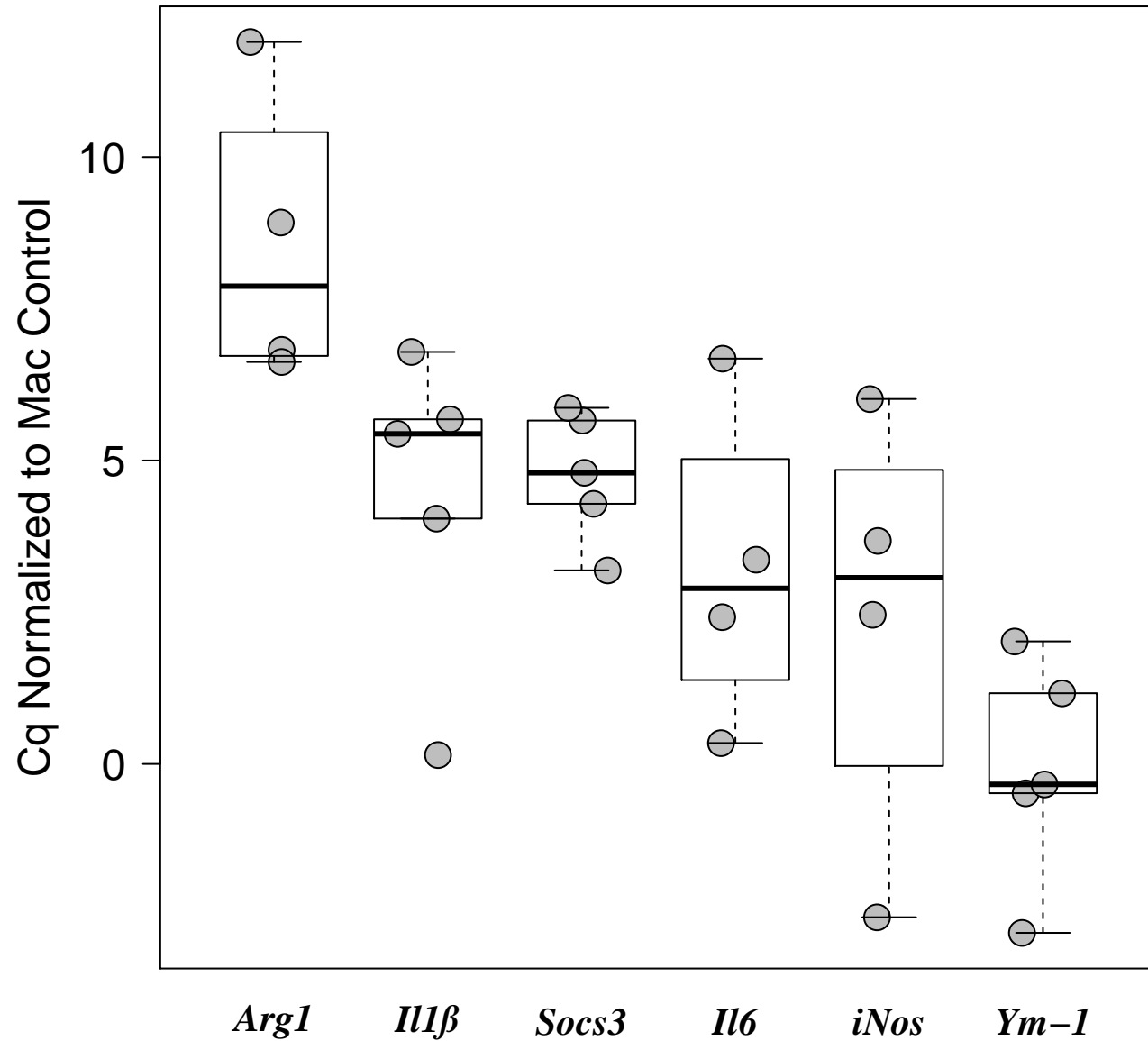
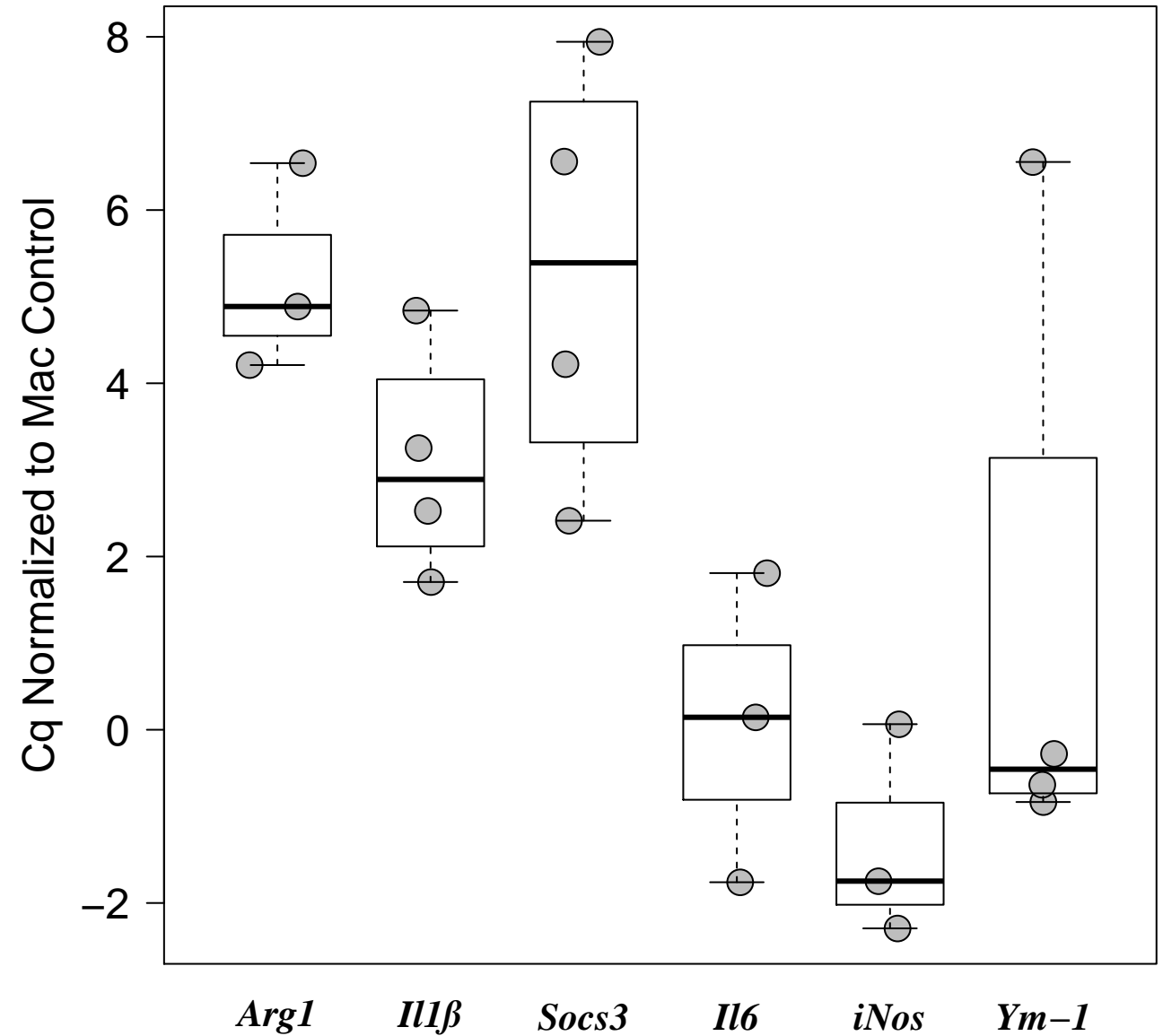


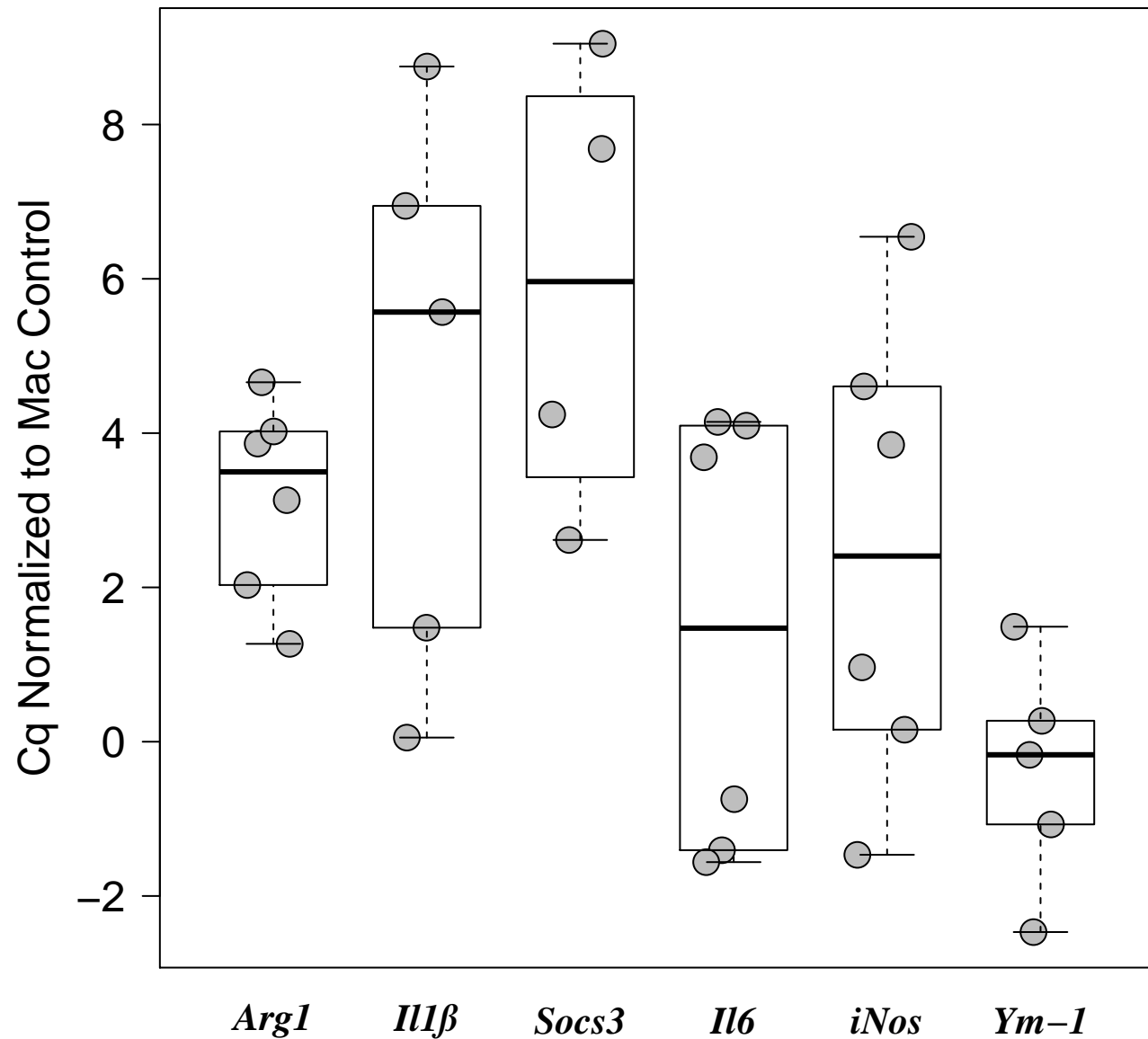
A427 (Arg1 SD = 2.5)



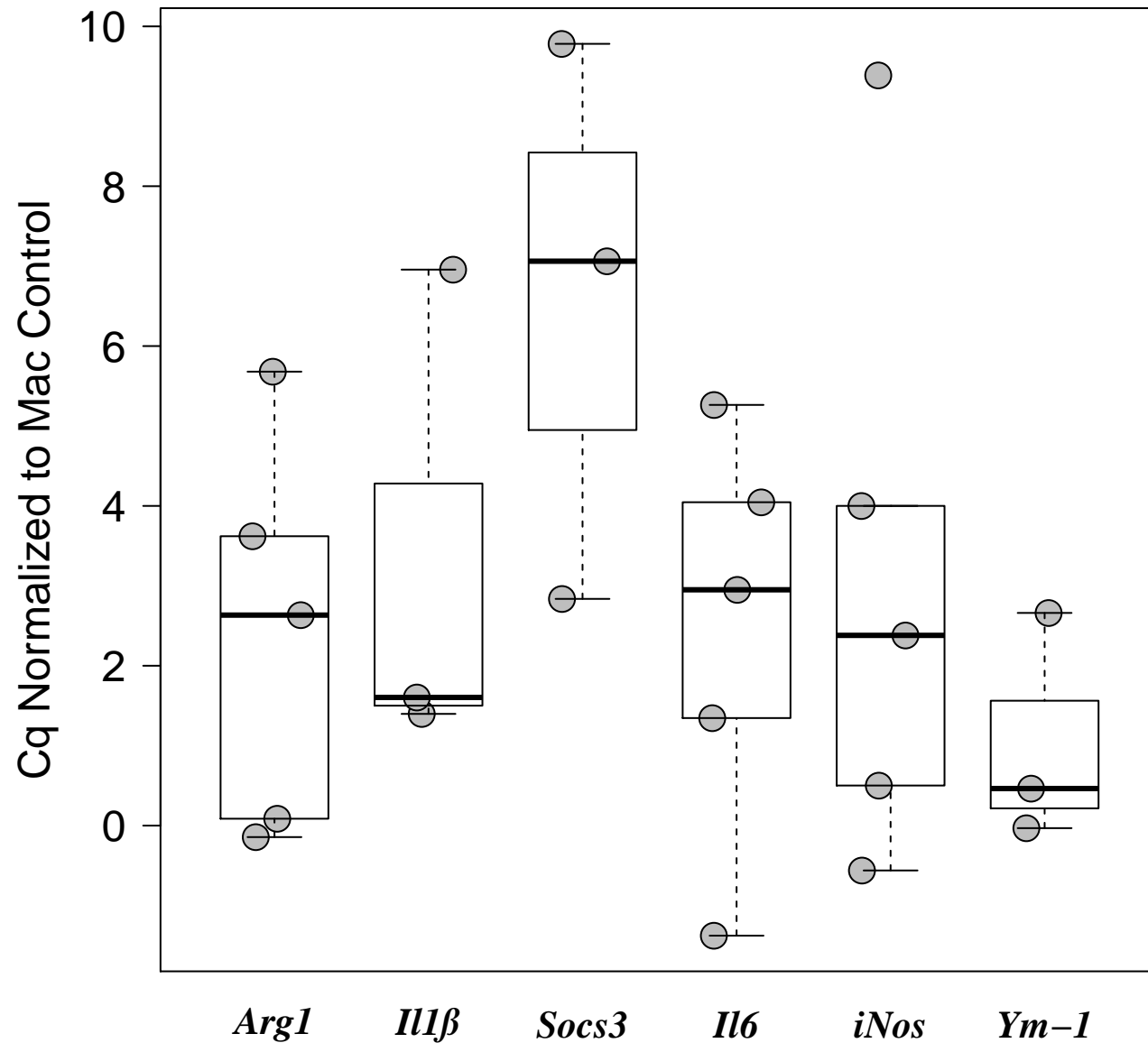
A549 (Arg1 SD = 1.2)



