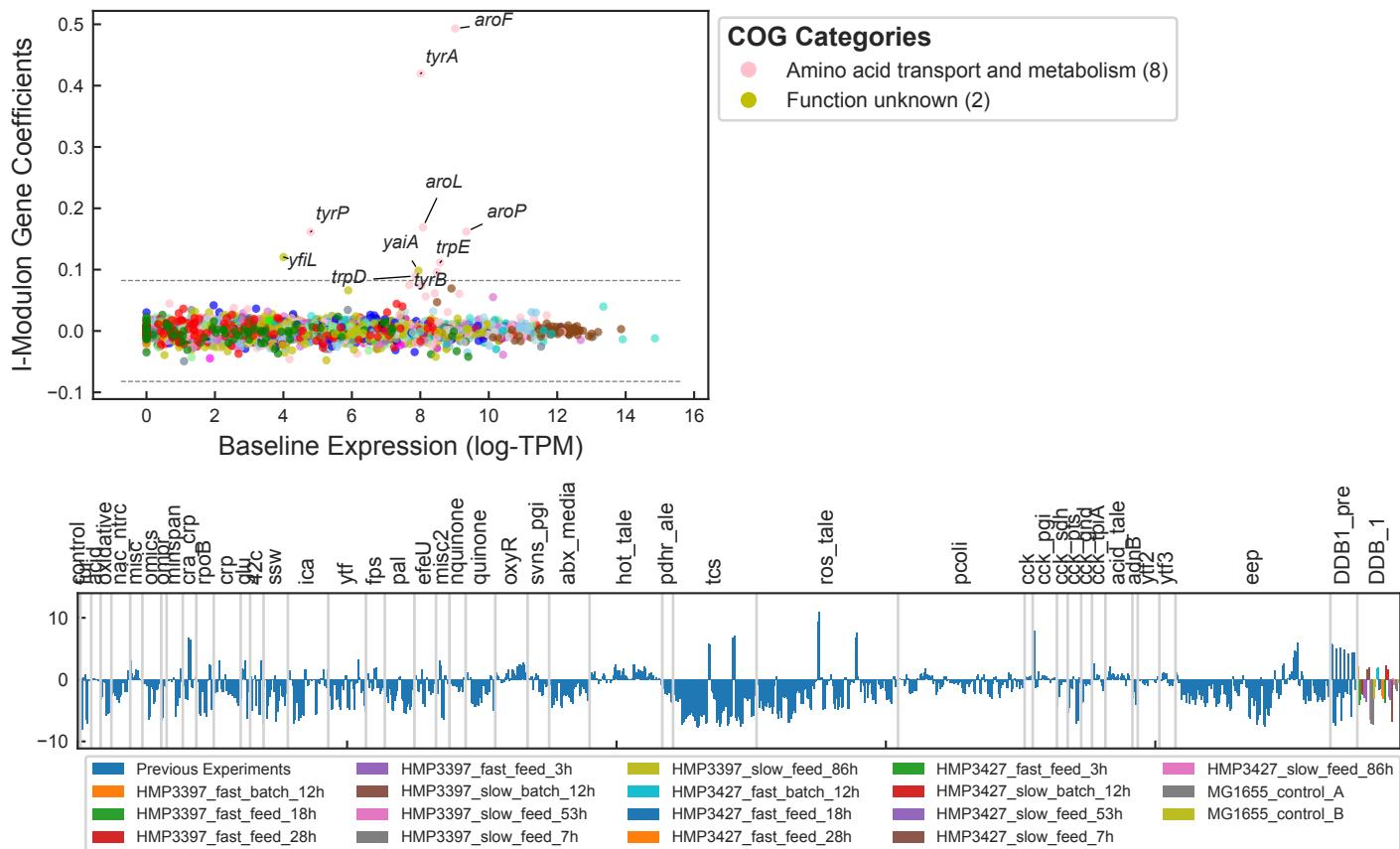
Tryptophan I-Modulon

Regulated by: L-tryptophan/trpR



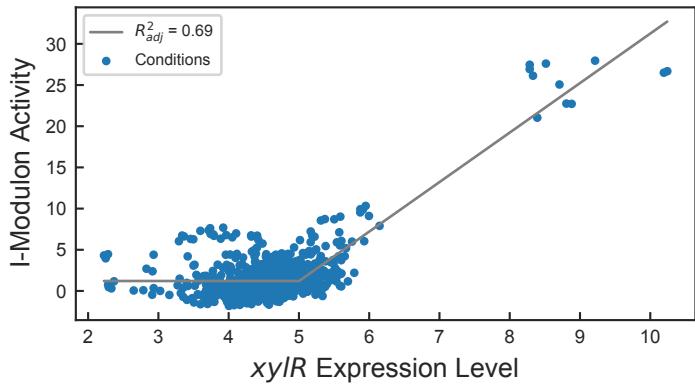
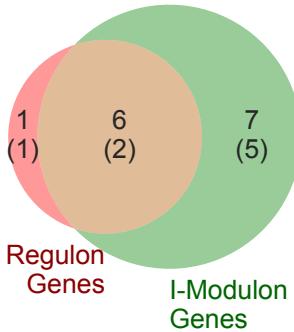
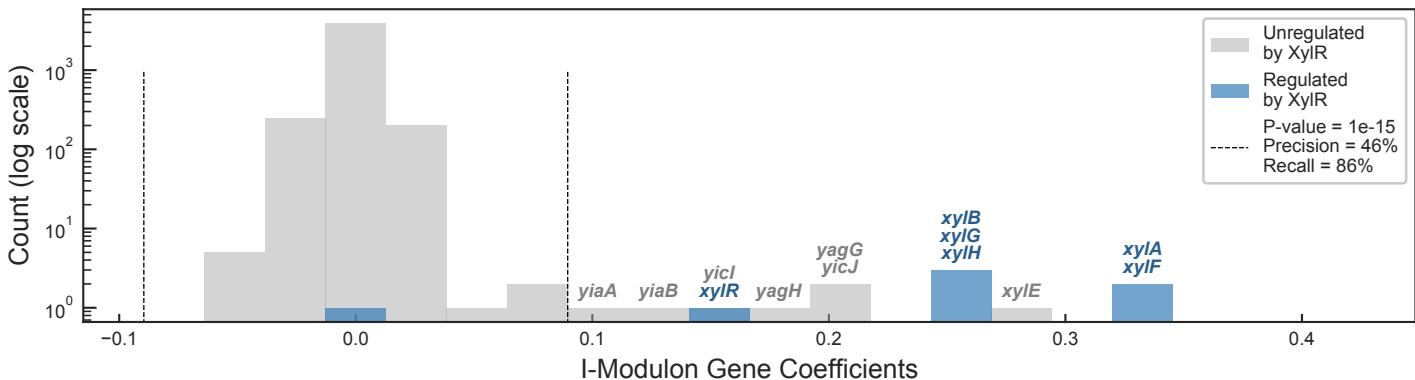
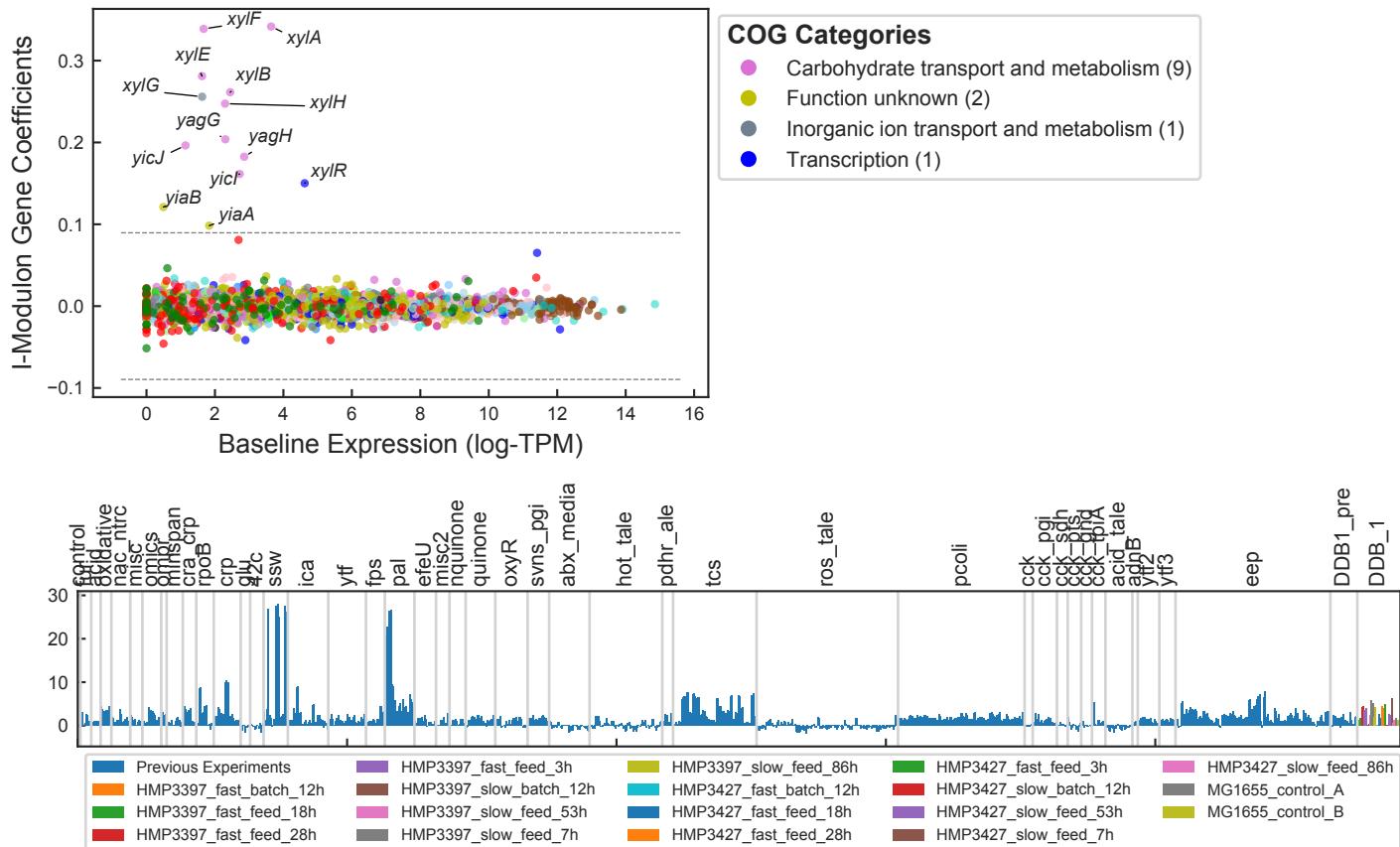
TyrR I-Modulon

Regulated by: *tyrR*

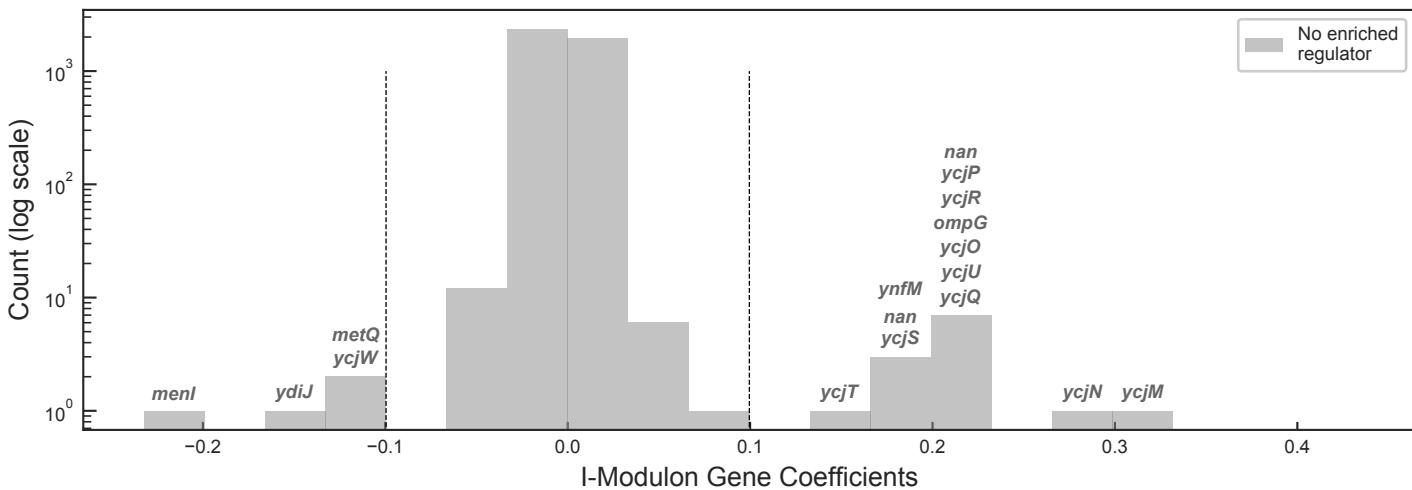
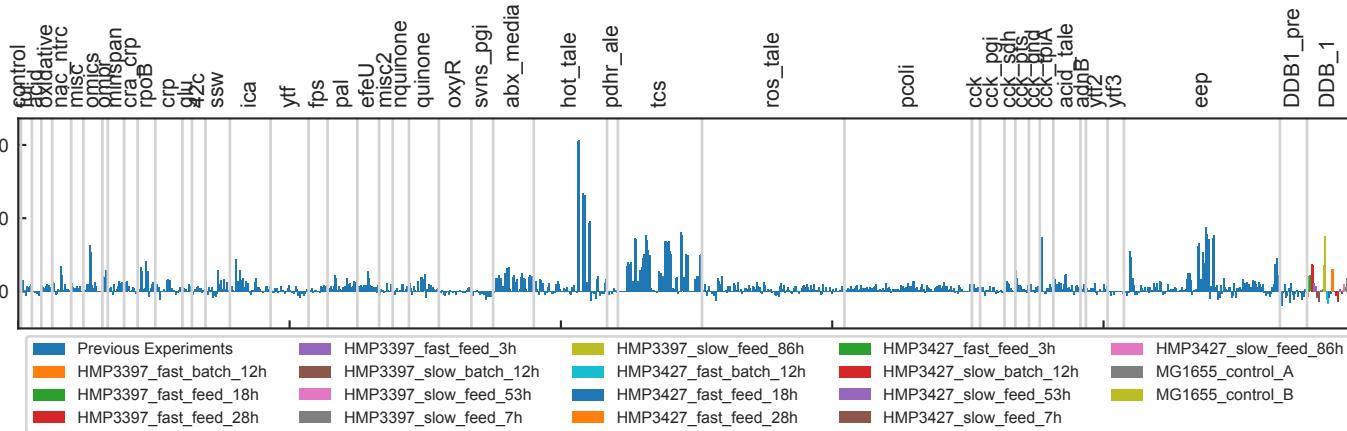
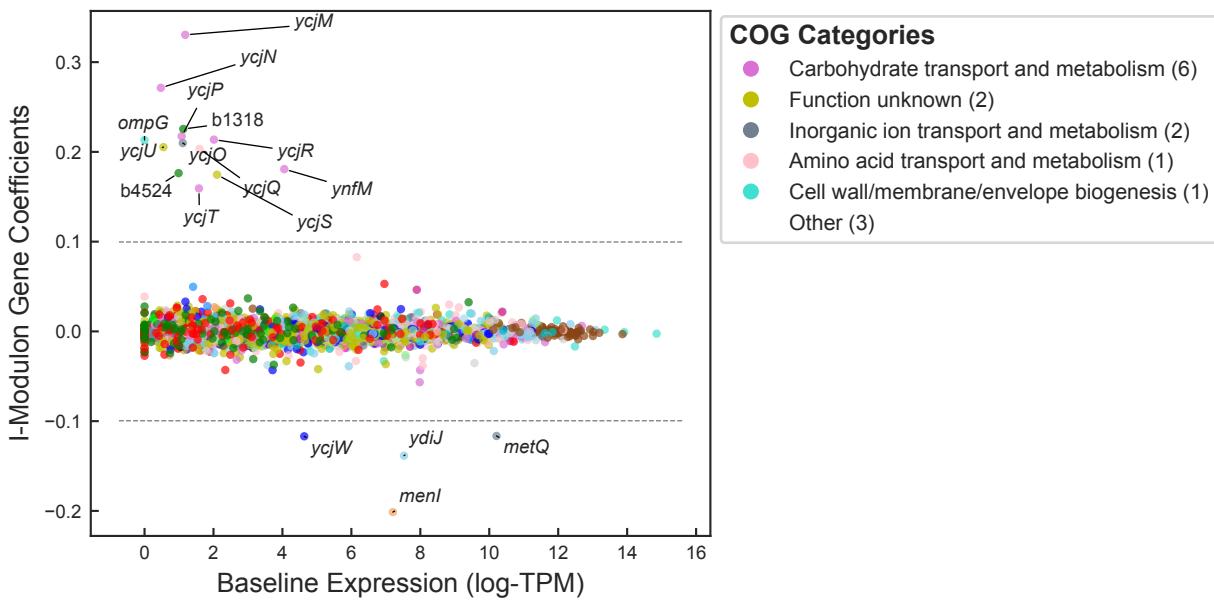


XyIR I-Modulon

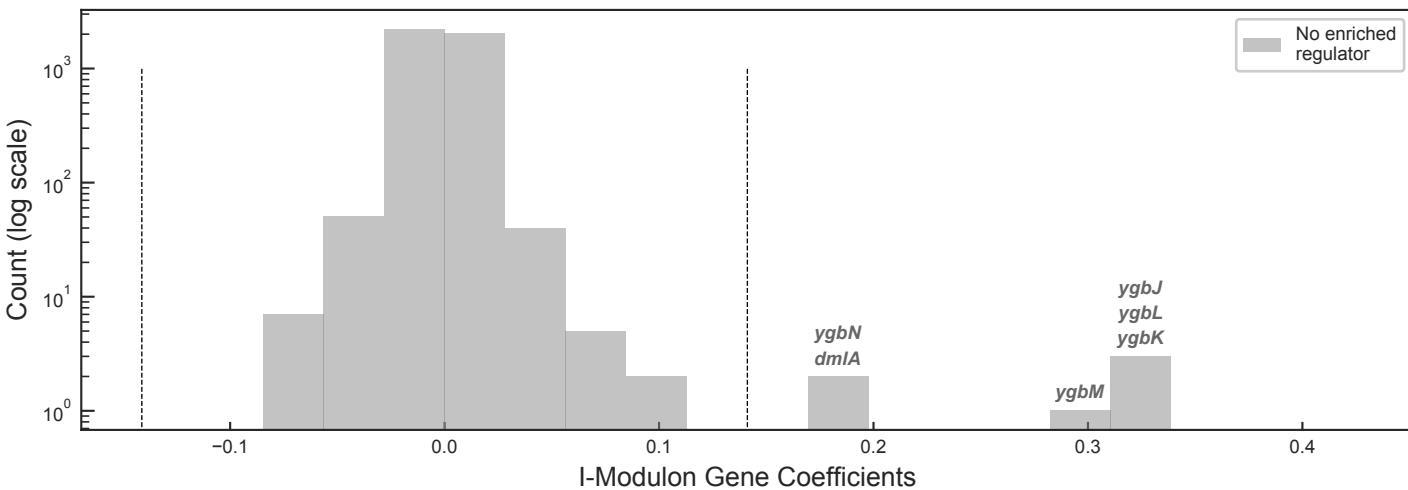
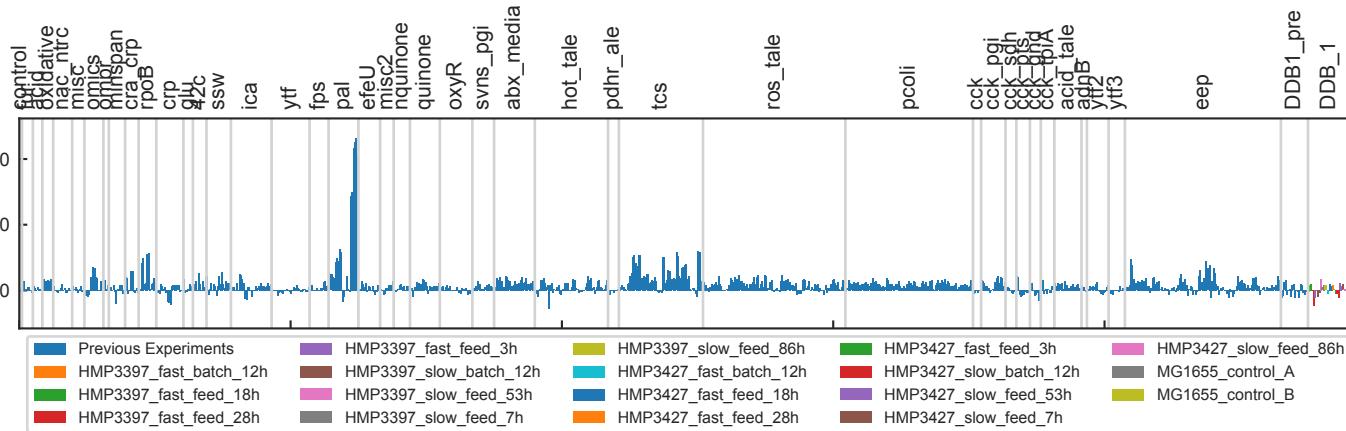
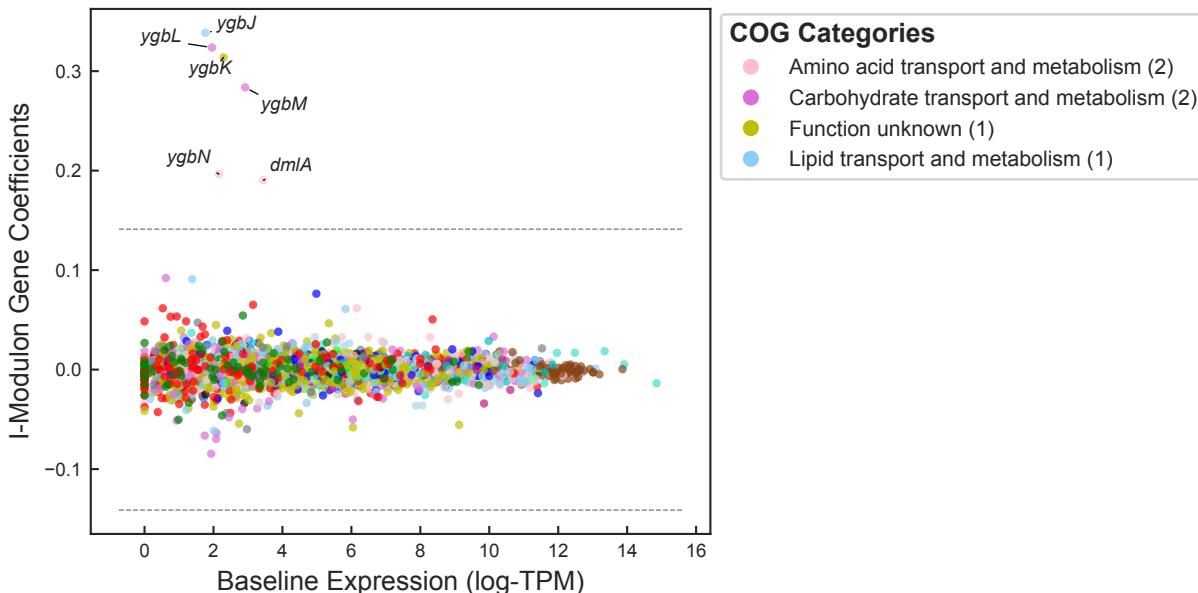
Regulated by: *xylR*



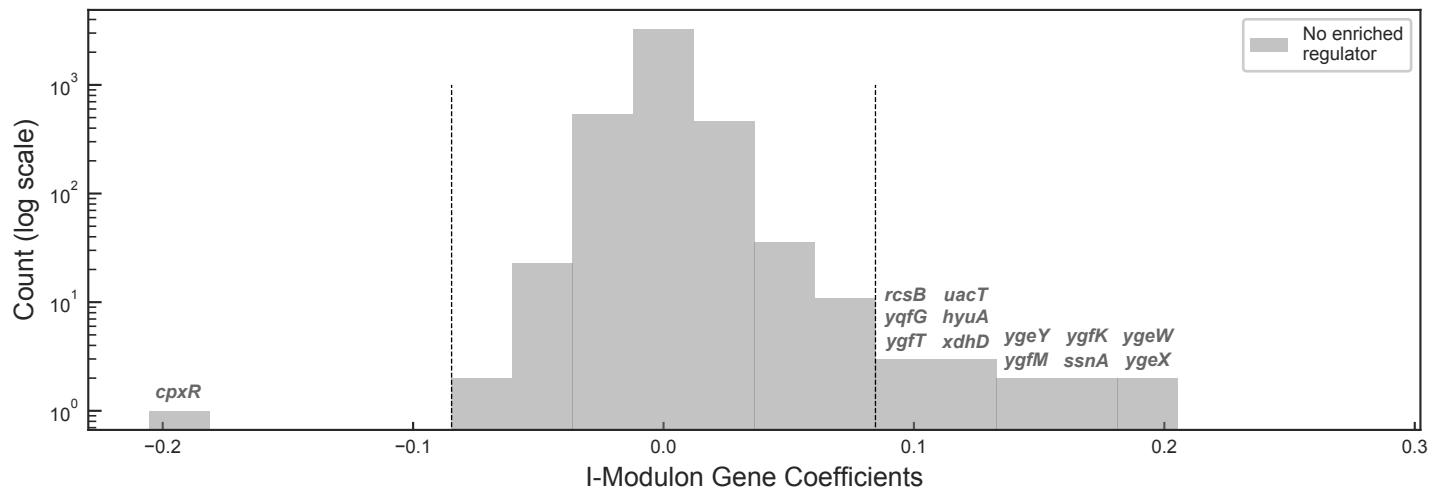
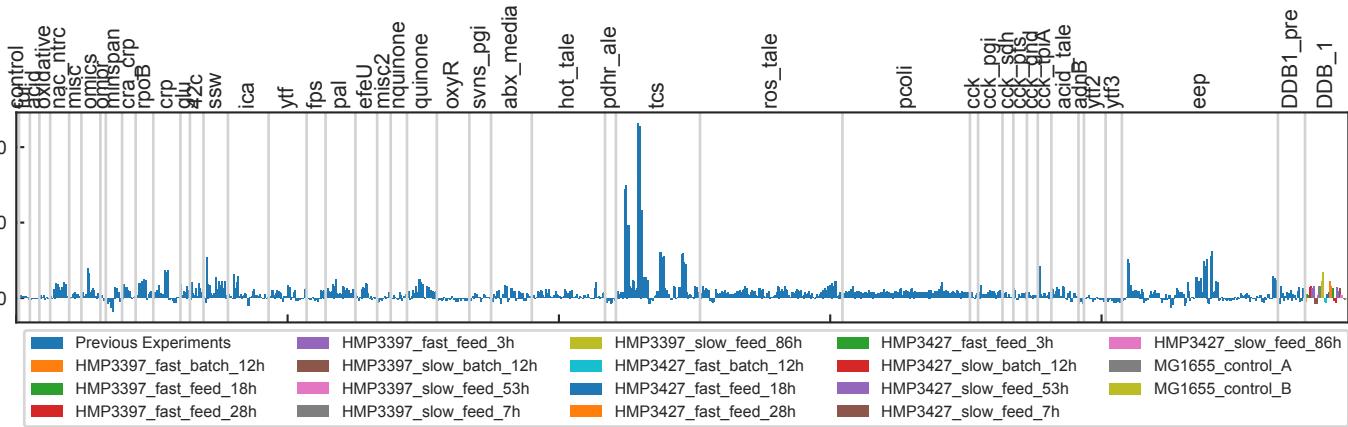
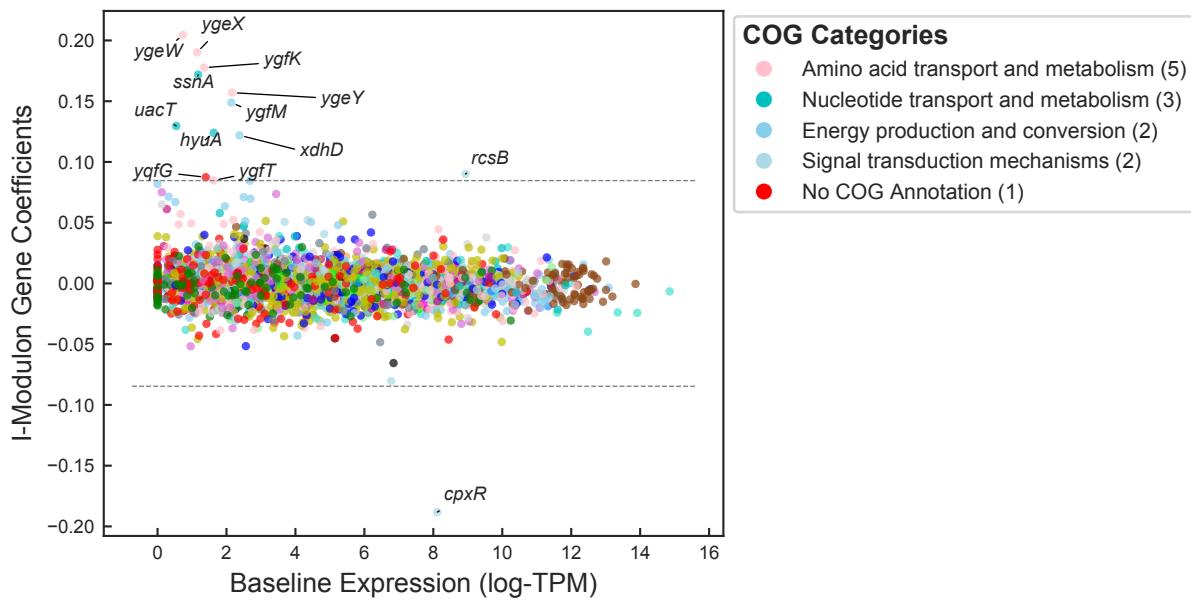
YcjW I-Modulon



YgbI I-Modulon

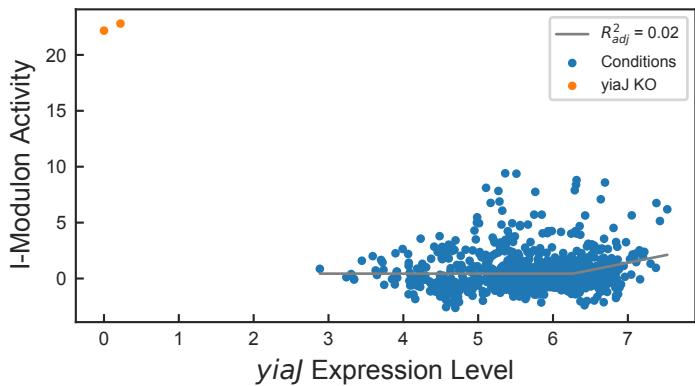
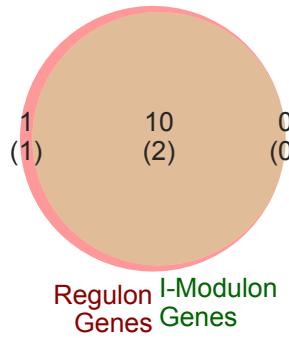
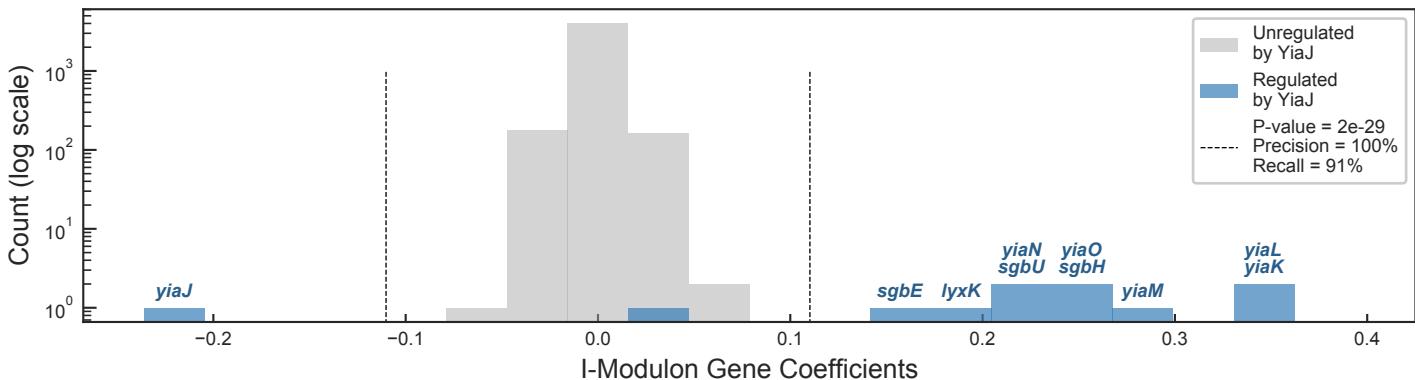
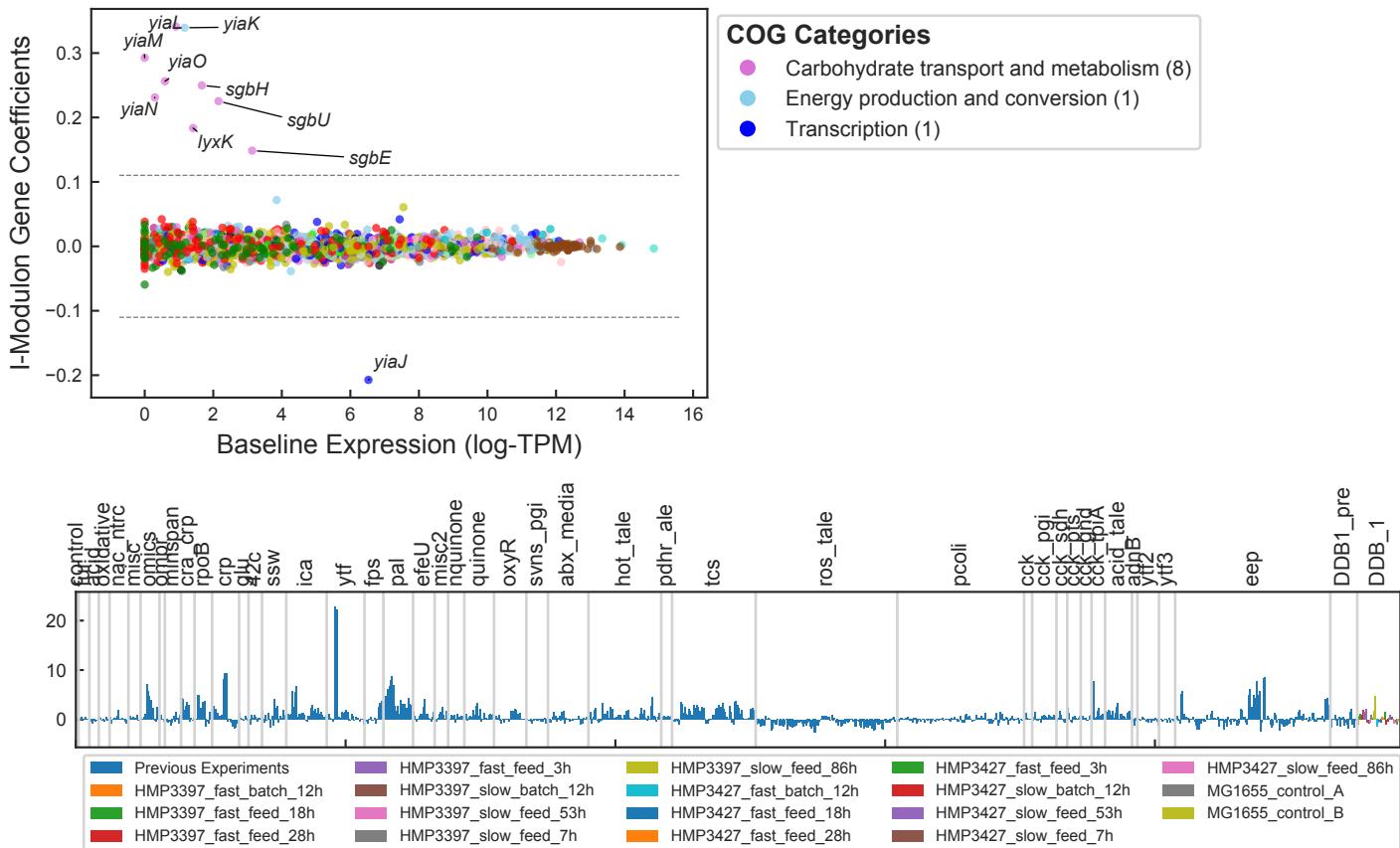


YgeV I-Modulon

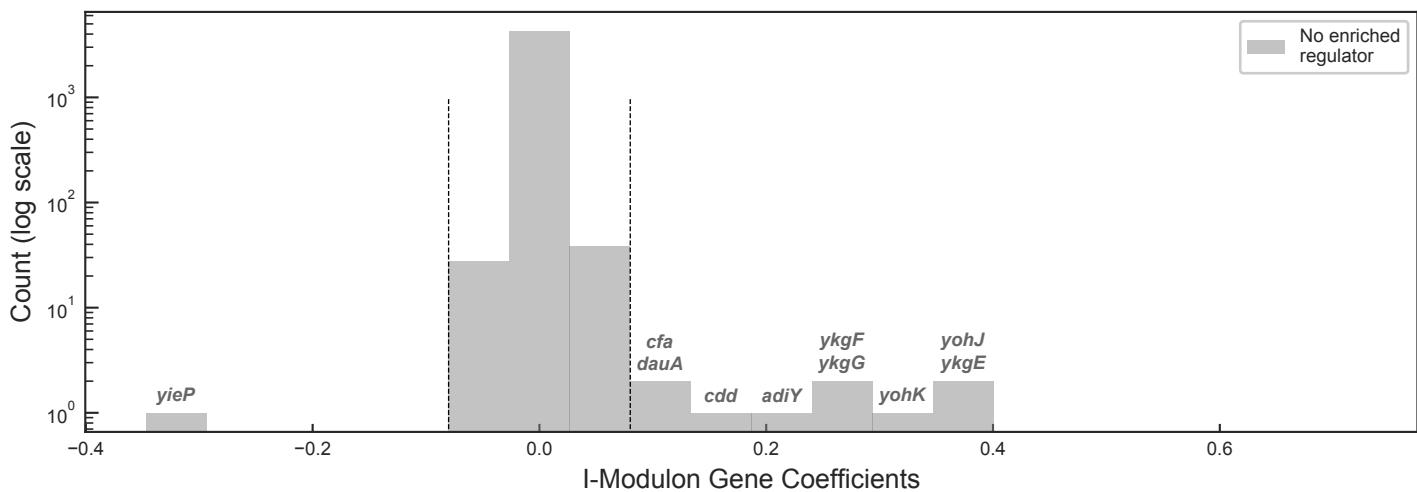
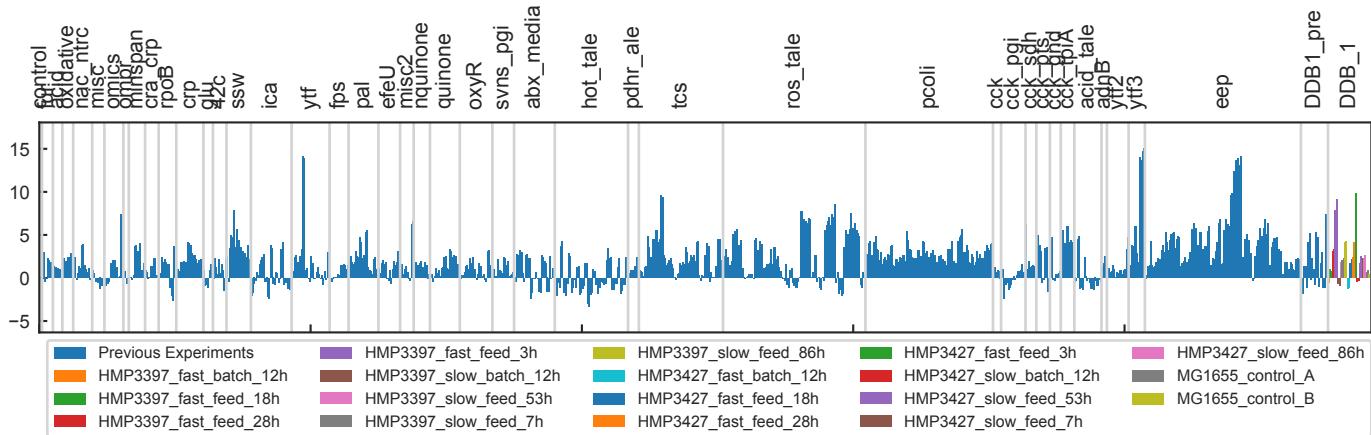
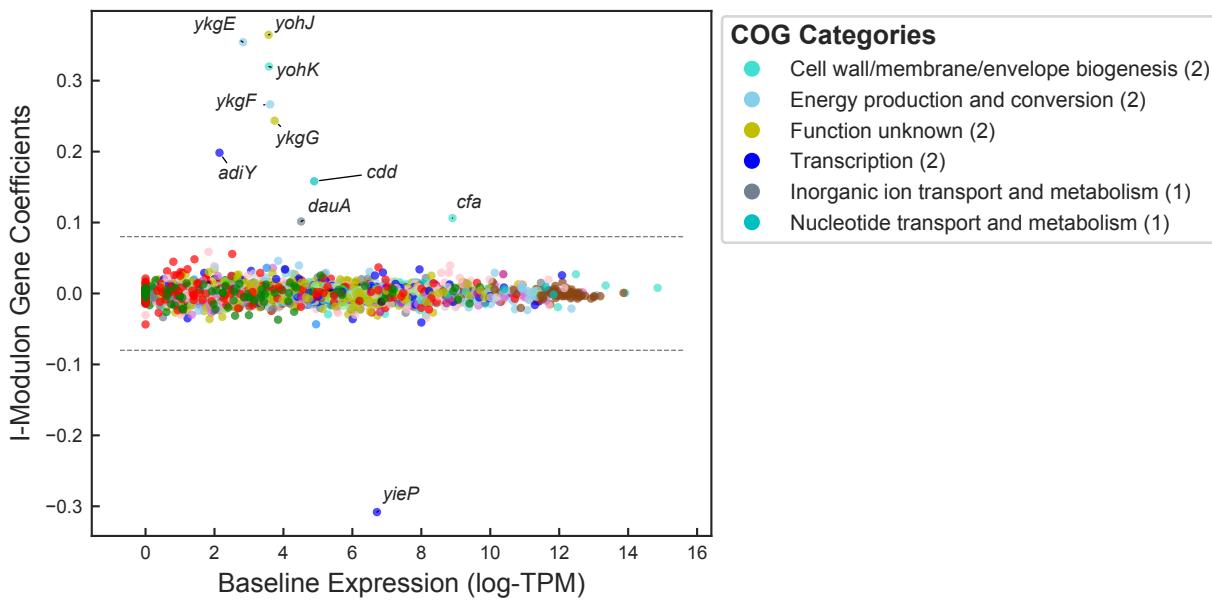