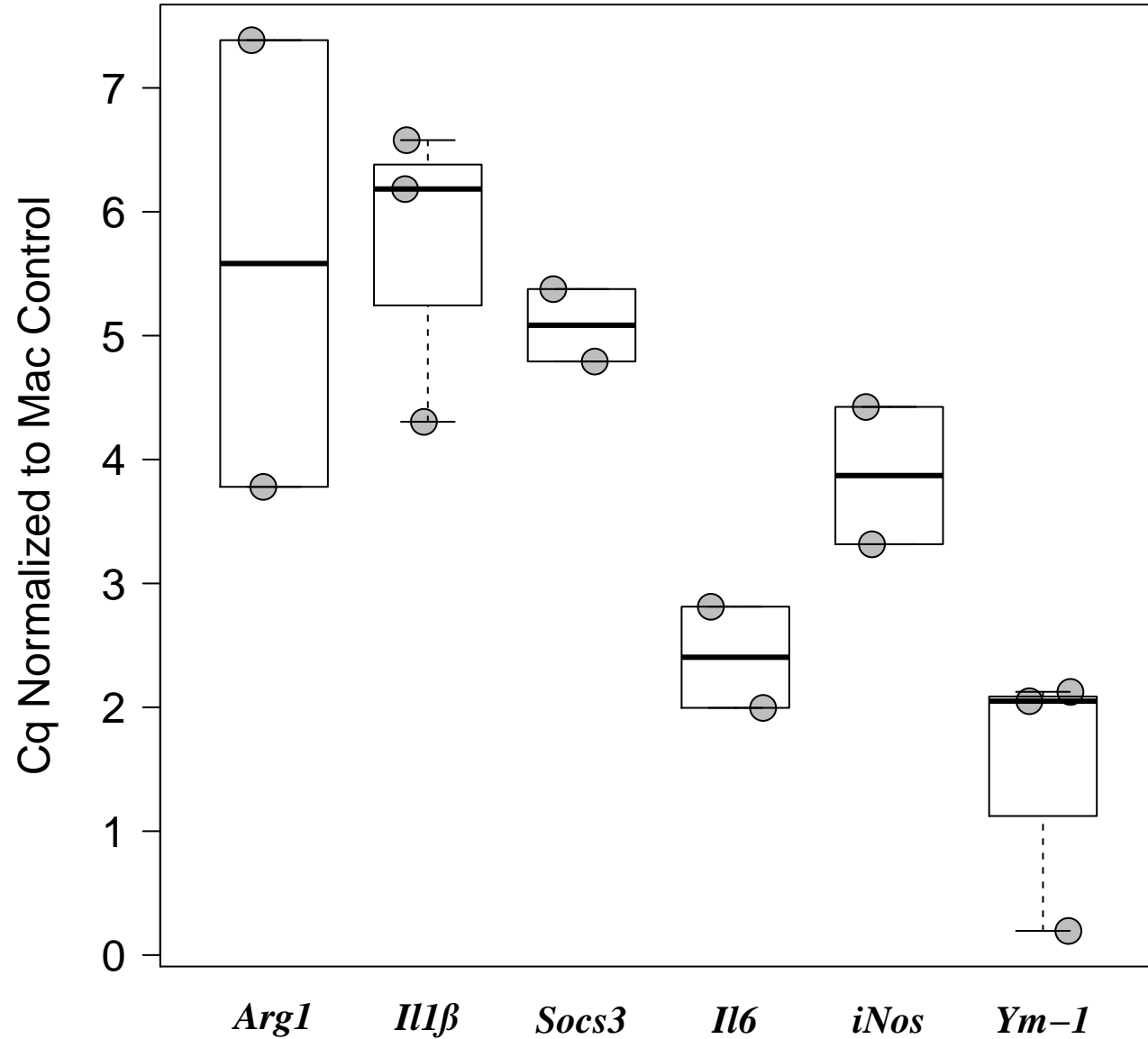
Calu-1 (Arg1 SD = 1.3)



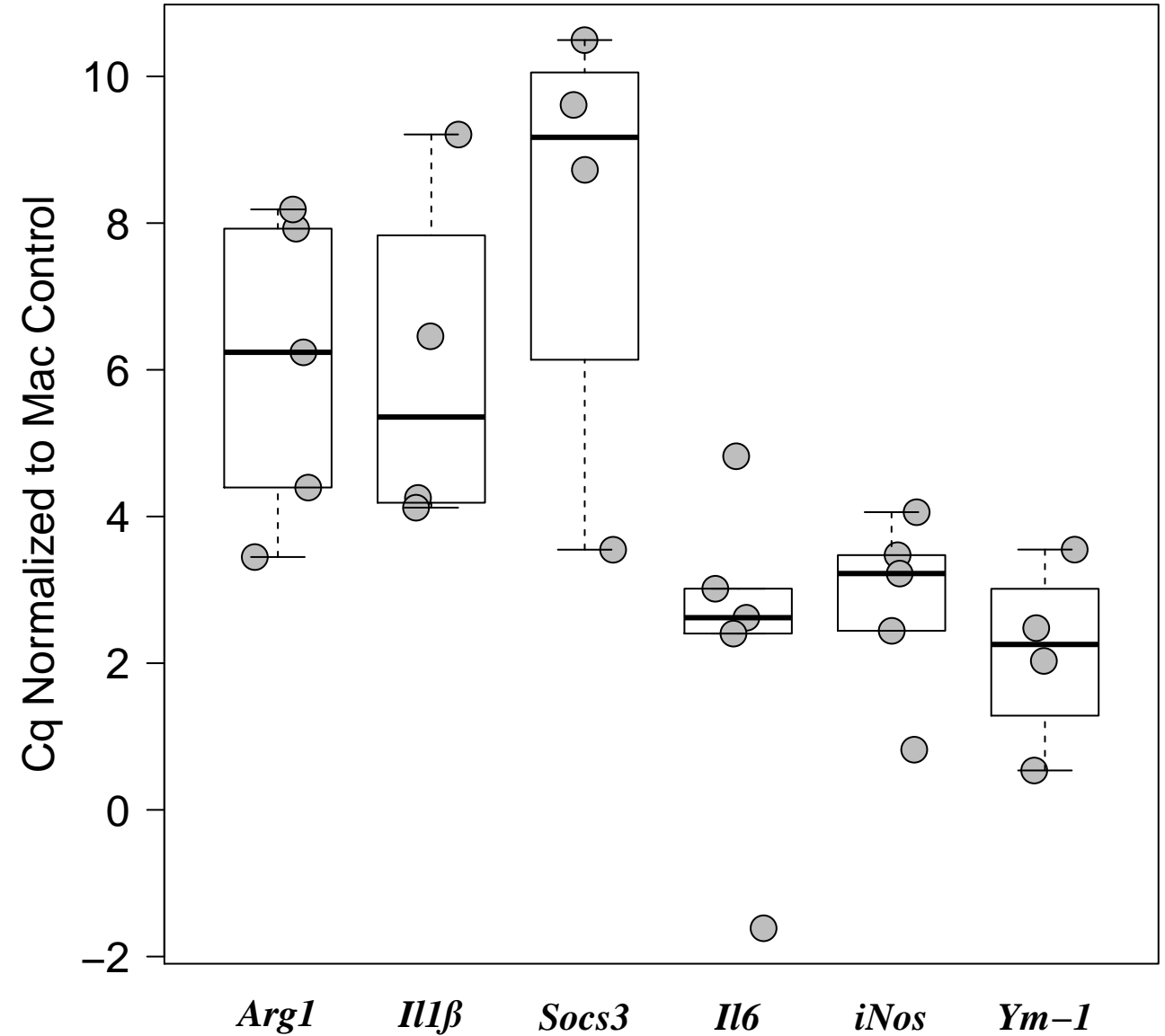
Calu-6 (Arg1 SD = 2.5)



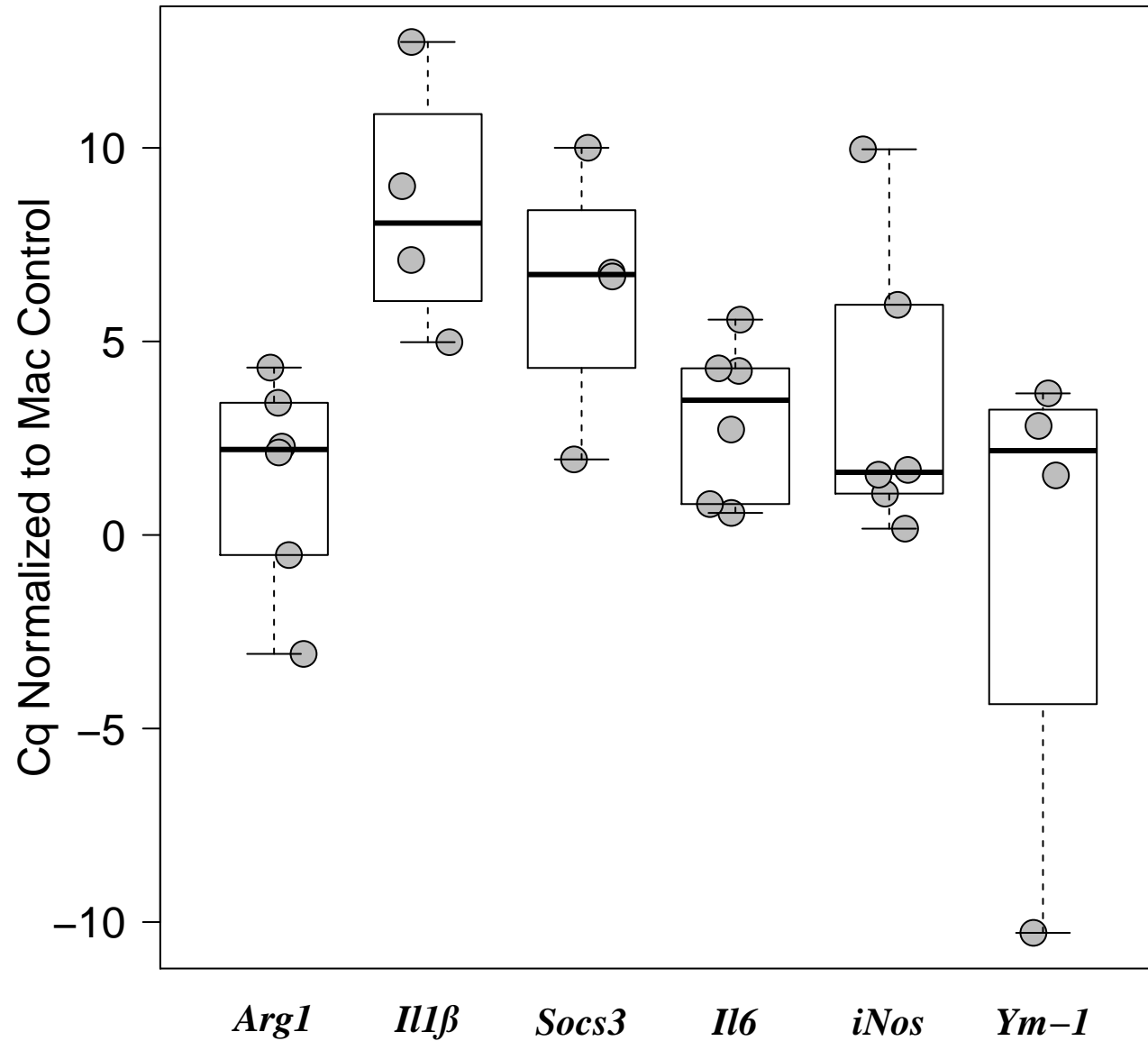
DFCI024 (Arg1 SD = 2.5)



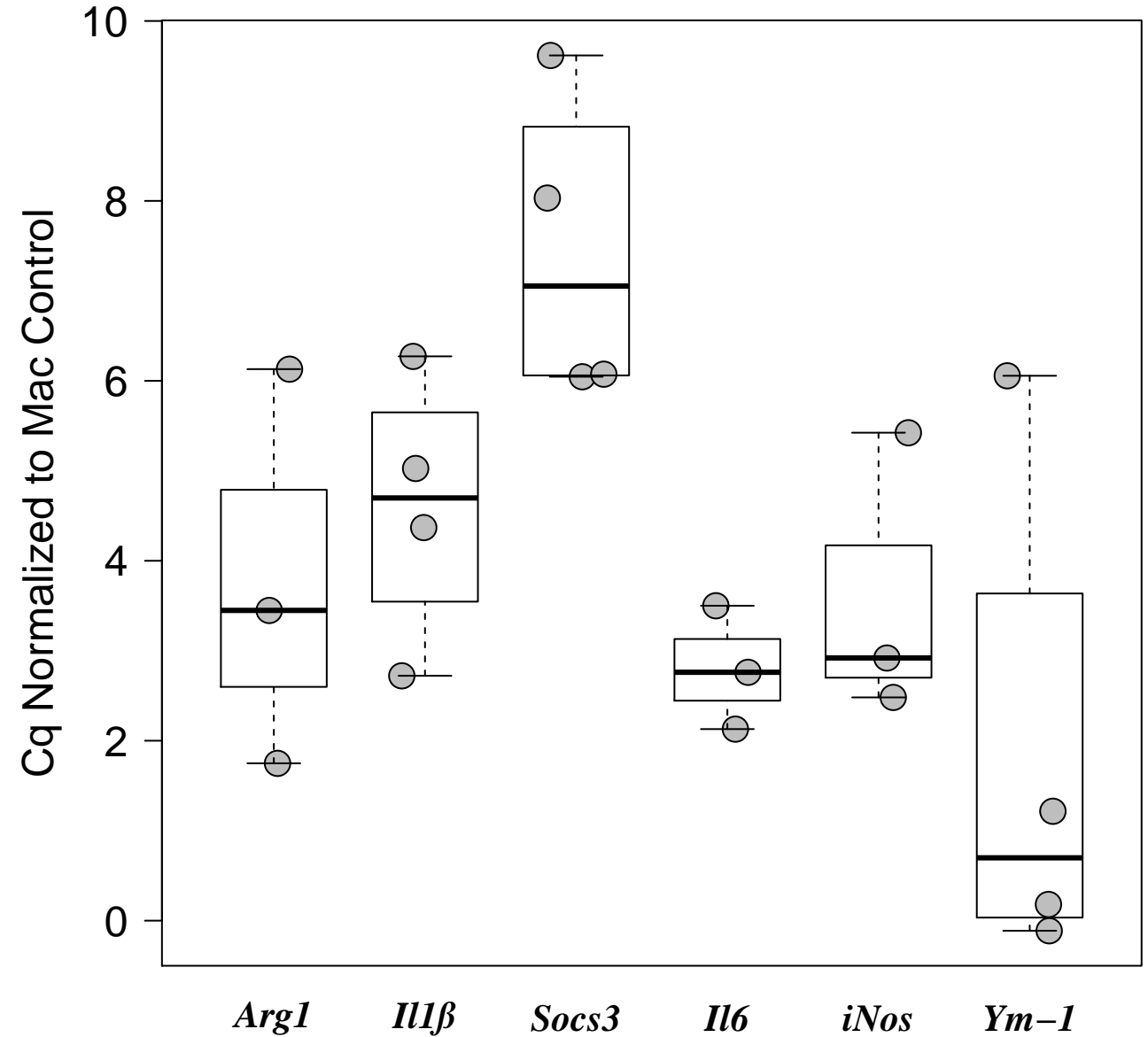
EKVX (Arg1 SD = 2.1)



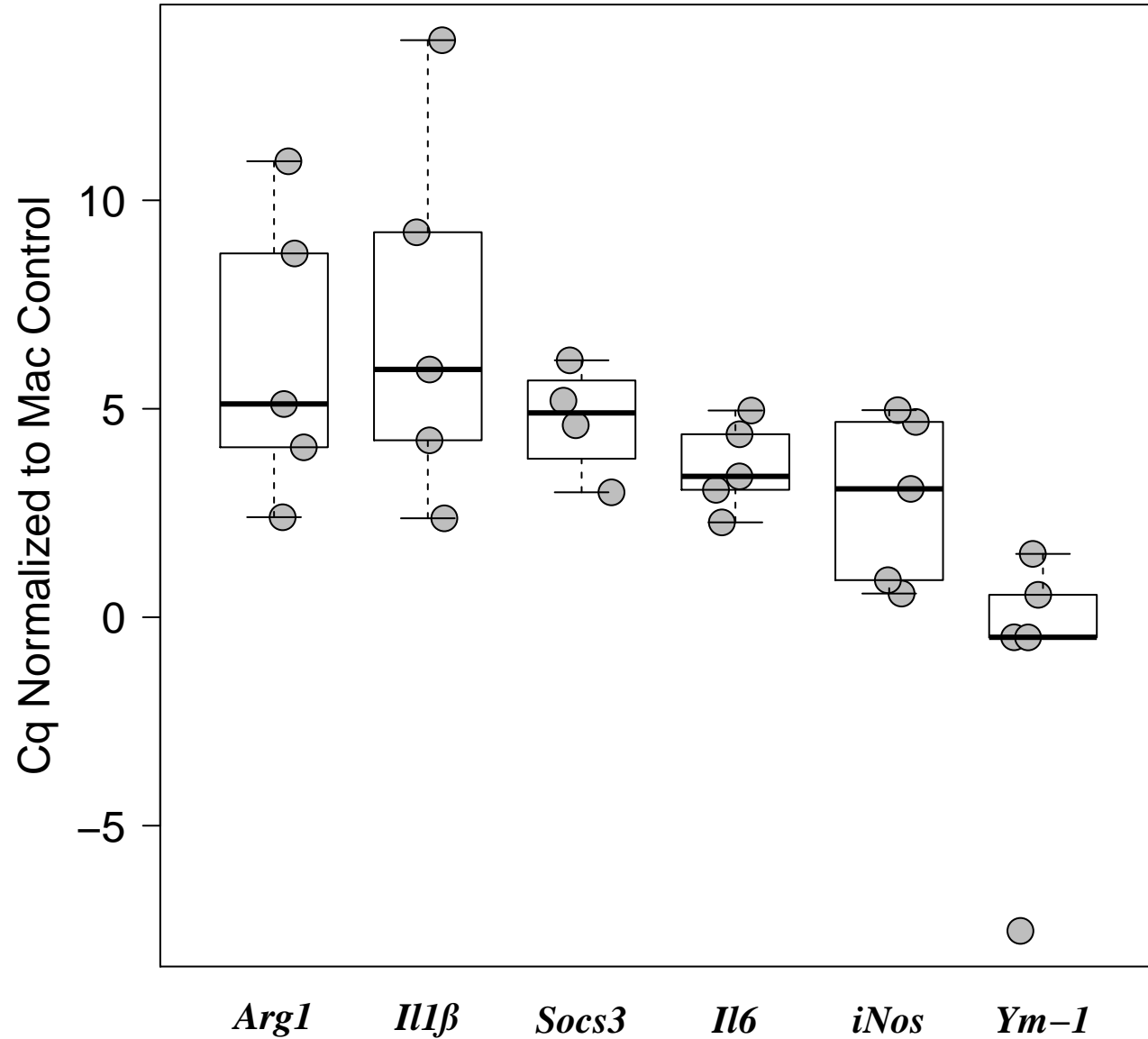
H1048 (Arg1 SD = 2.7)



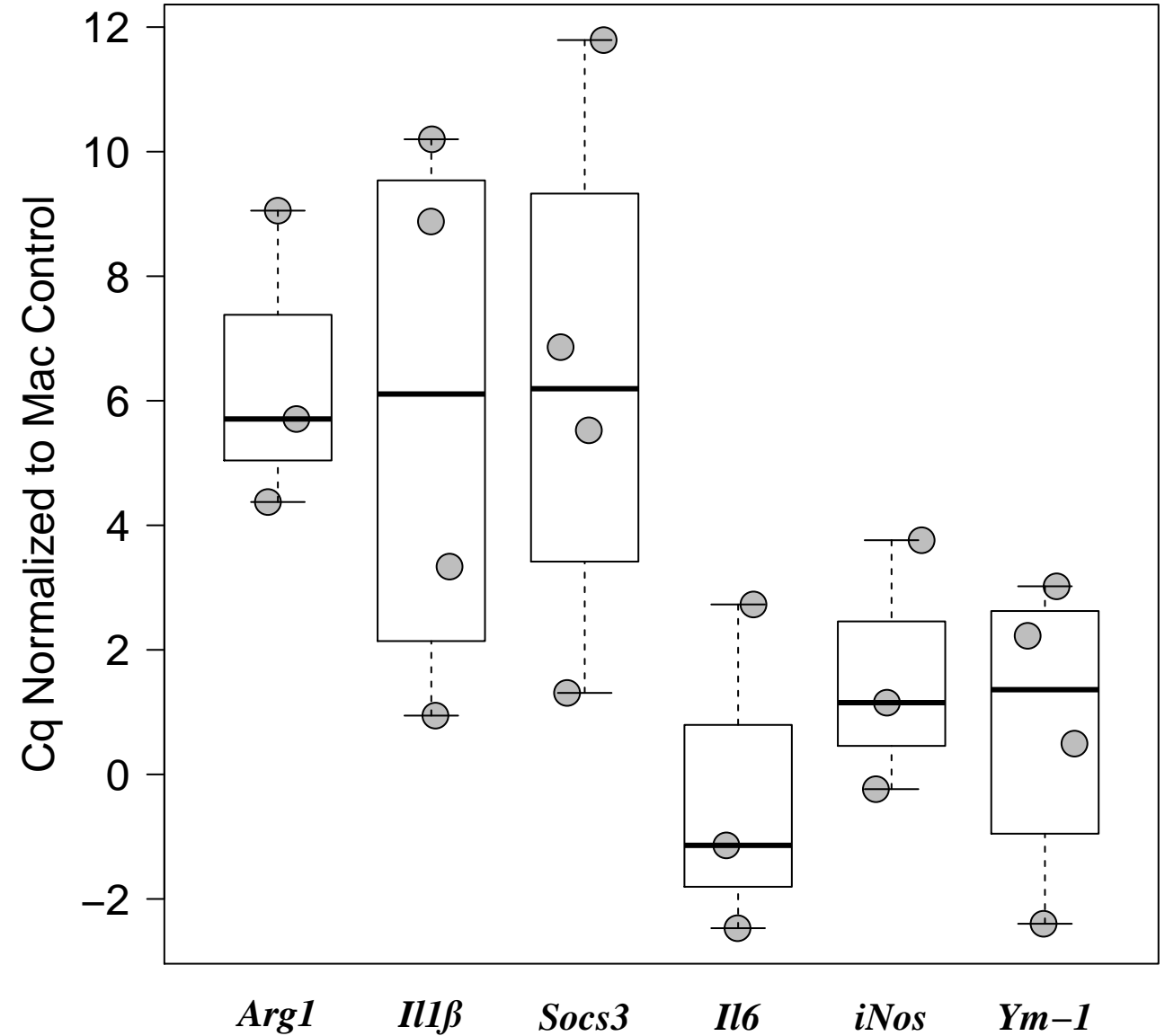
H1299 (Arg1 SD = 2.2)



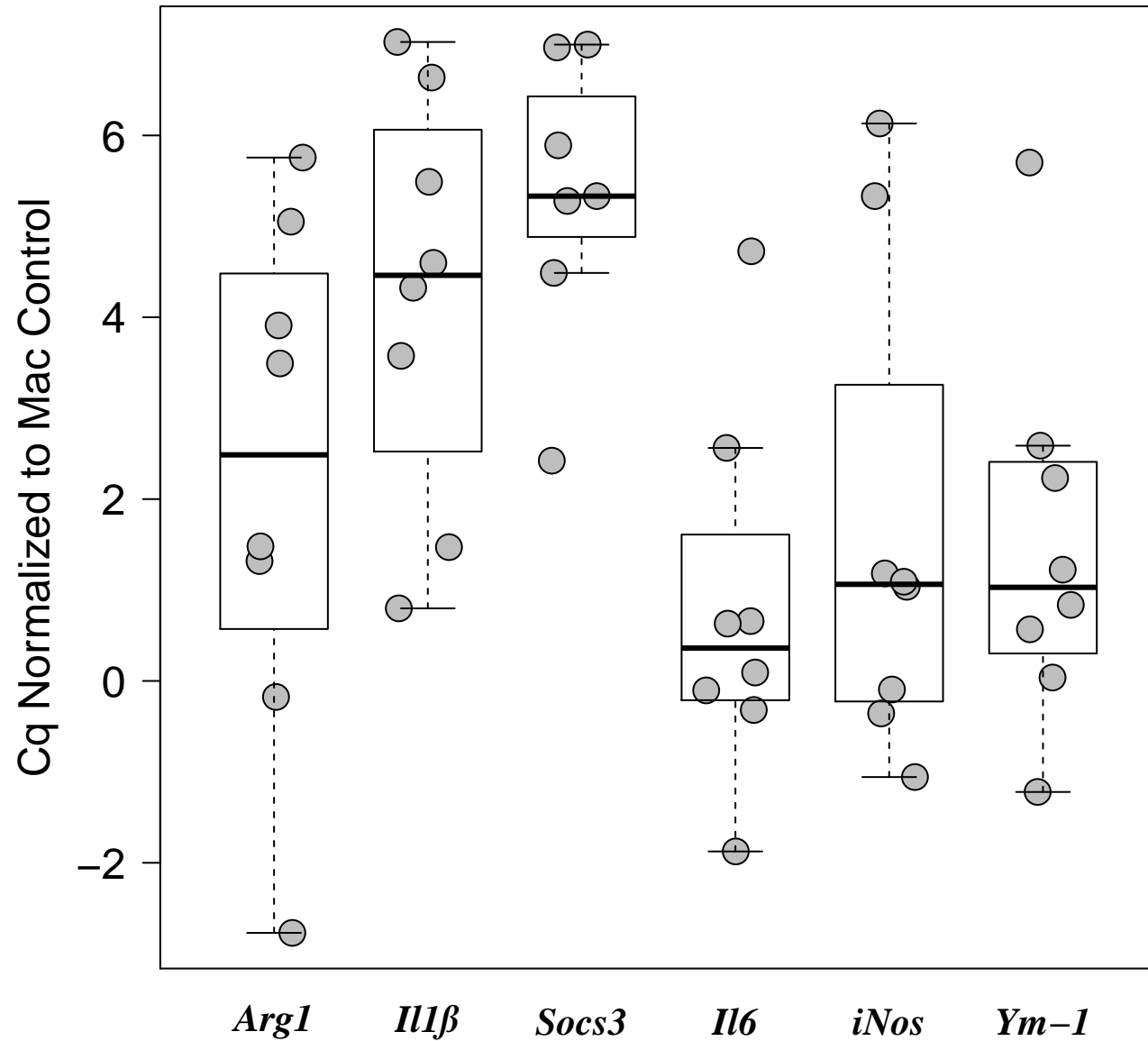
H1355 (Arg1 SD = 3.5)



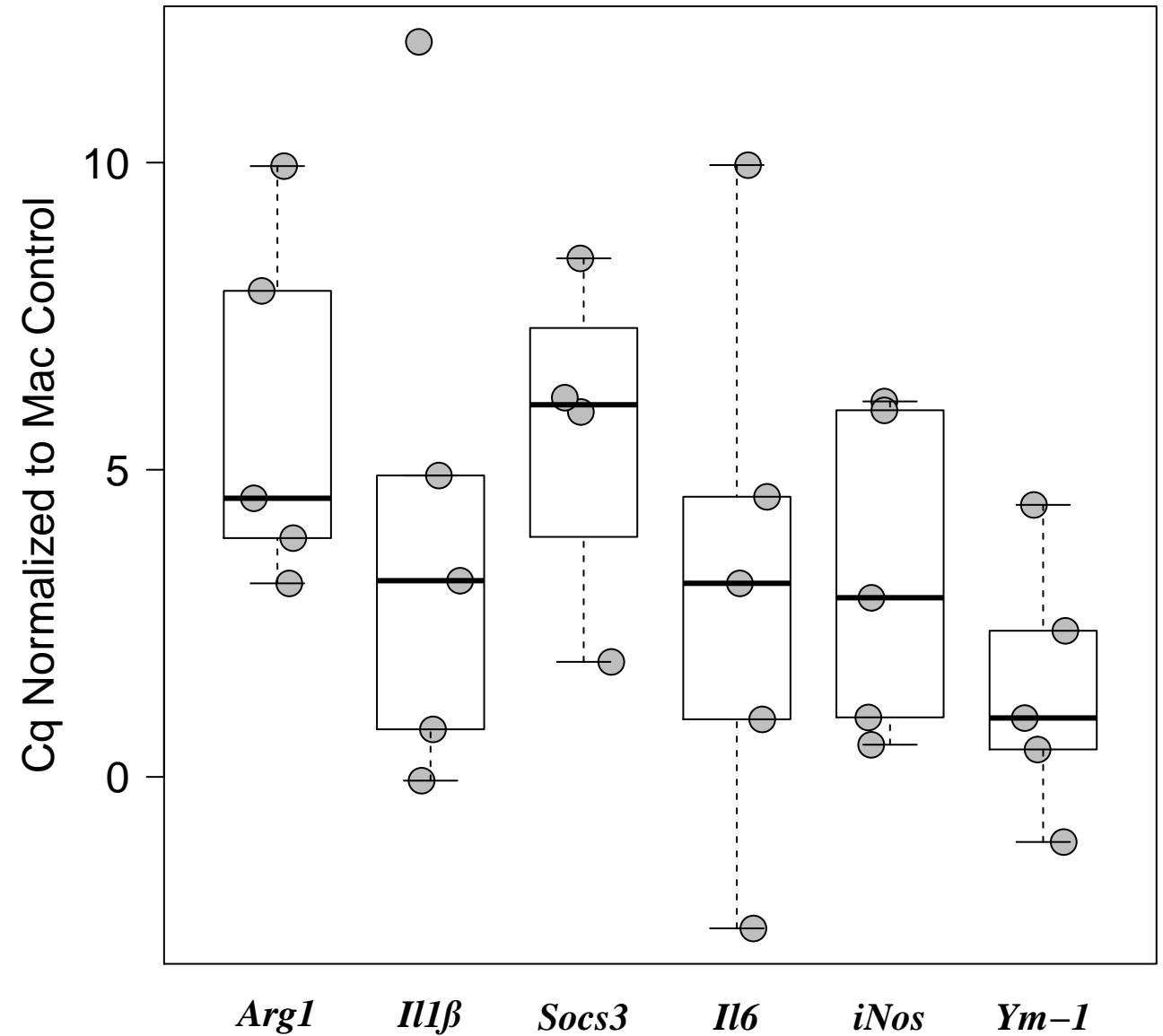
H1373 (Arg1 SD = 2.4)



H1395 (Arg1 SD = 2.9)