YiaJ I-Modulon

Regulated by: *yiaJ*

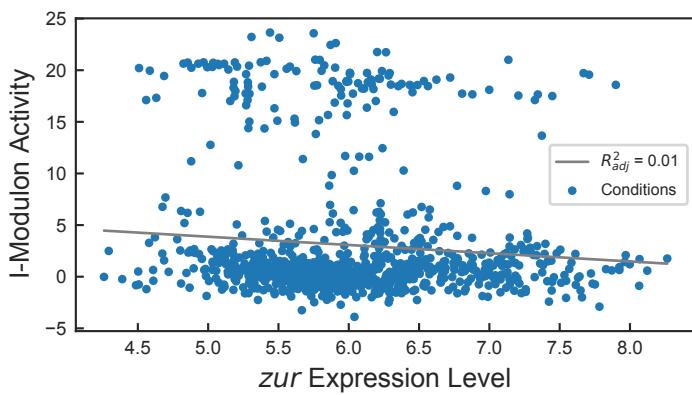
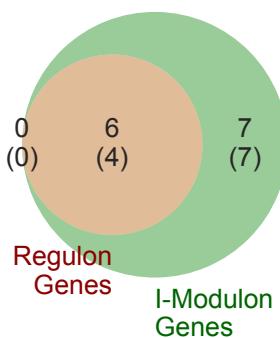
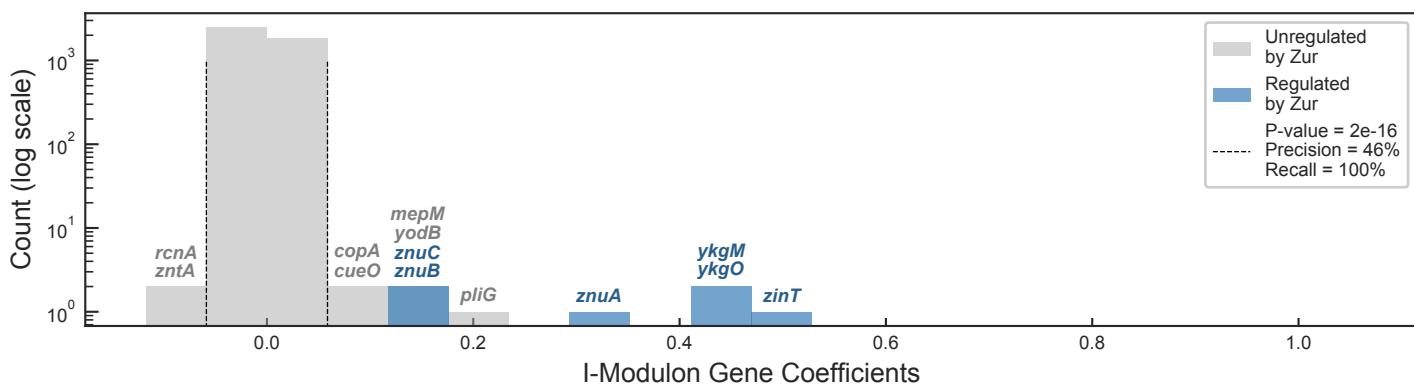
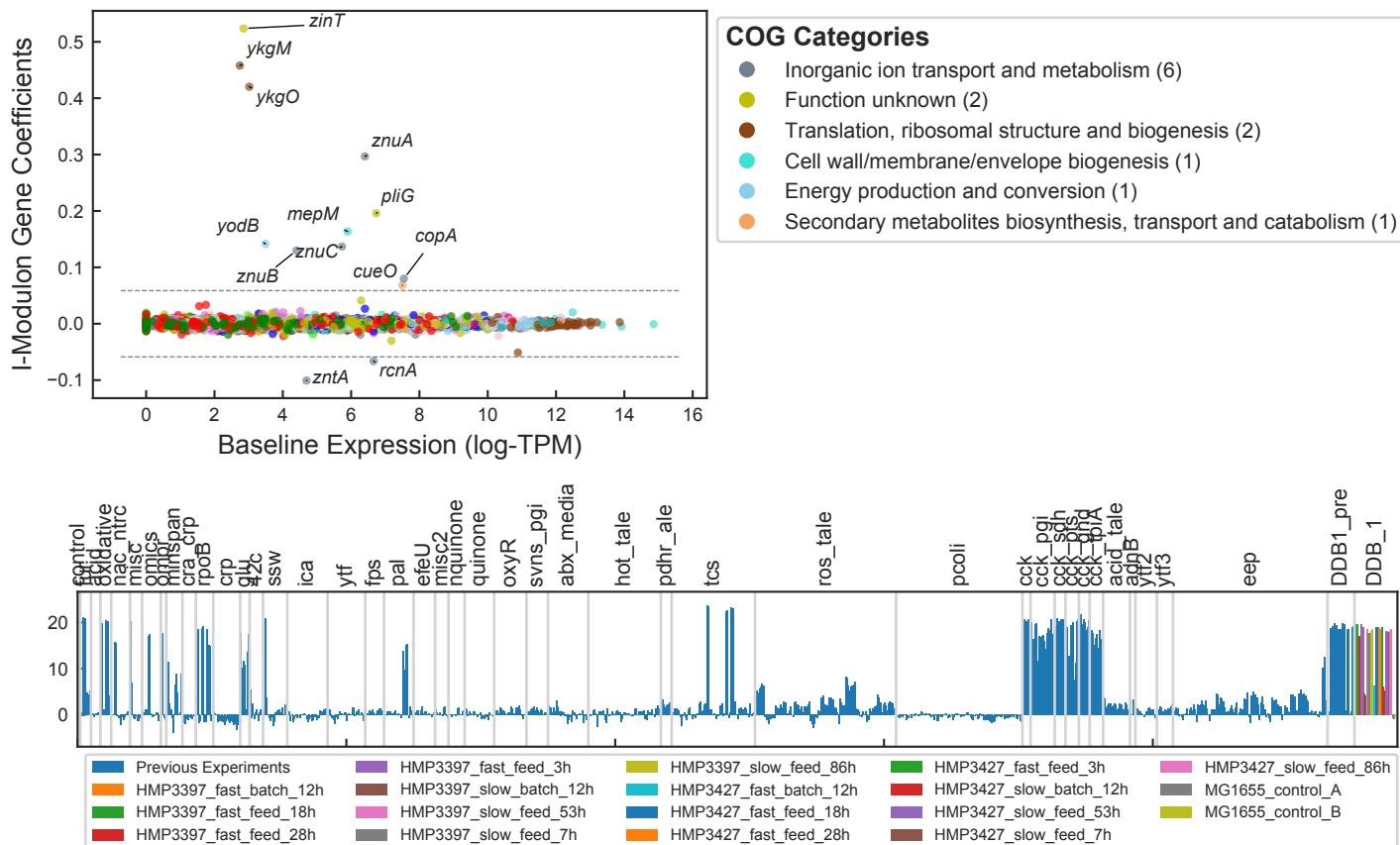


YieP I-Modulon

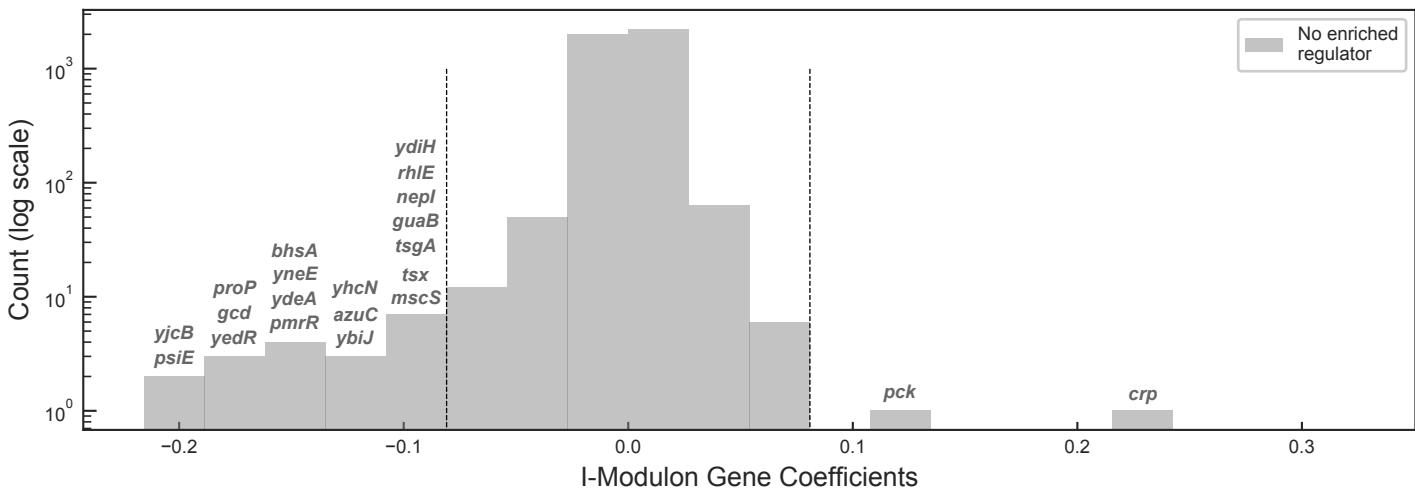
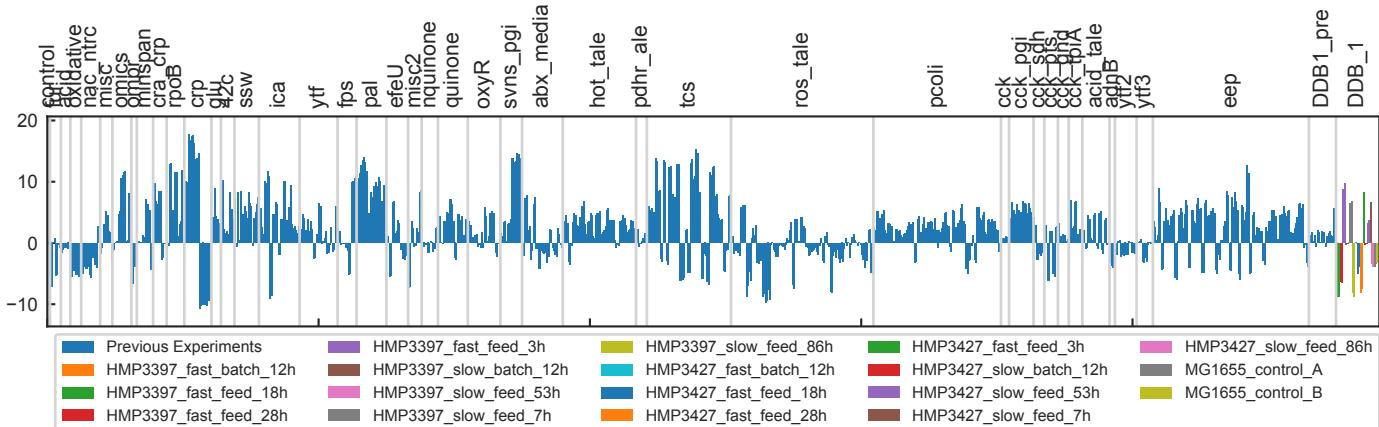
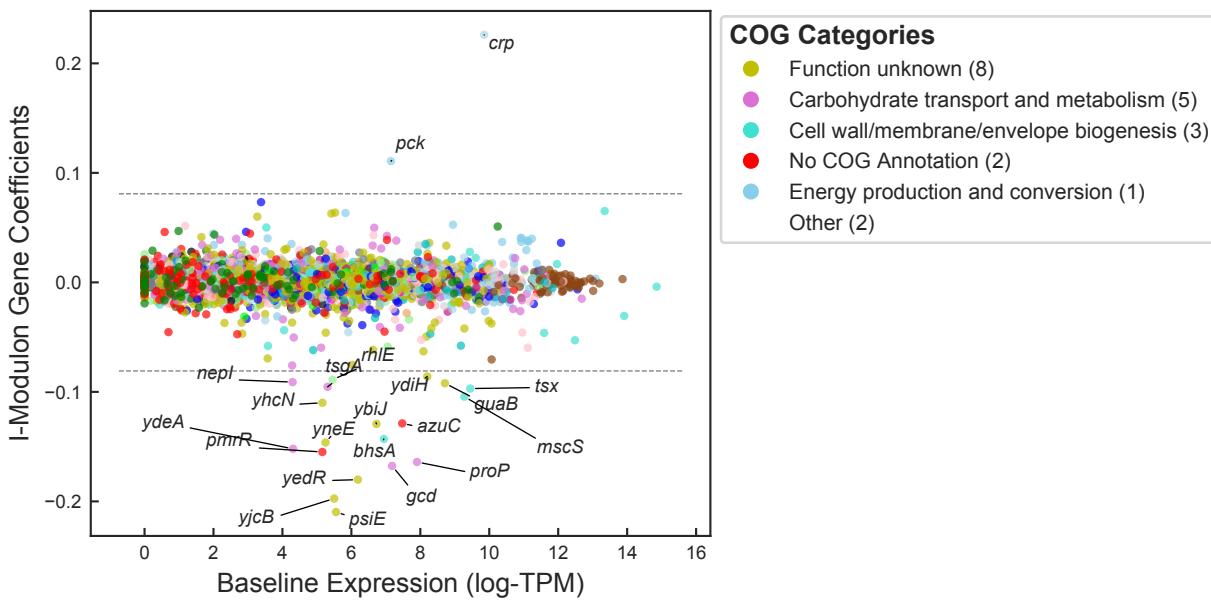


Zur I-Modulon

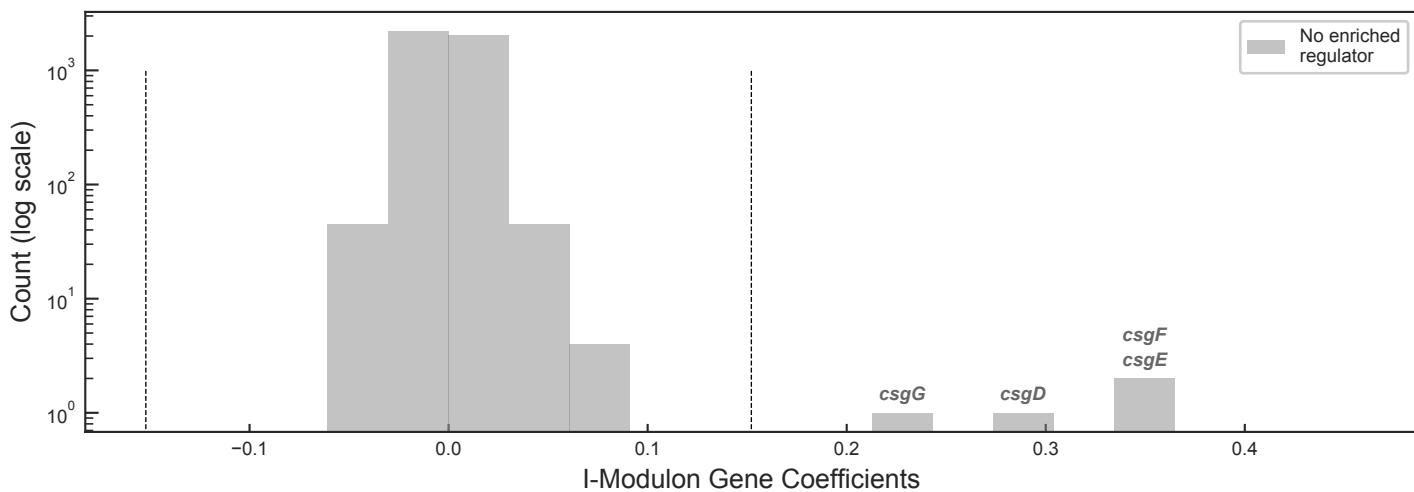
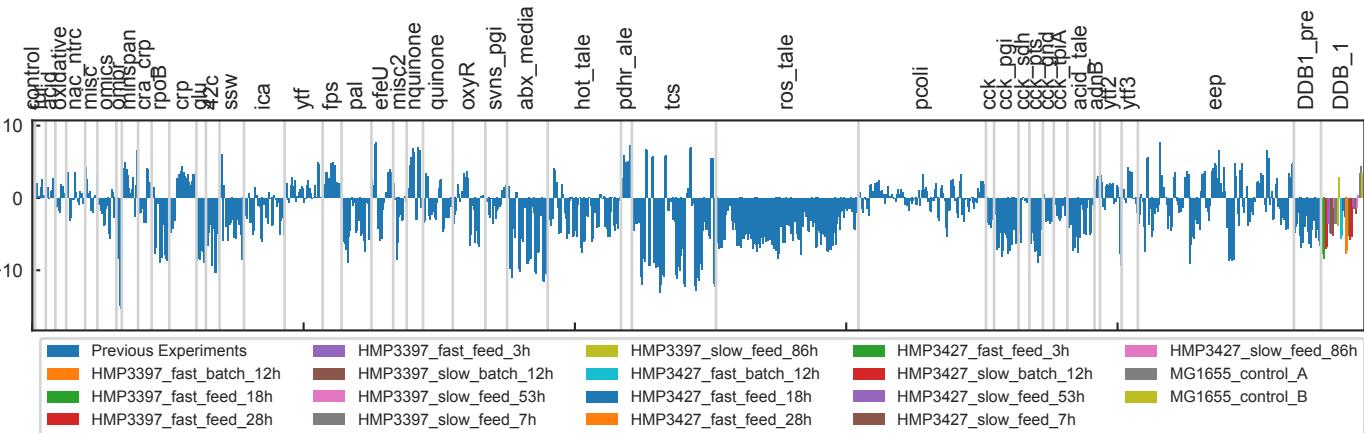
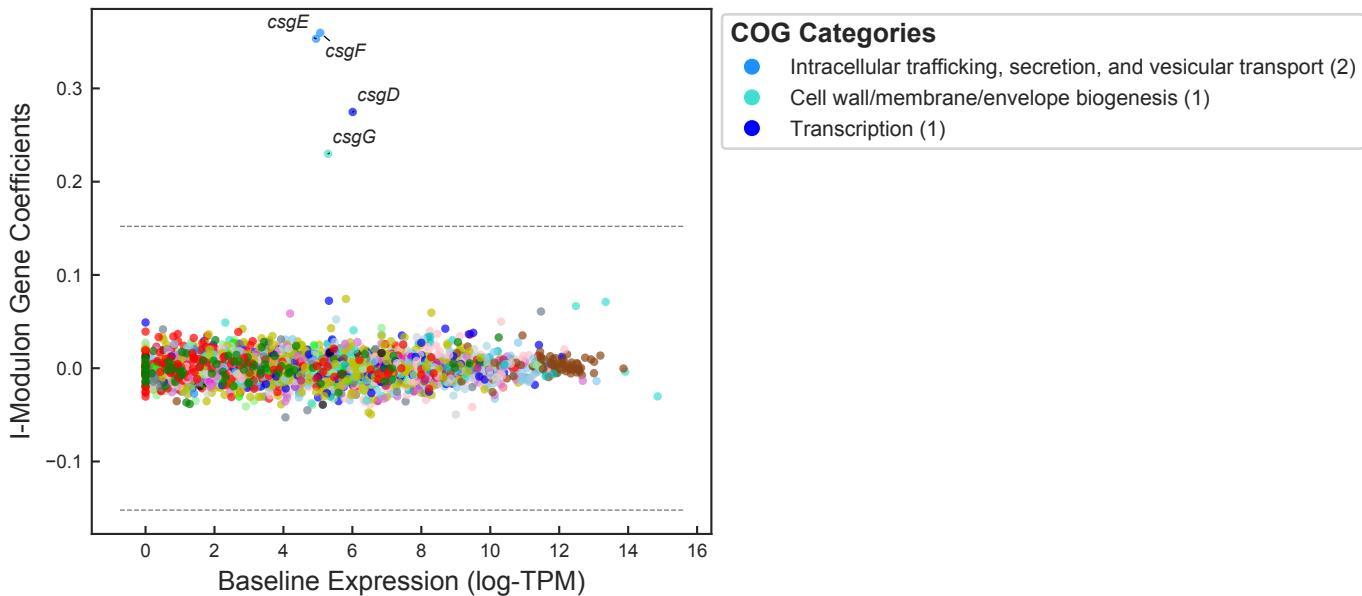
Regulated by: zur



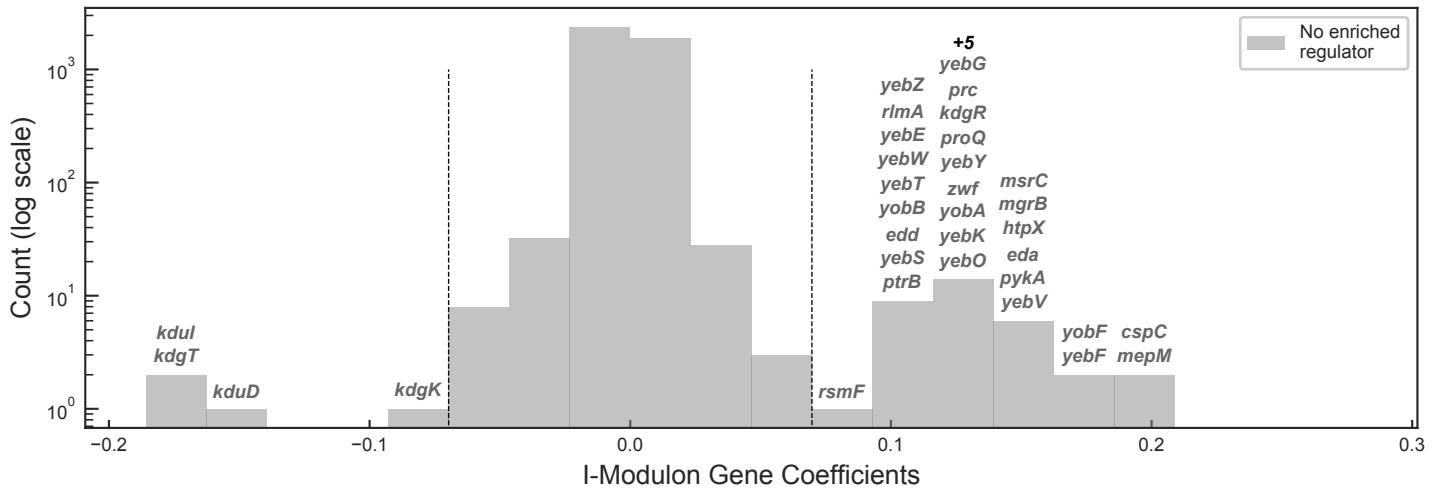
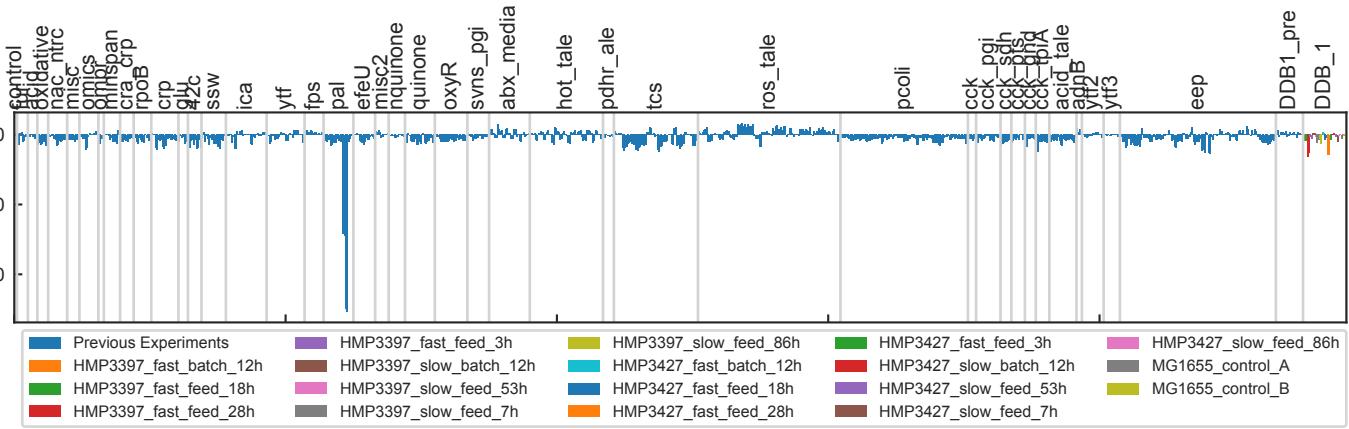
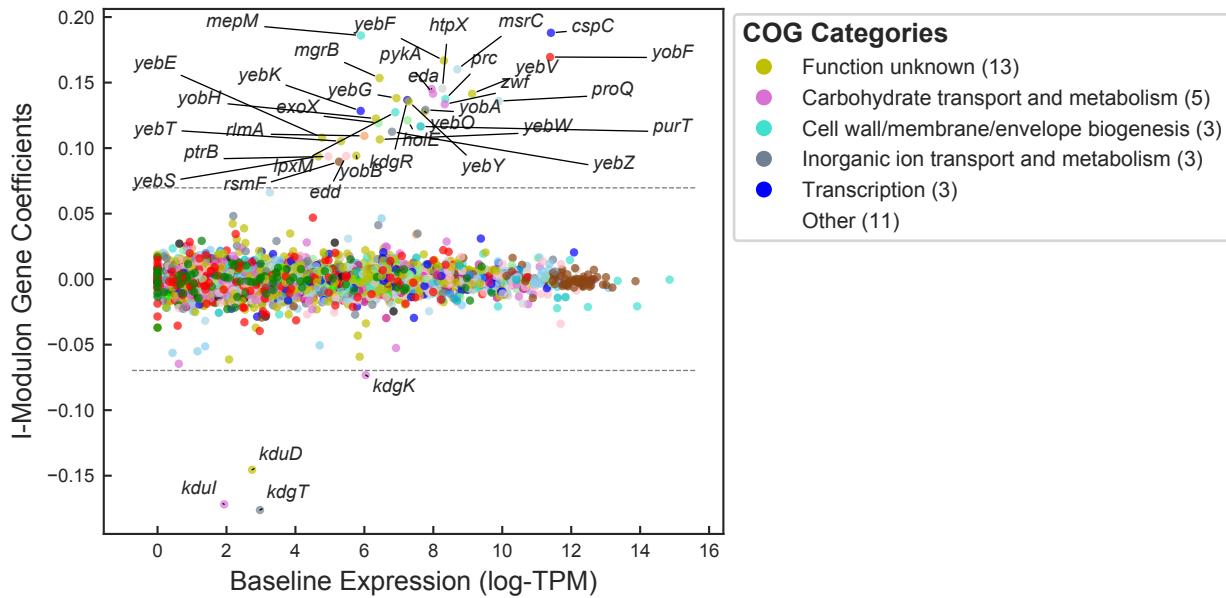
crp – KO I-Modulon



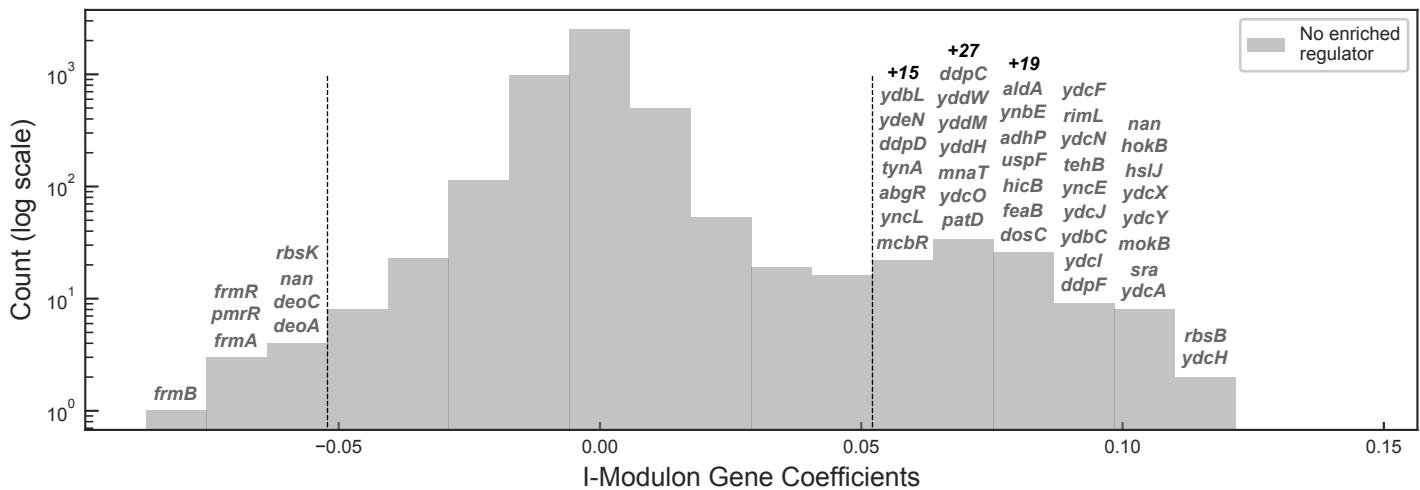
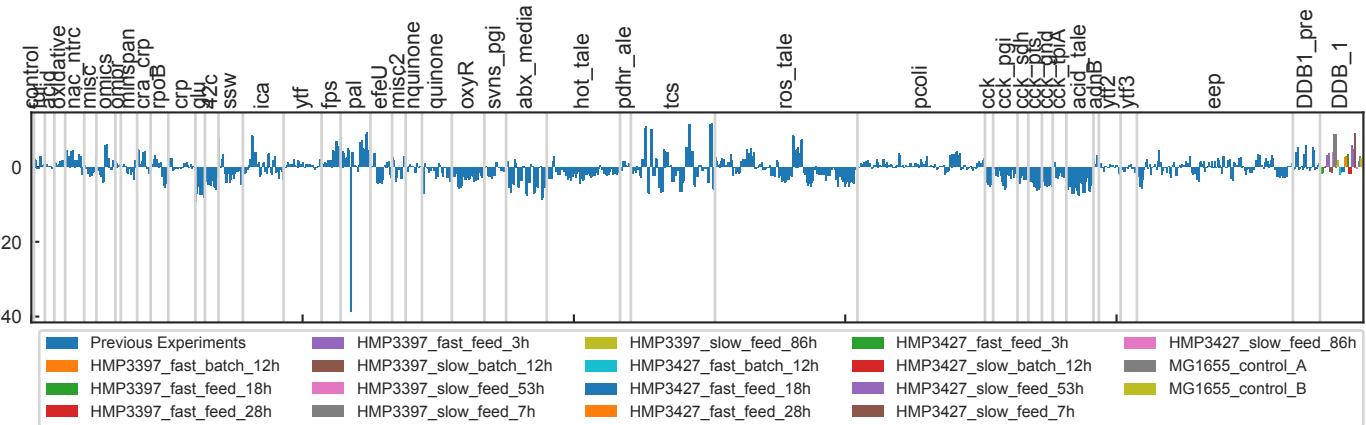
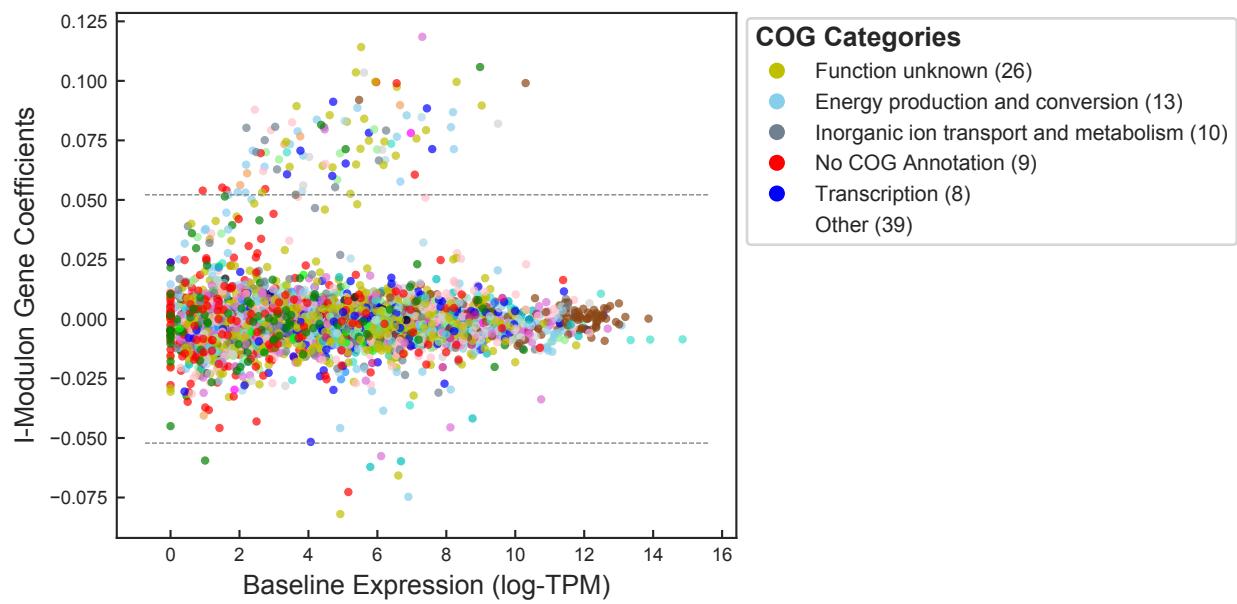
curli I-Modulon



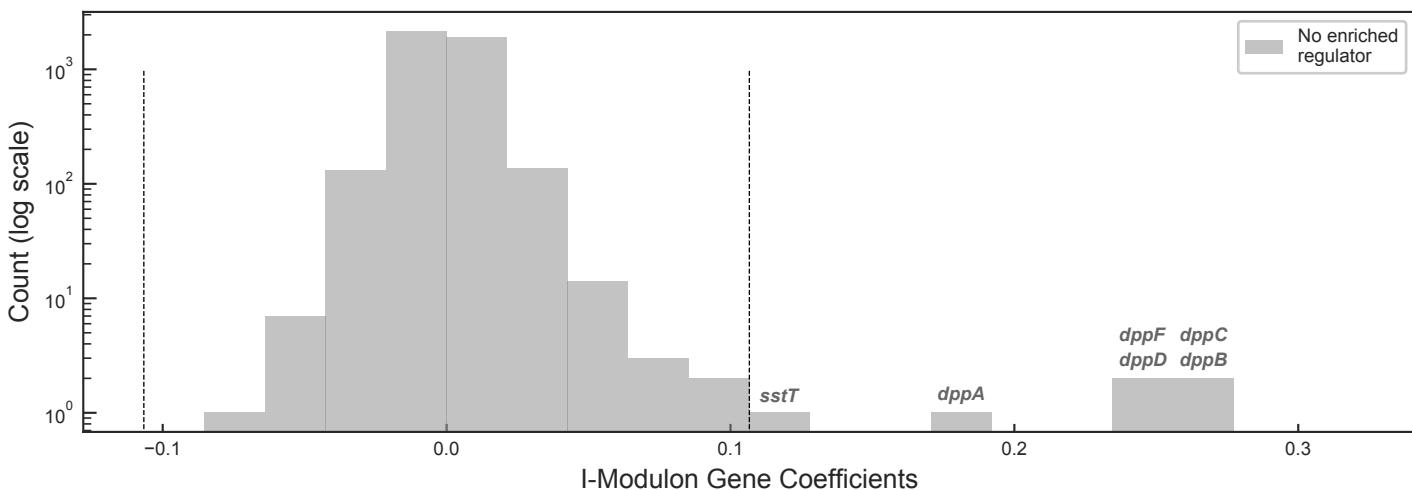
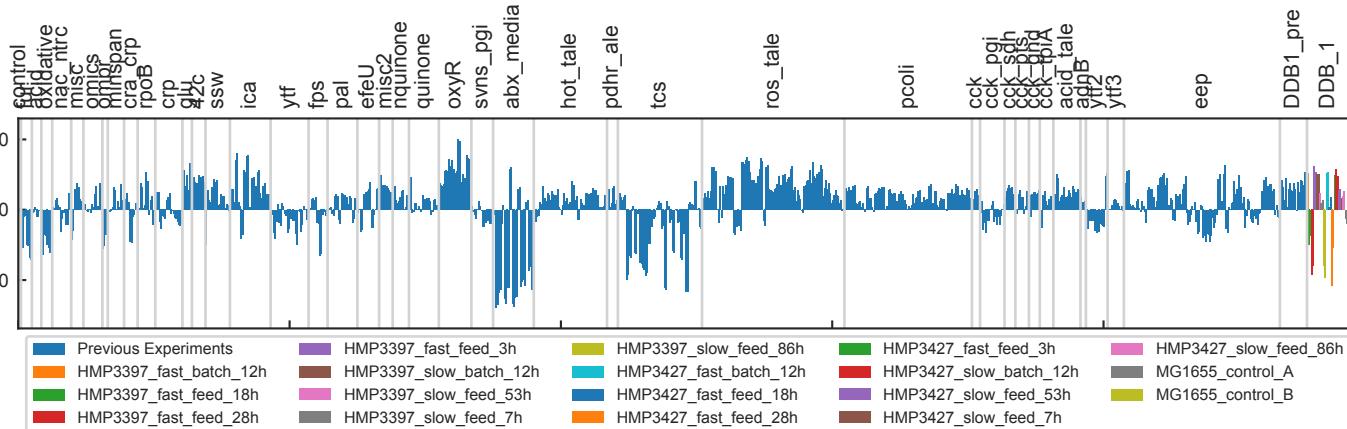
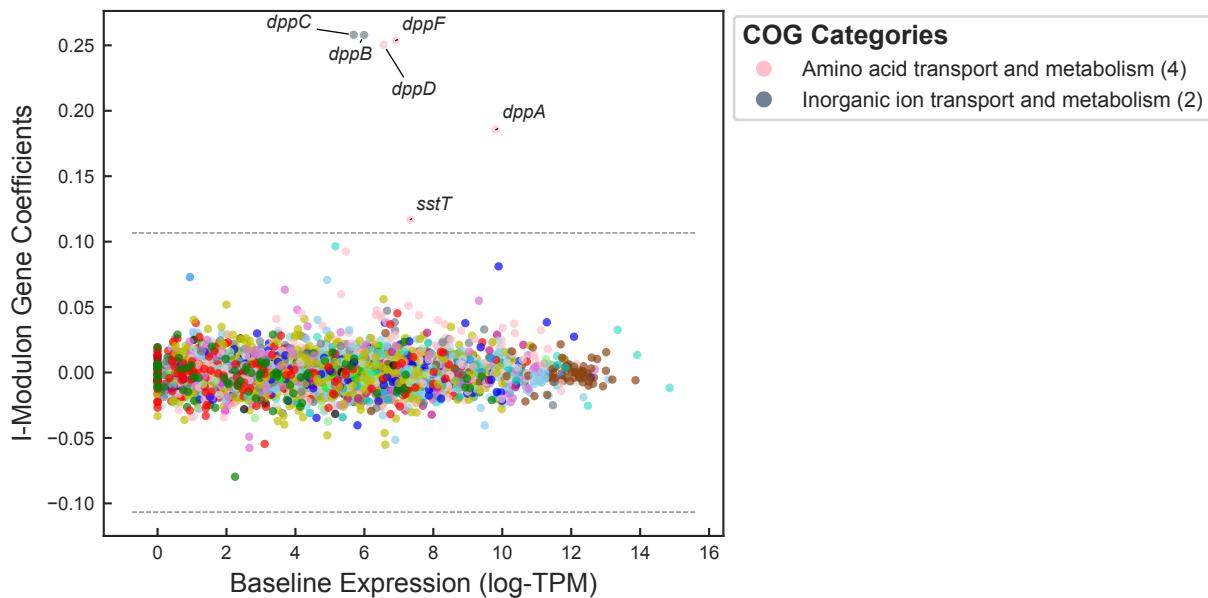
deletion – 1 I-Modulon