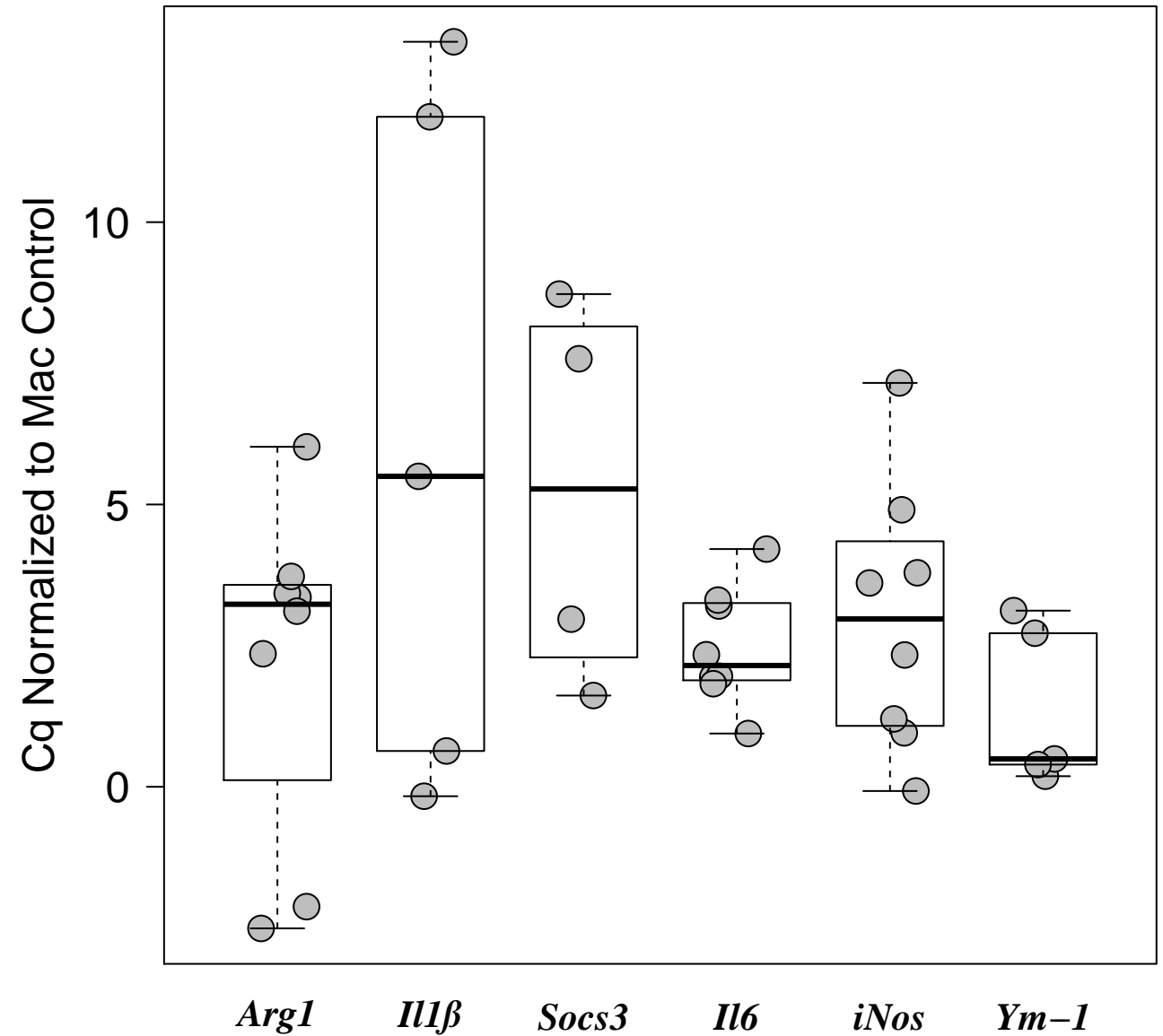
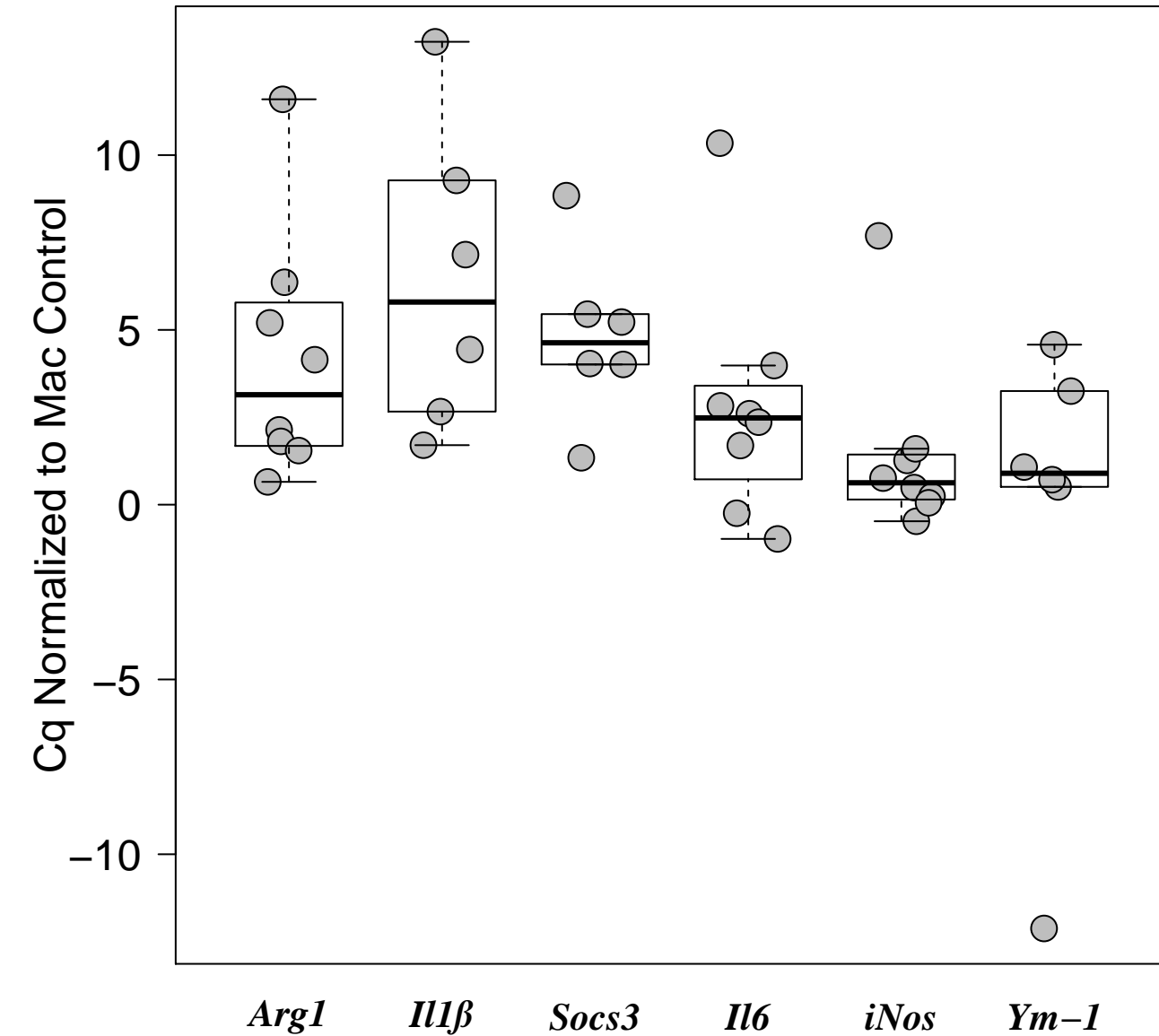


H1437 (Arg1 SD = 2.9)

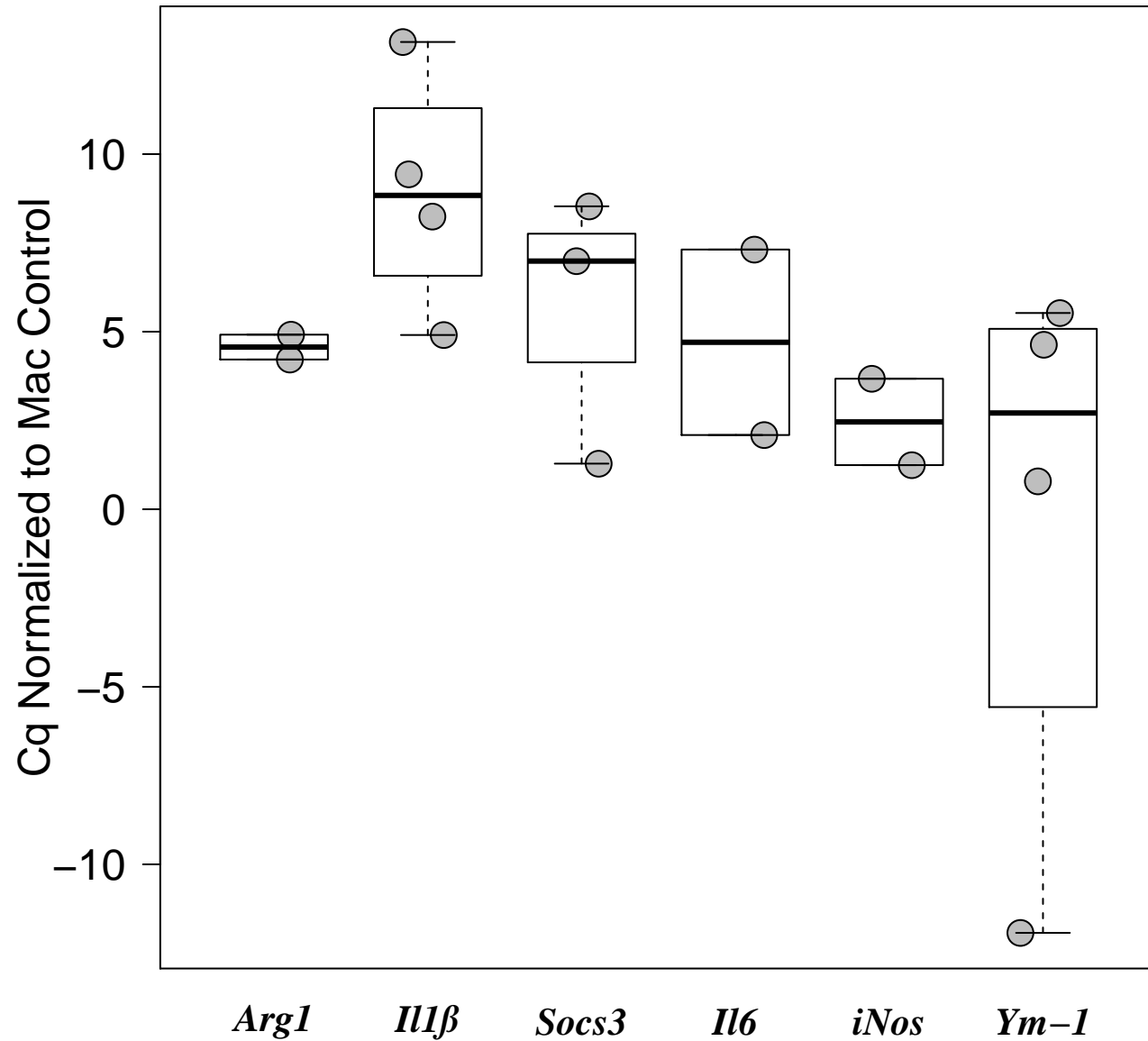


H1563 (Arg1 SD = 3.6)

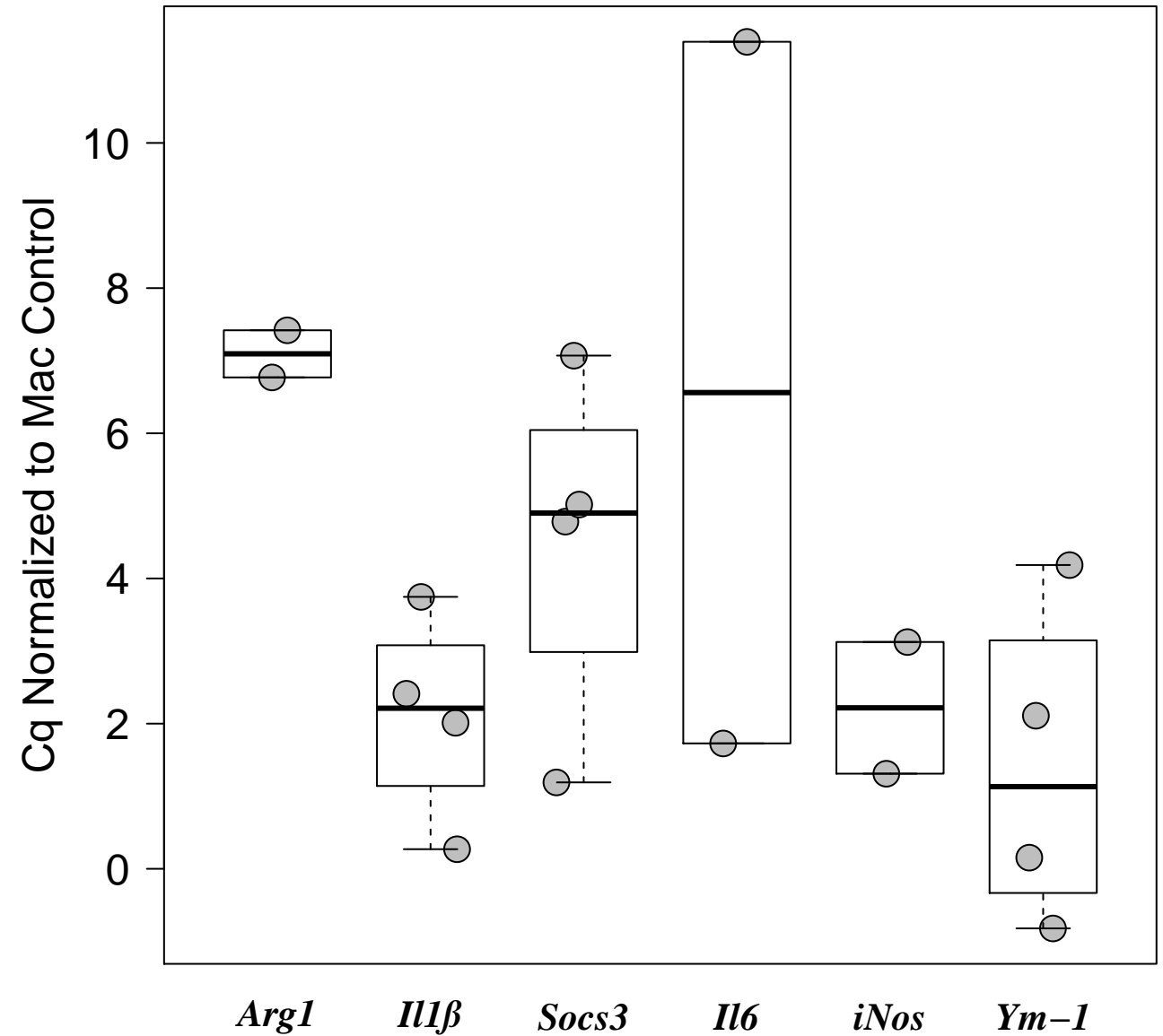
H157 (Arg1 SD = 3)



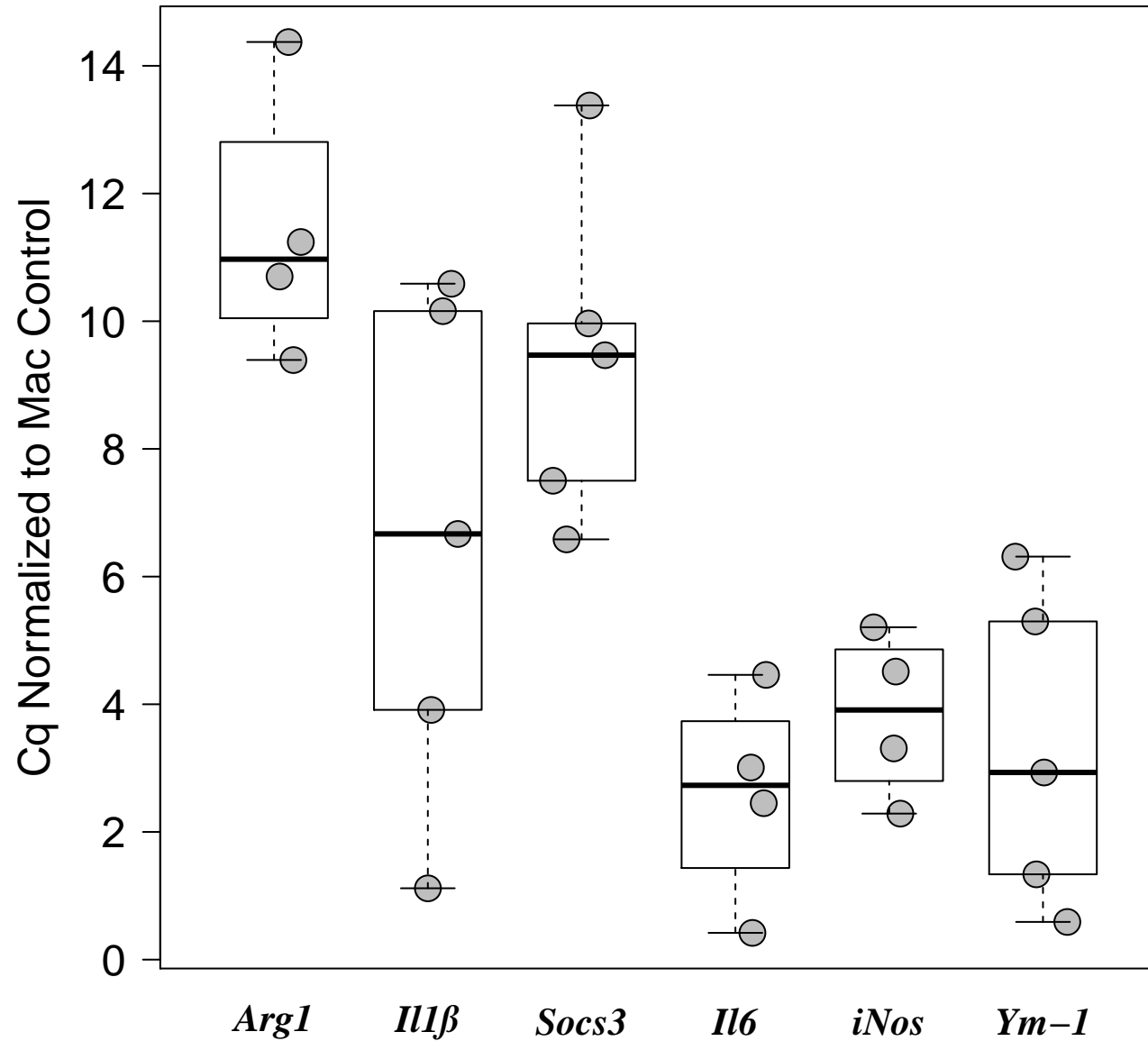
H1573 (Arg1 SD = 0.5)



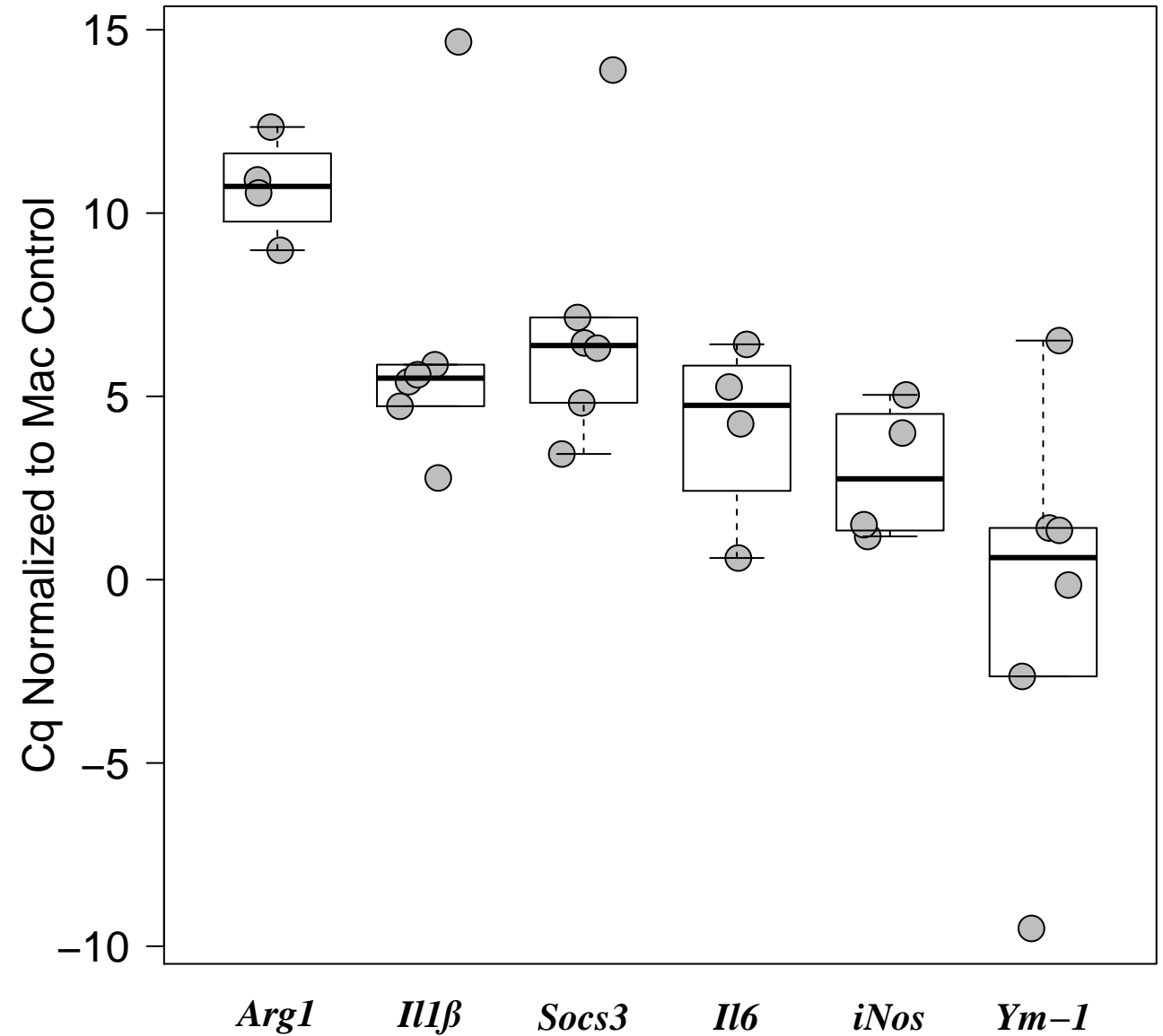
H1650 (Arg1 SD = 0.5)



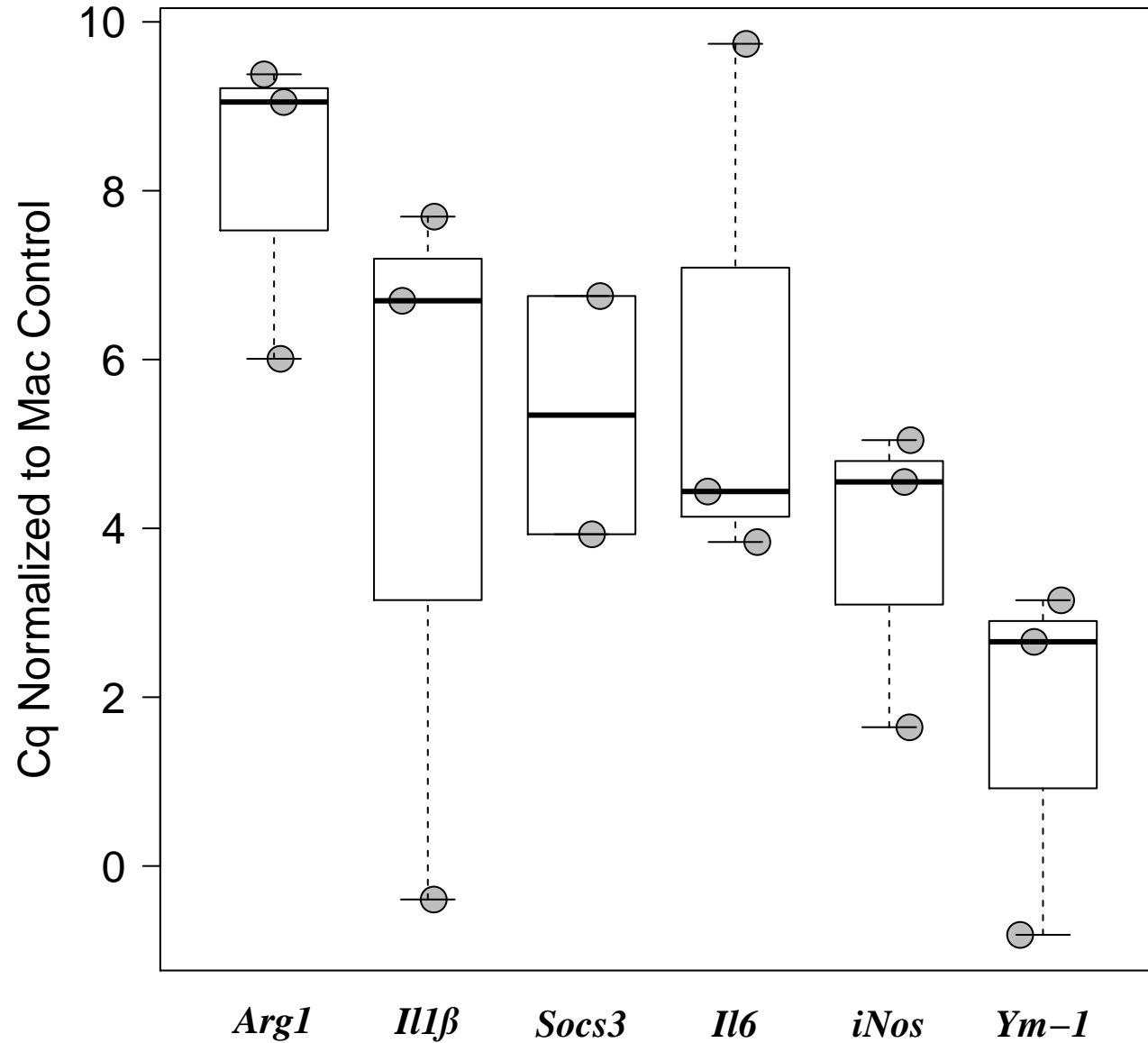
H1666 (Arg1 SD = 2.1)



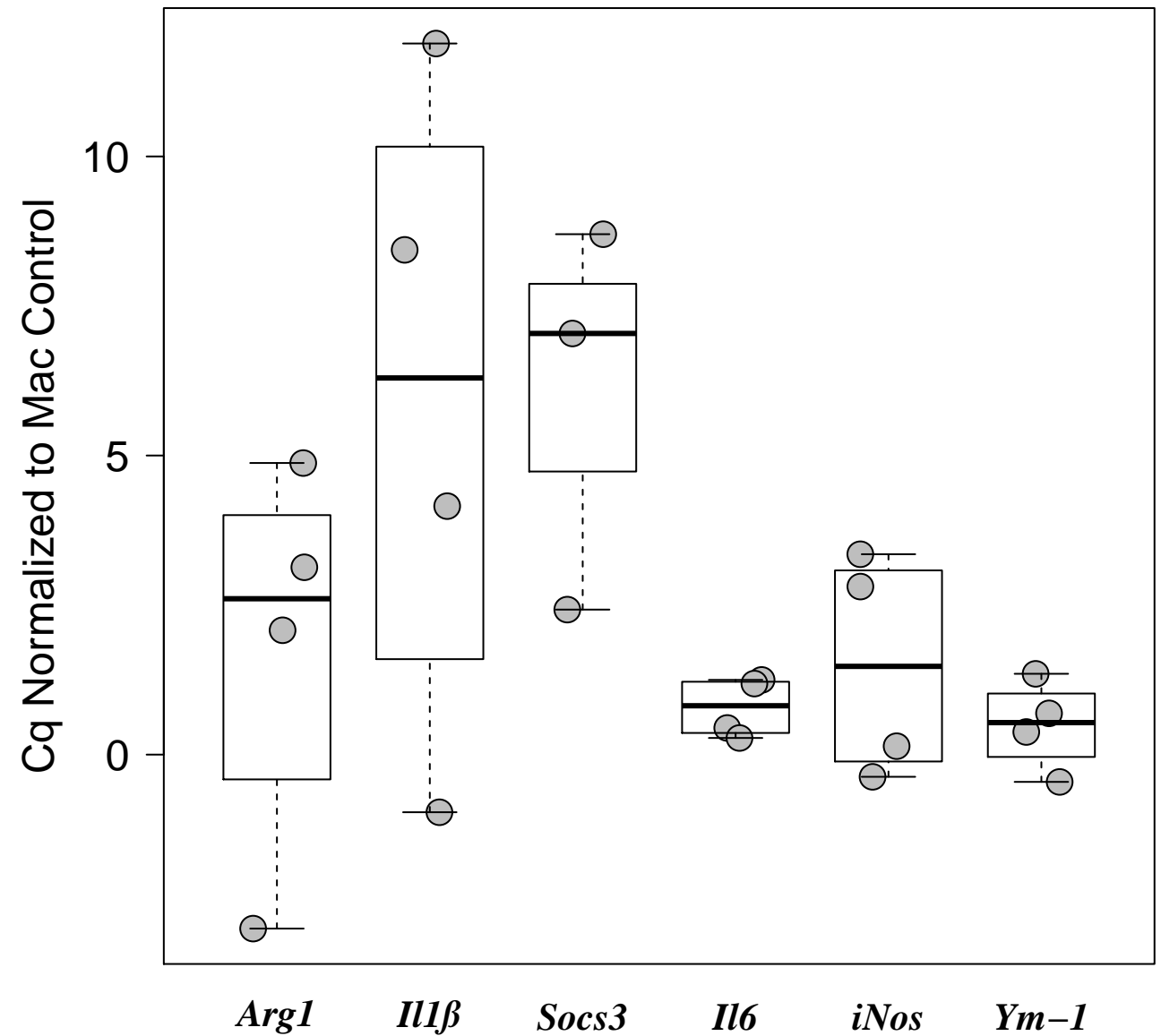
H1693 (Arg1 SD = 1.4)