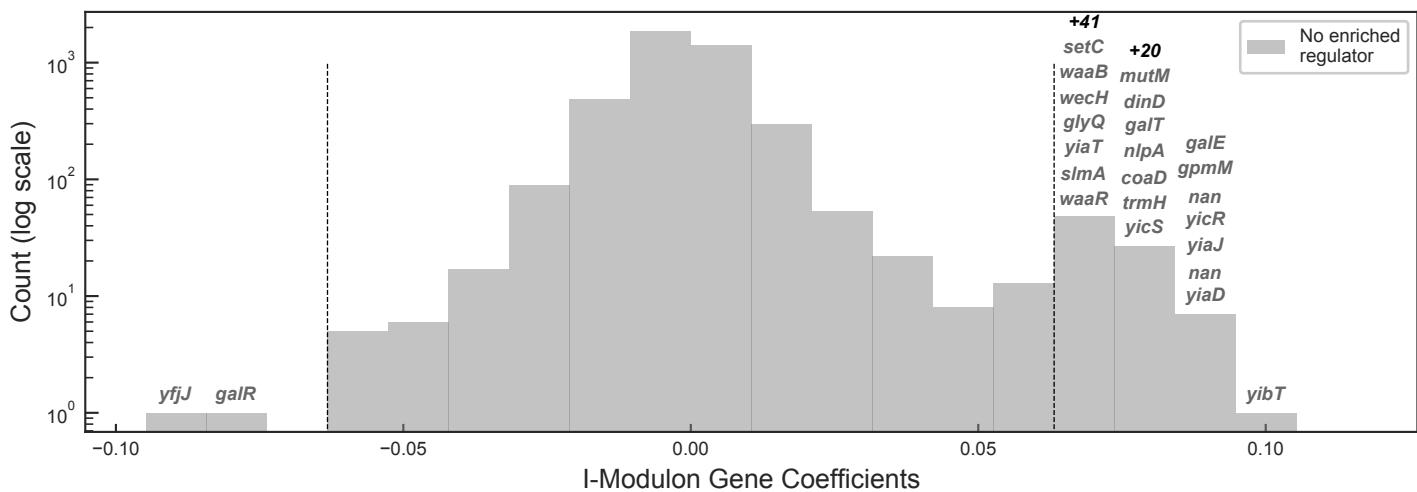
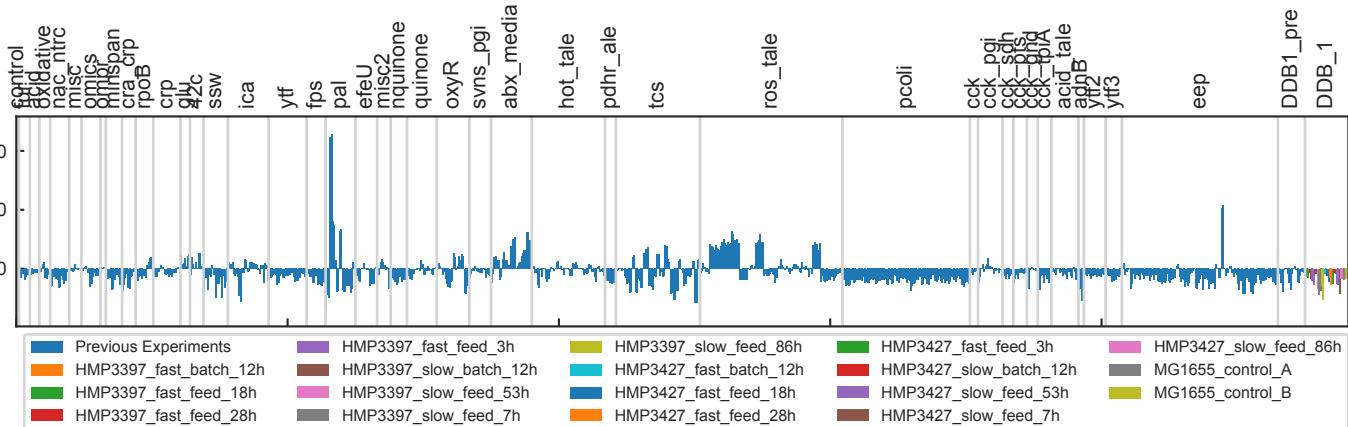
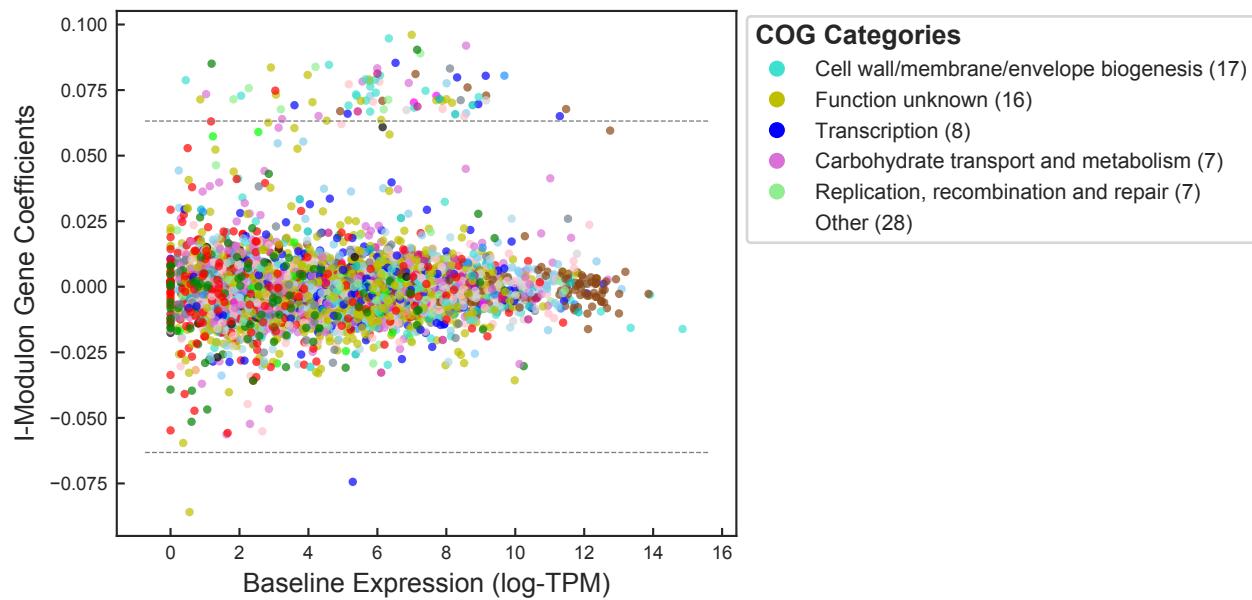
deletion – 2 I-Modulon



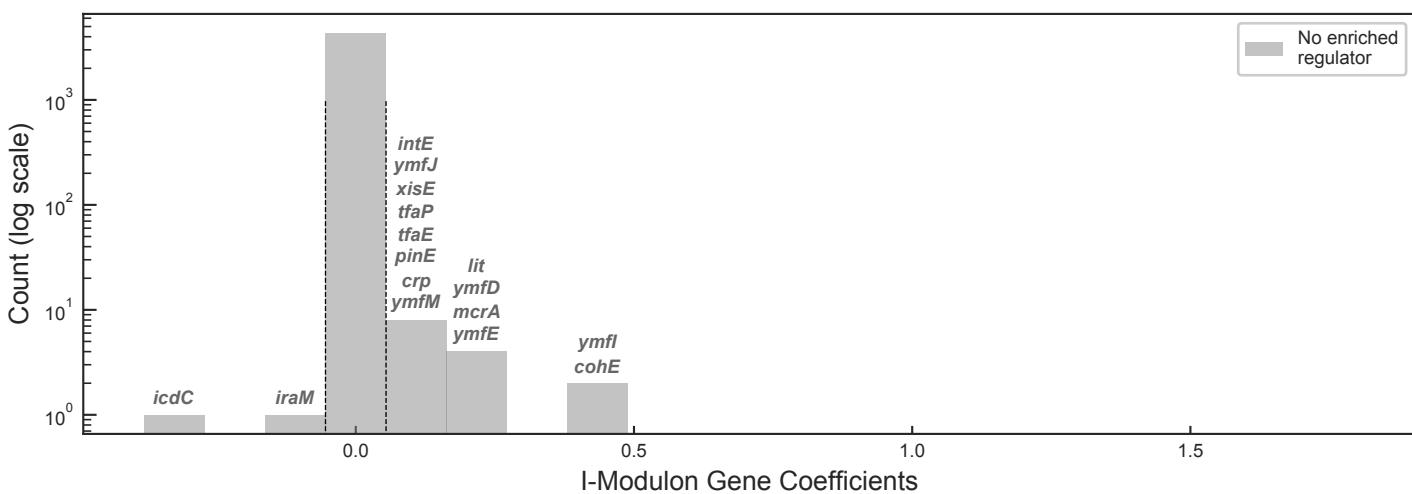
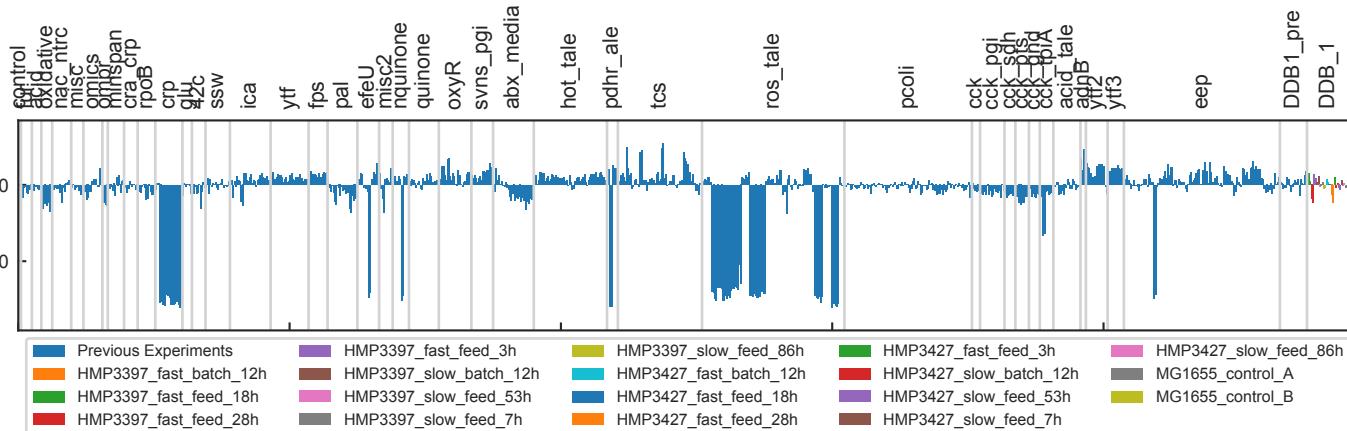
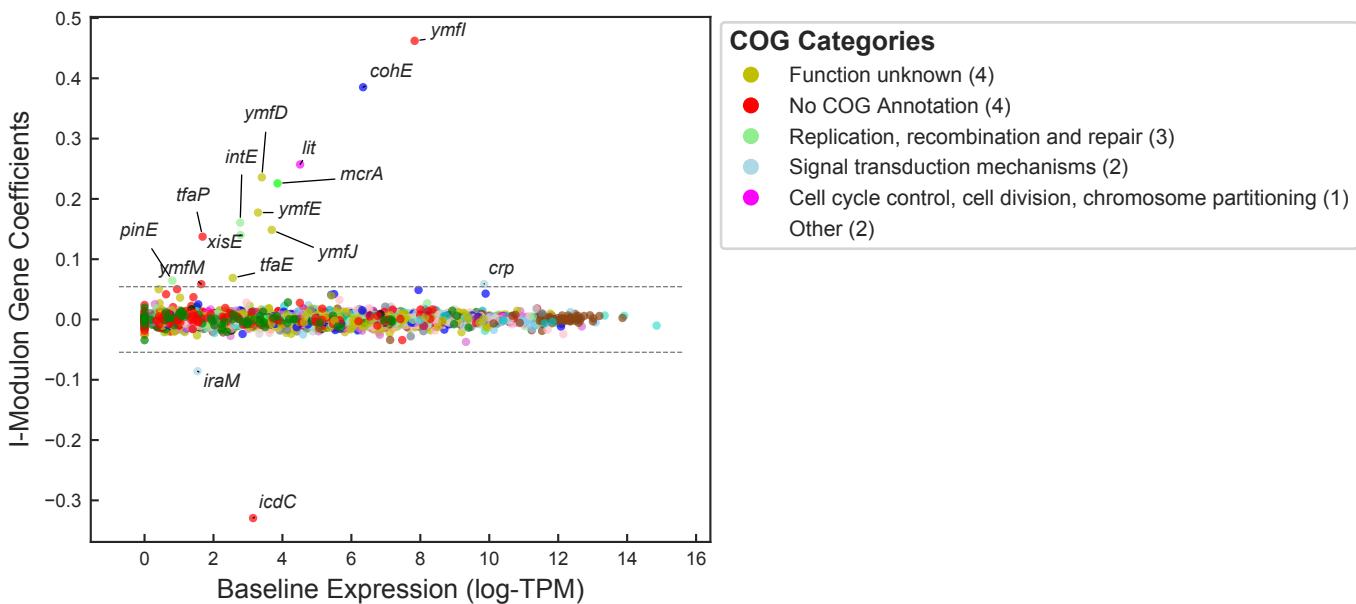
dppABCDF I-Modulon



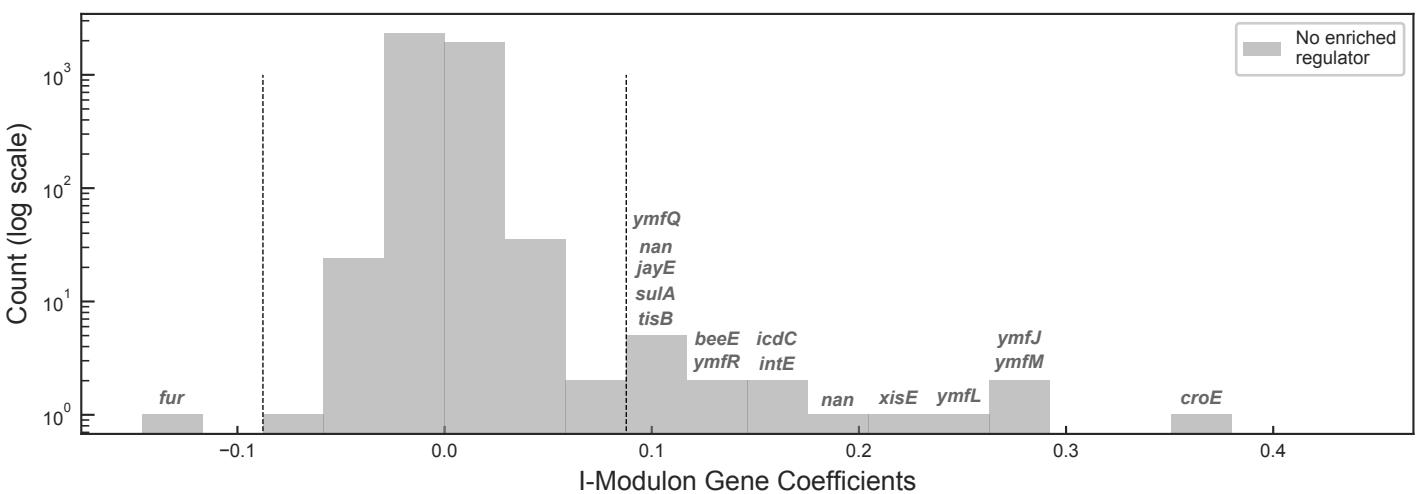
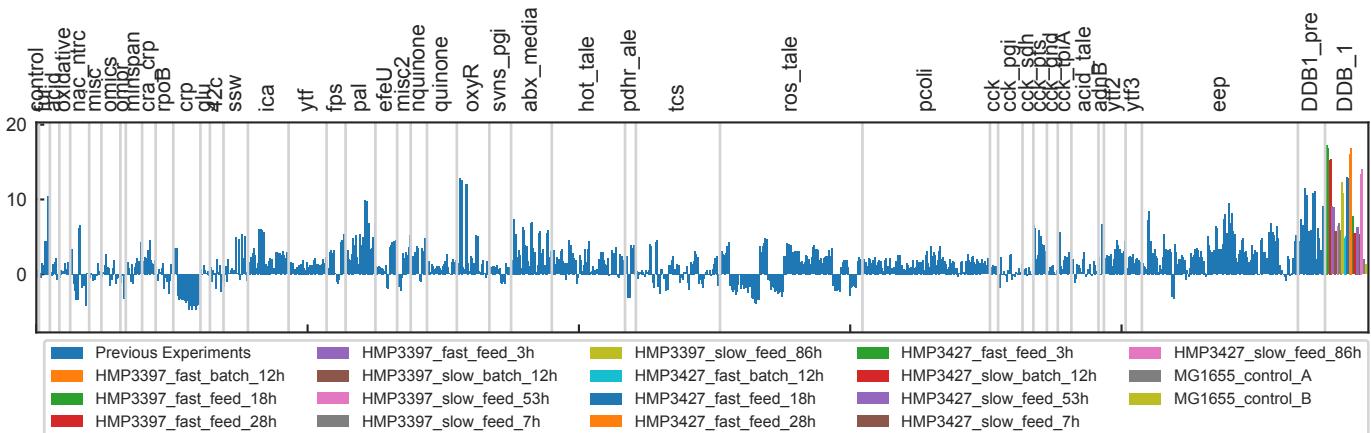
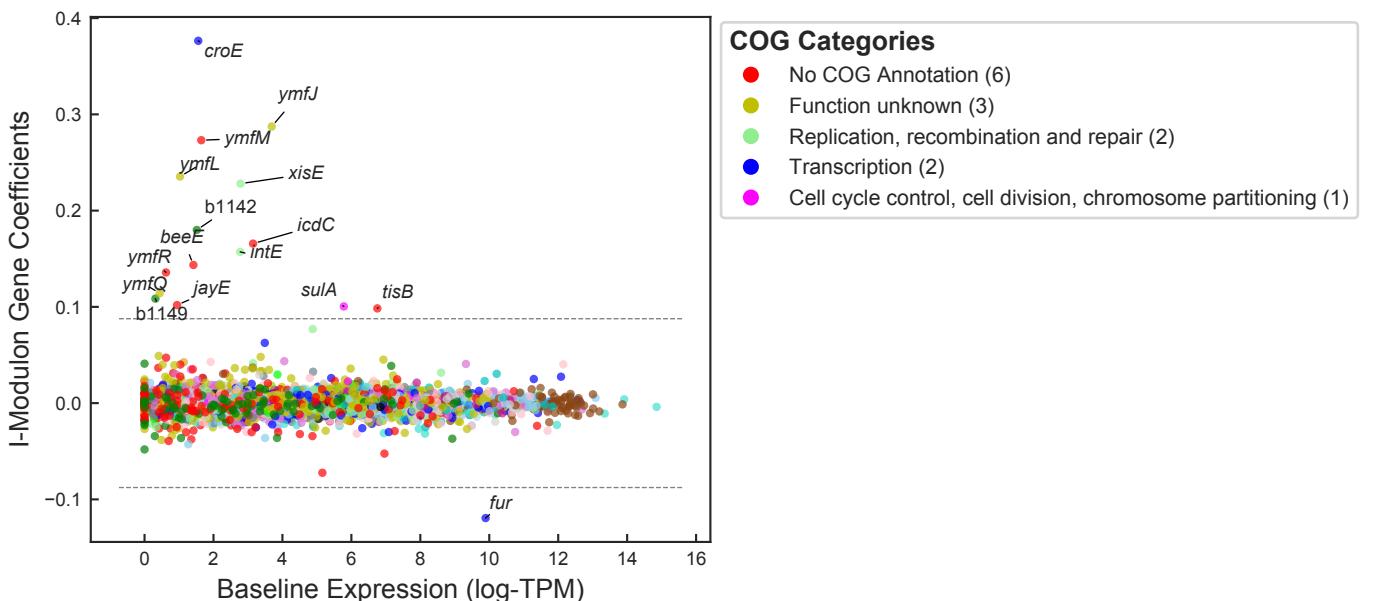
duplication – 1 I-Modulon



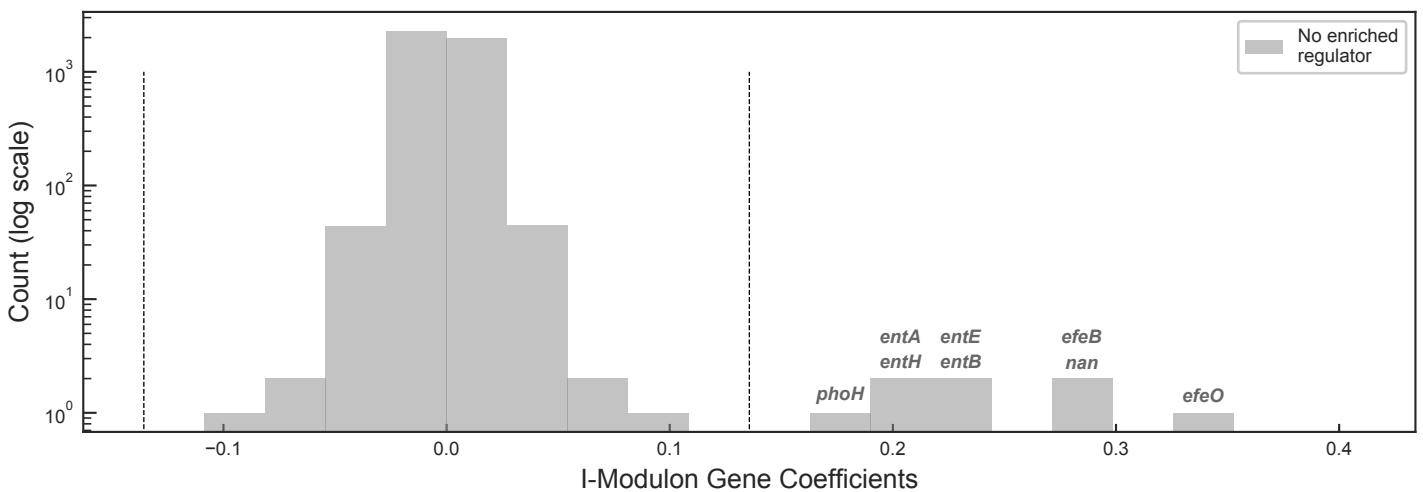
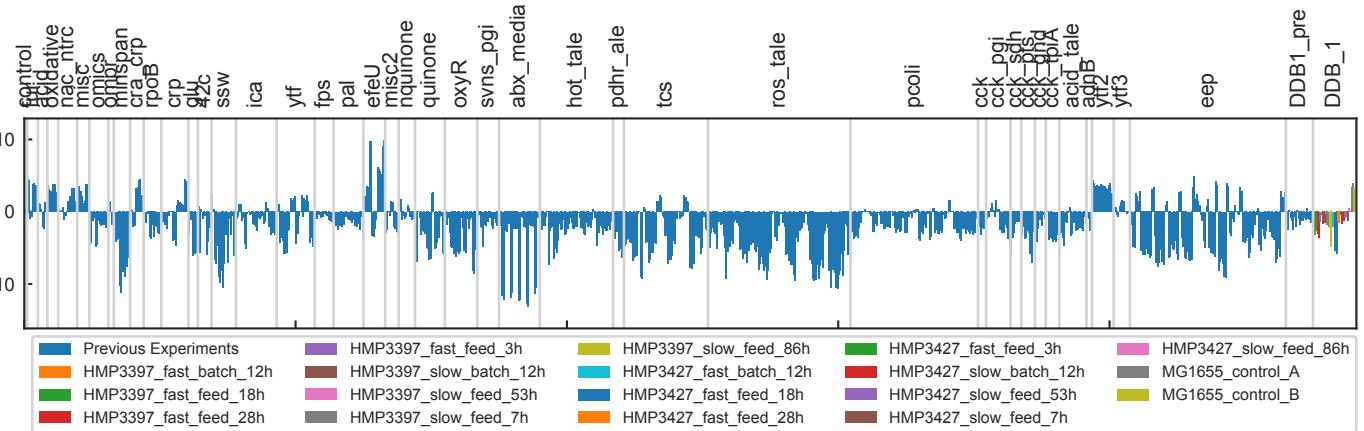
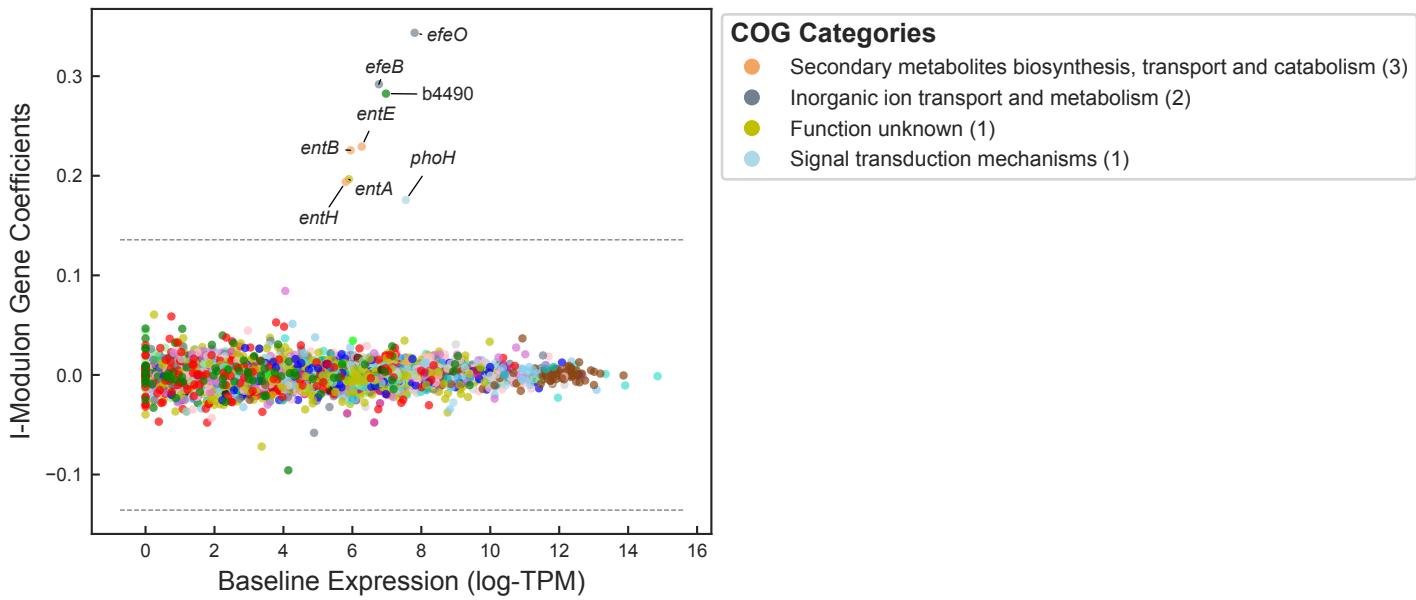
e14 – deletion I-Modulon



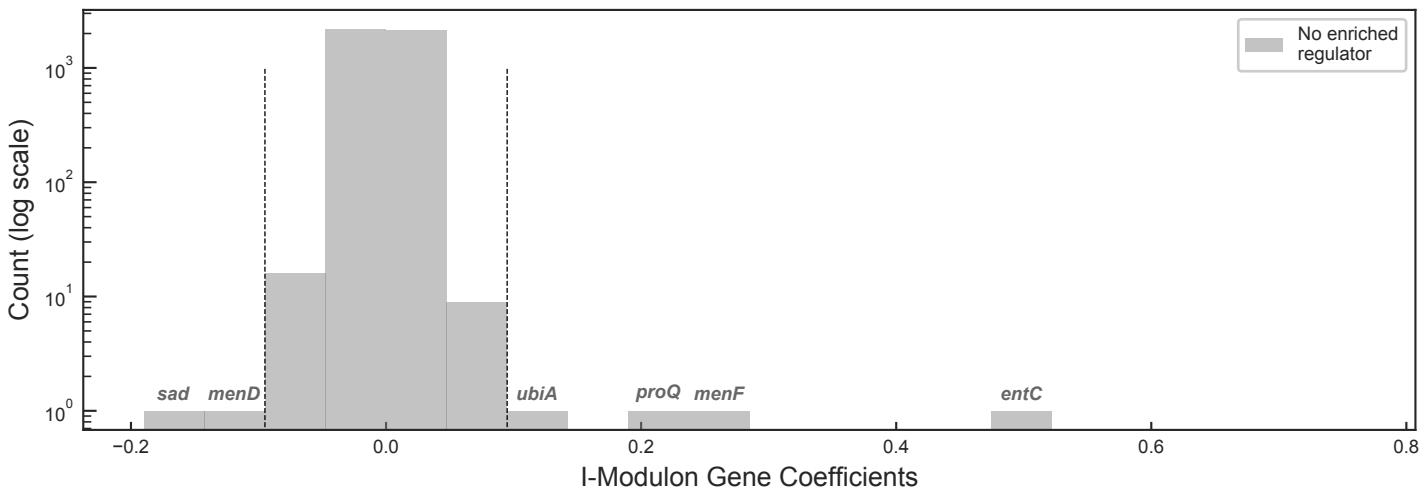
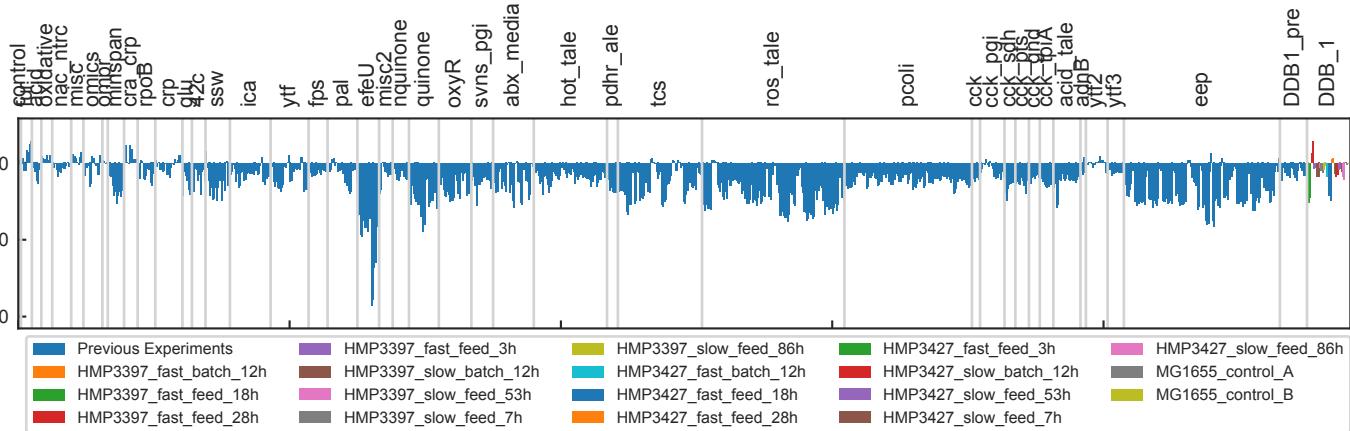
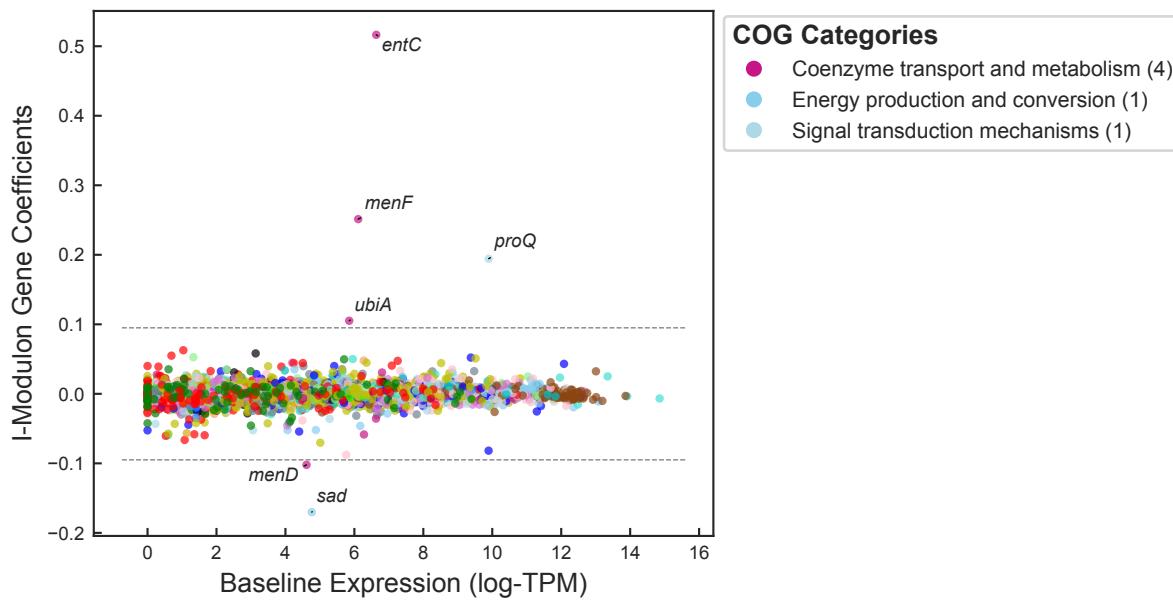
e14 – prophage I-Modulon



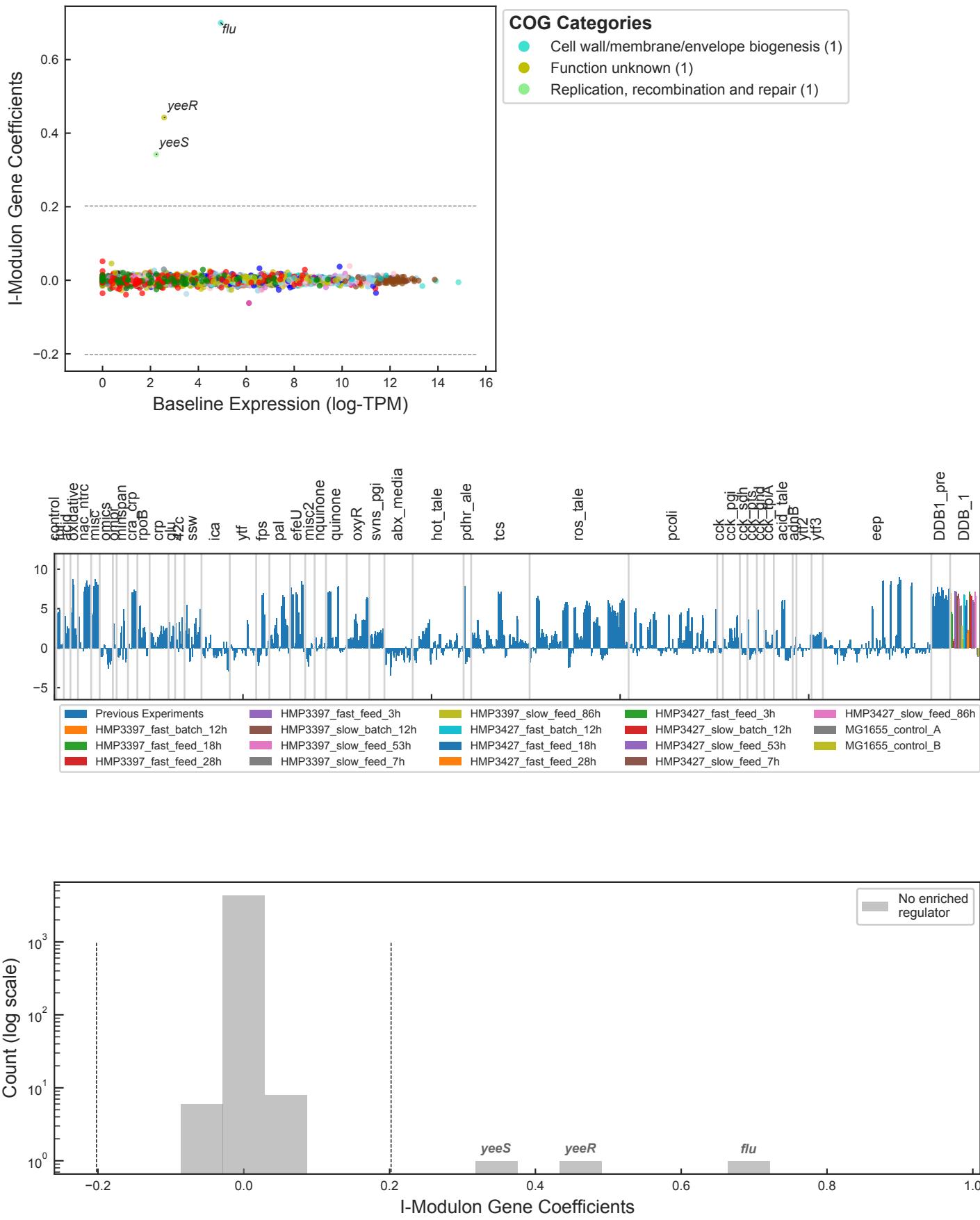
efeU – repair I-Modulon



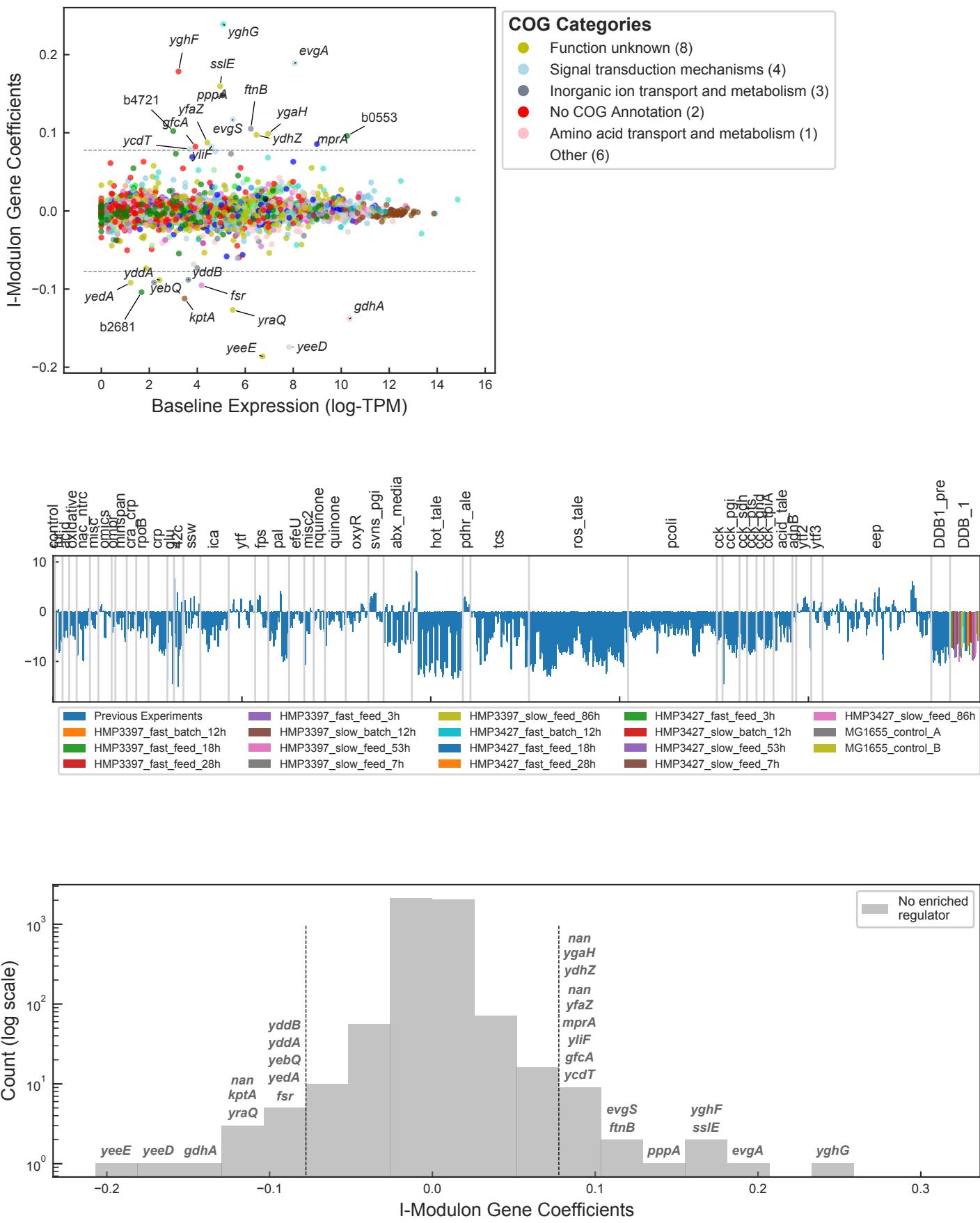
entC – KO I-Modulon



flu – yeeRS I-Modulon

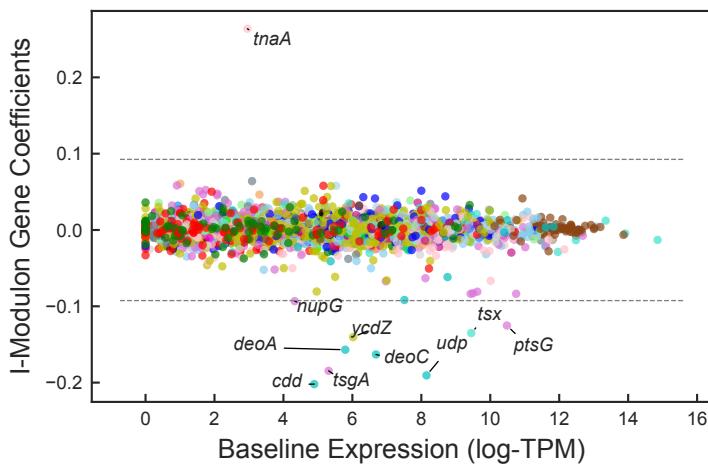


membrane I-Modulon



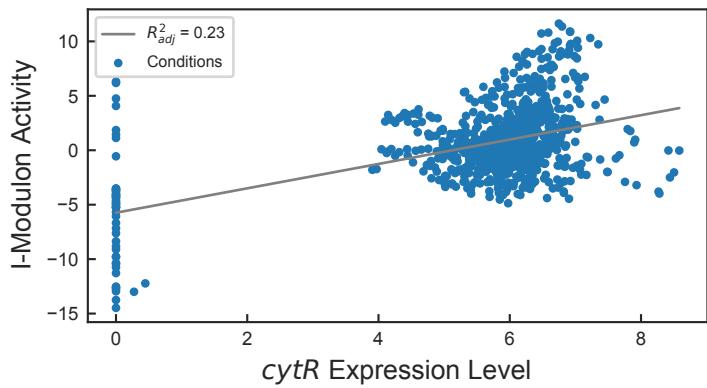
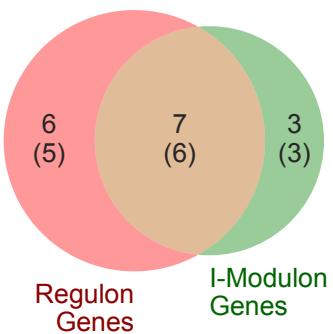
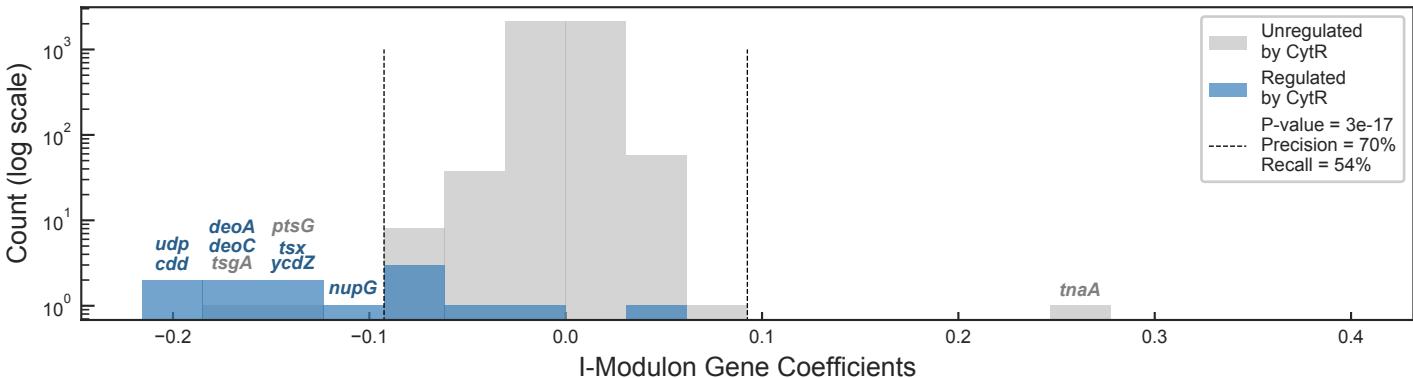
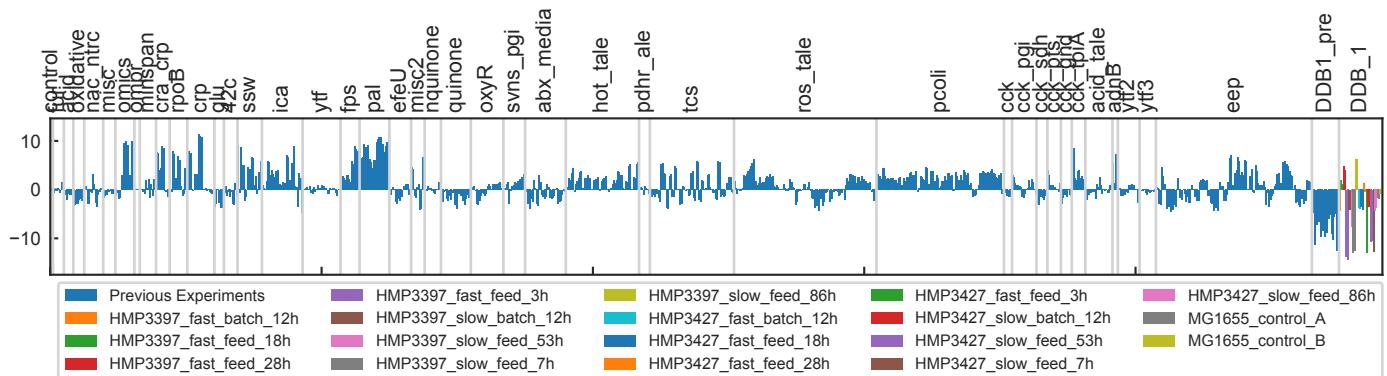
new_CytR I-Modulon

Regulated by: cytR

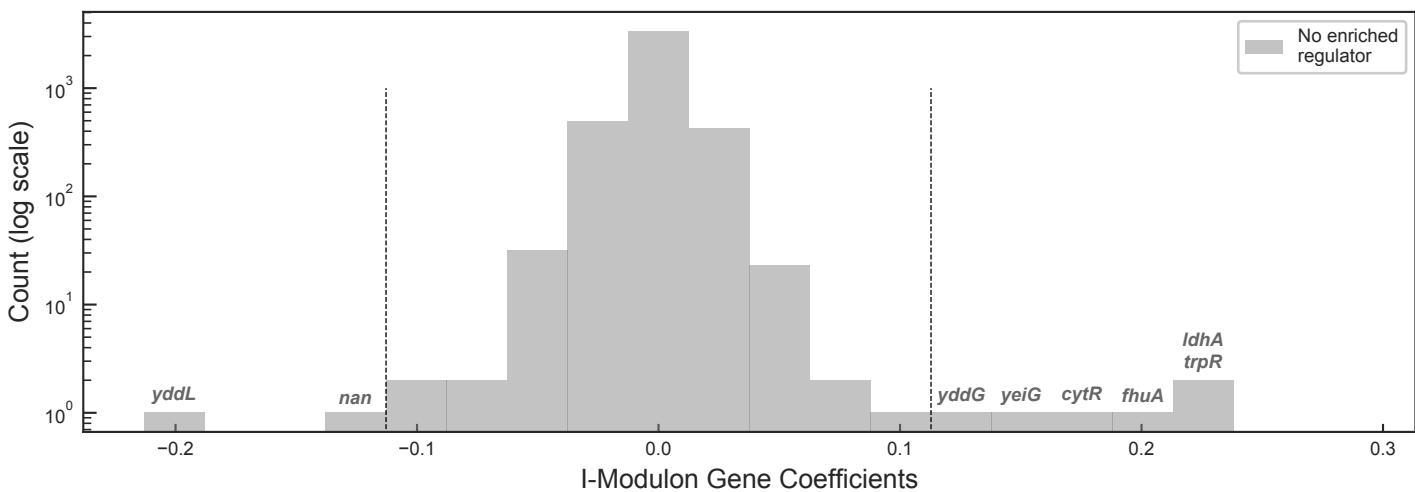
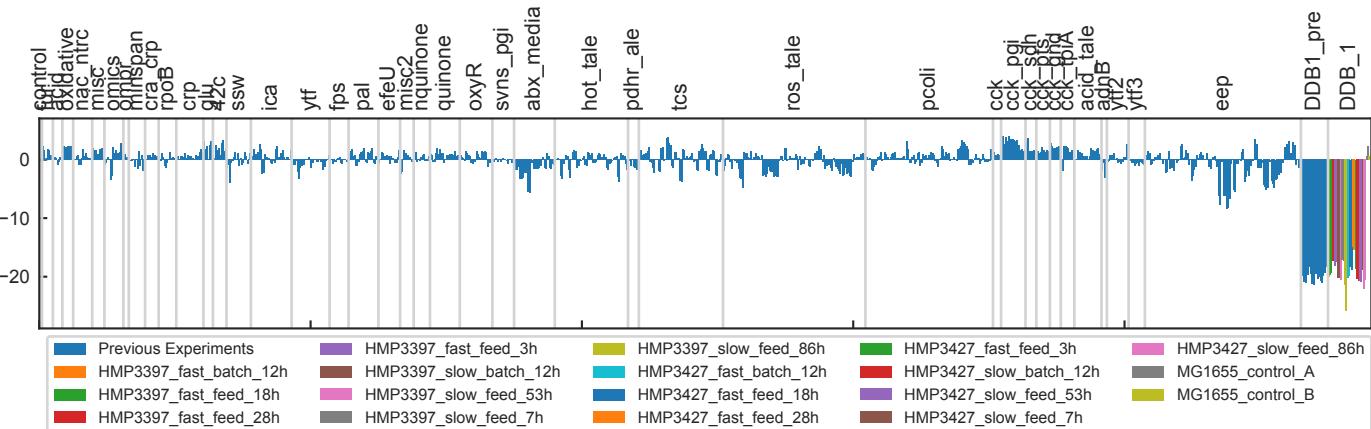
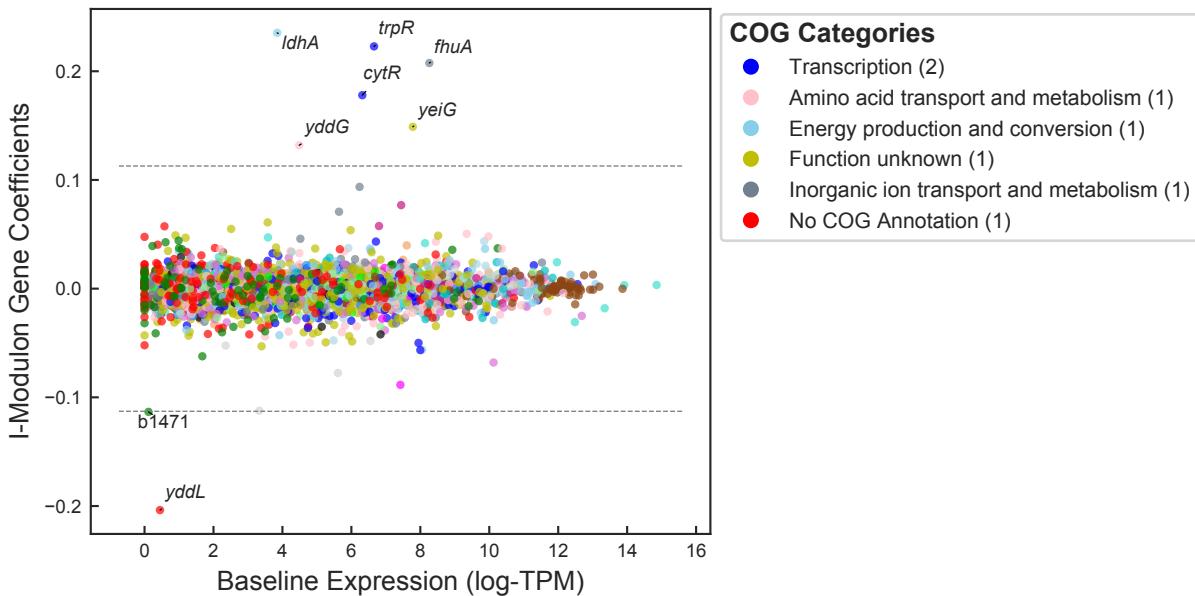


COG Categories

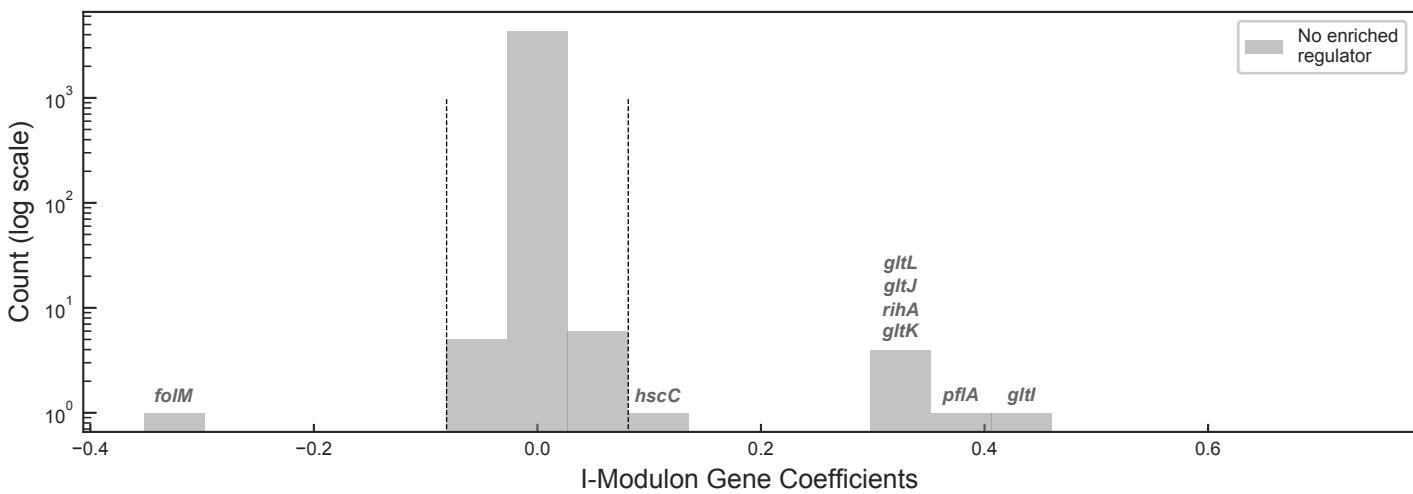
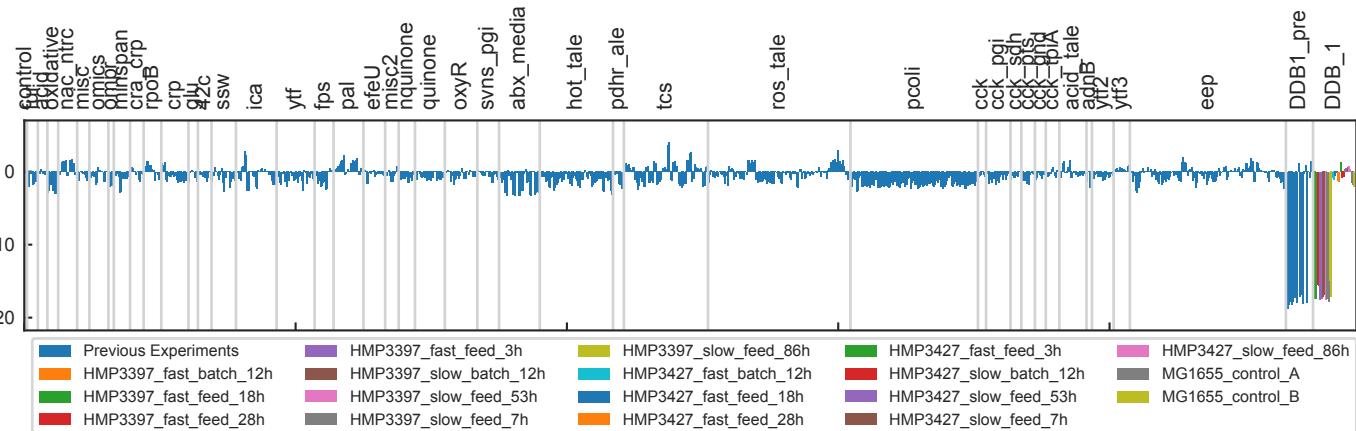
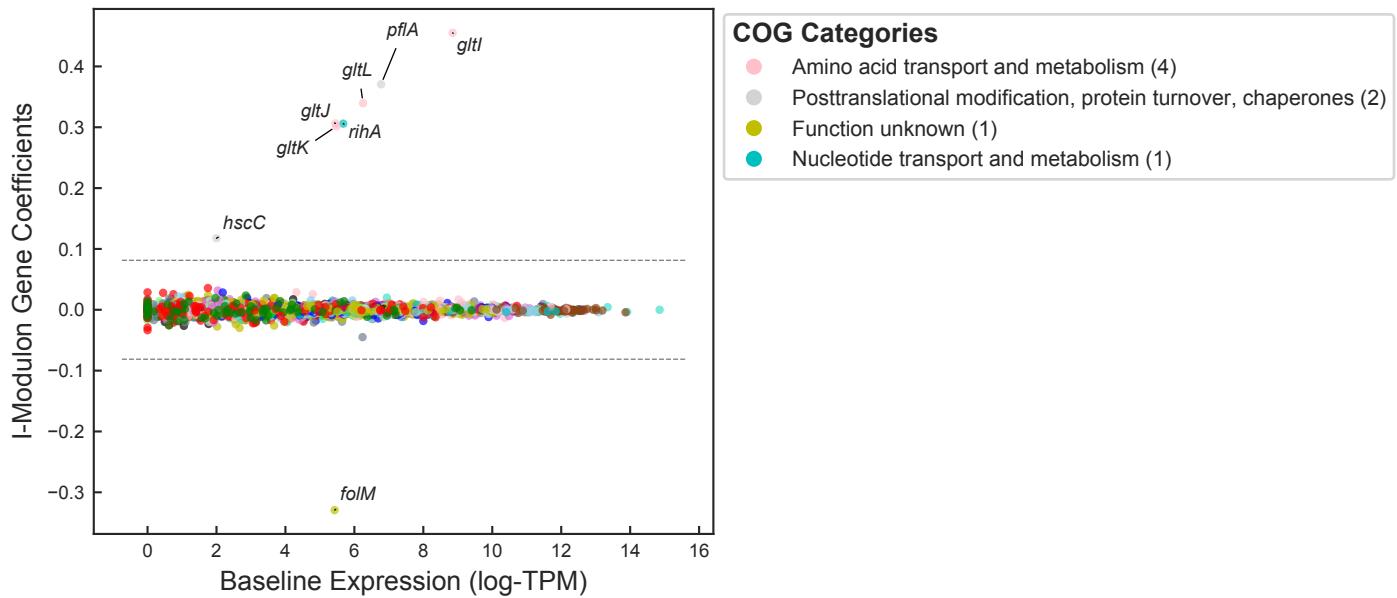
- Nucleotide transport and metabolism (4)
- Carbohydrate transport and metabolism (3)
- Amino acid transport and metabolism (1)
- Cell wall/membrane/envelope biogenesis (1)
- Function unknown (1)



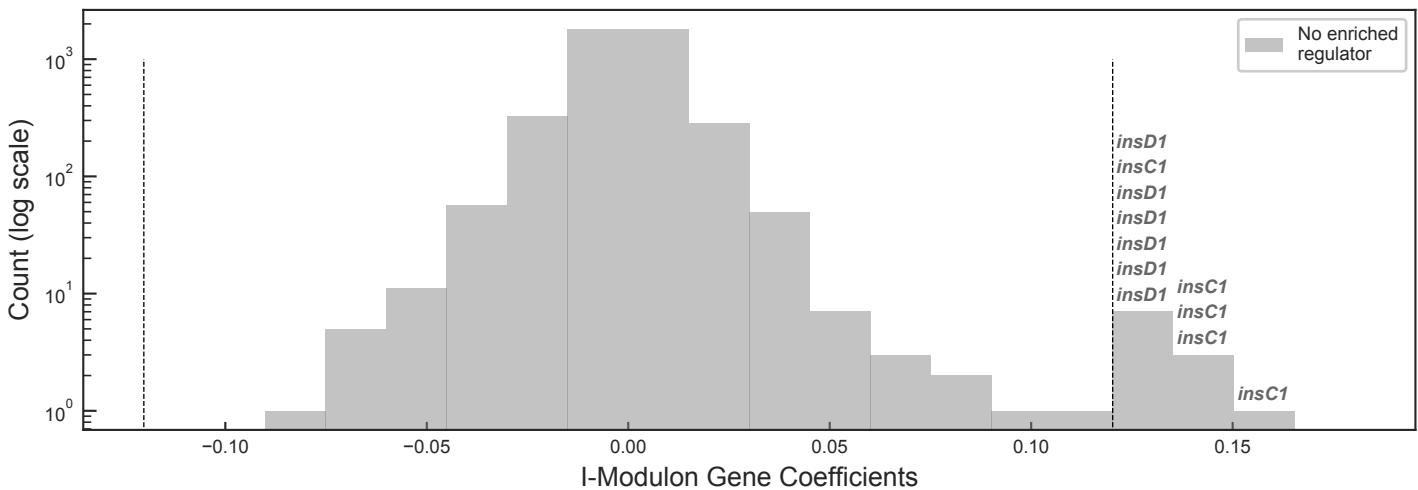
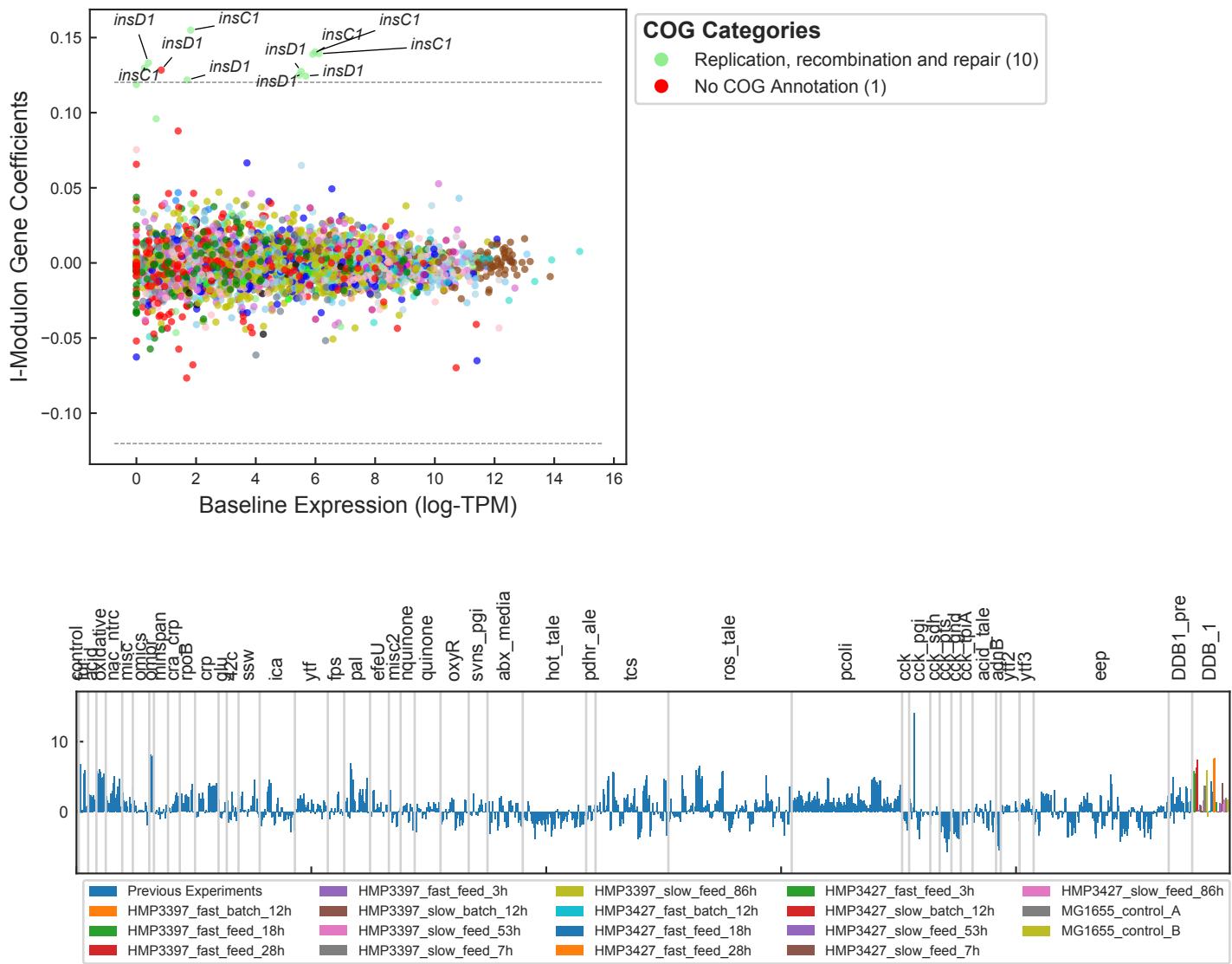
new_HMP – KO I-Modulon



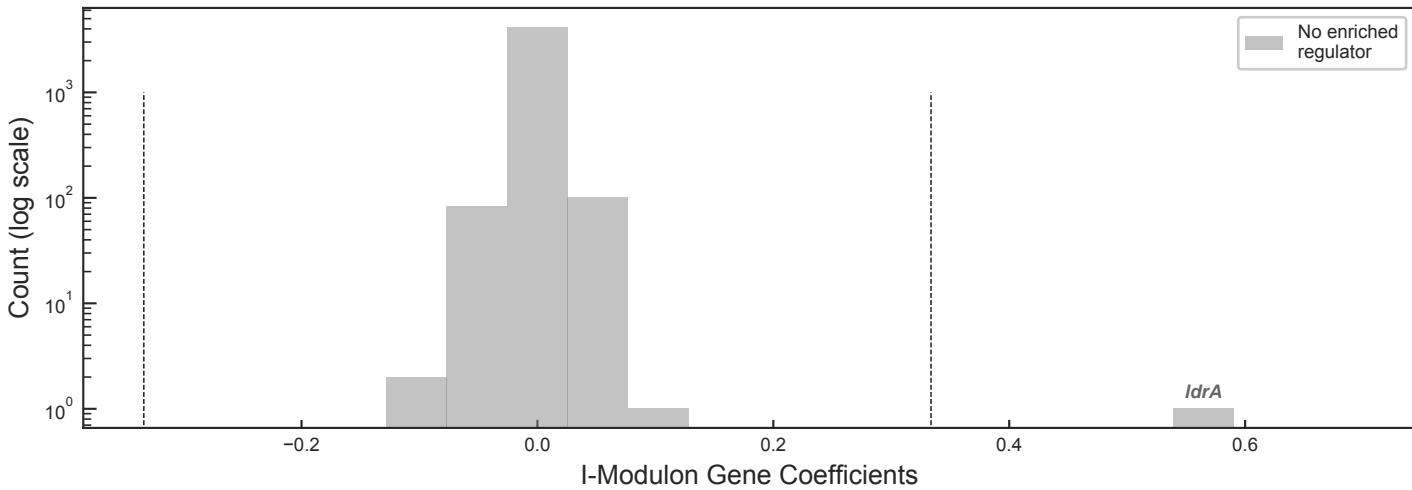
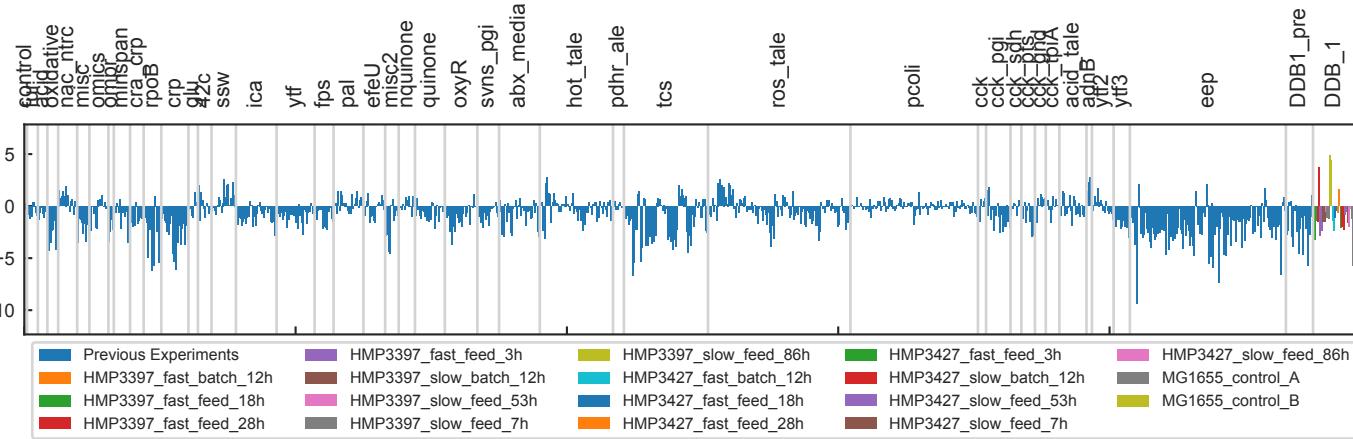
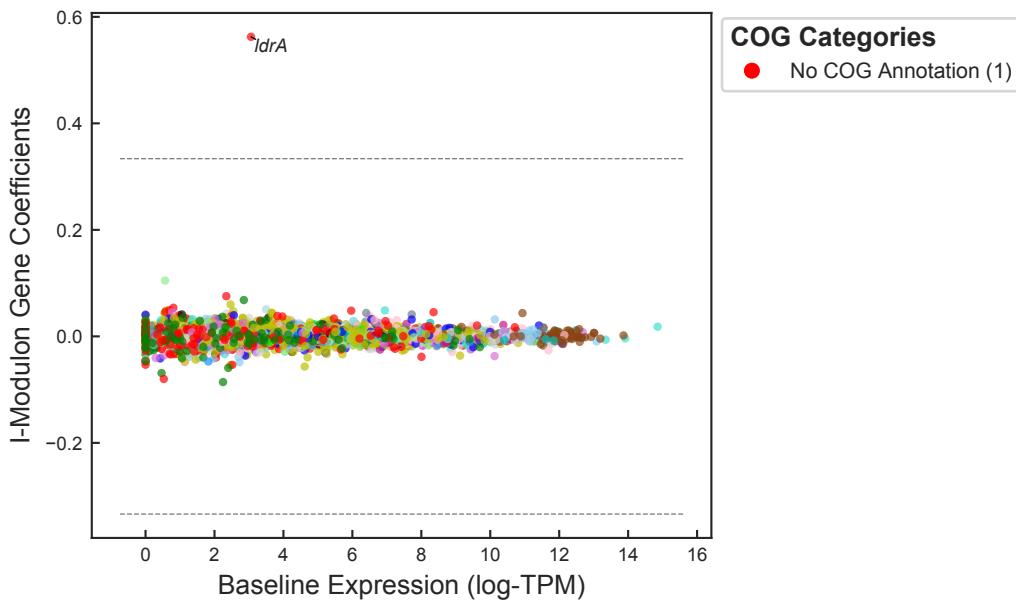
new_HMP – folM – OE I-Modulon



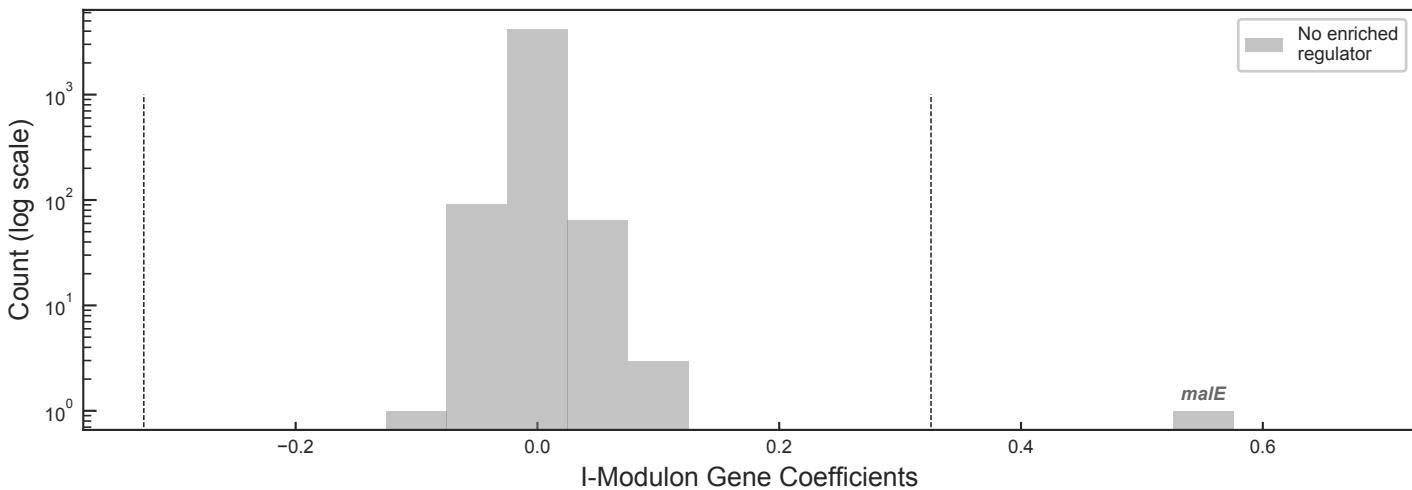
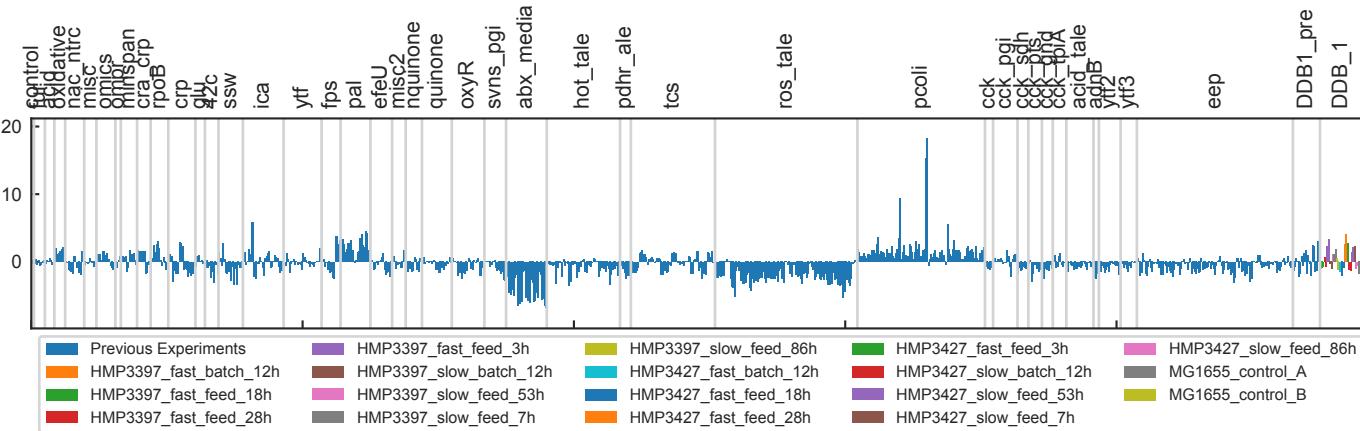
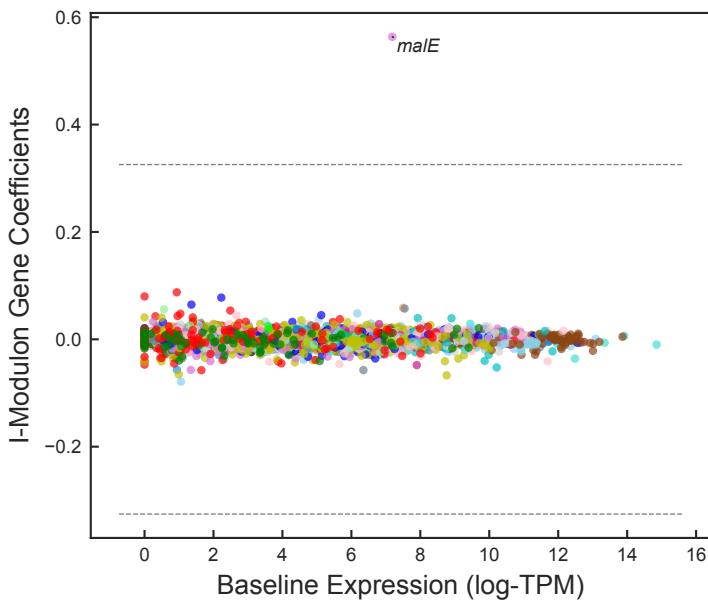
new_insC1 + insD1 I-Modulon



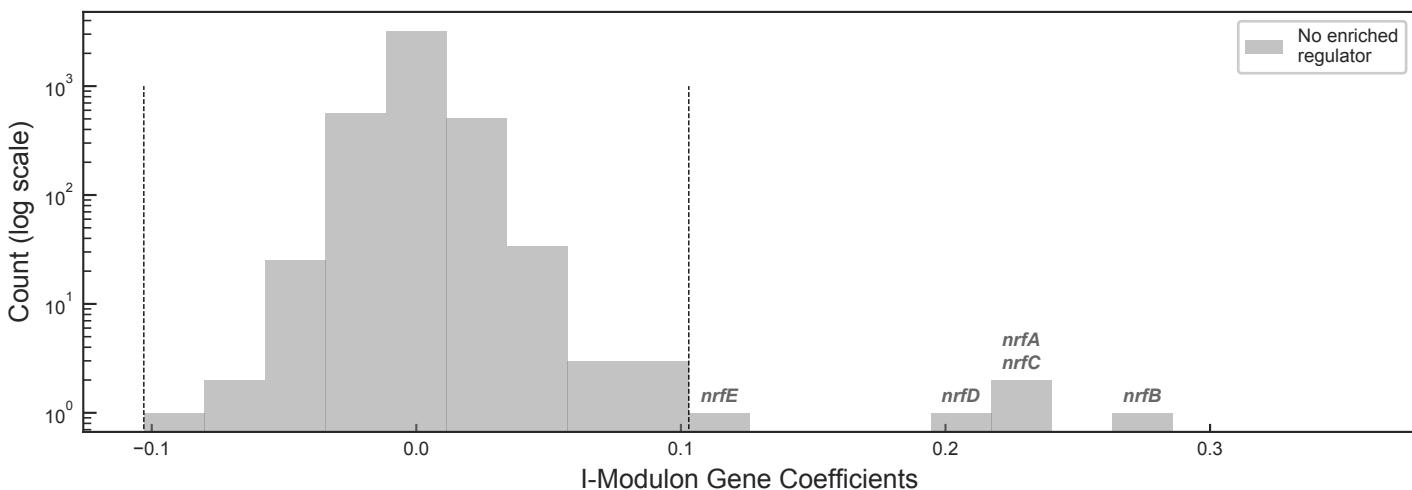
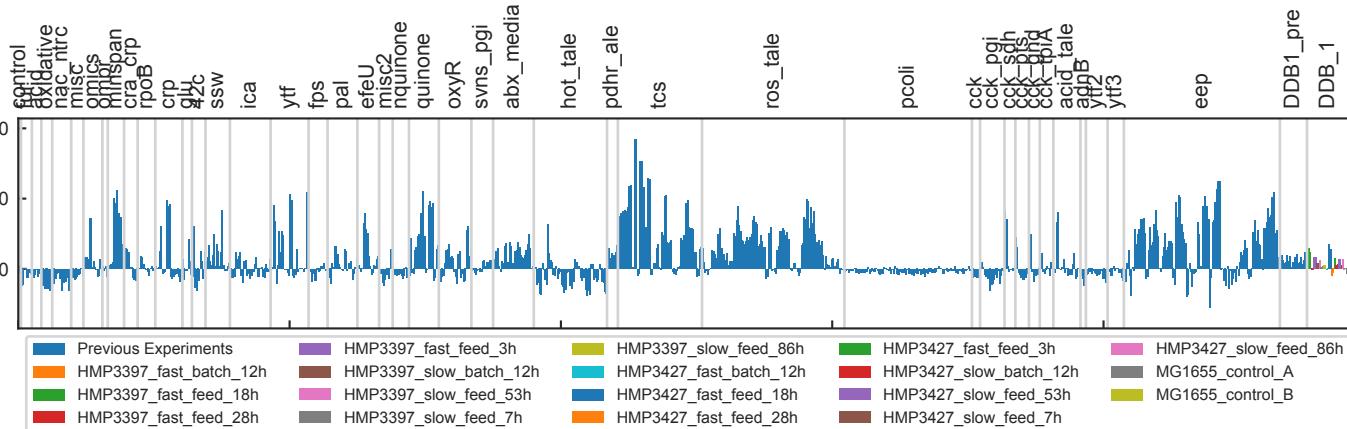
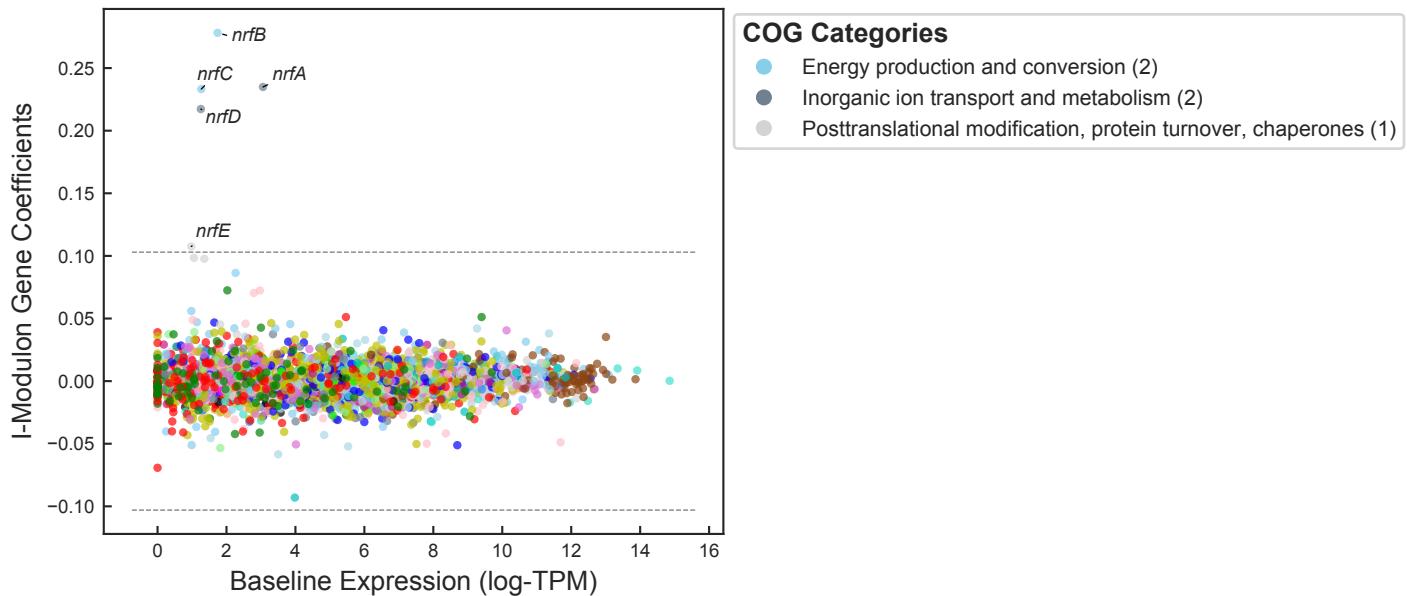
new_IdrA I-Modulon