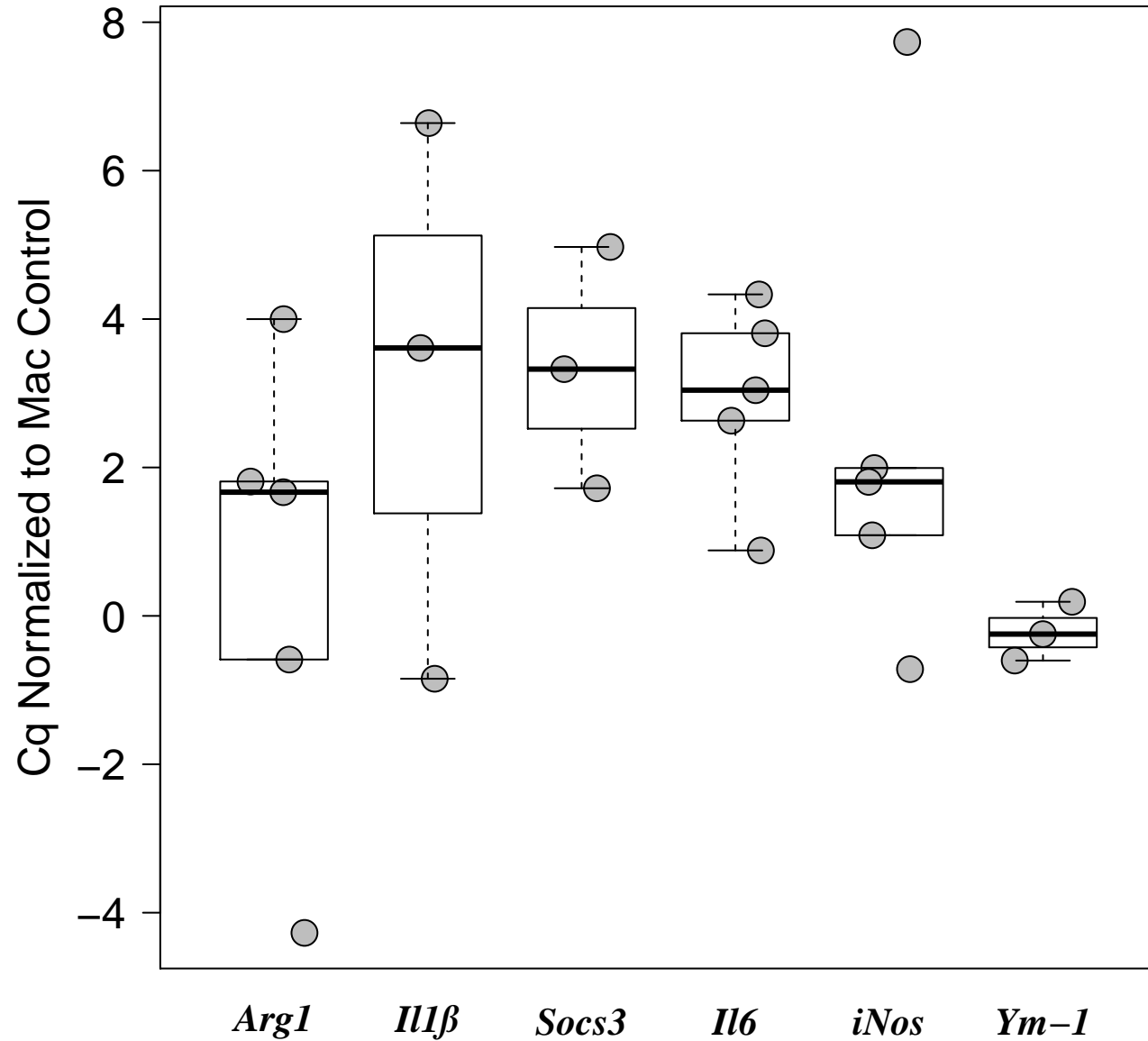
H1703 (Arg1 SD = 1.9)



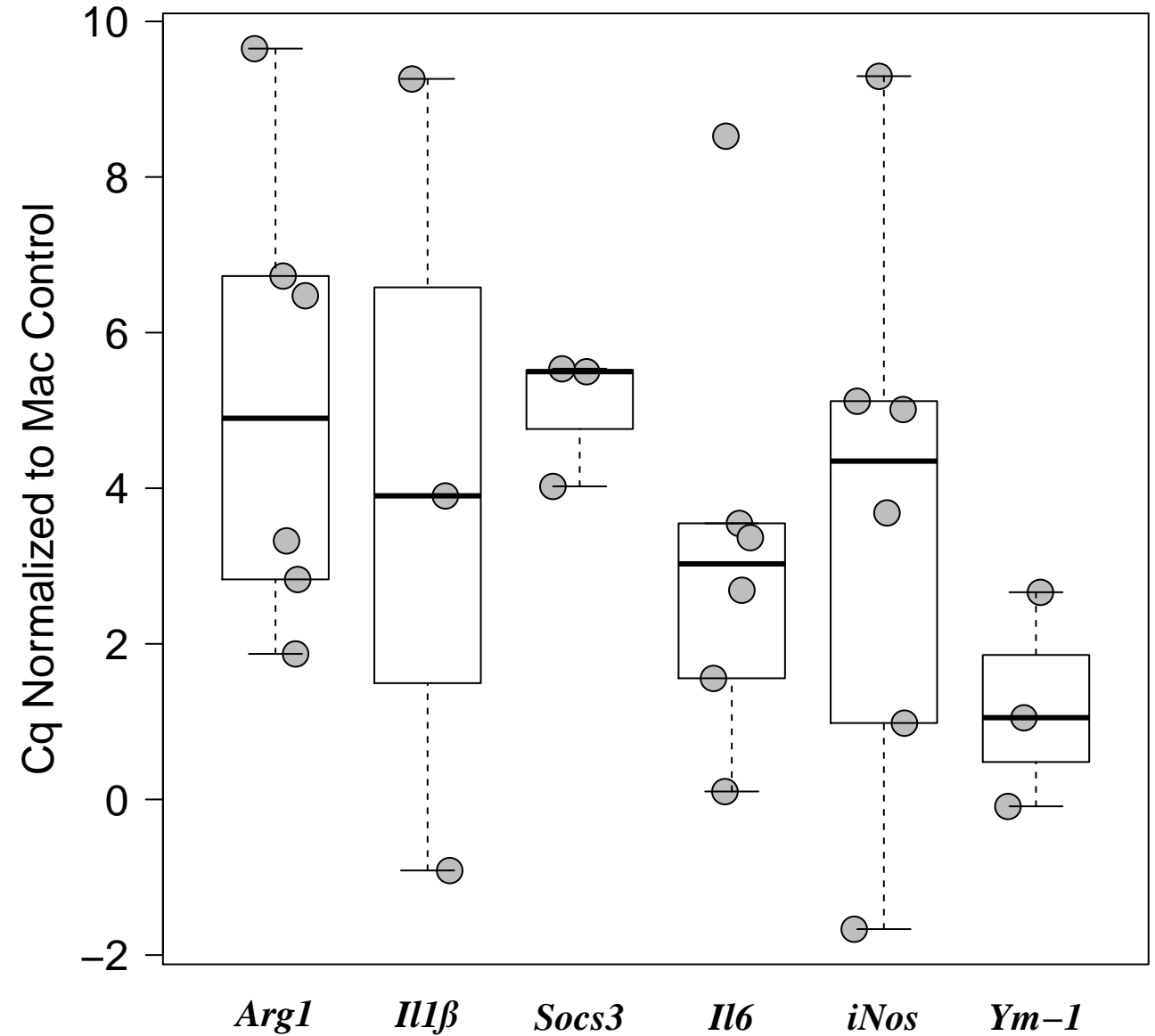
H1734 (Arg1 SD = 3.3)



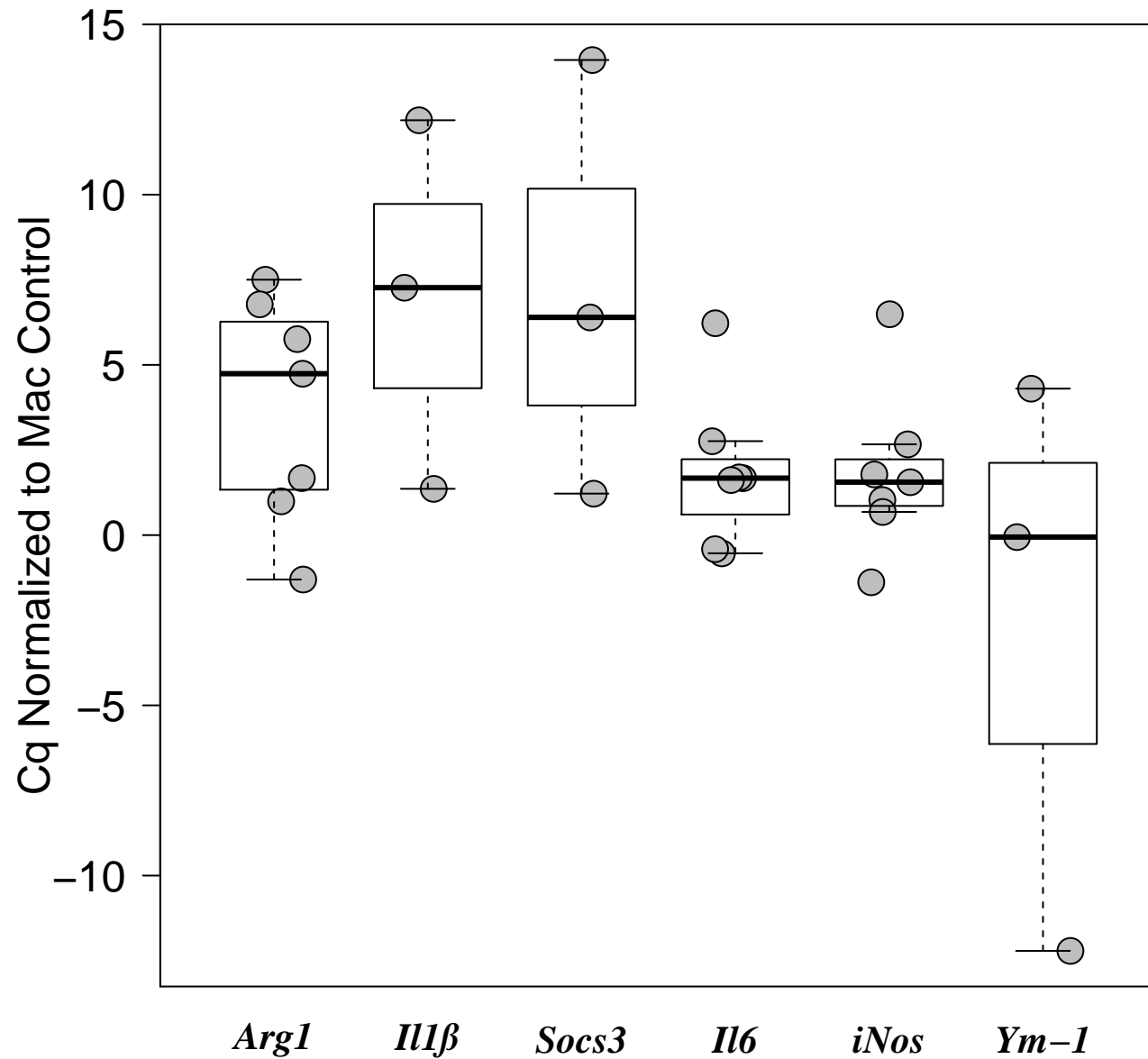
H1755 (Arg1 SD = 3.1)



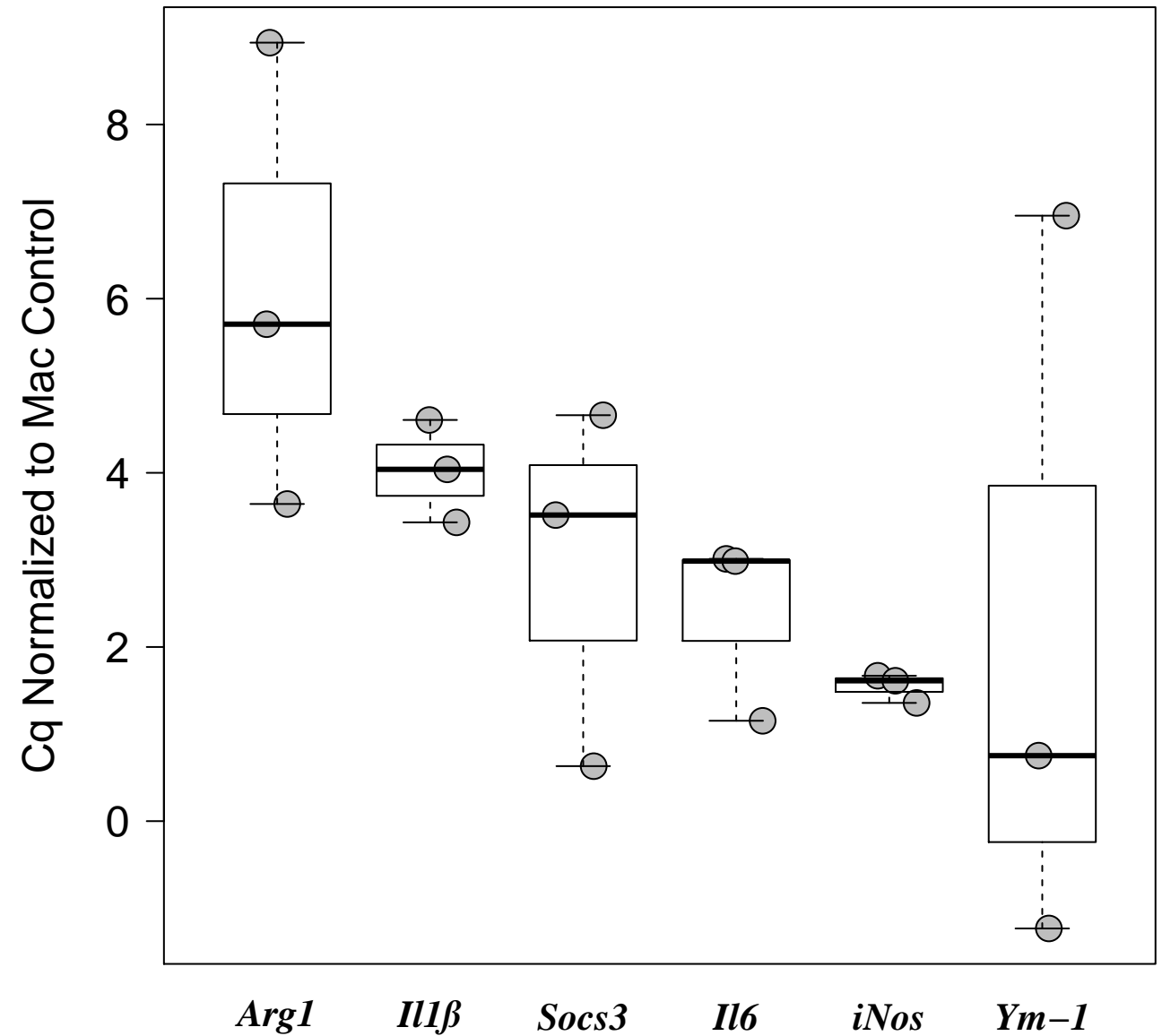
H1792 (Arg1 SD = 3)



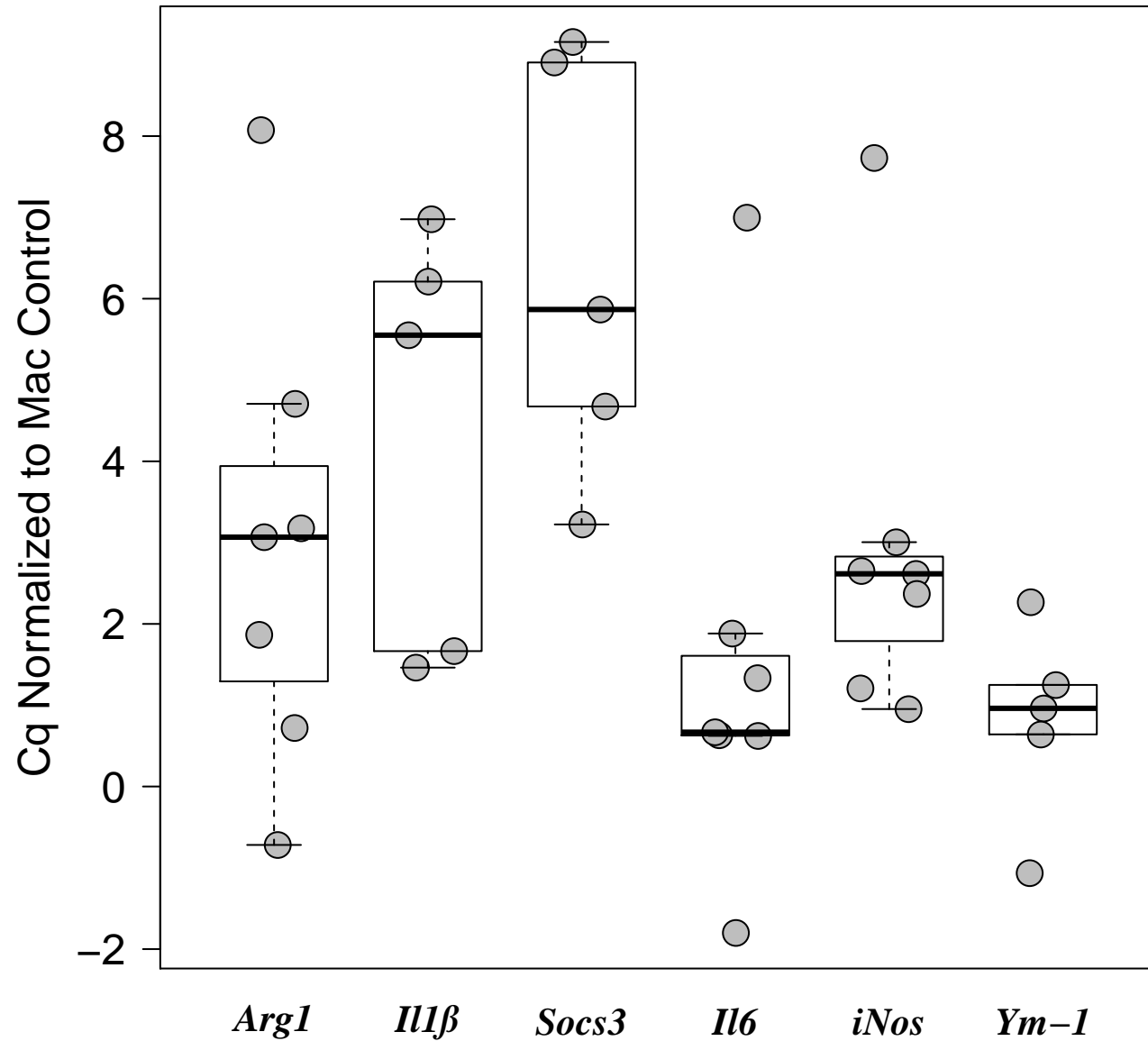
H1819 (Arg1 SD = 3.3)



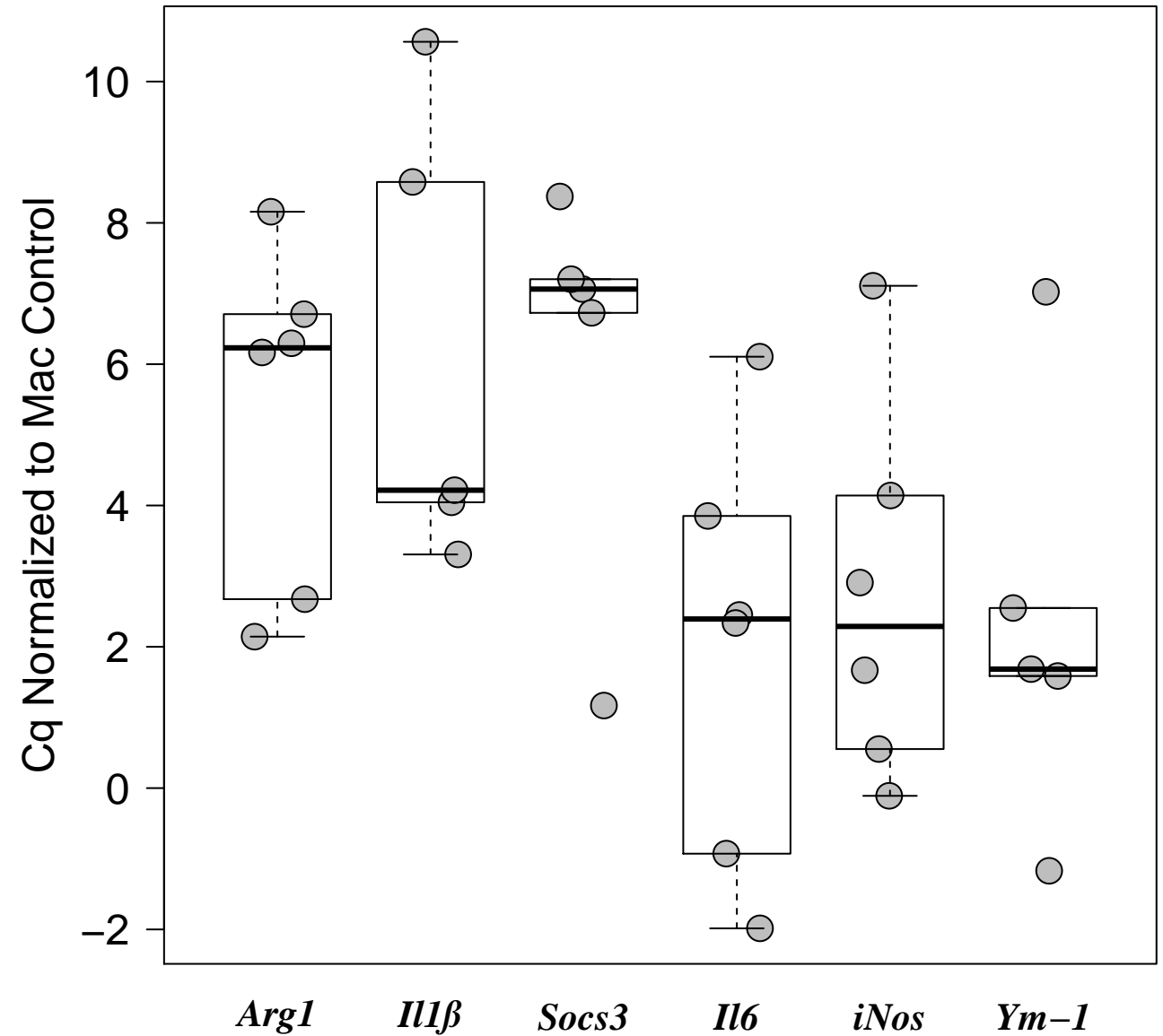
H1944 (Arg1 SD = 2.7)



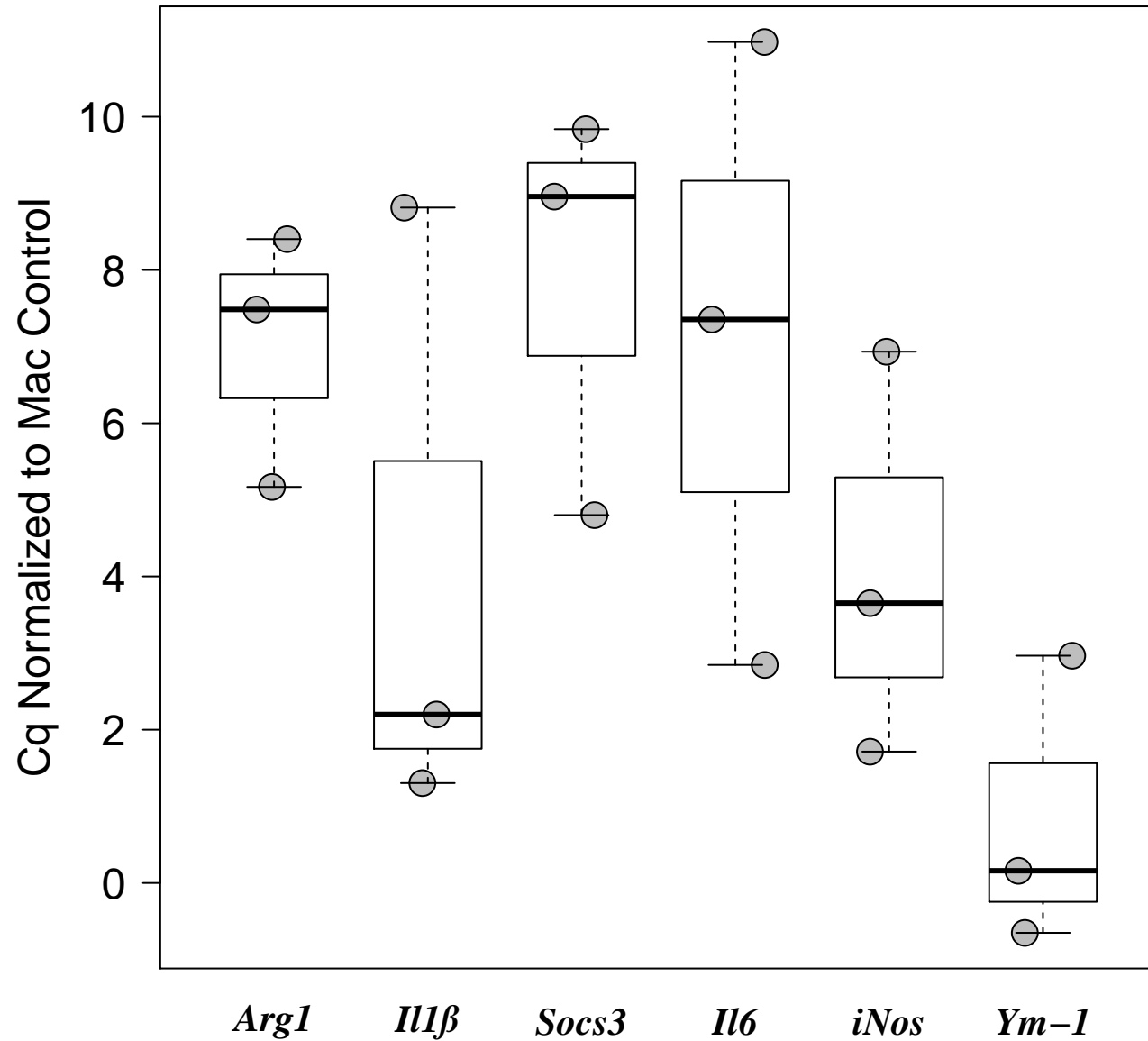
H1975 (Arg1 SD = 2.9)



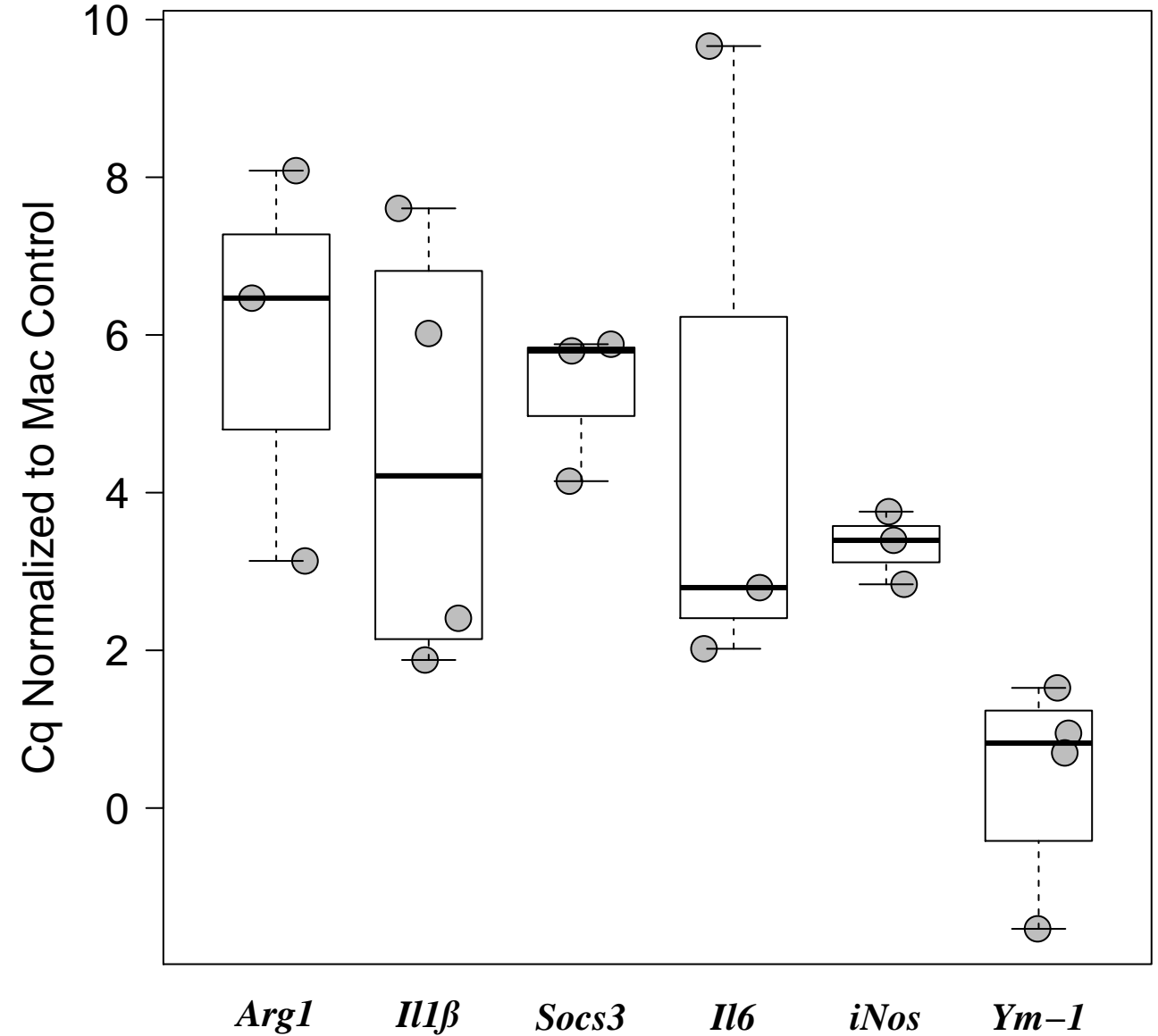
H1993 (Arg1 SD = 2.4)