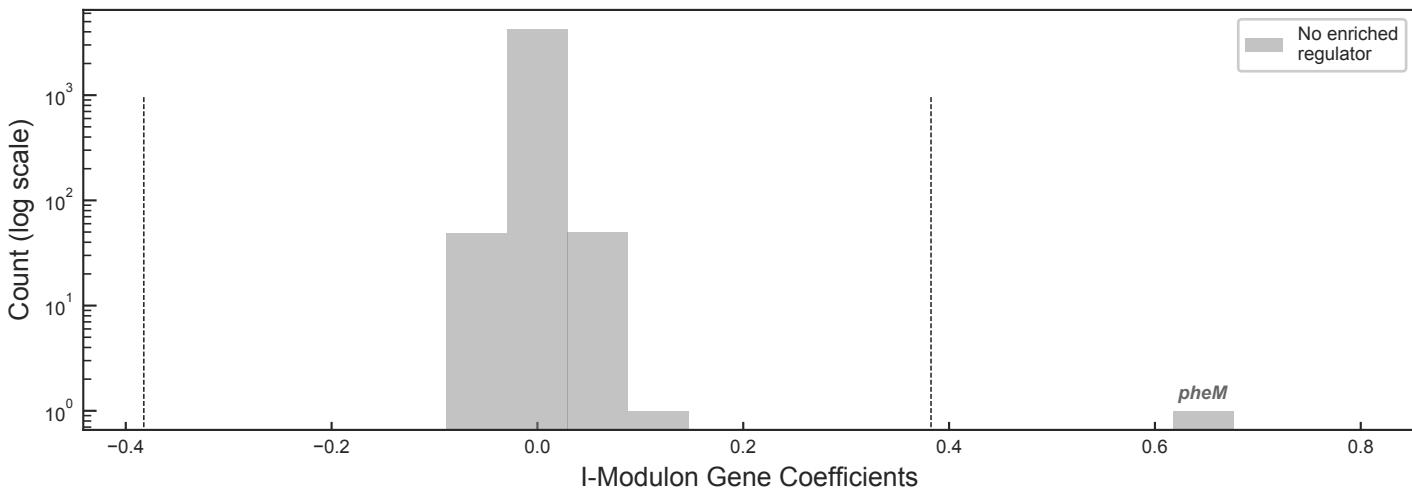
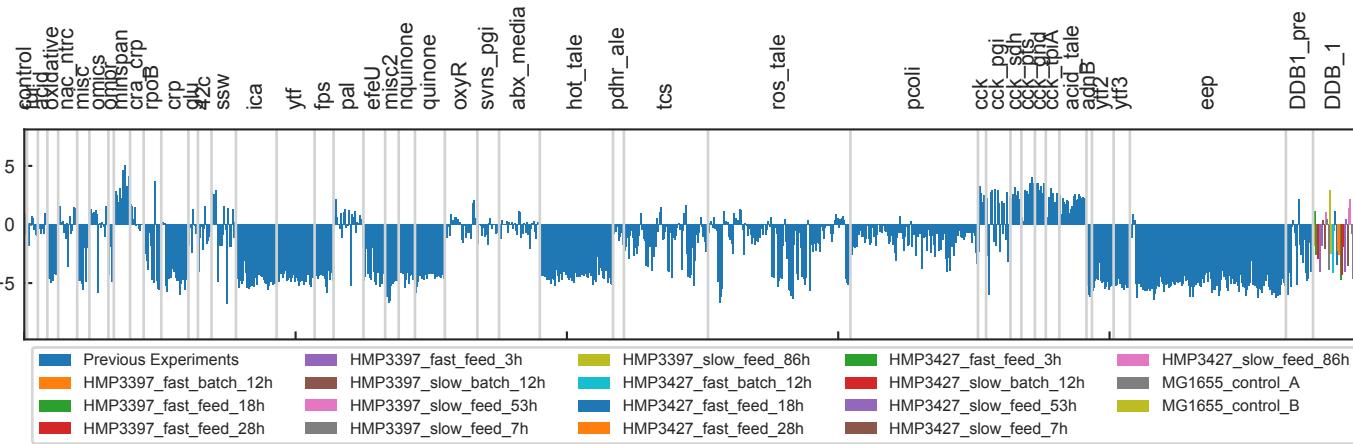
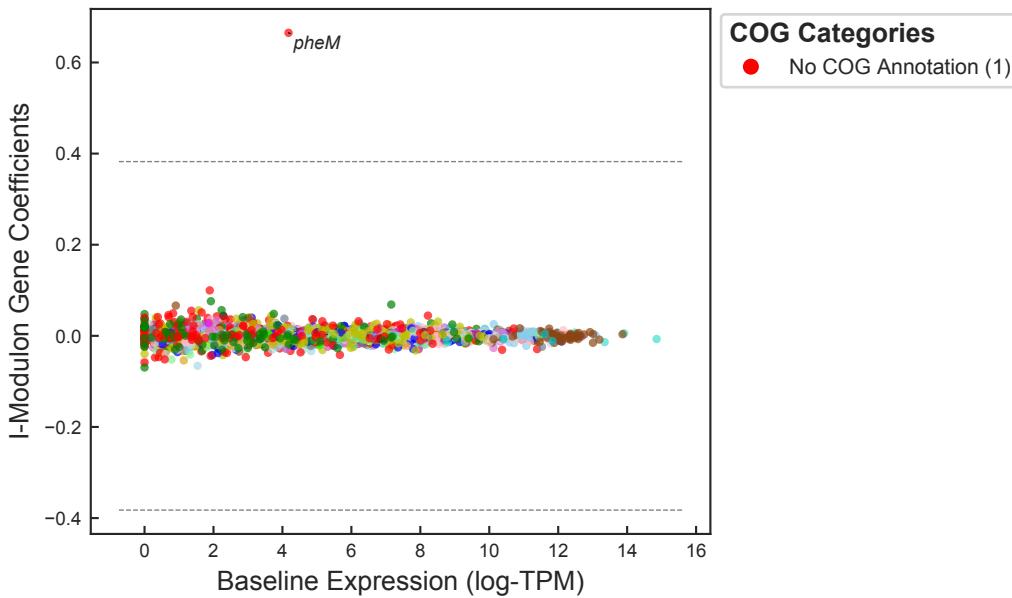
new_m aIE I-Modulon



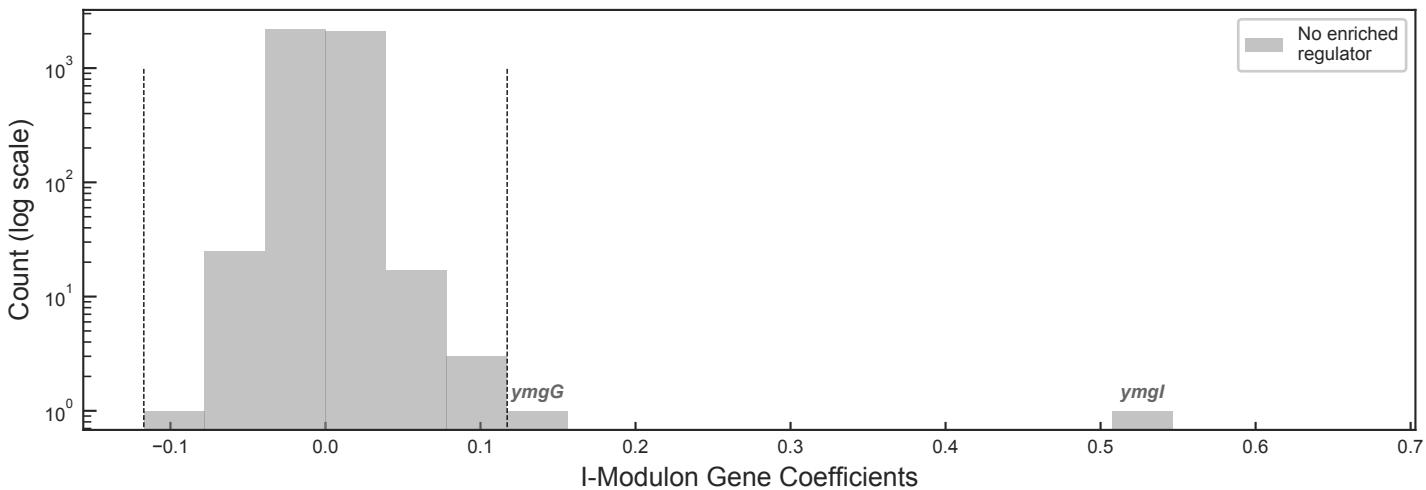
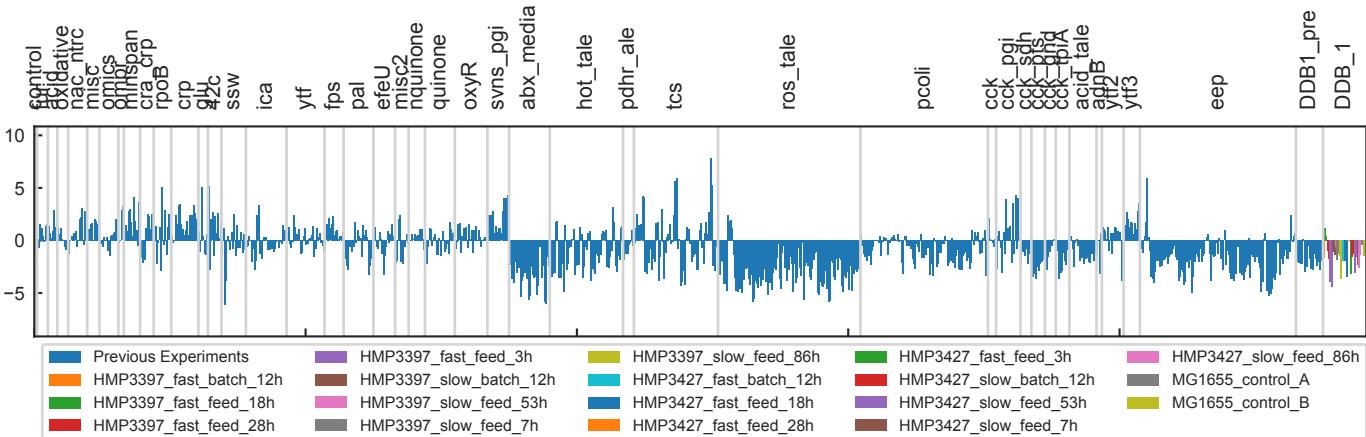
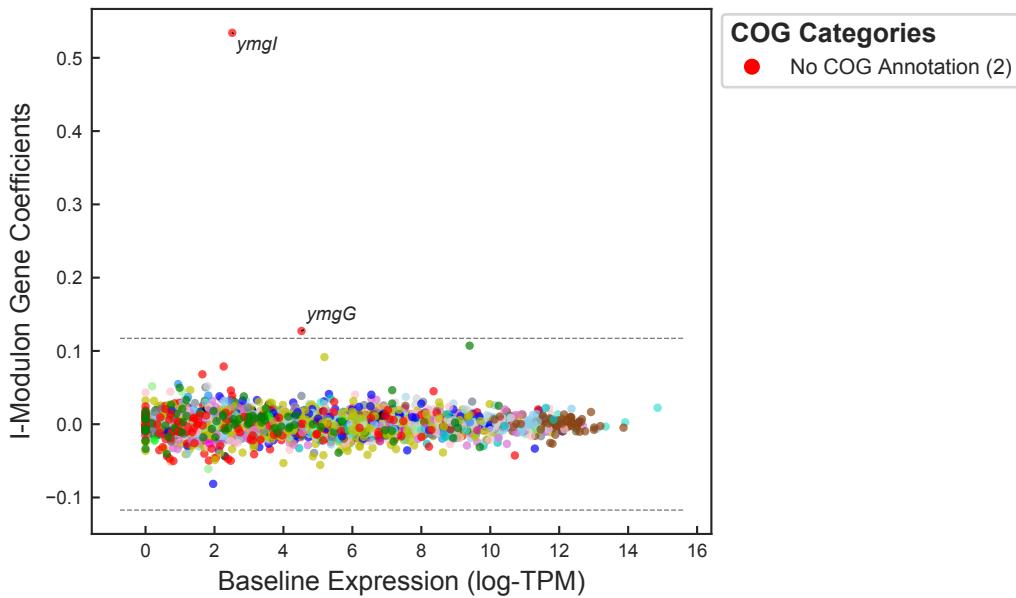
new_nrfABCDE I-Modulon



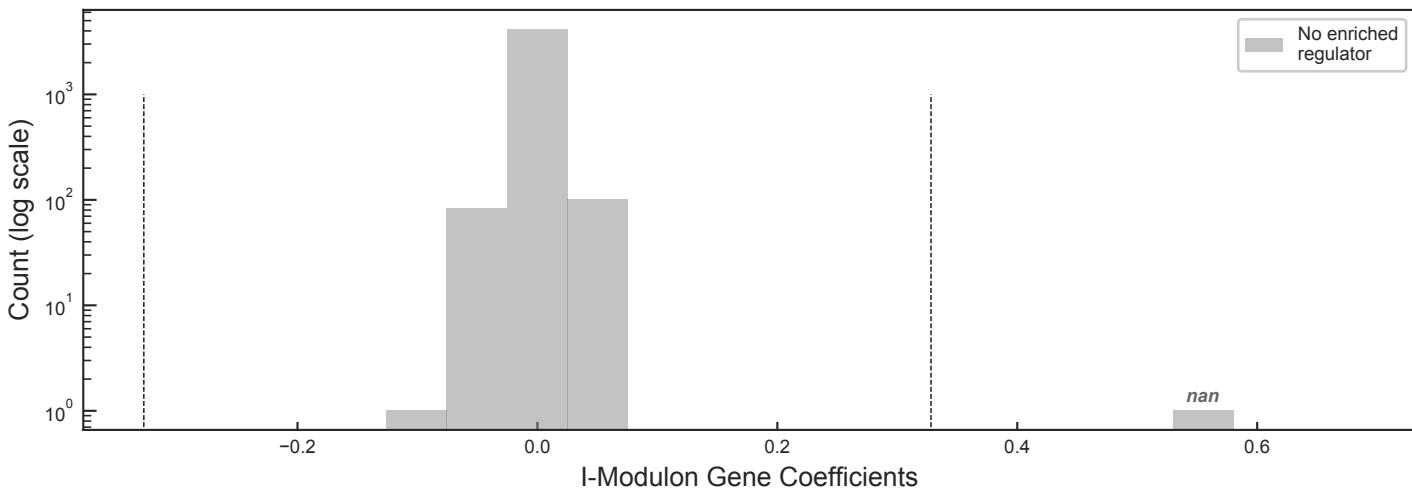
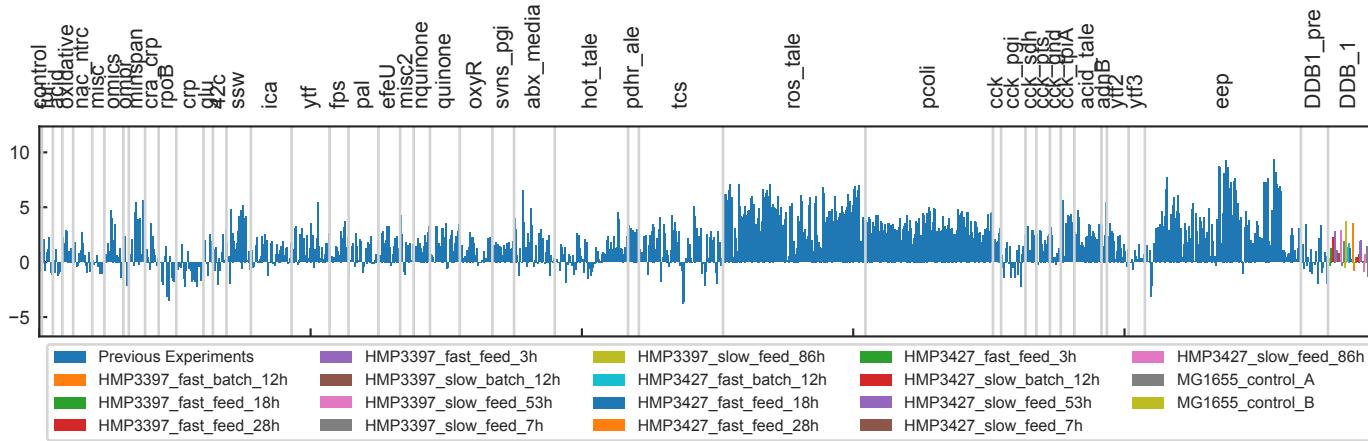
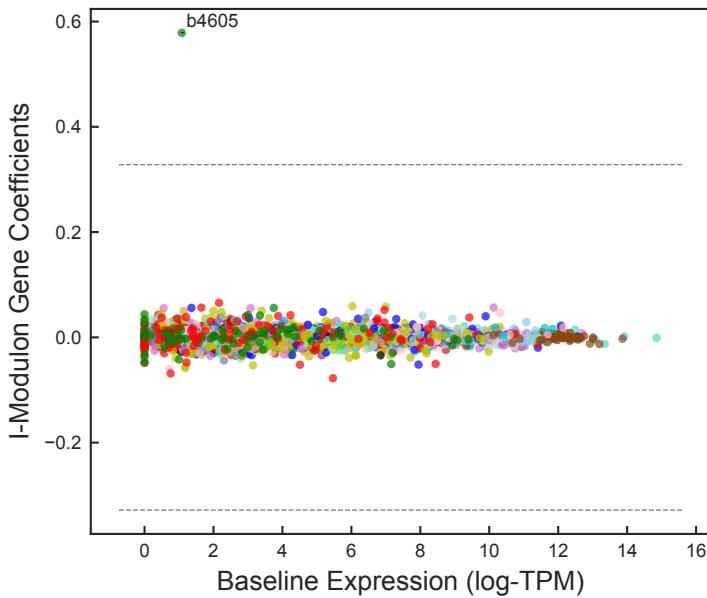
new_p heM I-Modulon



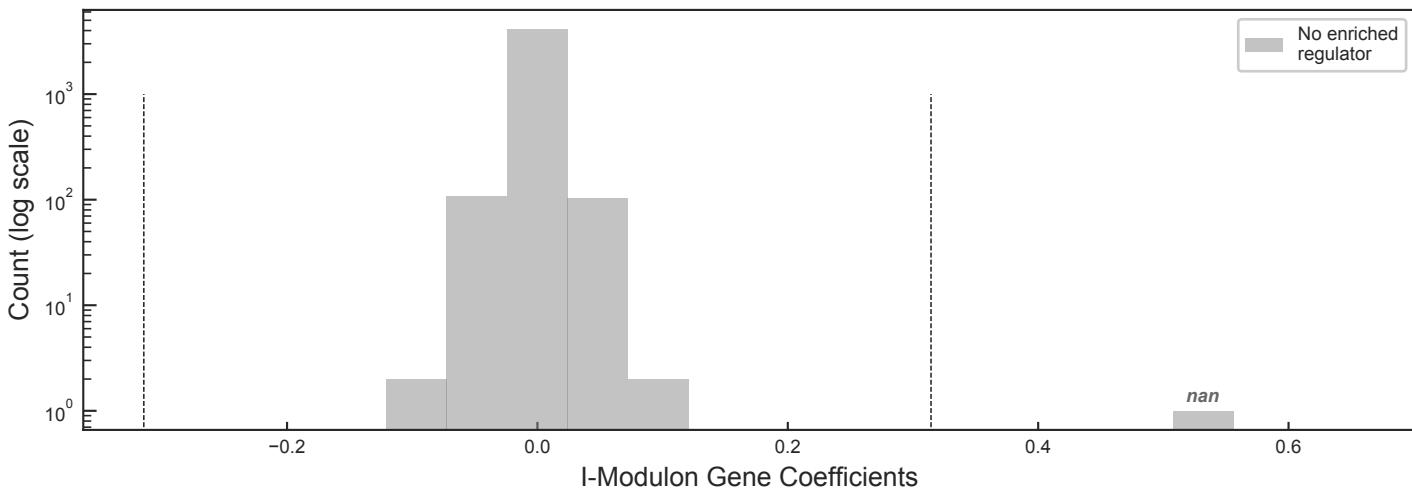
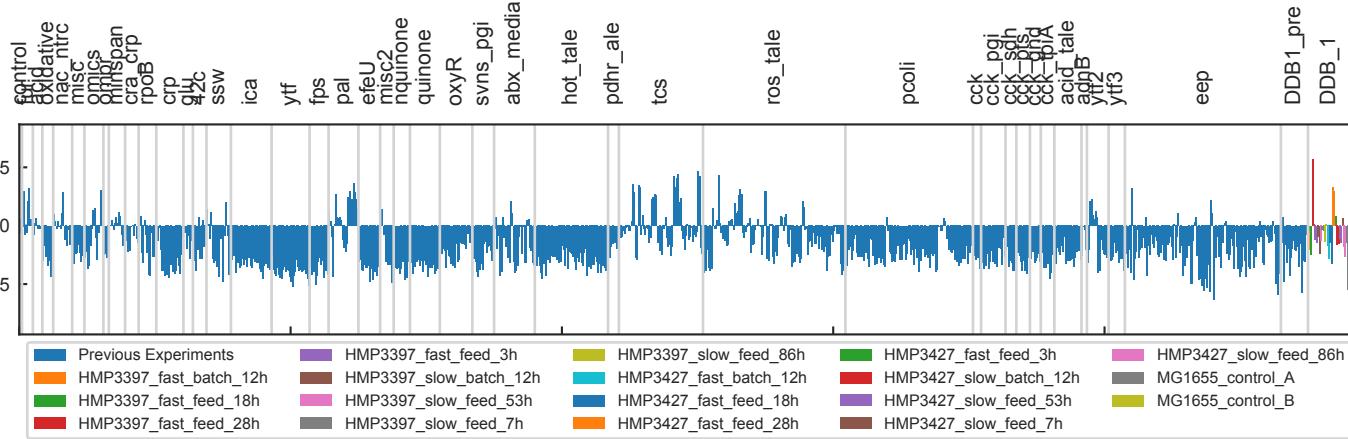
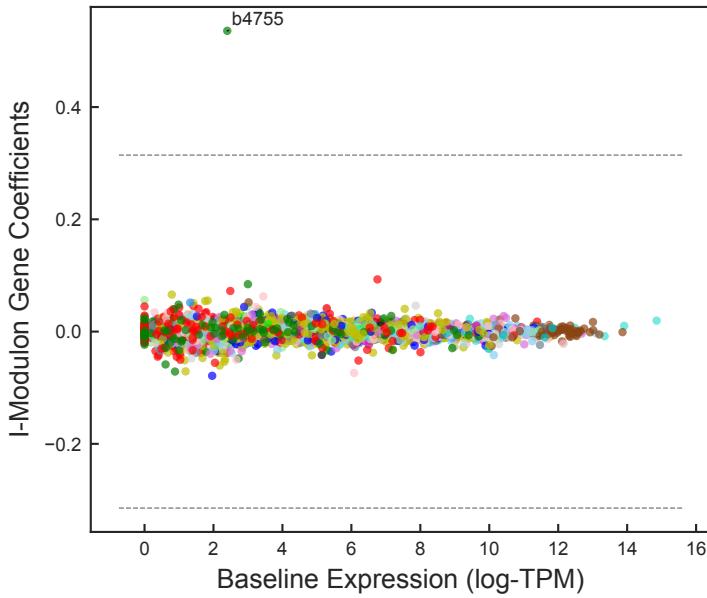
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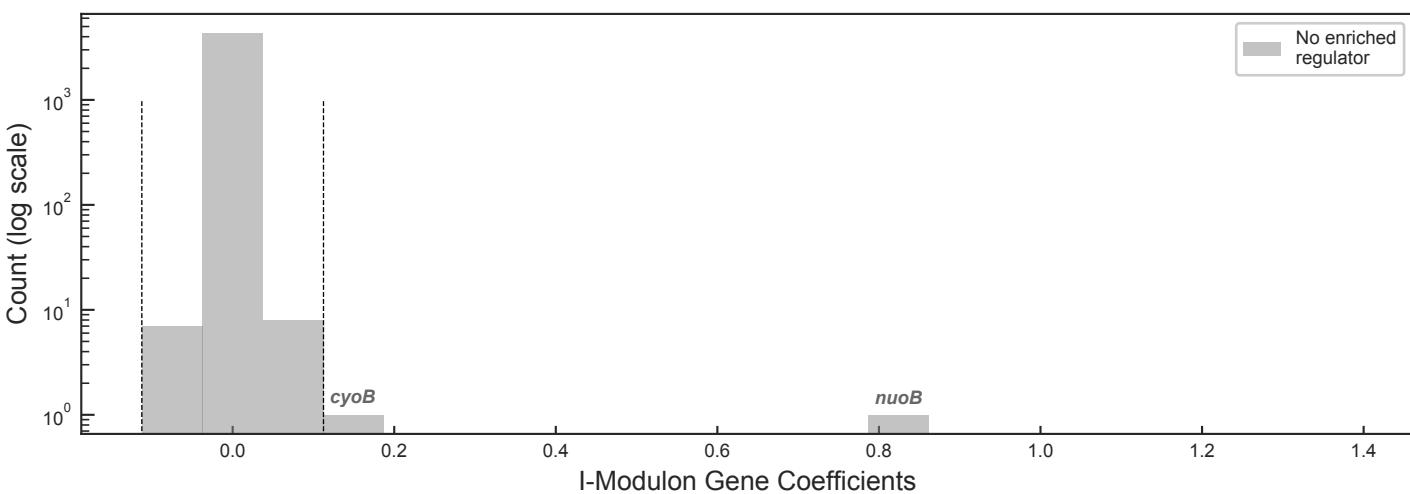
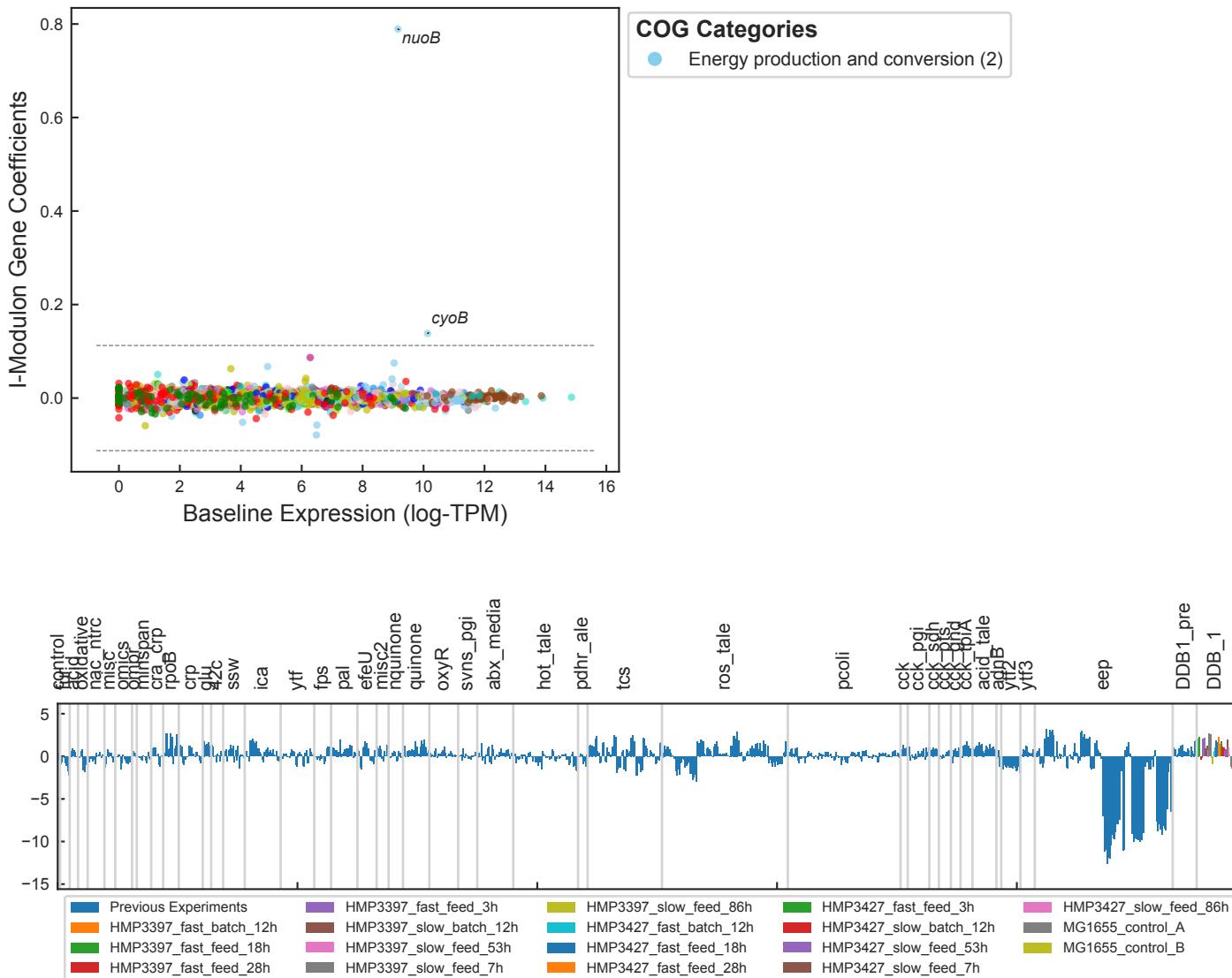
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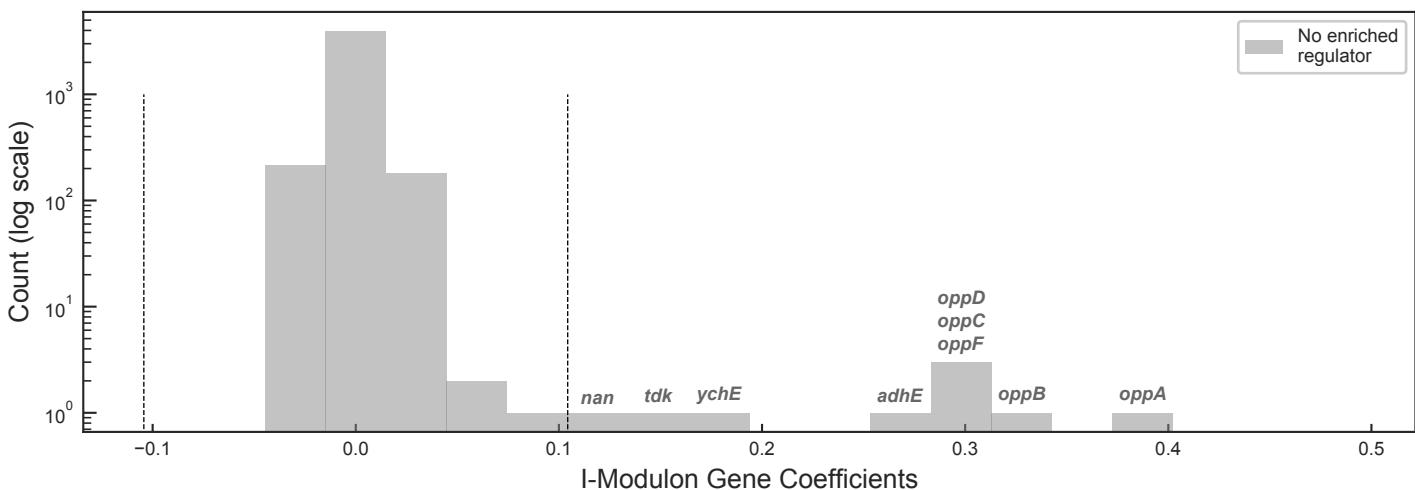
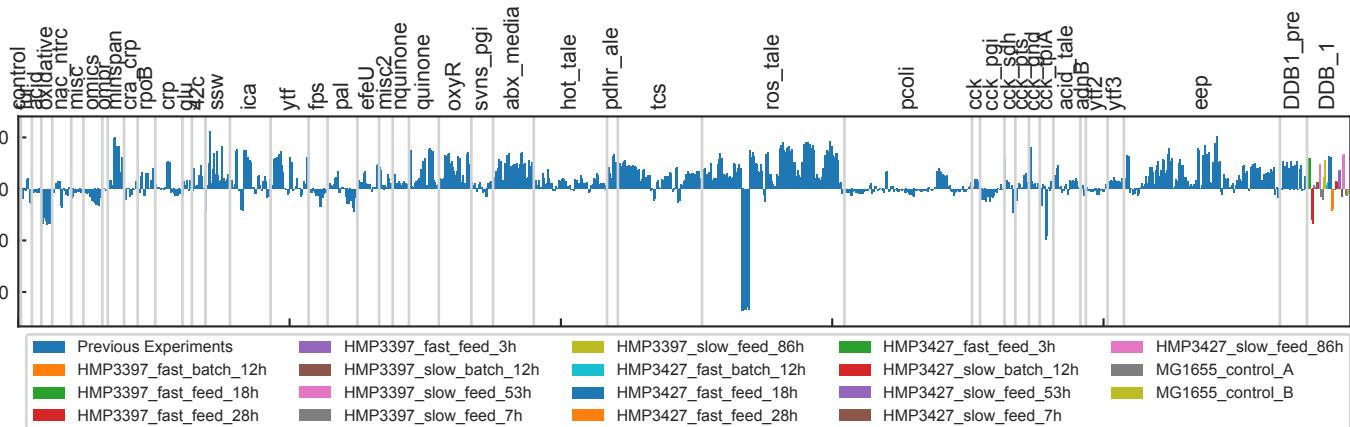
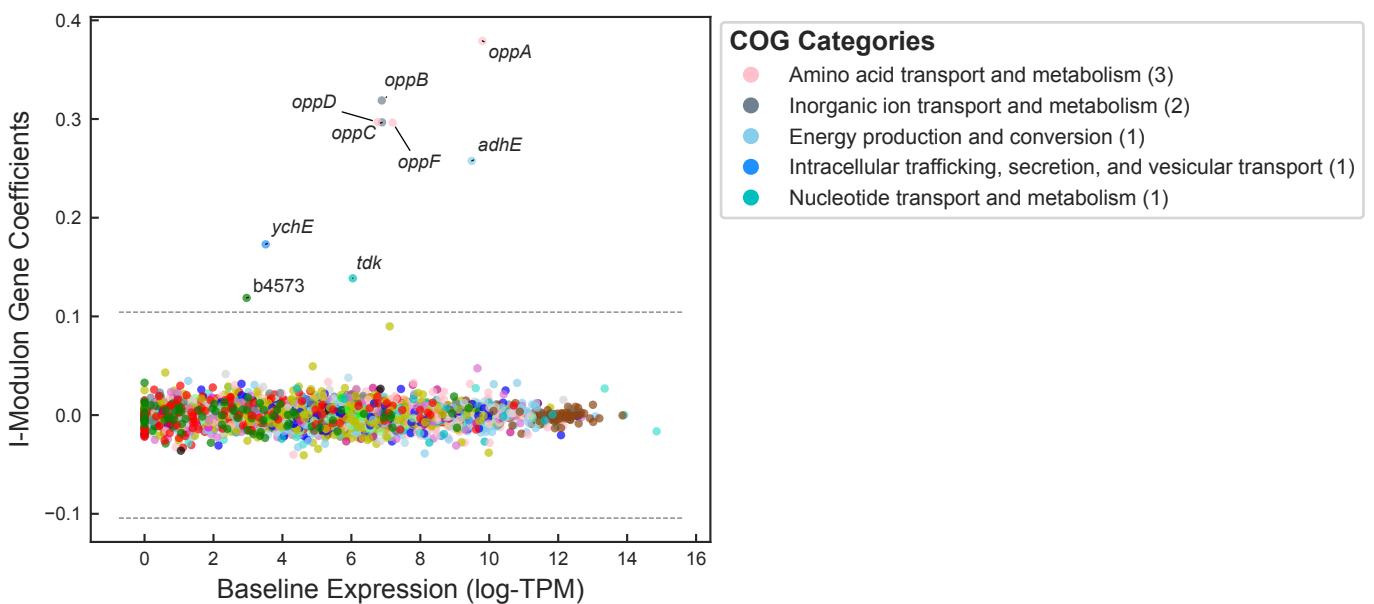
new_yqhl I-Modulon



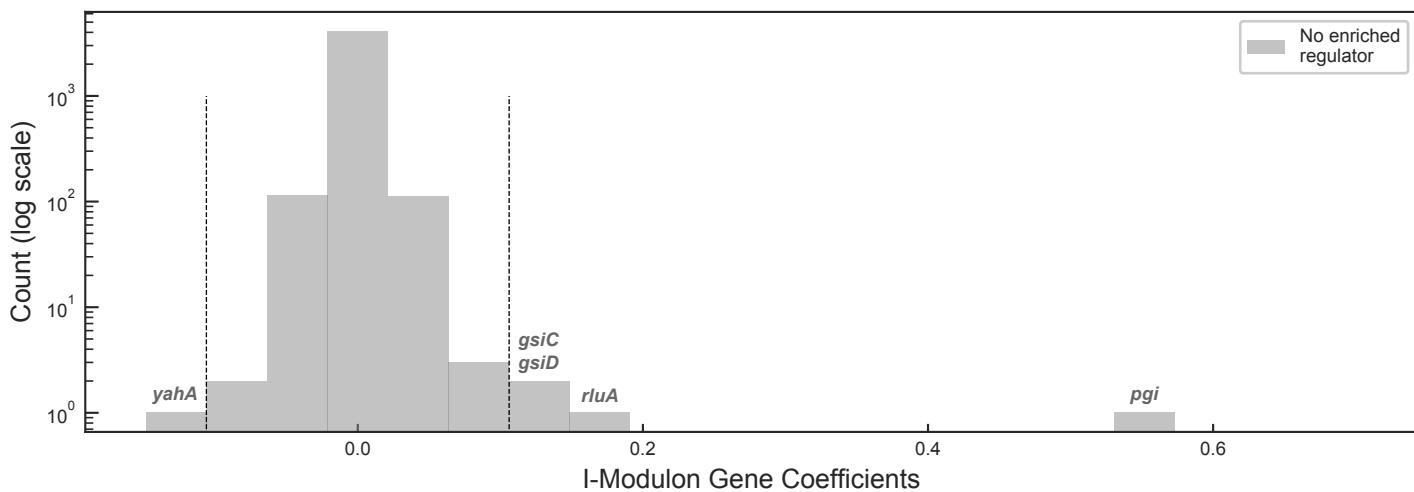
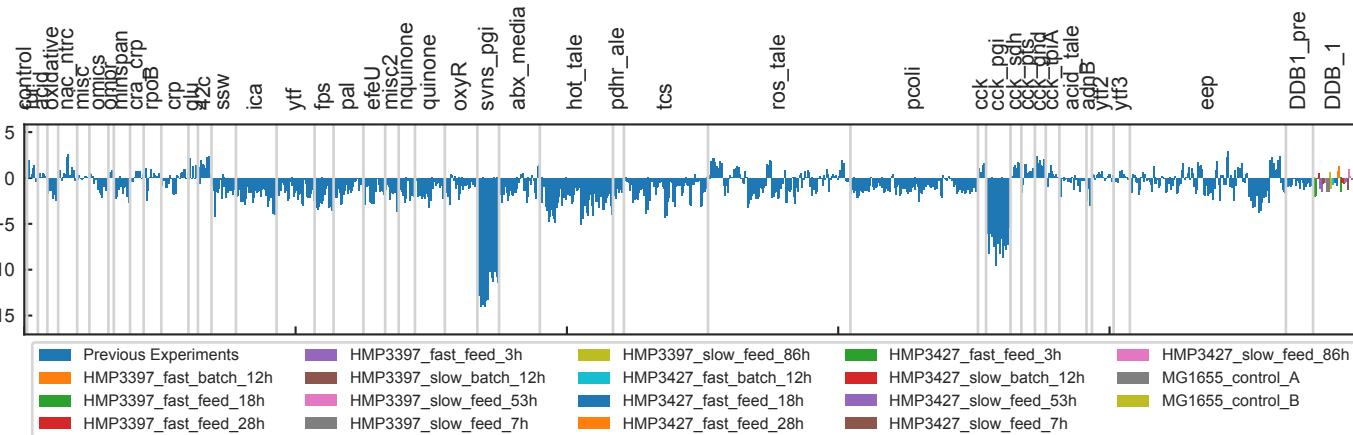
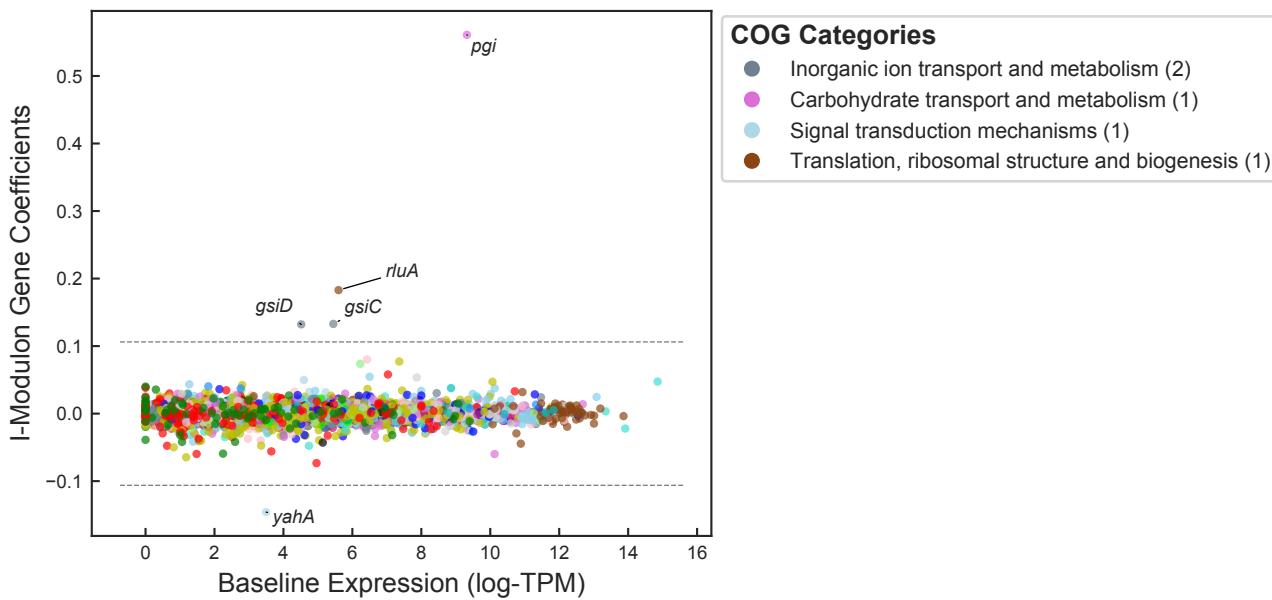
nuoB – KO I-Modulon



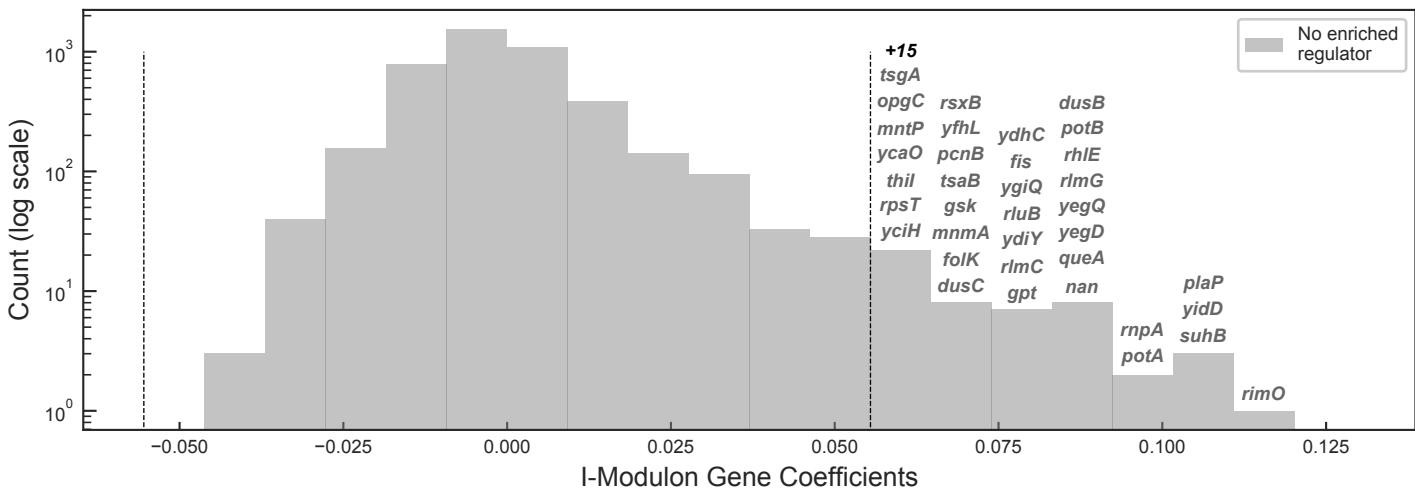
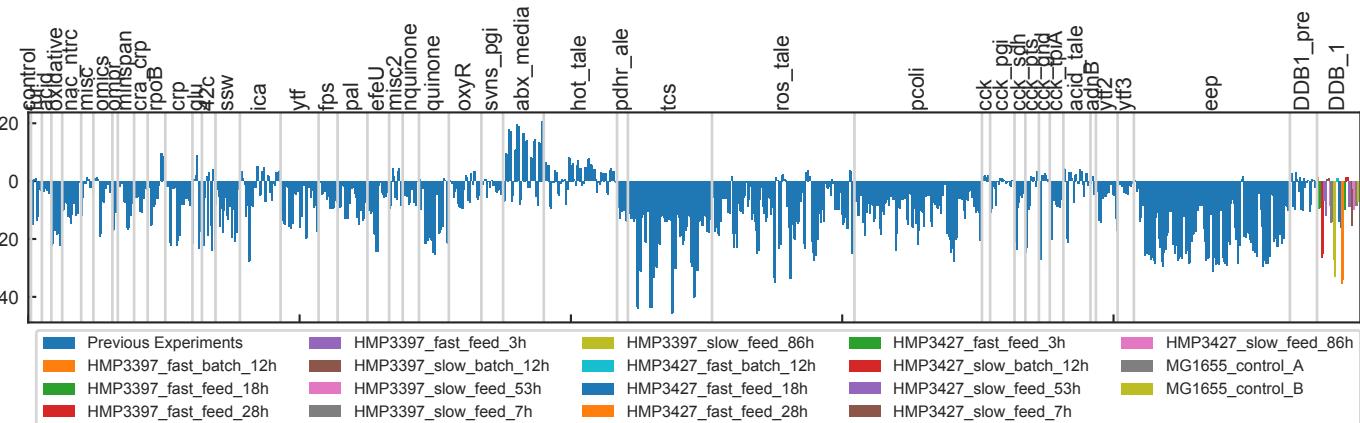
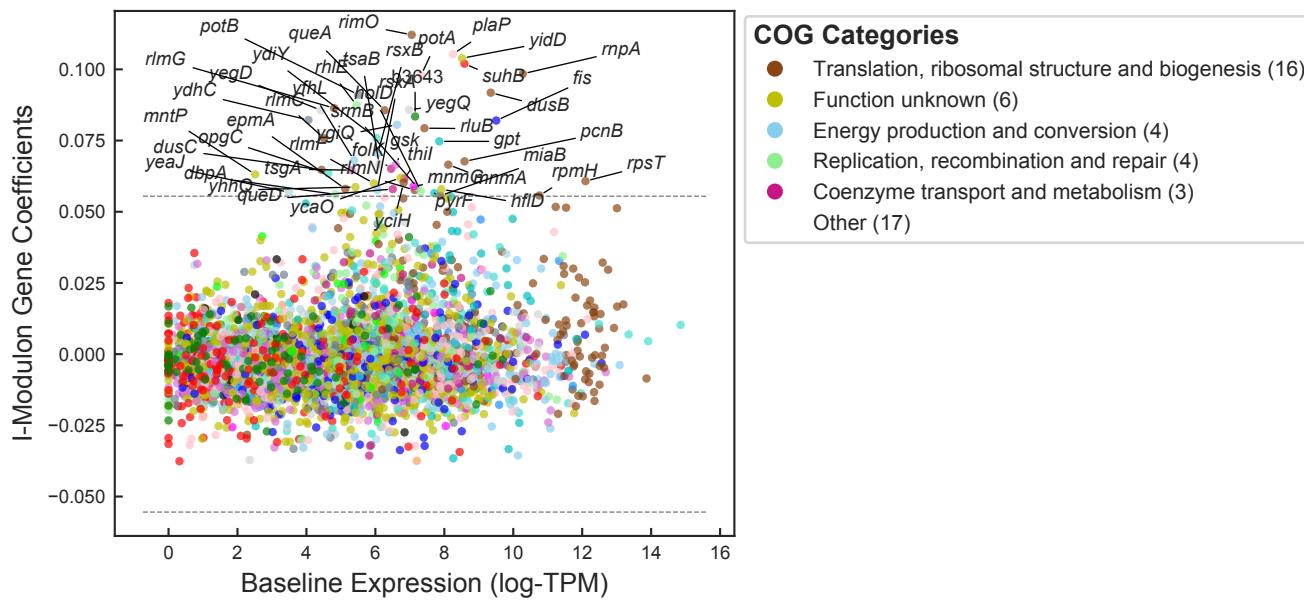
oppABCDF I-Modulon



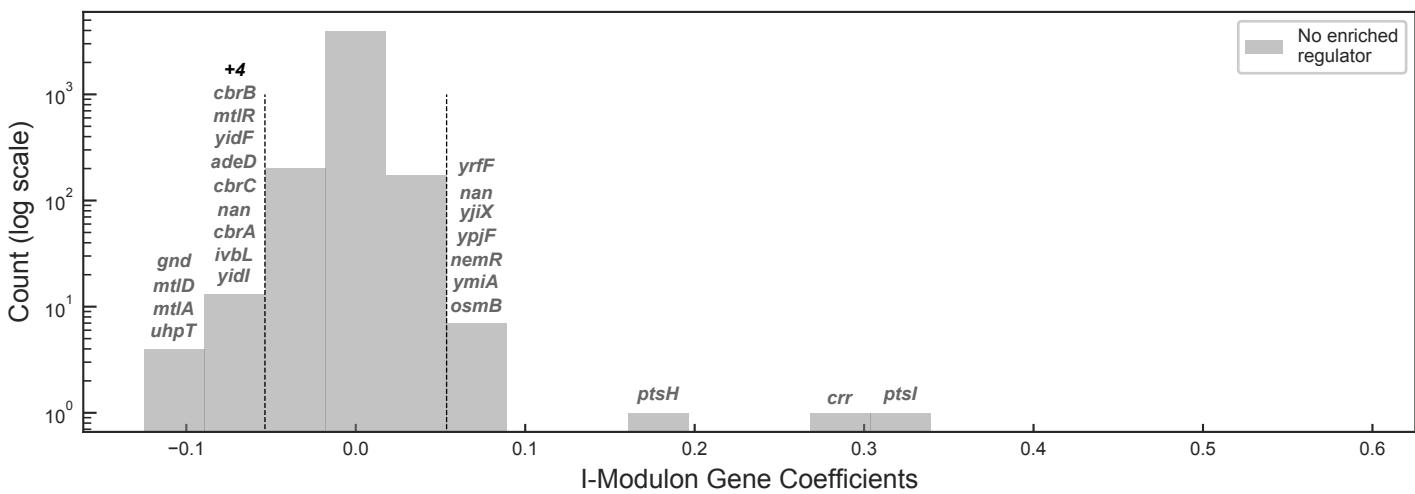
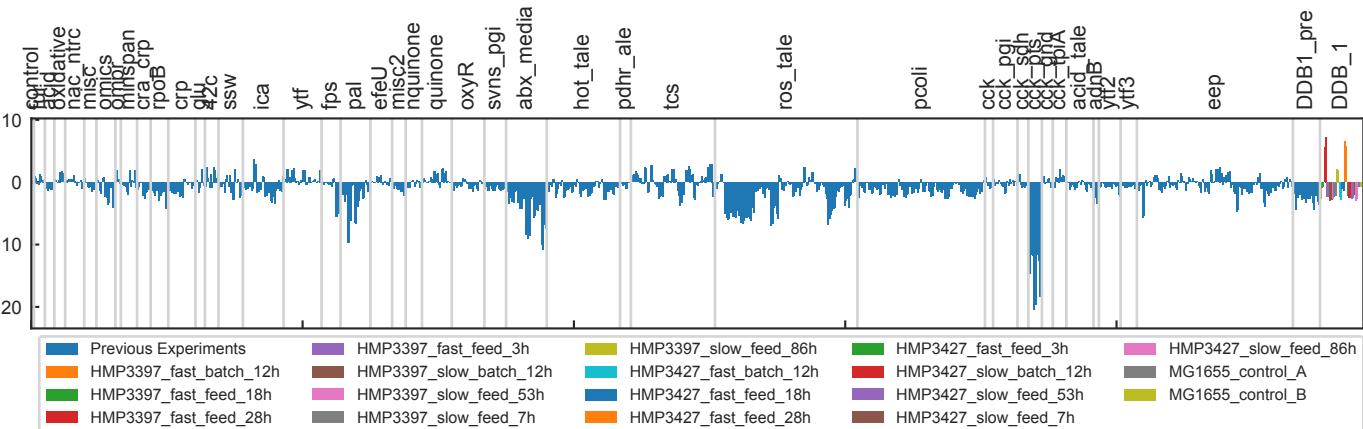
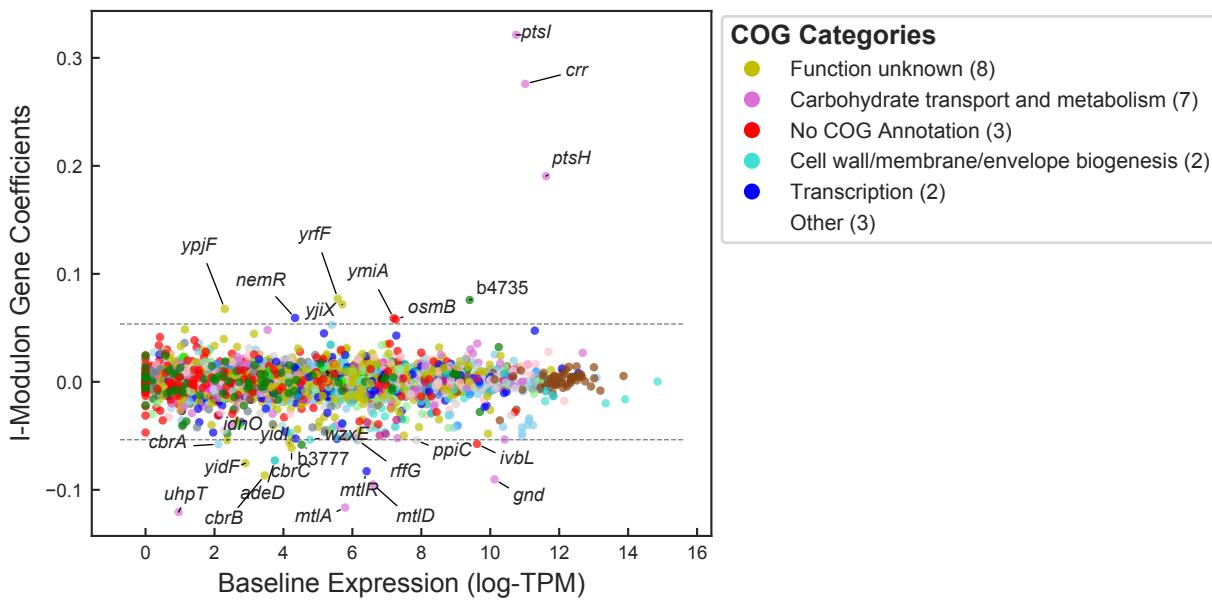
pgi – KO I-Modulon



ppGpp I-Modulon

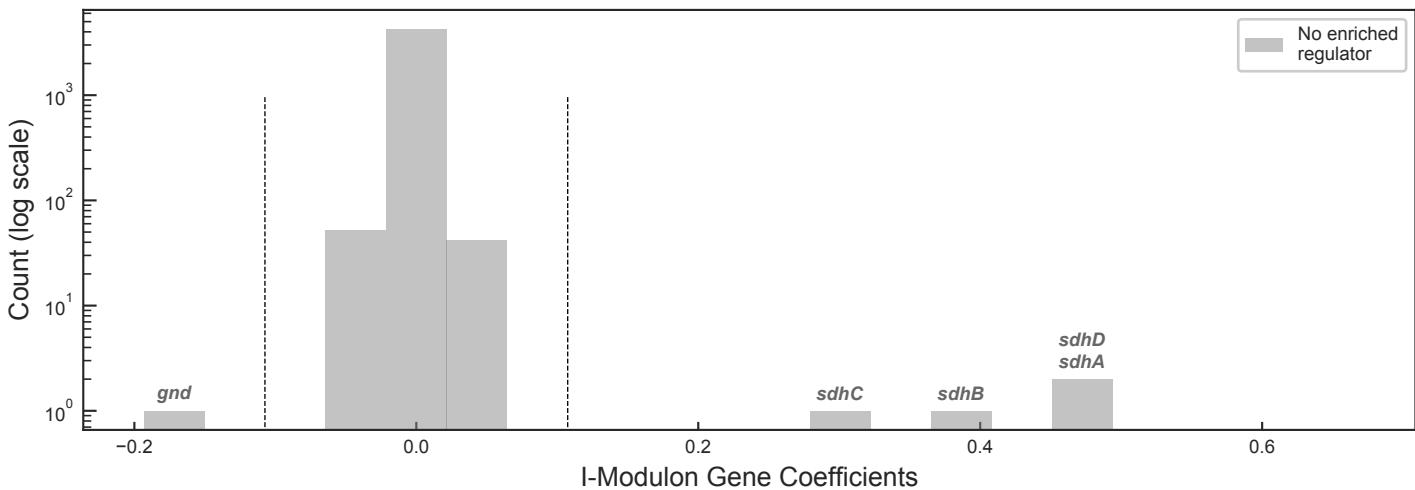
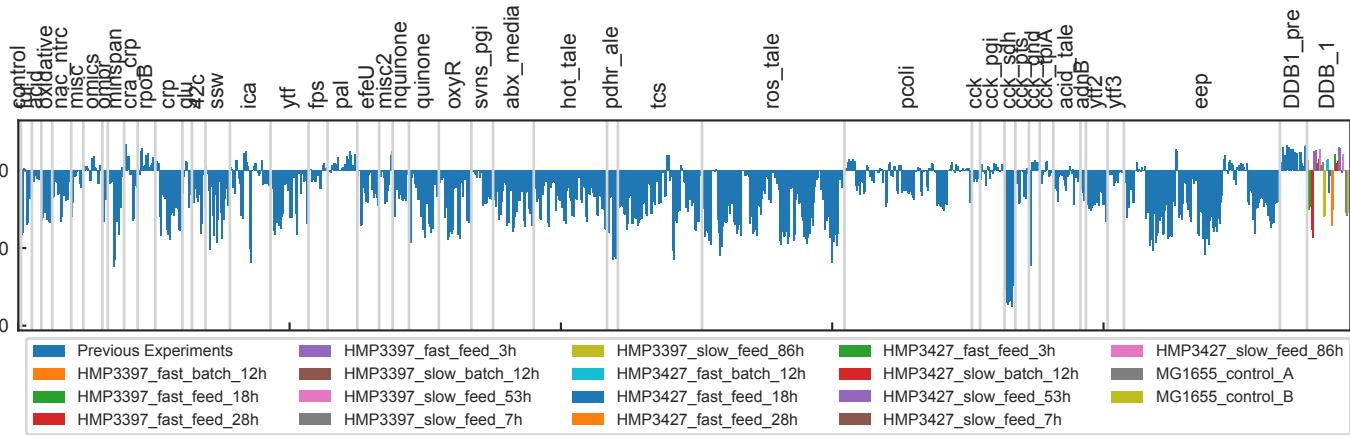
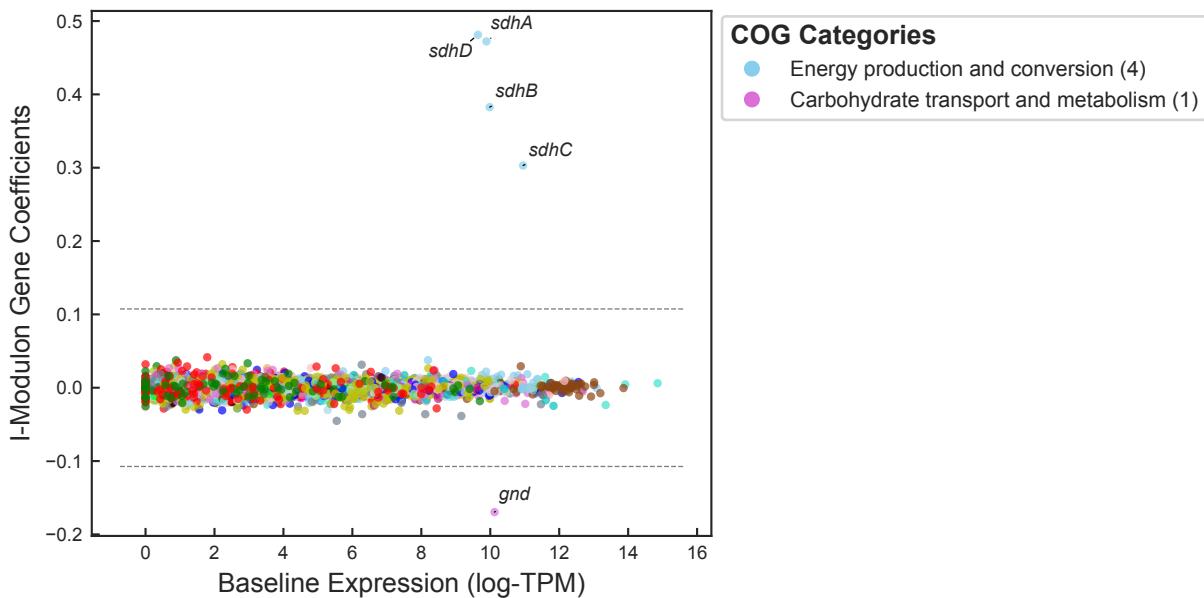


ptsl – KO I-Modulon

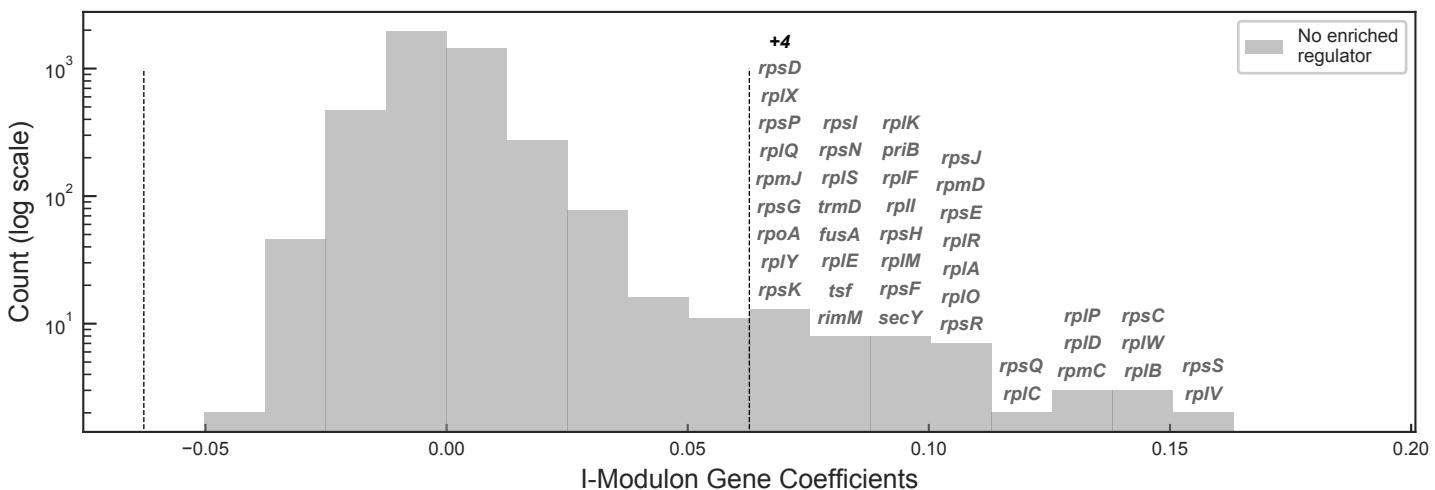
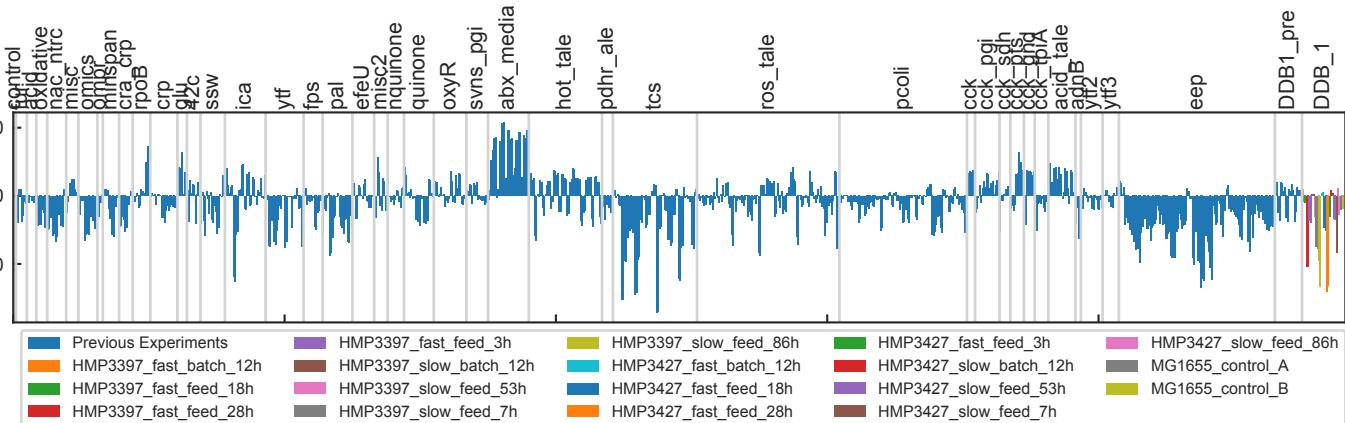
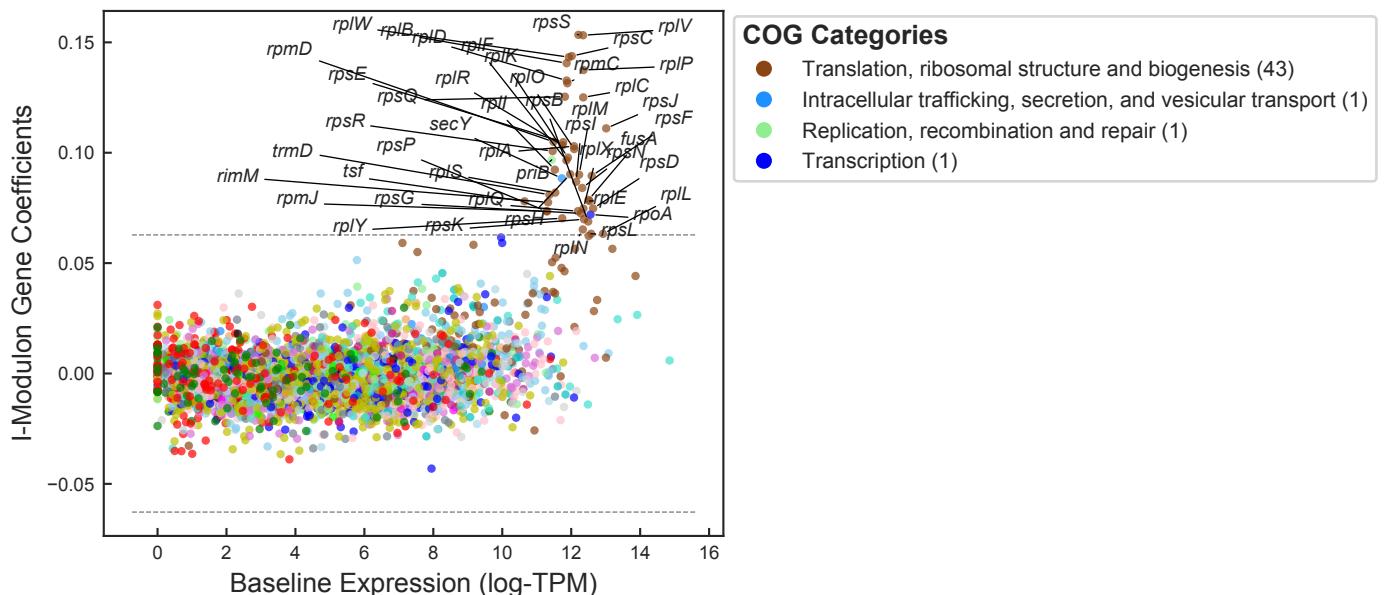


sdh – KO I-Modulon

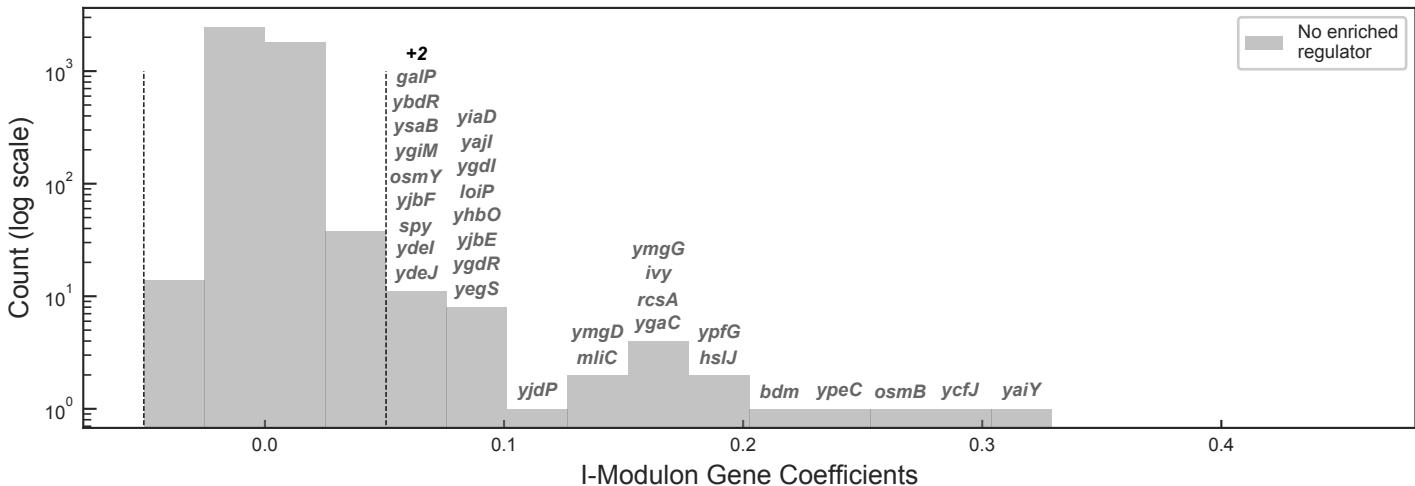
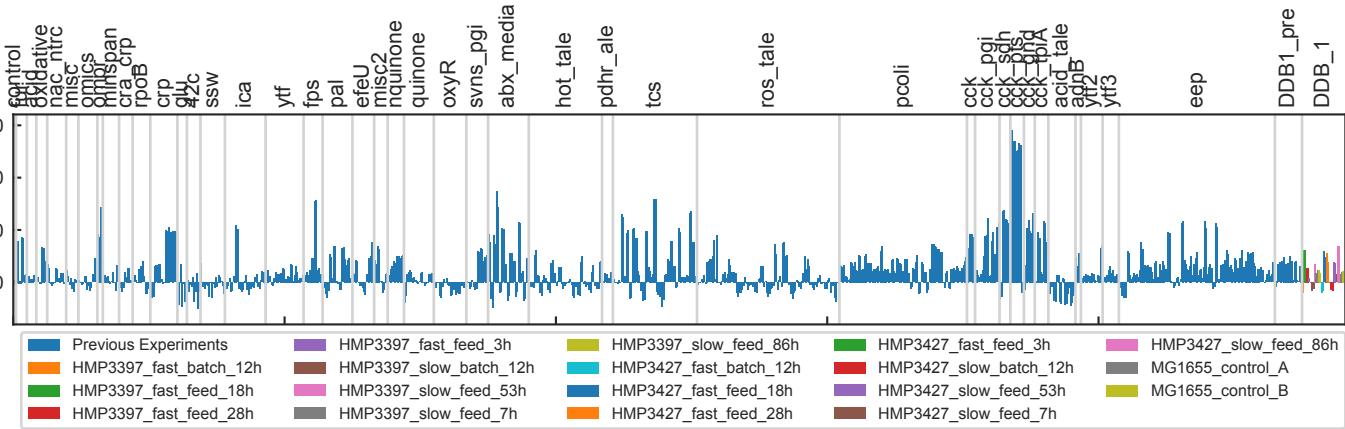
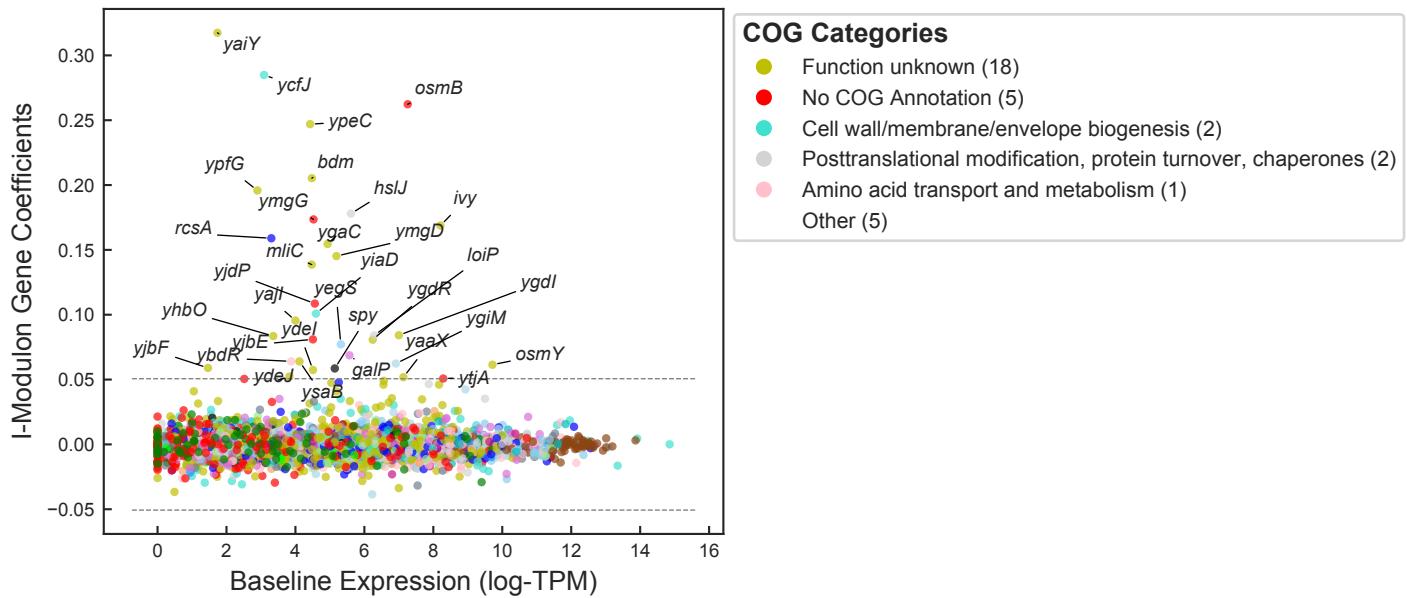
Regulated by: gadE+gadW+gadX



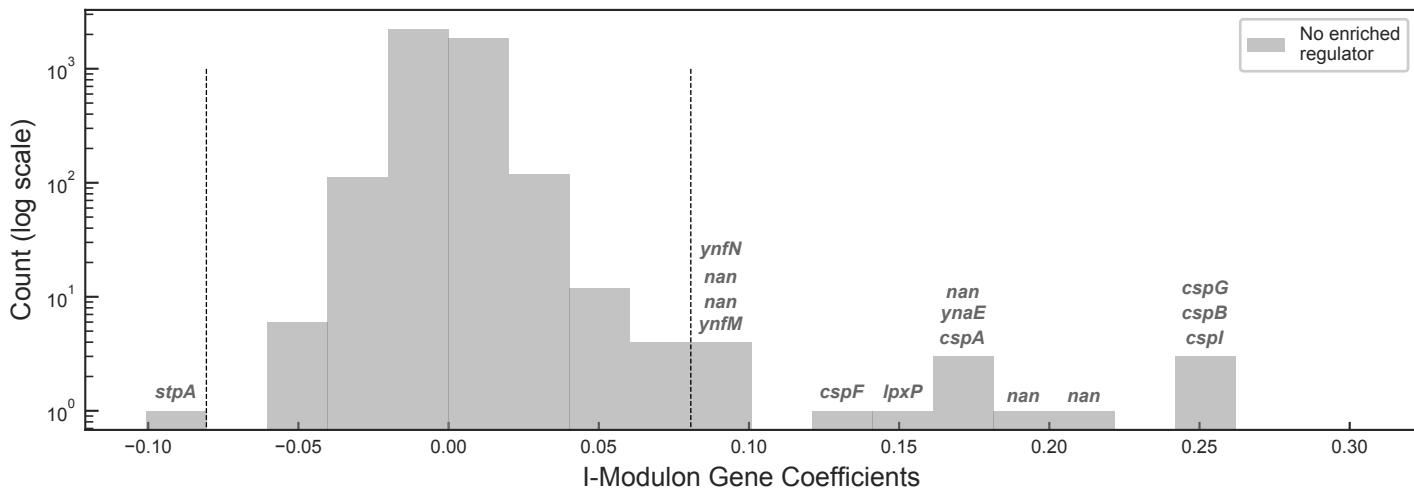
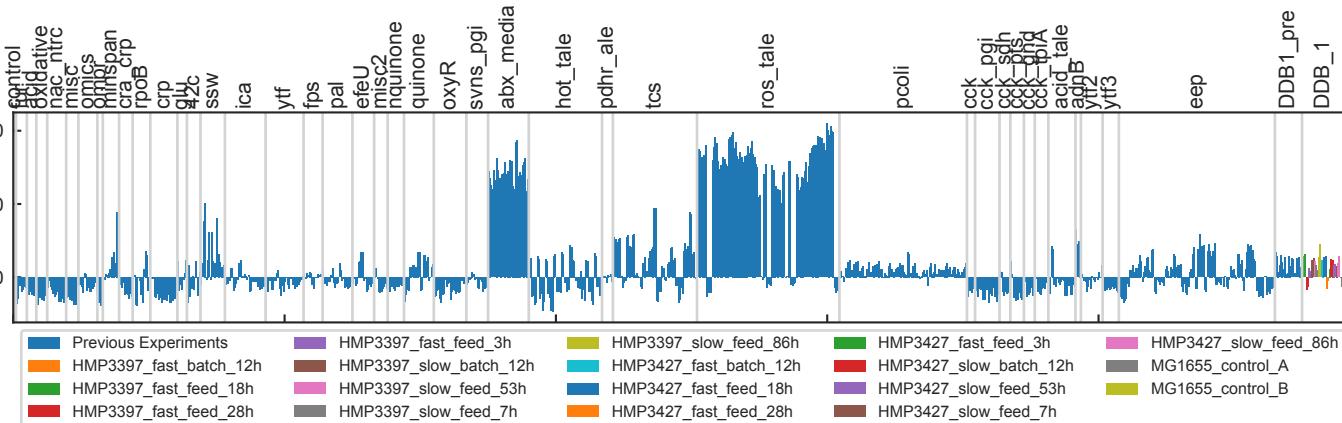
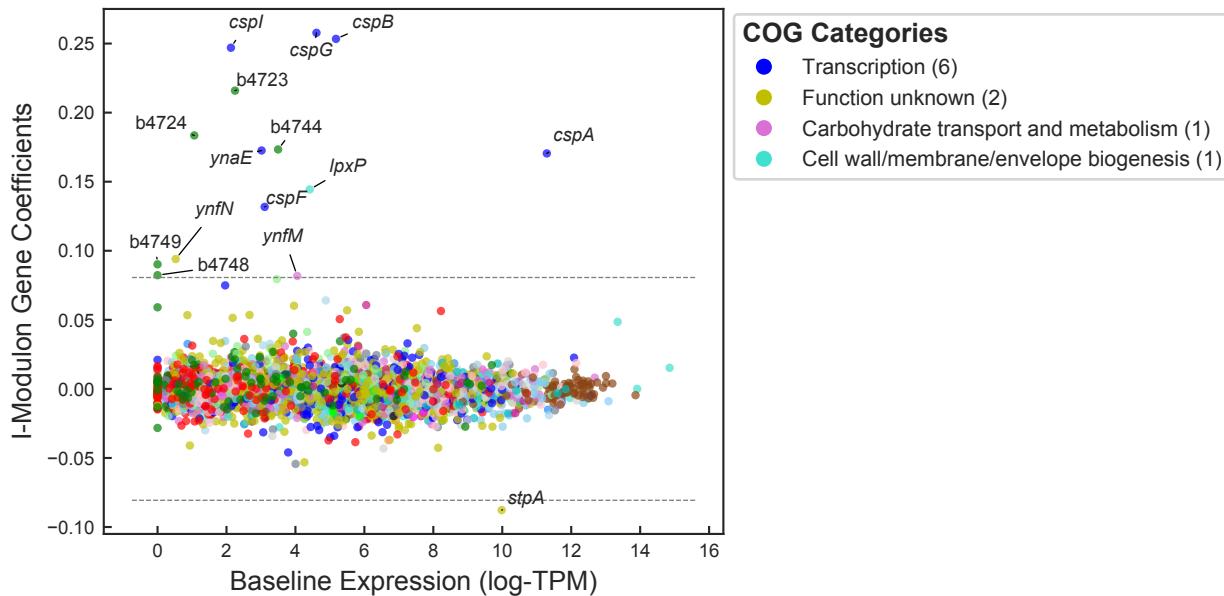
translation I-Modulon



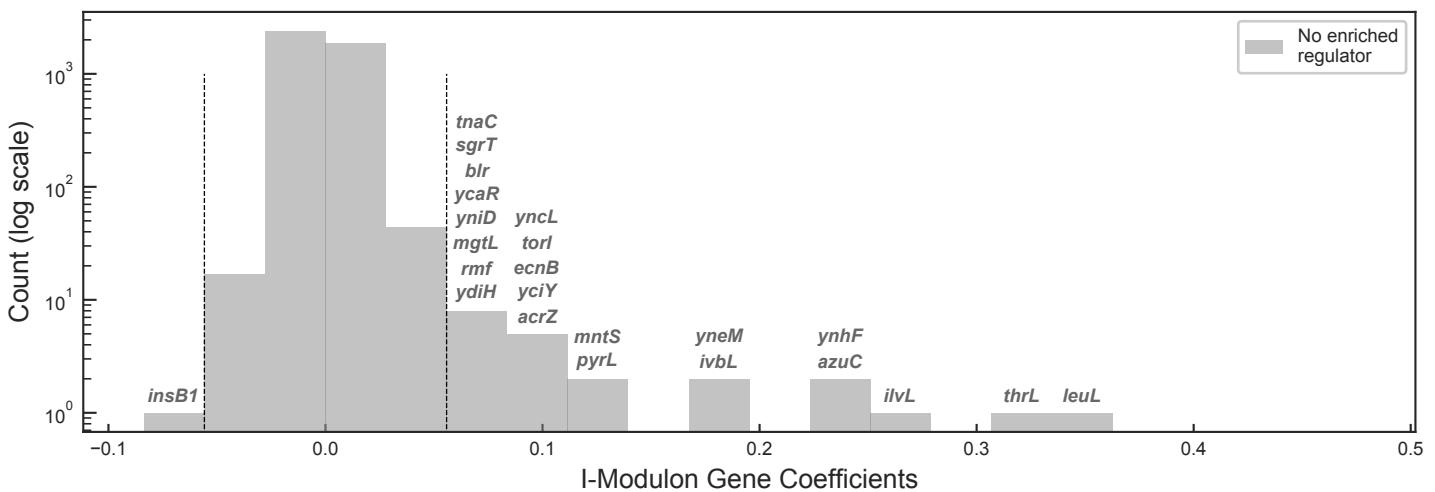
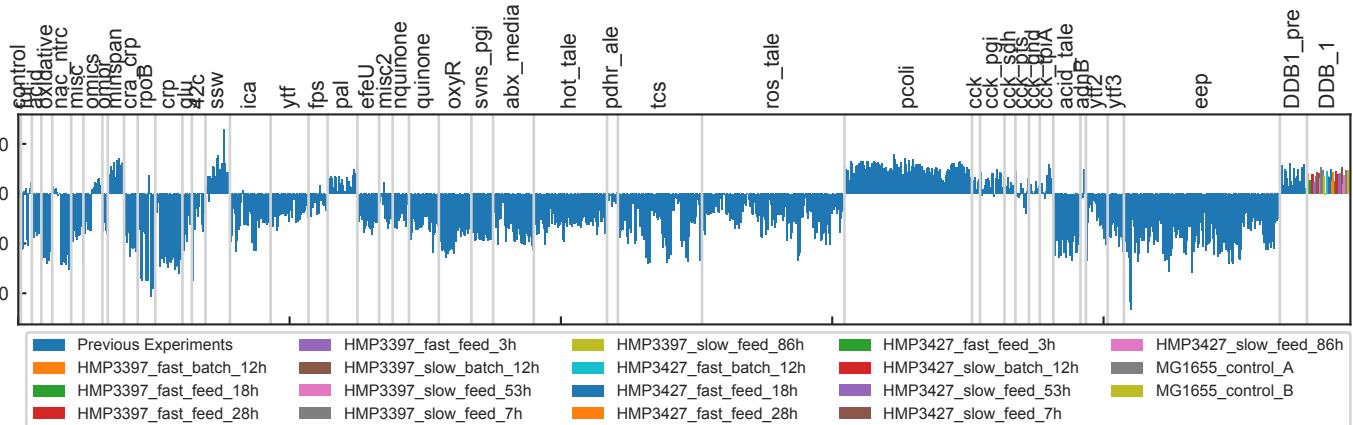
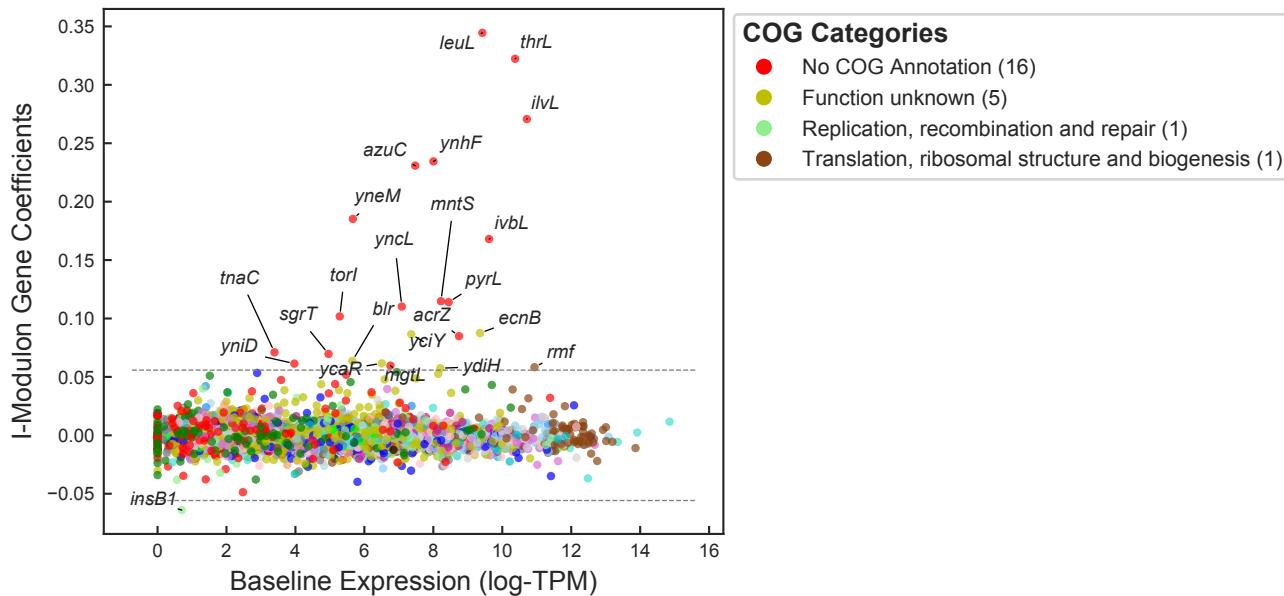
Uncharacterized I-Modulon #1



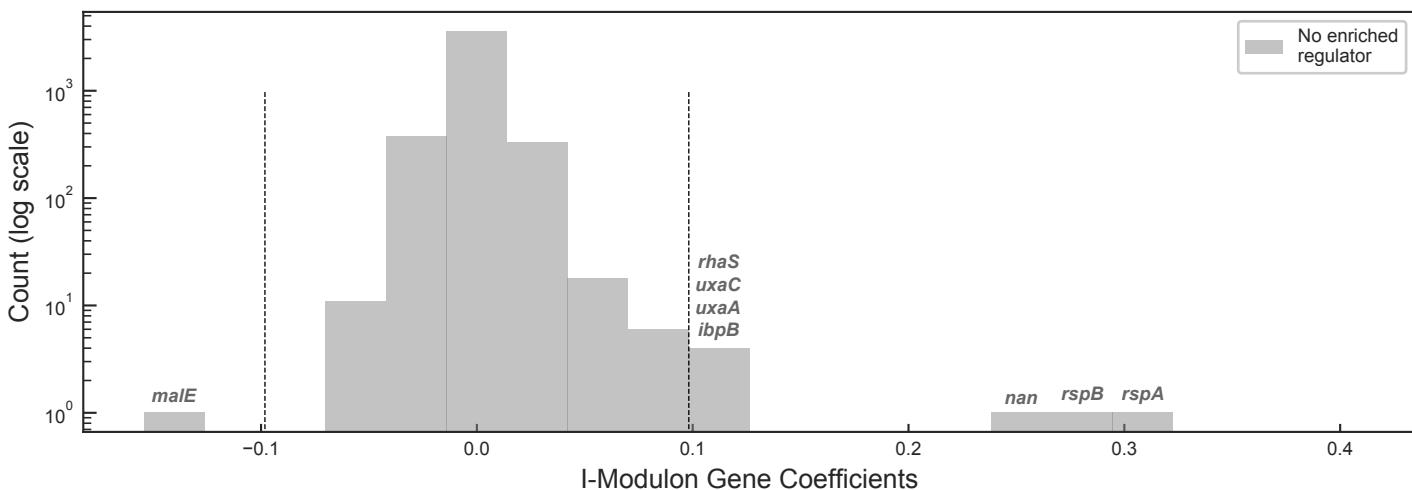
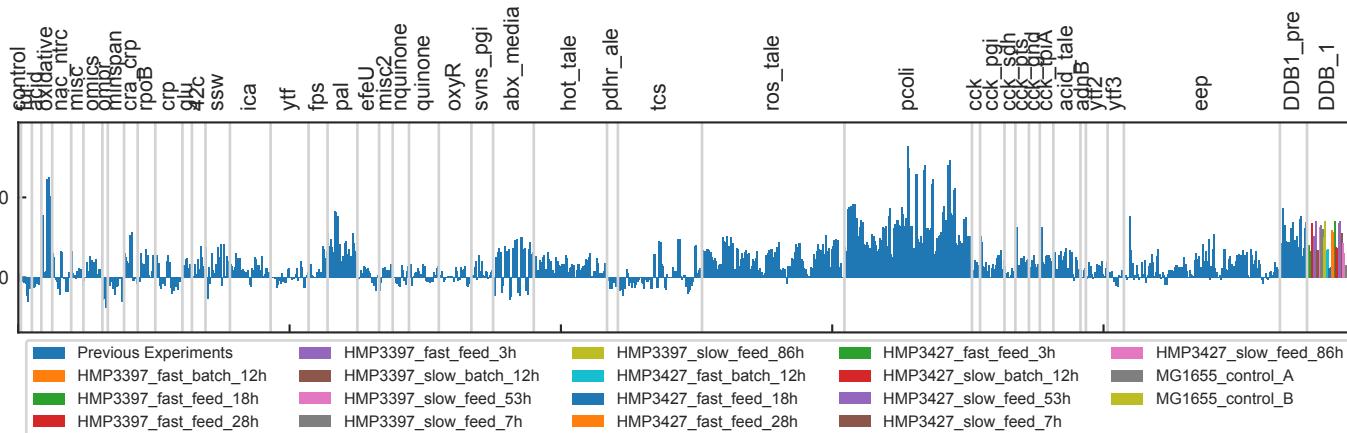
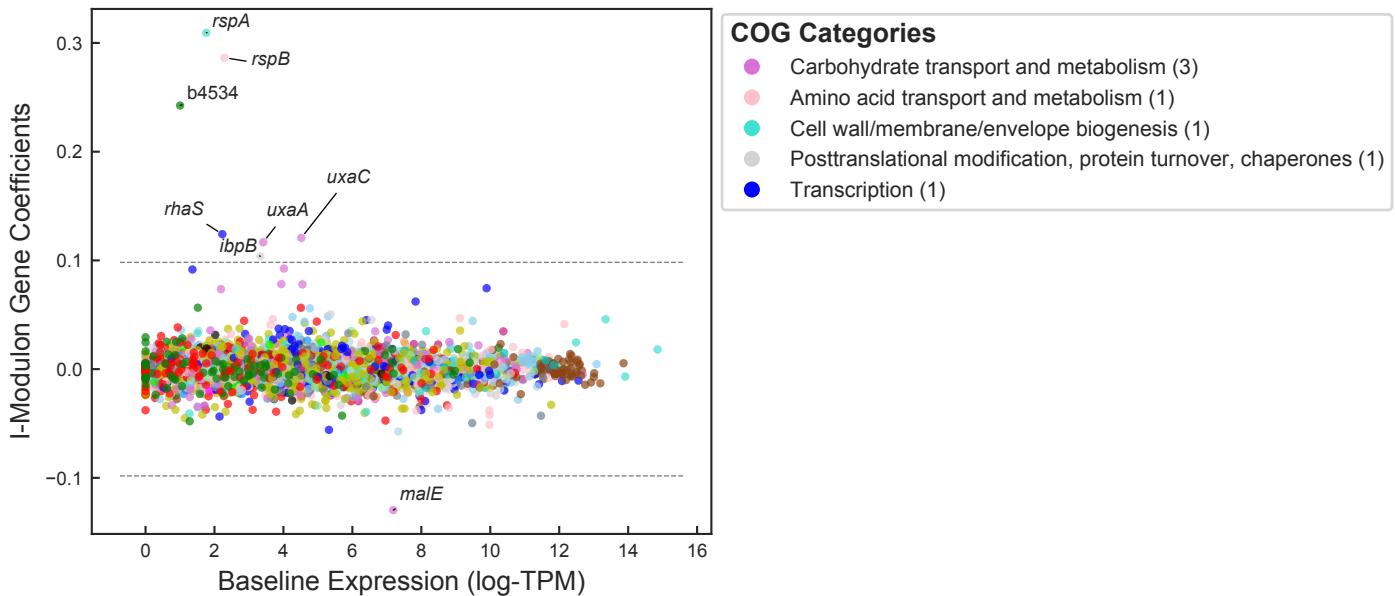
Uncharacterized I-Modulon #0



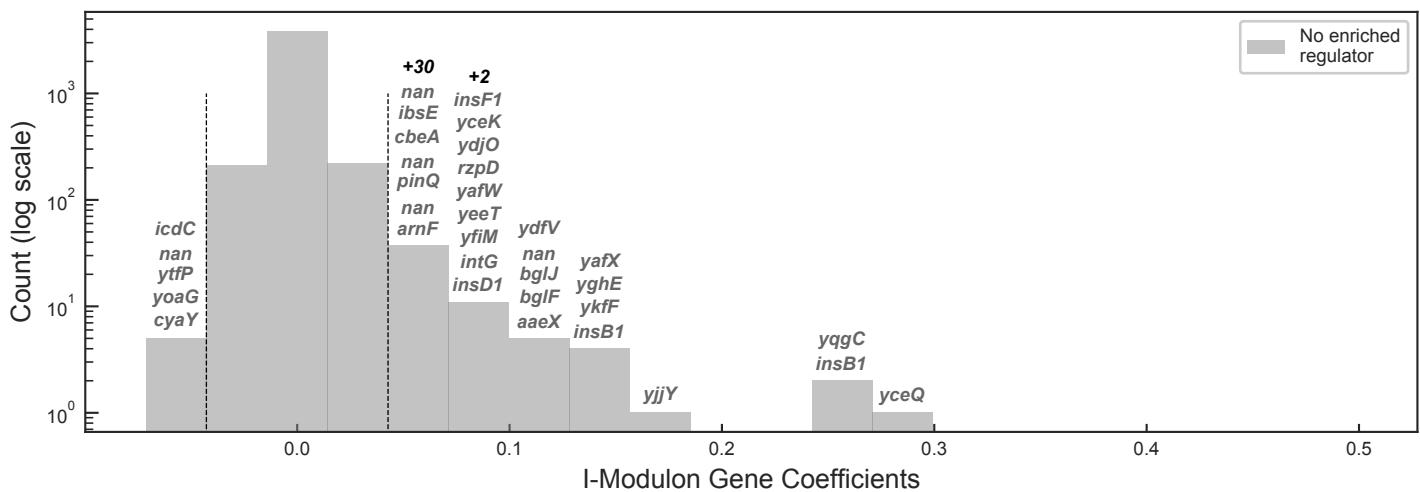
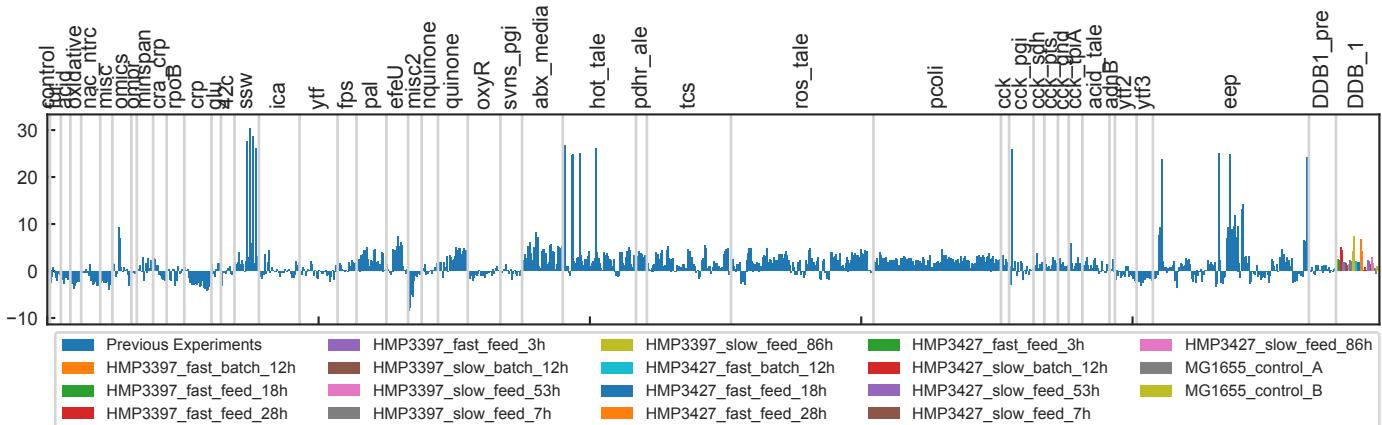
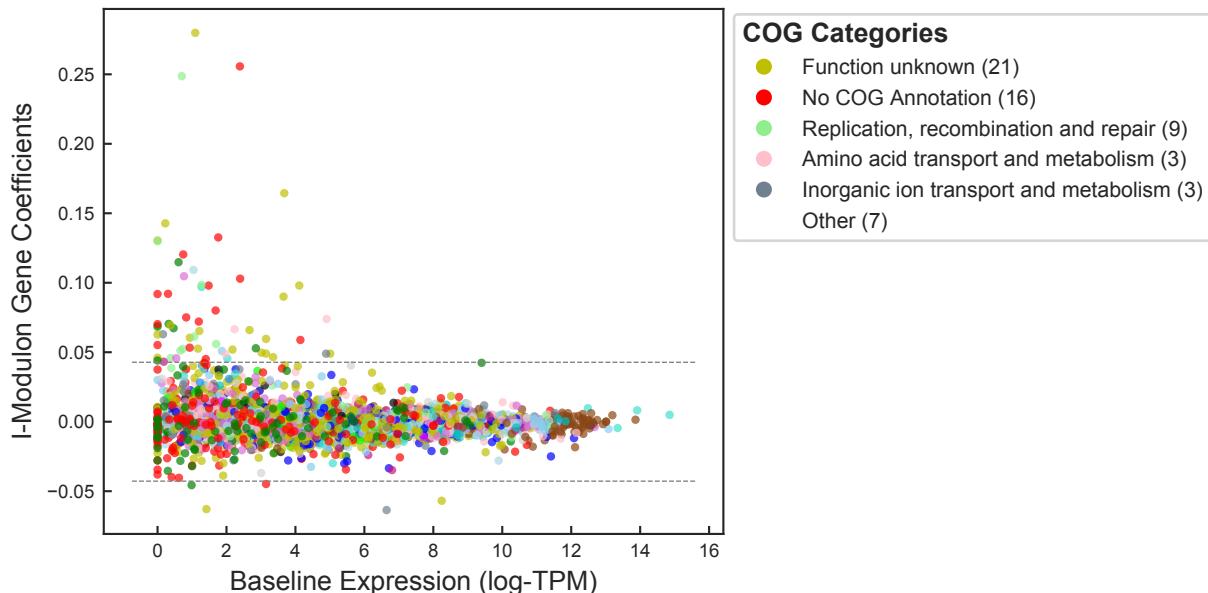
Uncharacterized I-Modulon #1



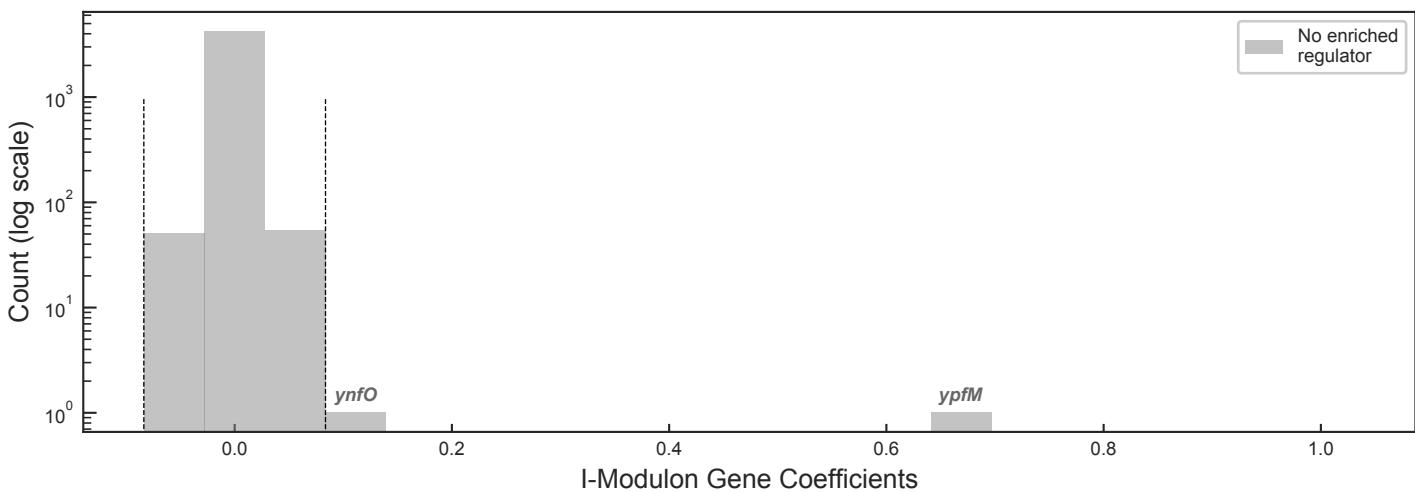
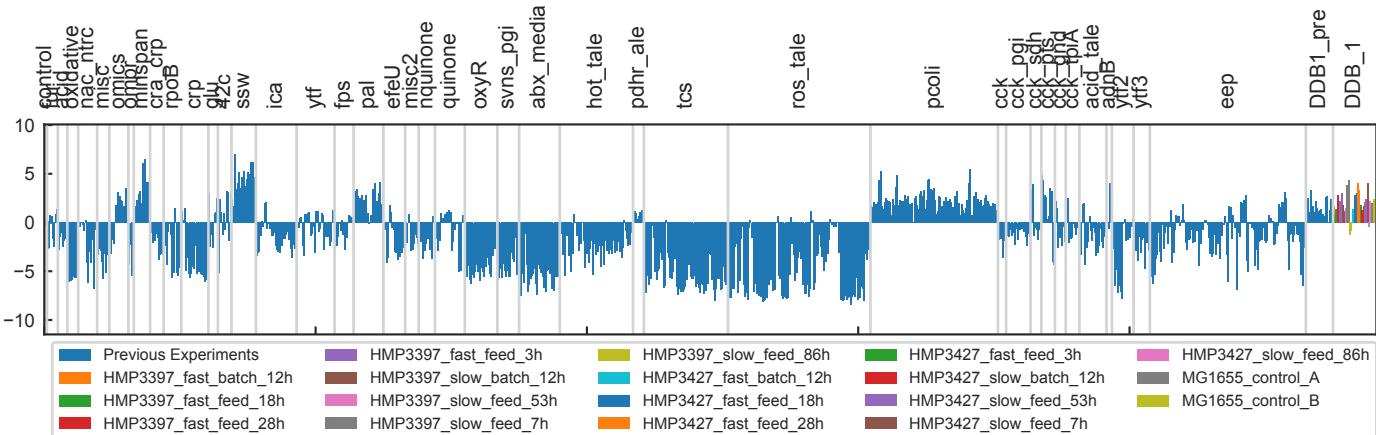
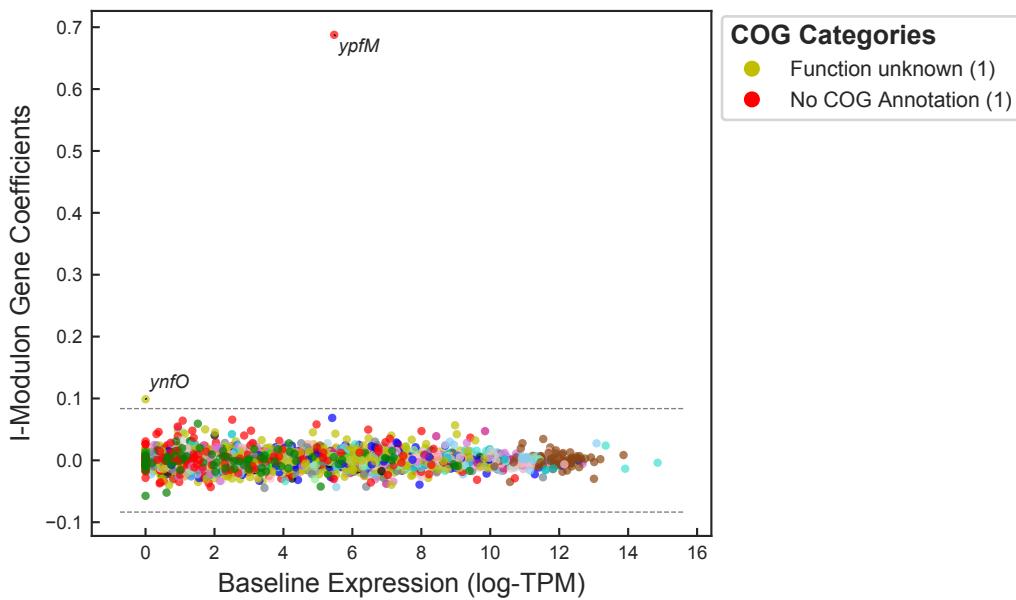
Uncharacterized I-Modulon #2



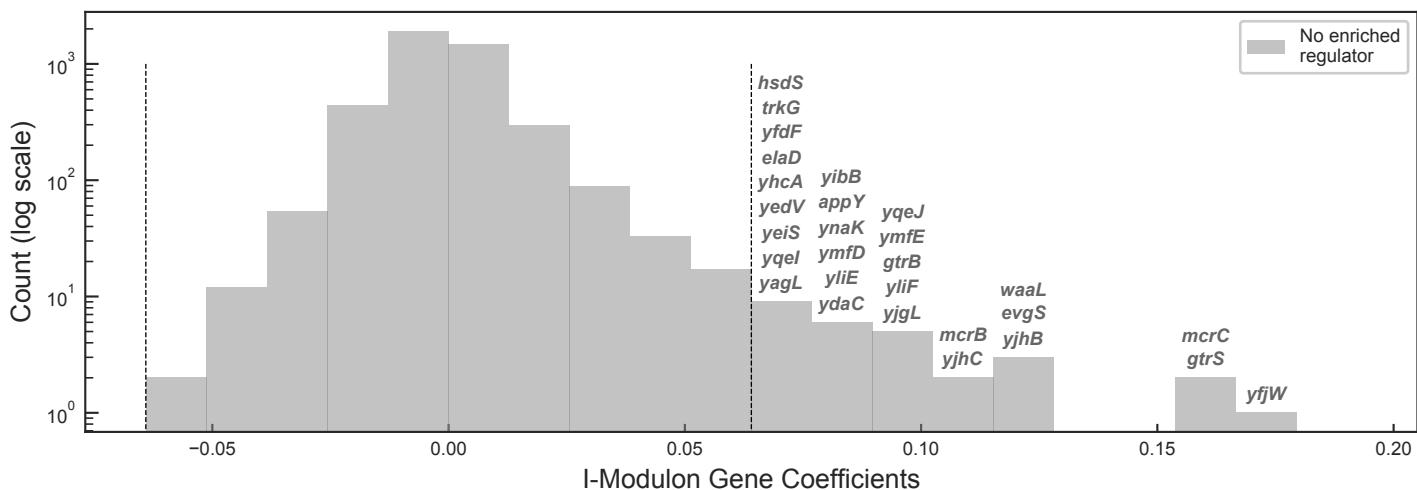
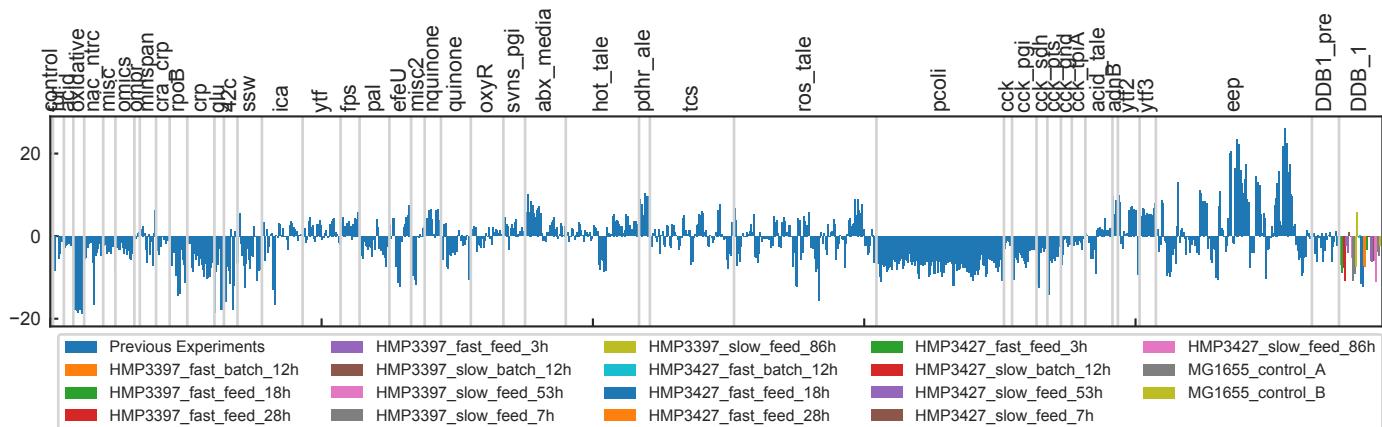
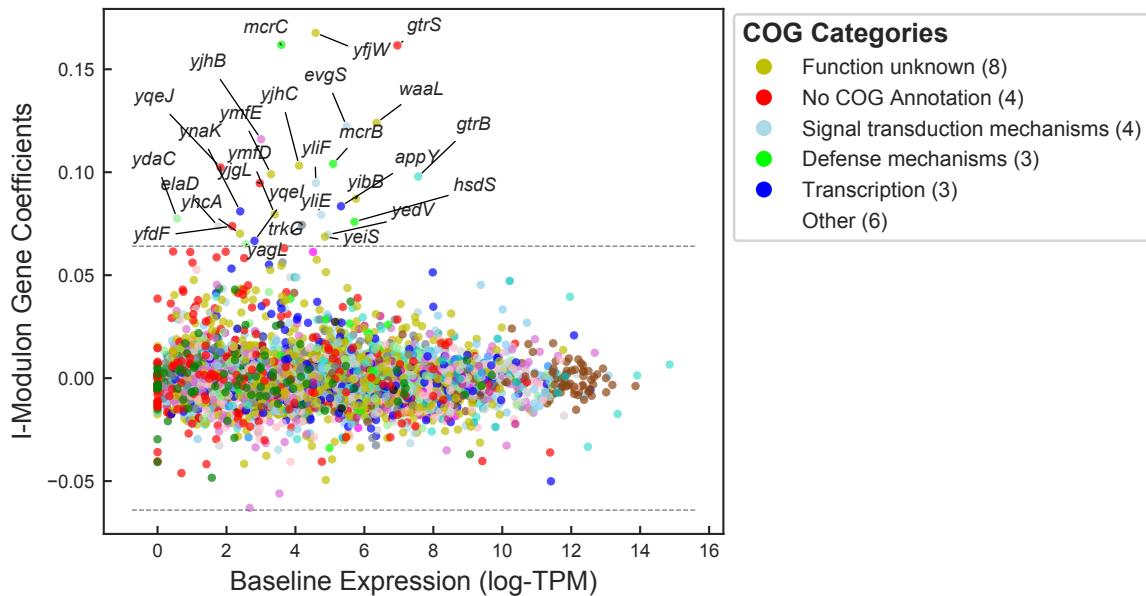
Uncharacterized I-Modulon #3



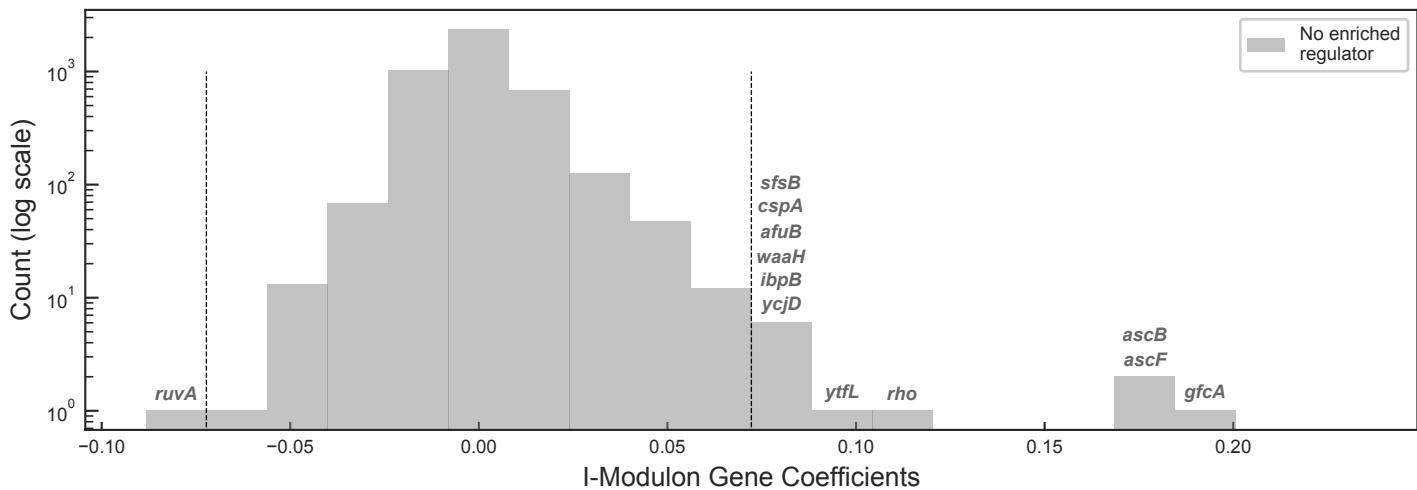
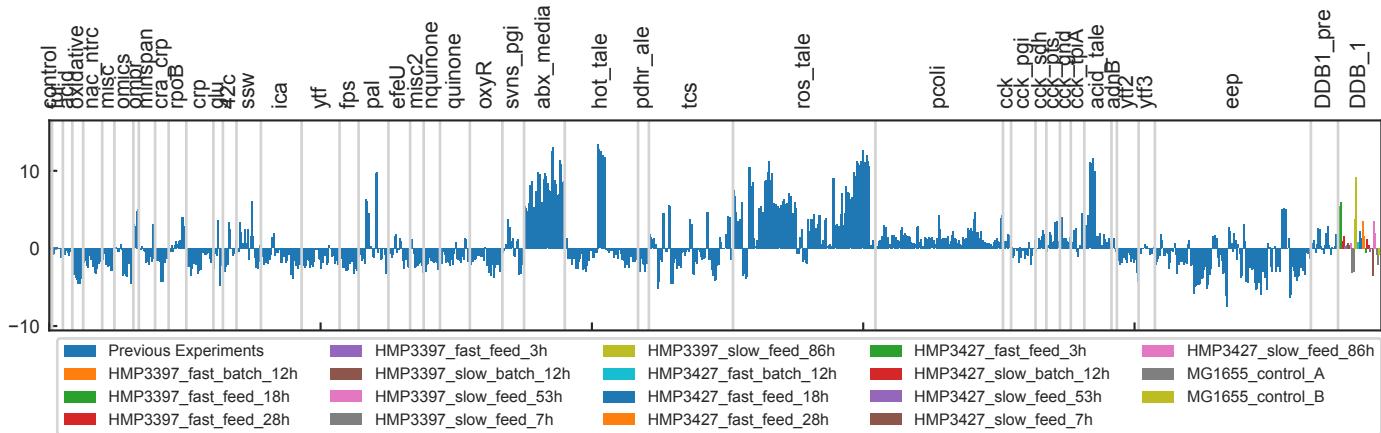
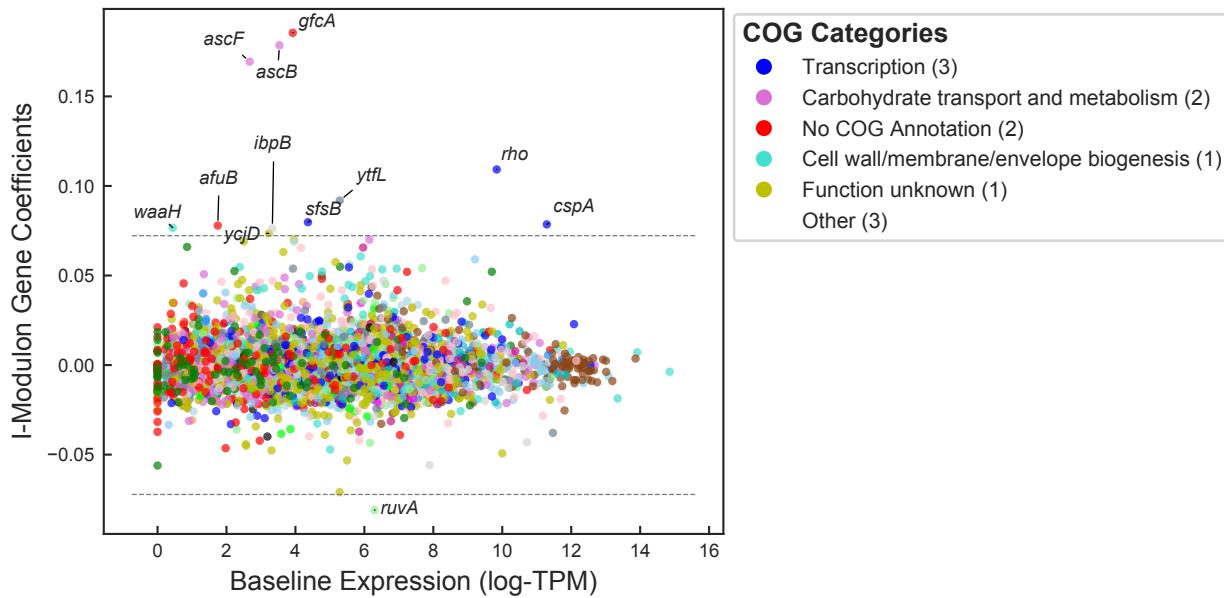
Uncharacterized I-Modulon #4



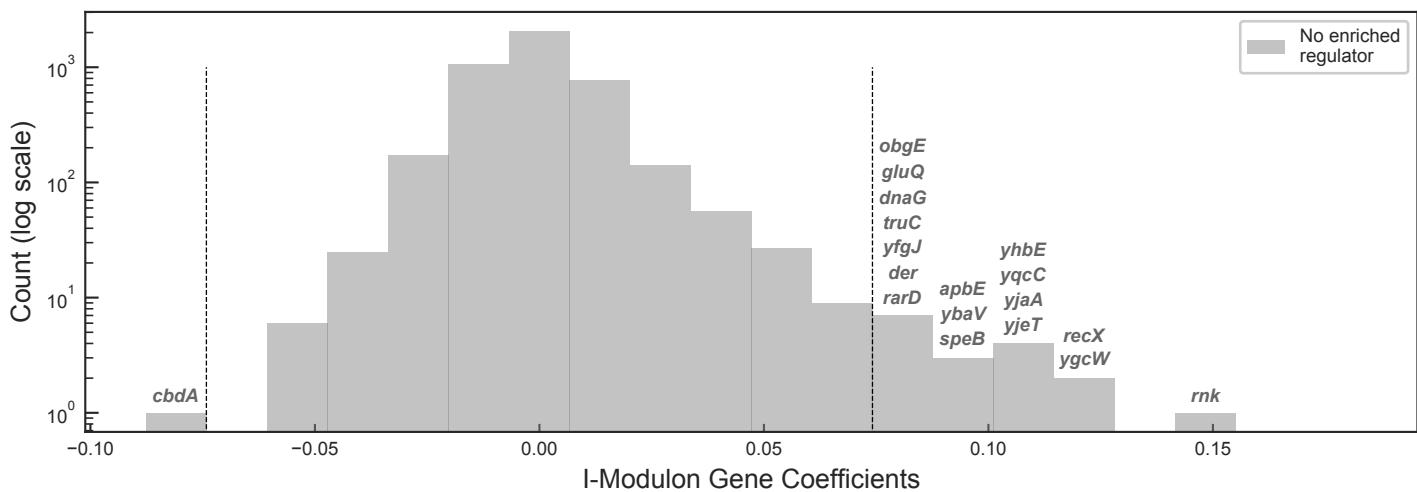
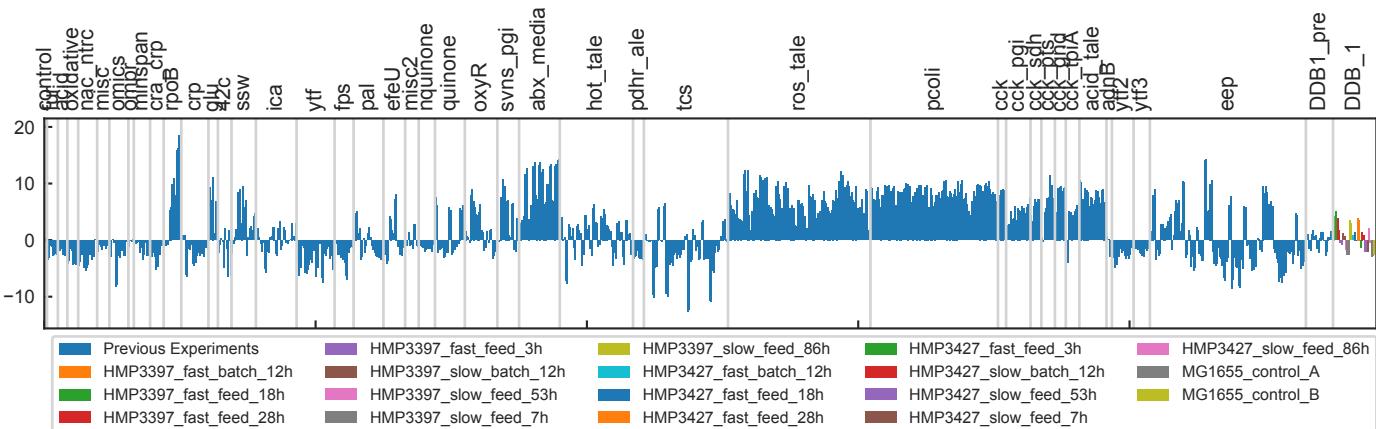
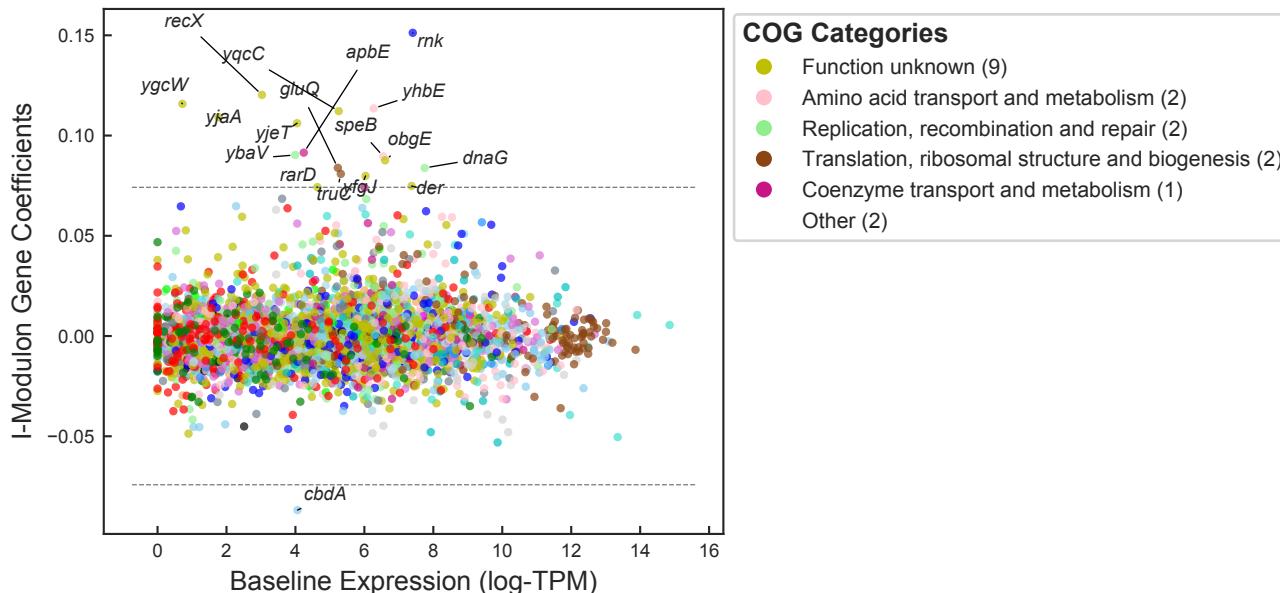
Uncharacterized I-Modulon #5



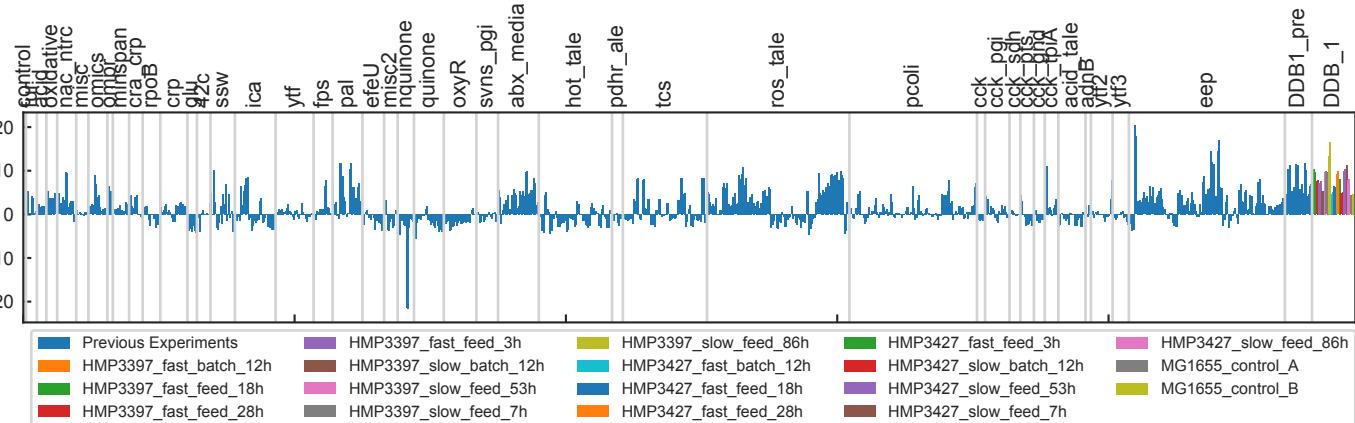
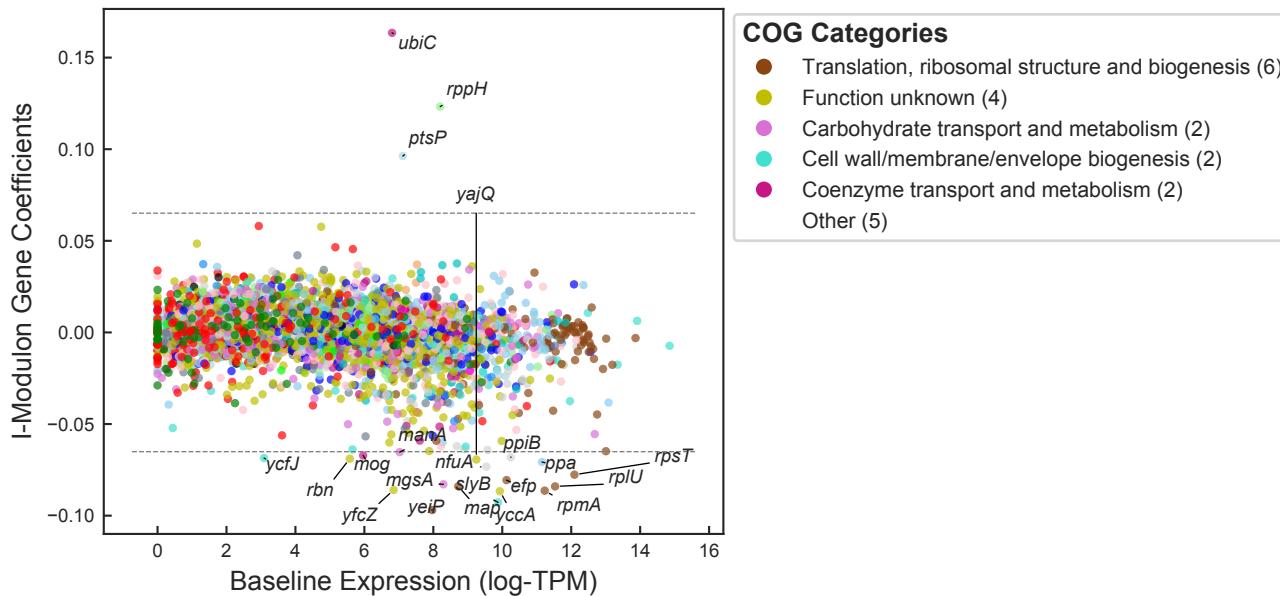
Uncharacterized I-Modulon #7



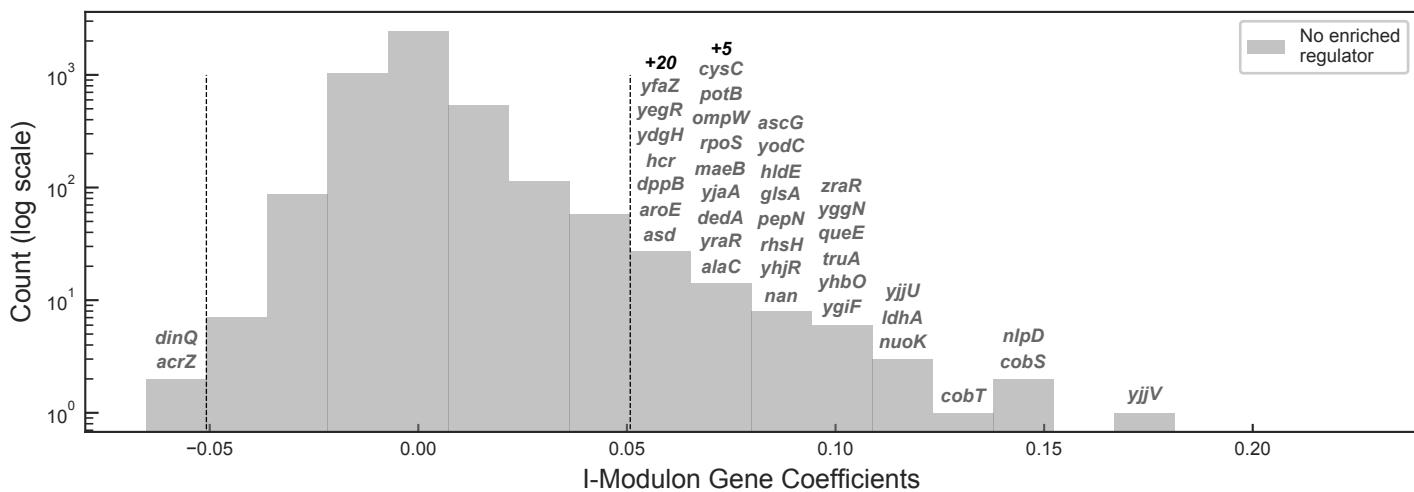
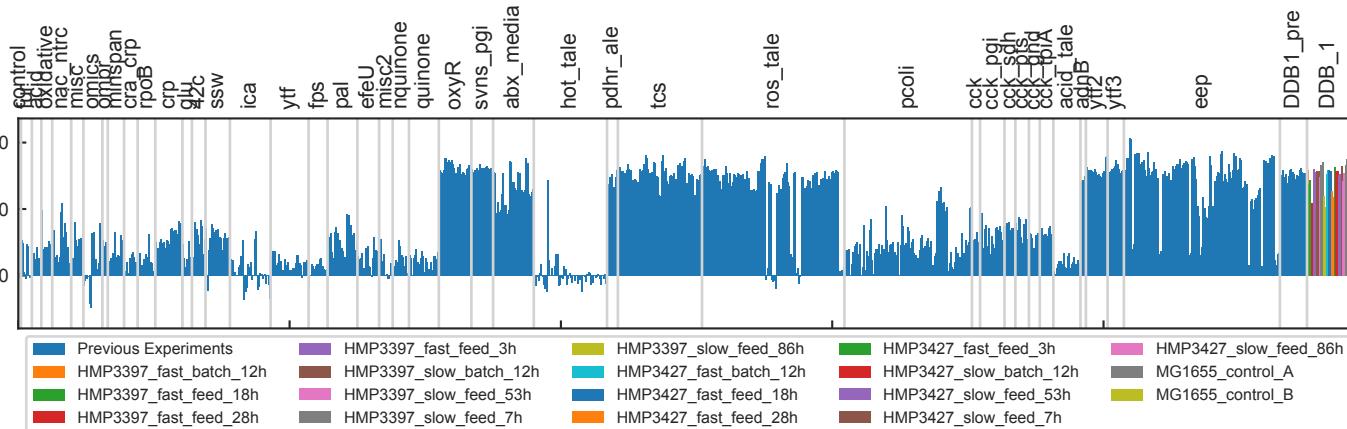
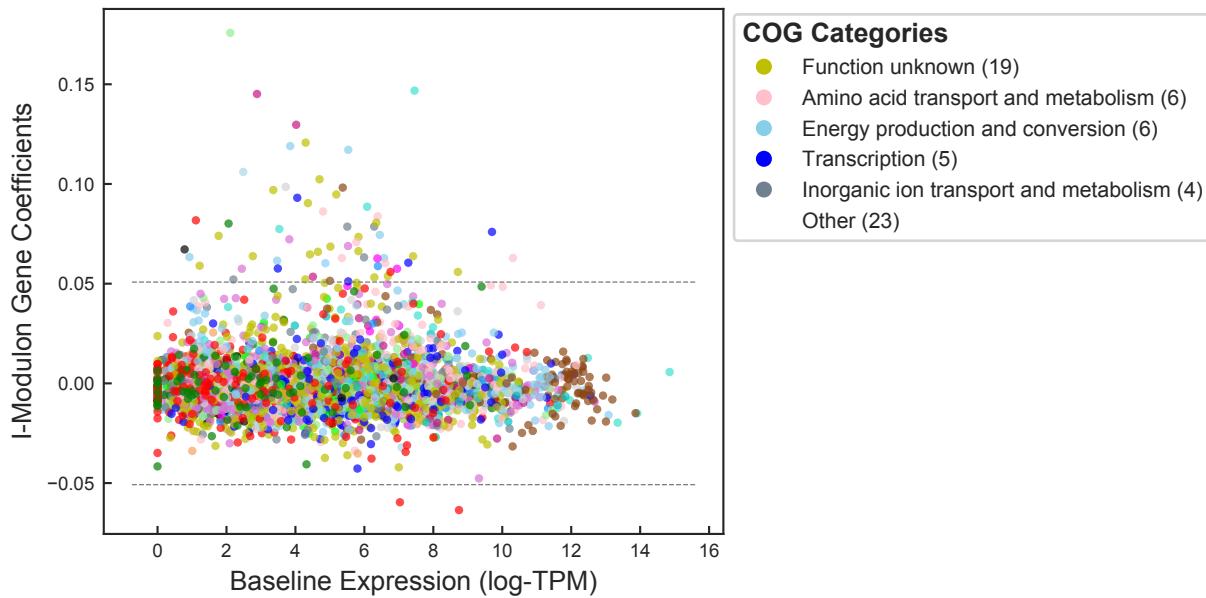
Uncharacterized I-Modulon #8



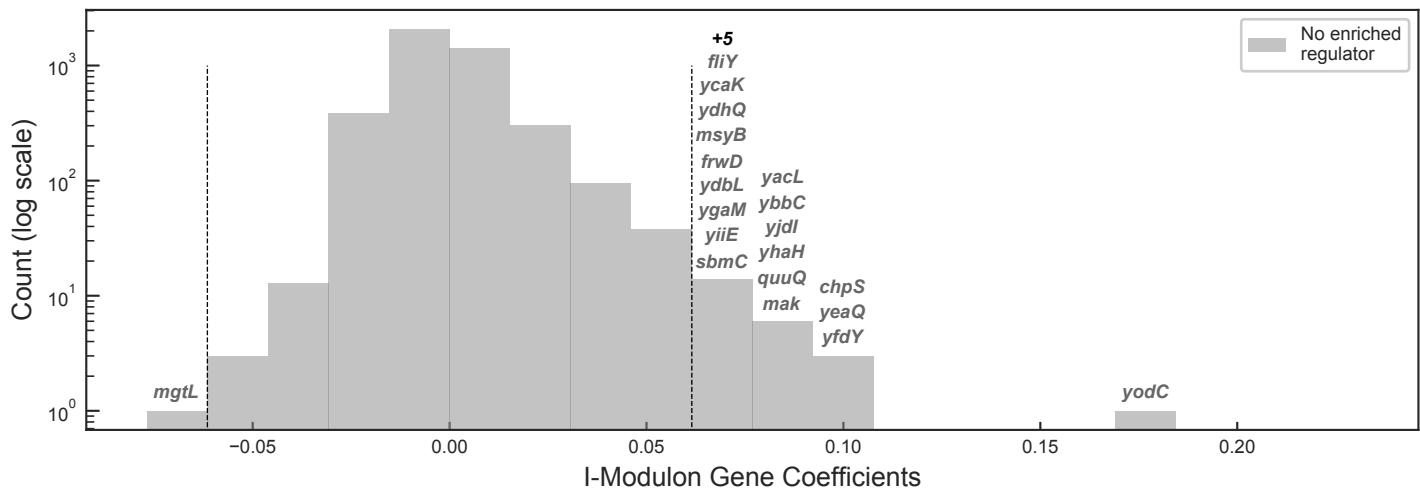
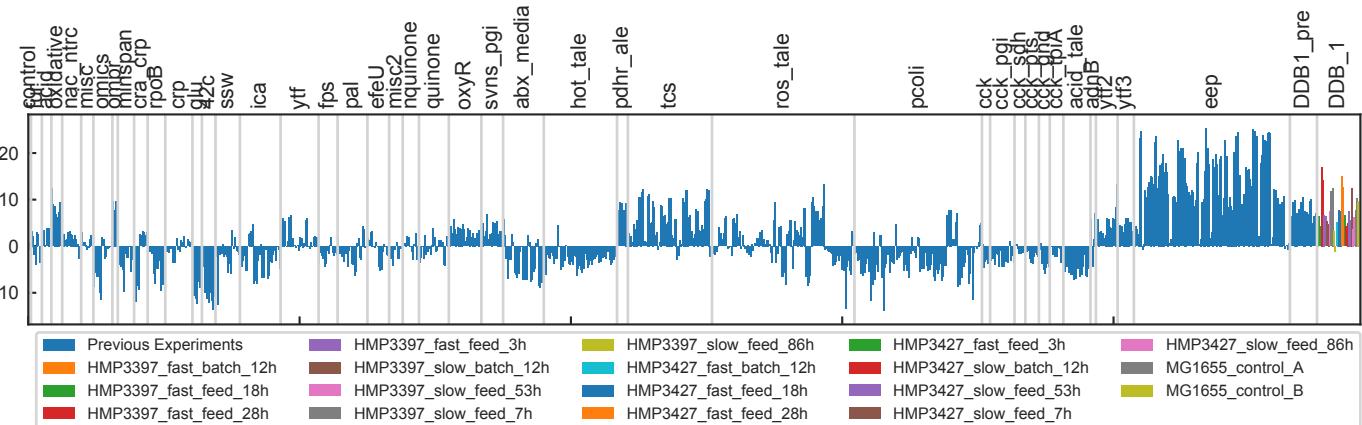
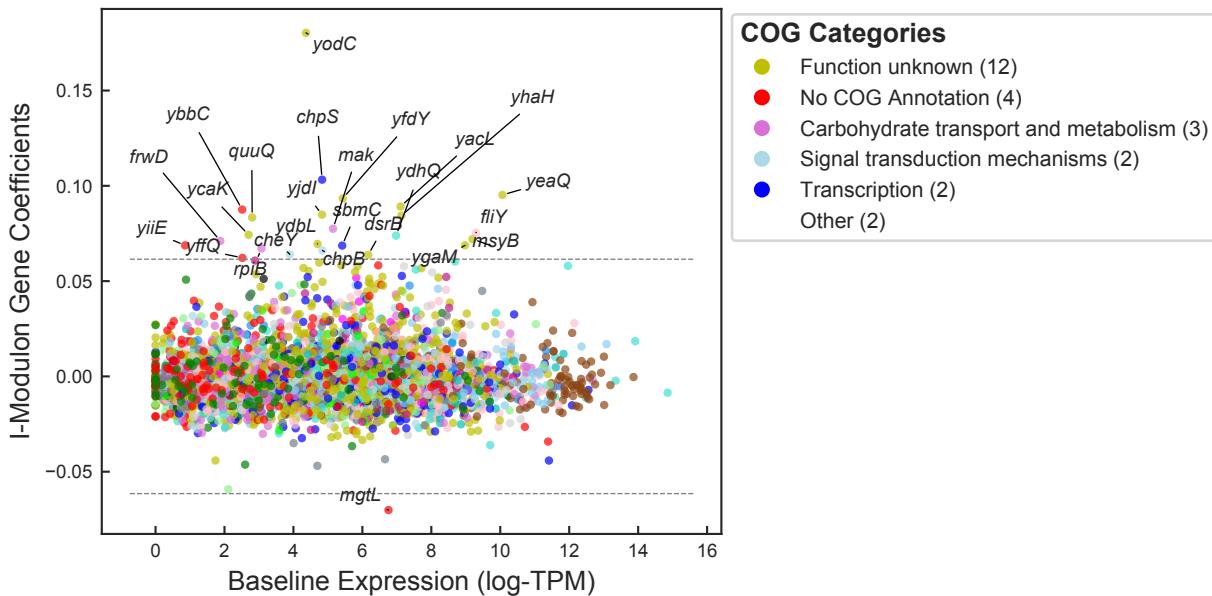
Uncharacterized I-Modulon #9



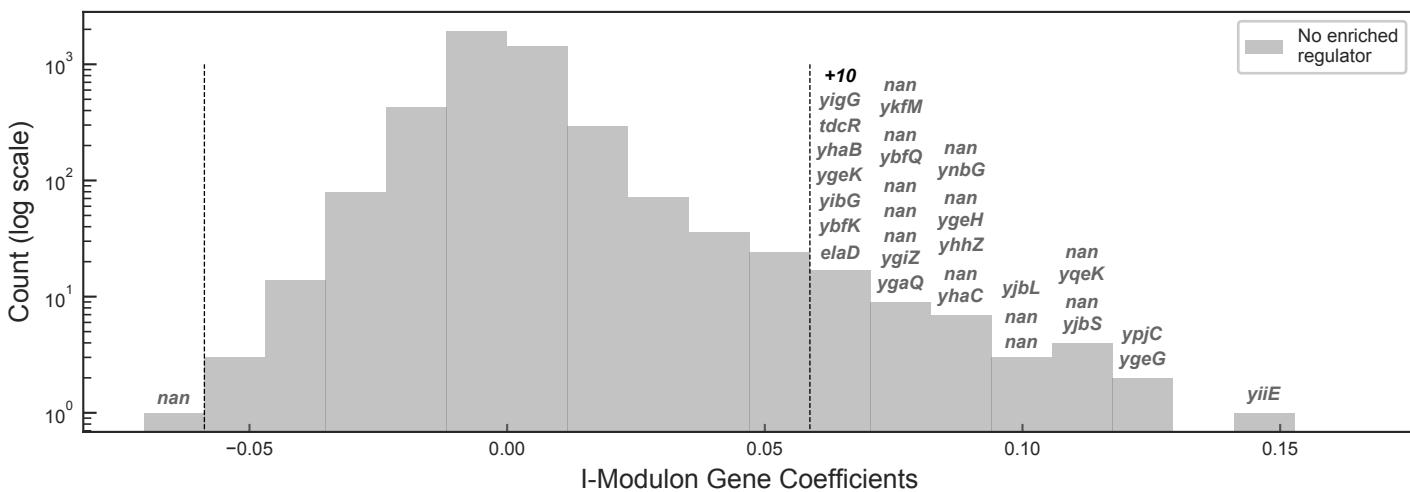
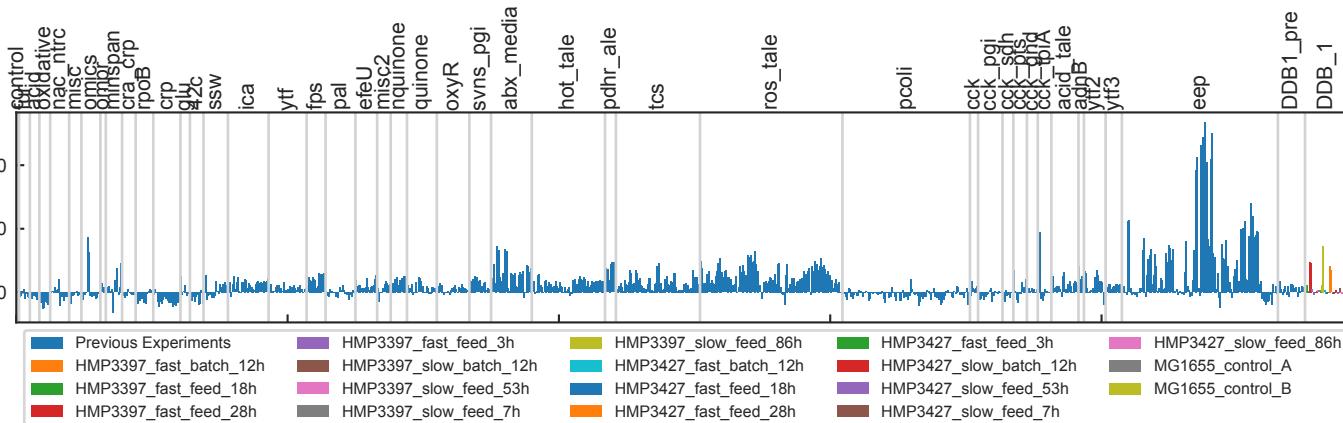
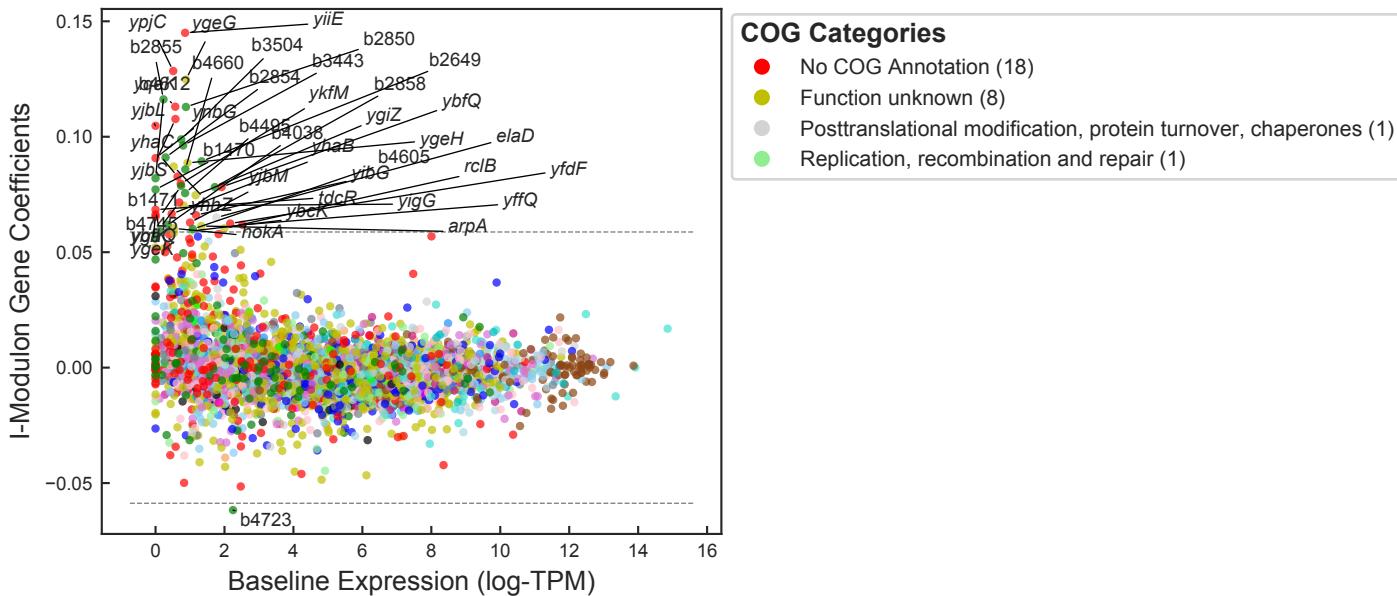
Uncharacterized I-Modulon #0



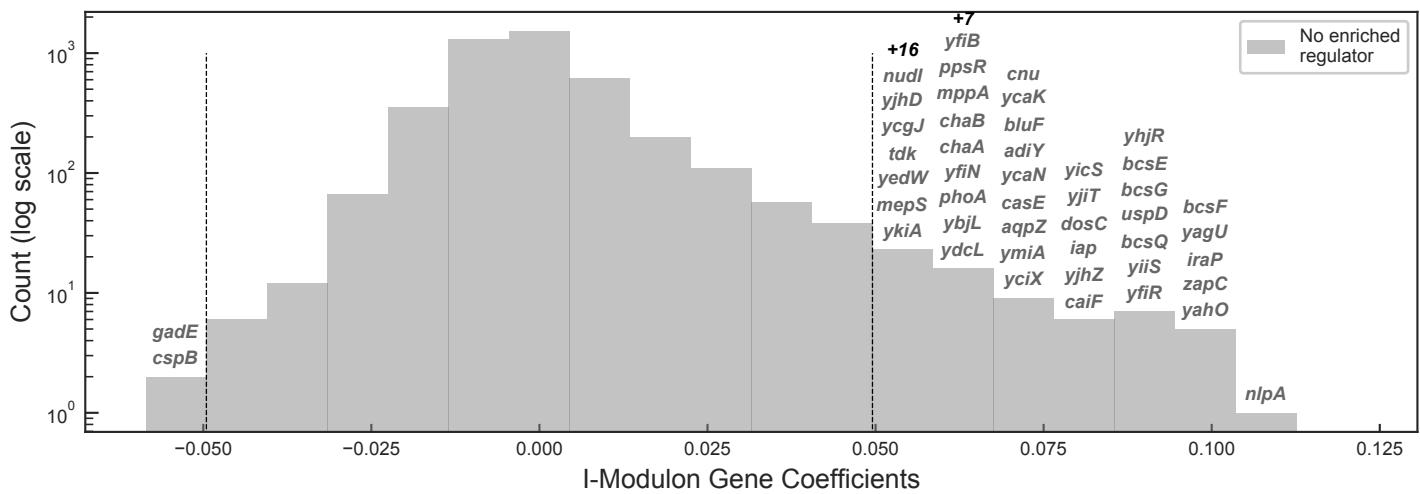
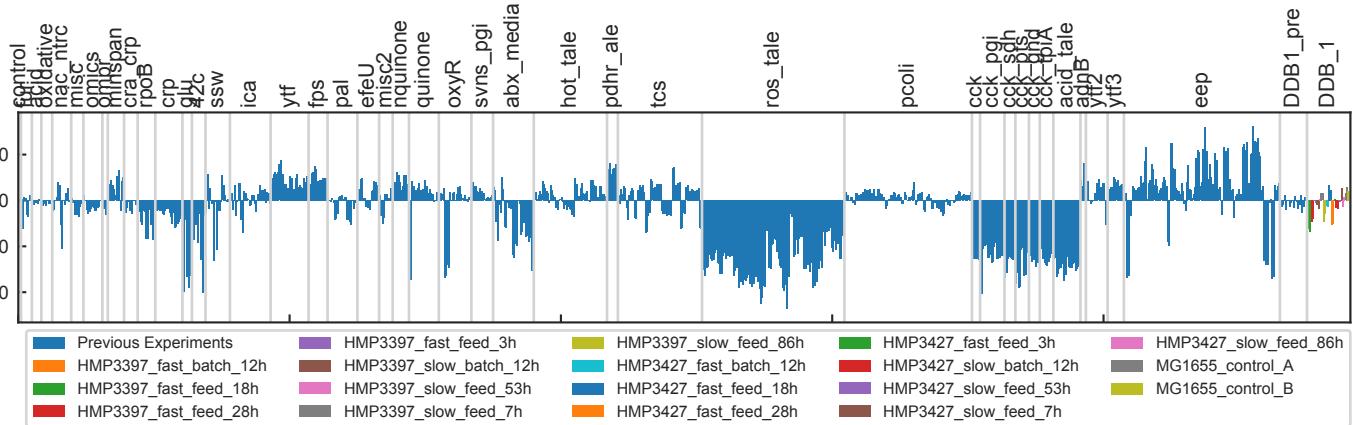
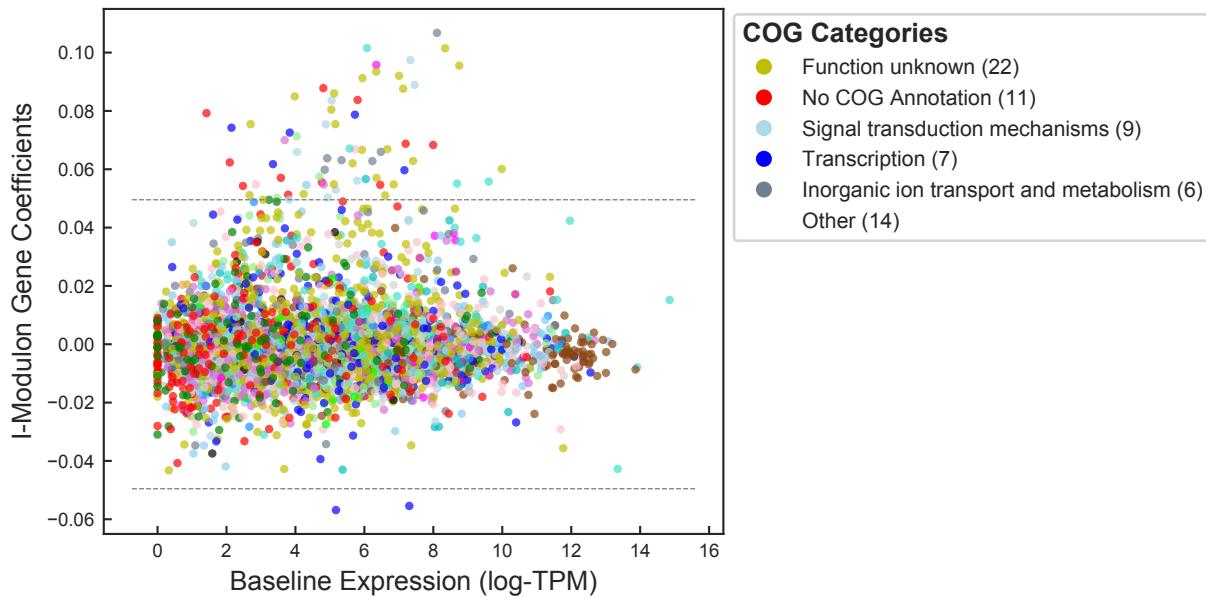
Uncharacterized I-Modulon #1



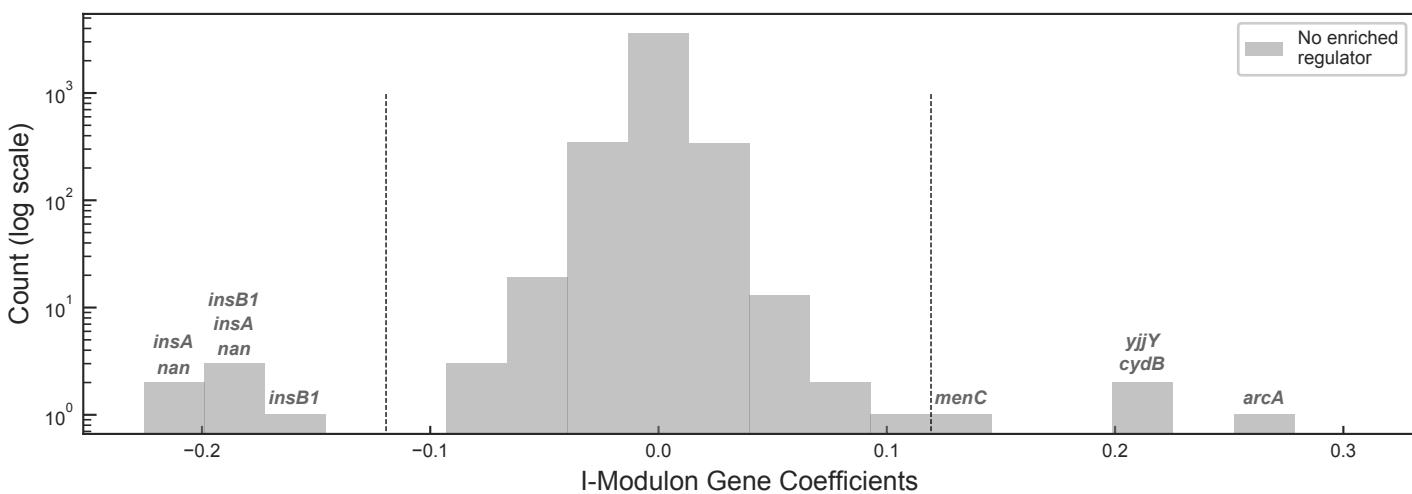
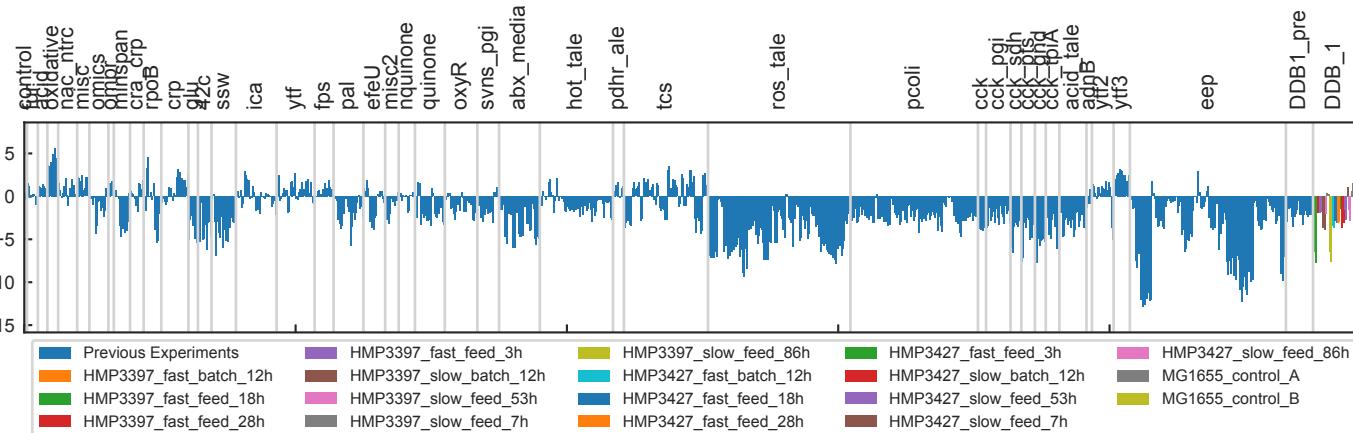
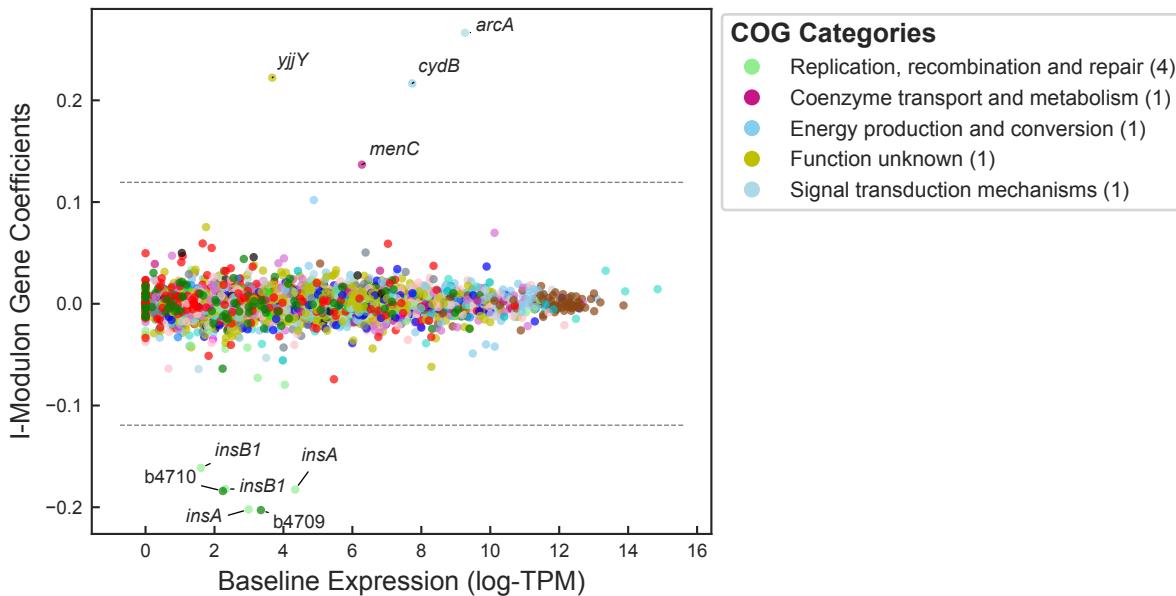
Uncharacterized I-Modulon #2



Uncharacterized I-Modulon #6



Uncharacterized I-Modulon #8



Uncharacterized I-Modulon #9