H2009 (Arg1 SD = 1.7)

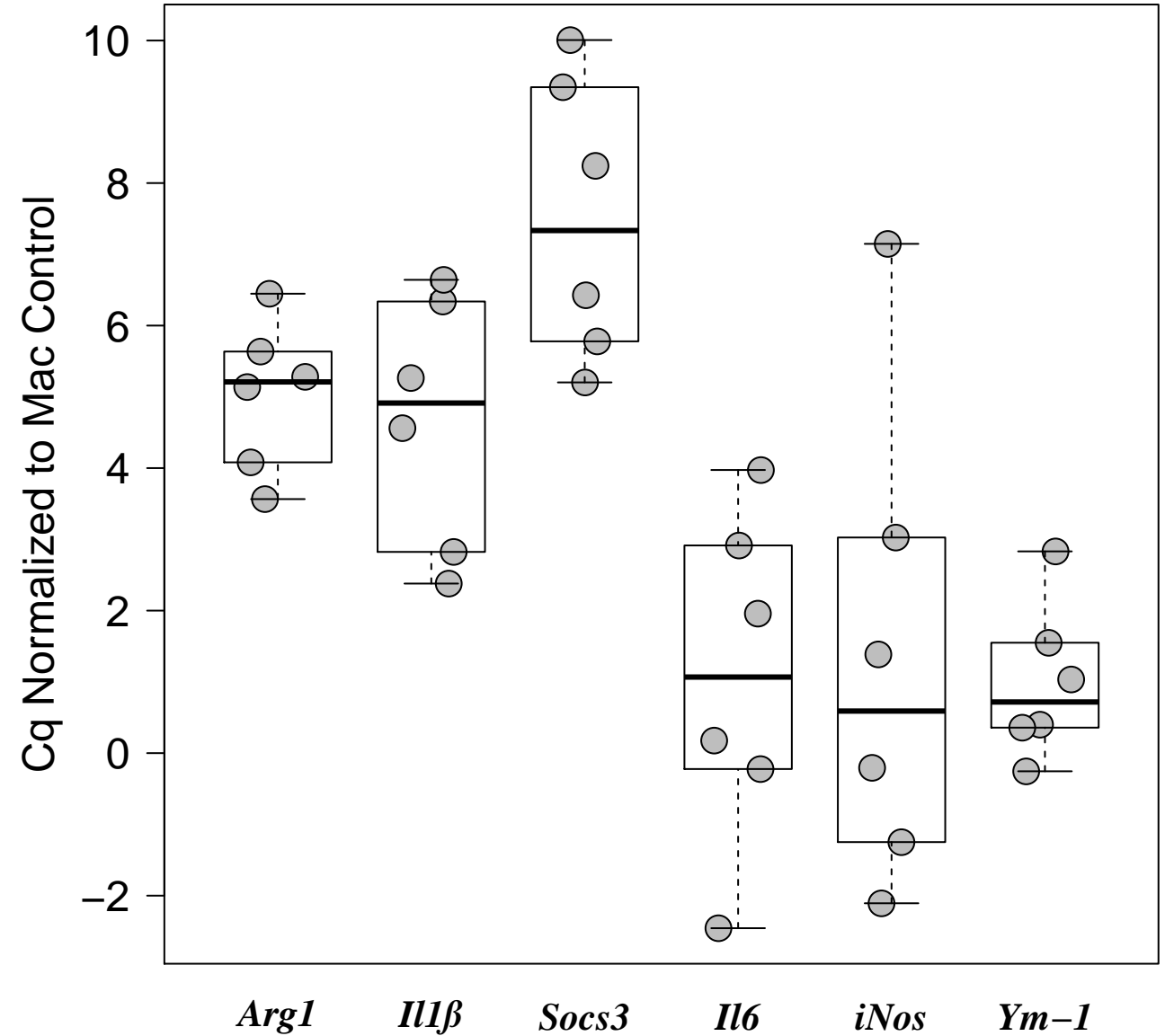
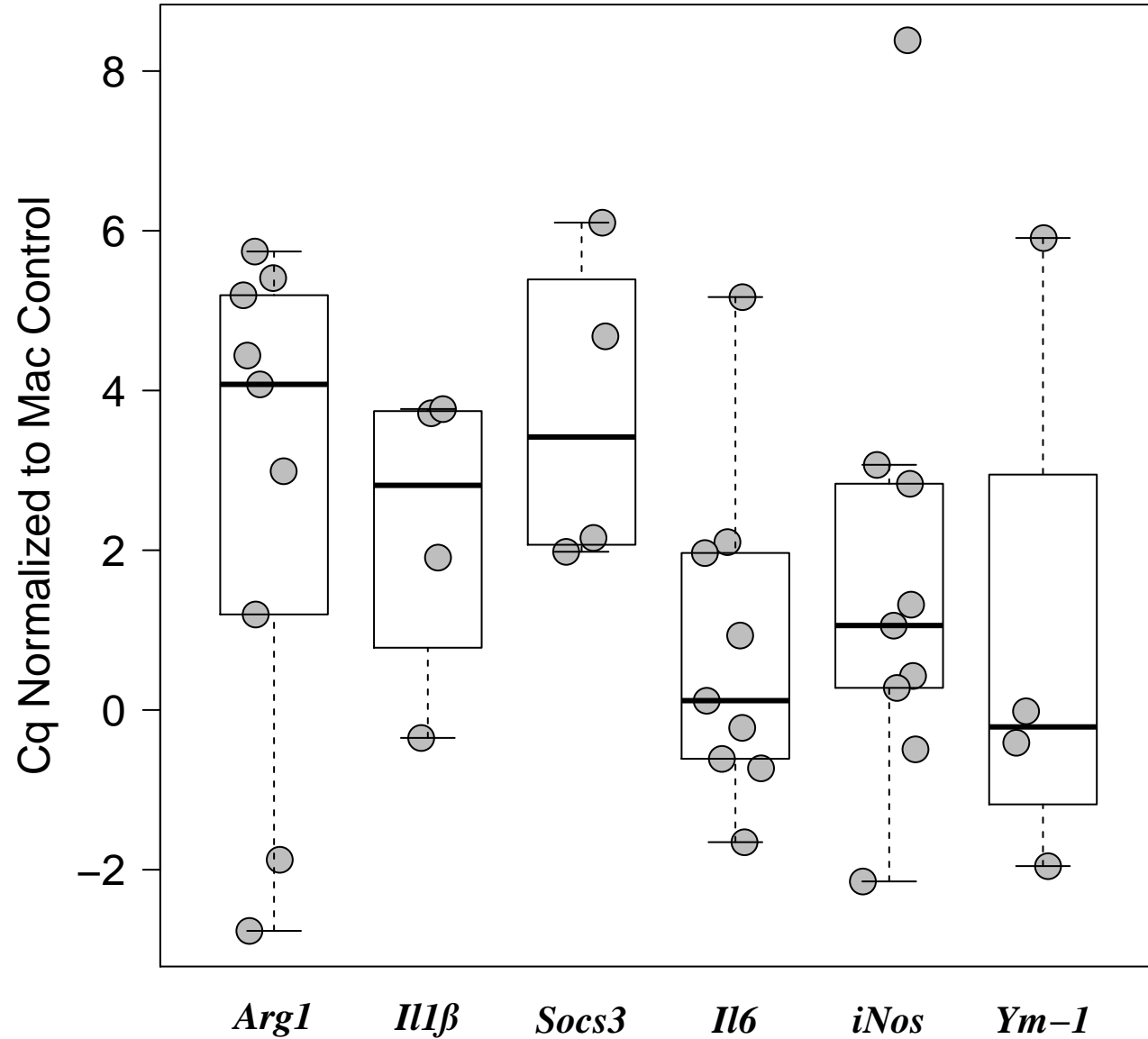


H2030 (Arg1 SD = 2.5)

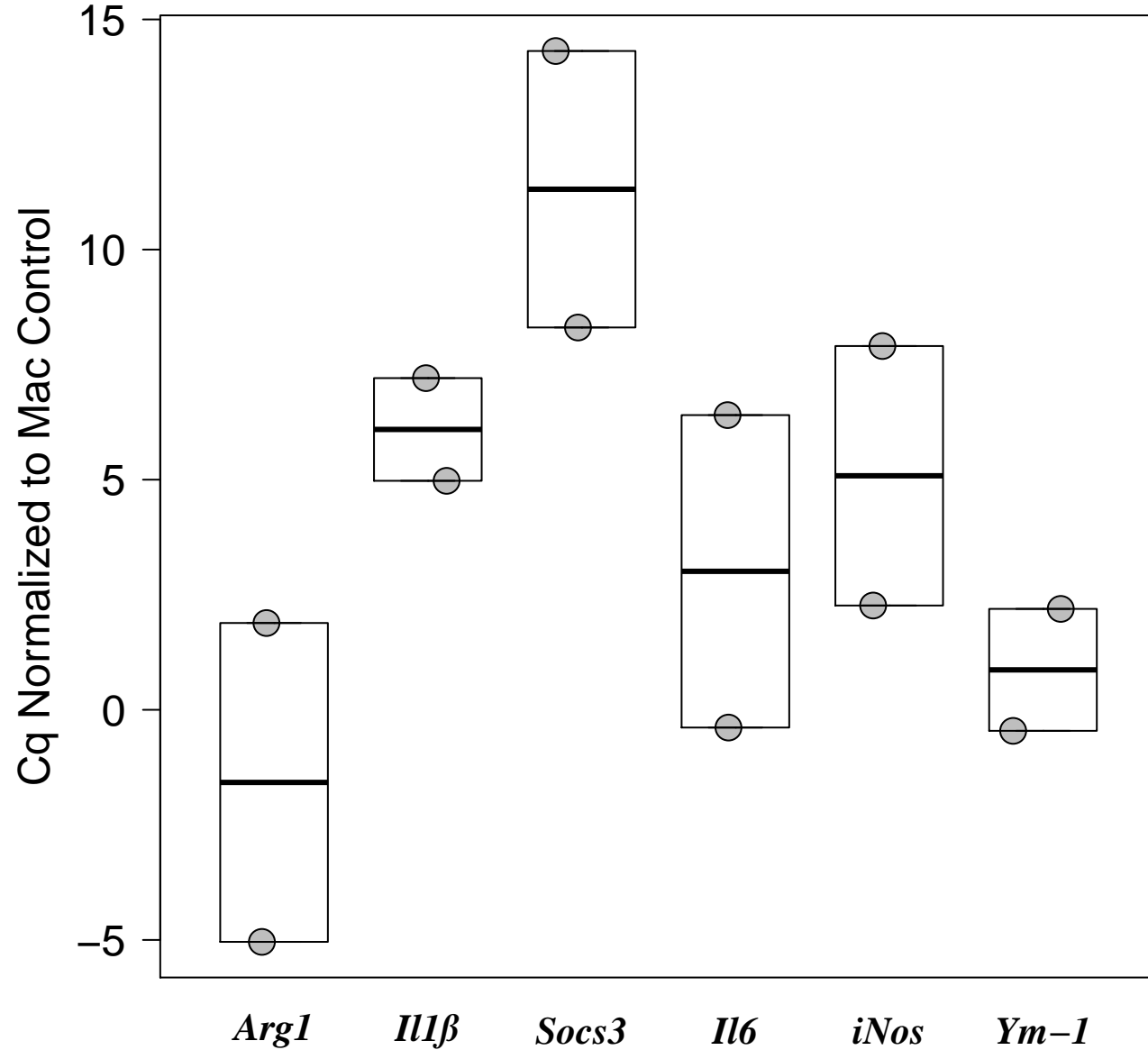


H2073 (Arg1 SD = 3.2)

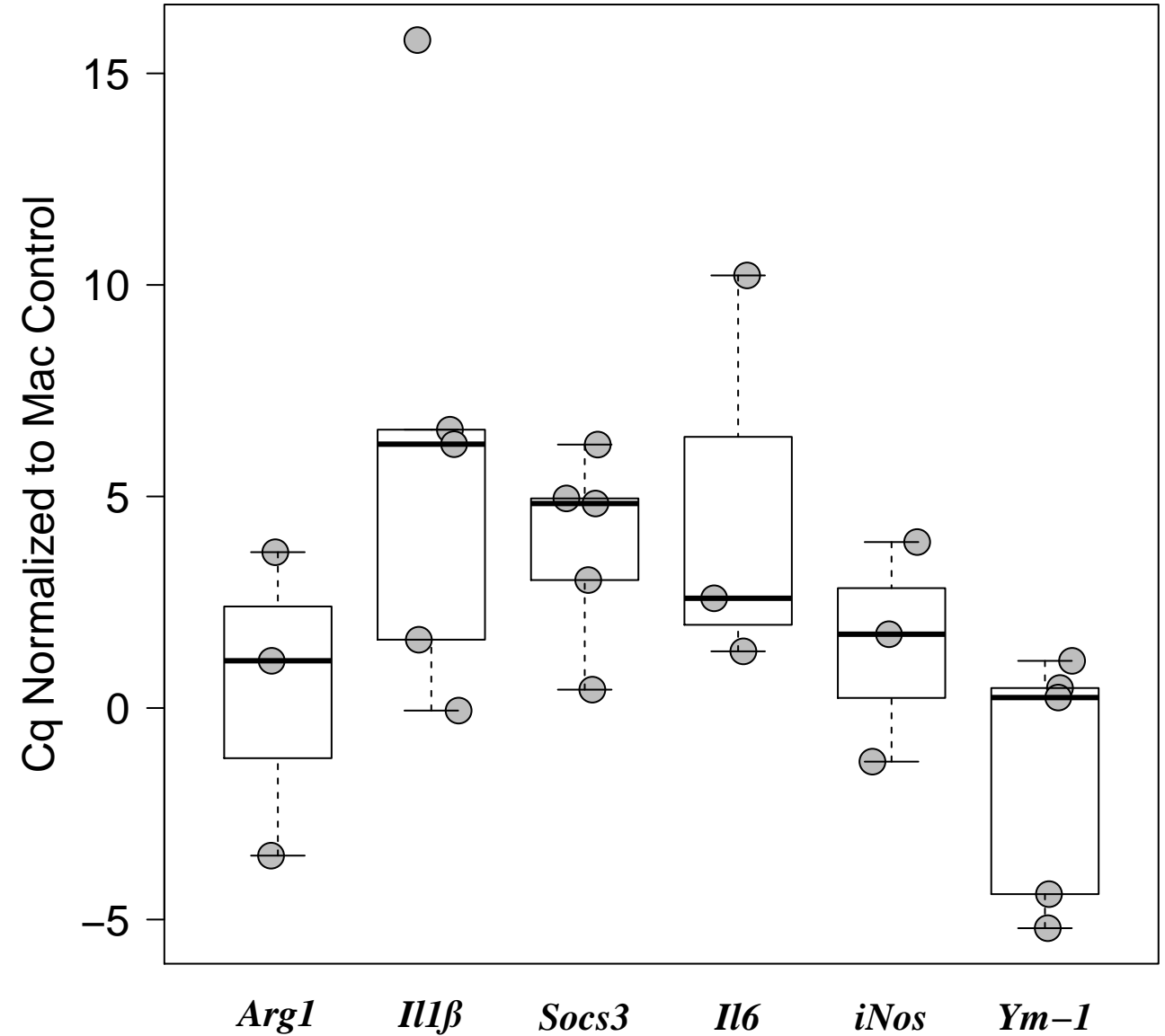
H2085 (Arg1 SD = 1)



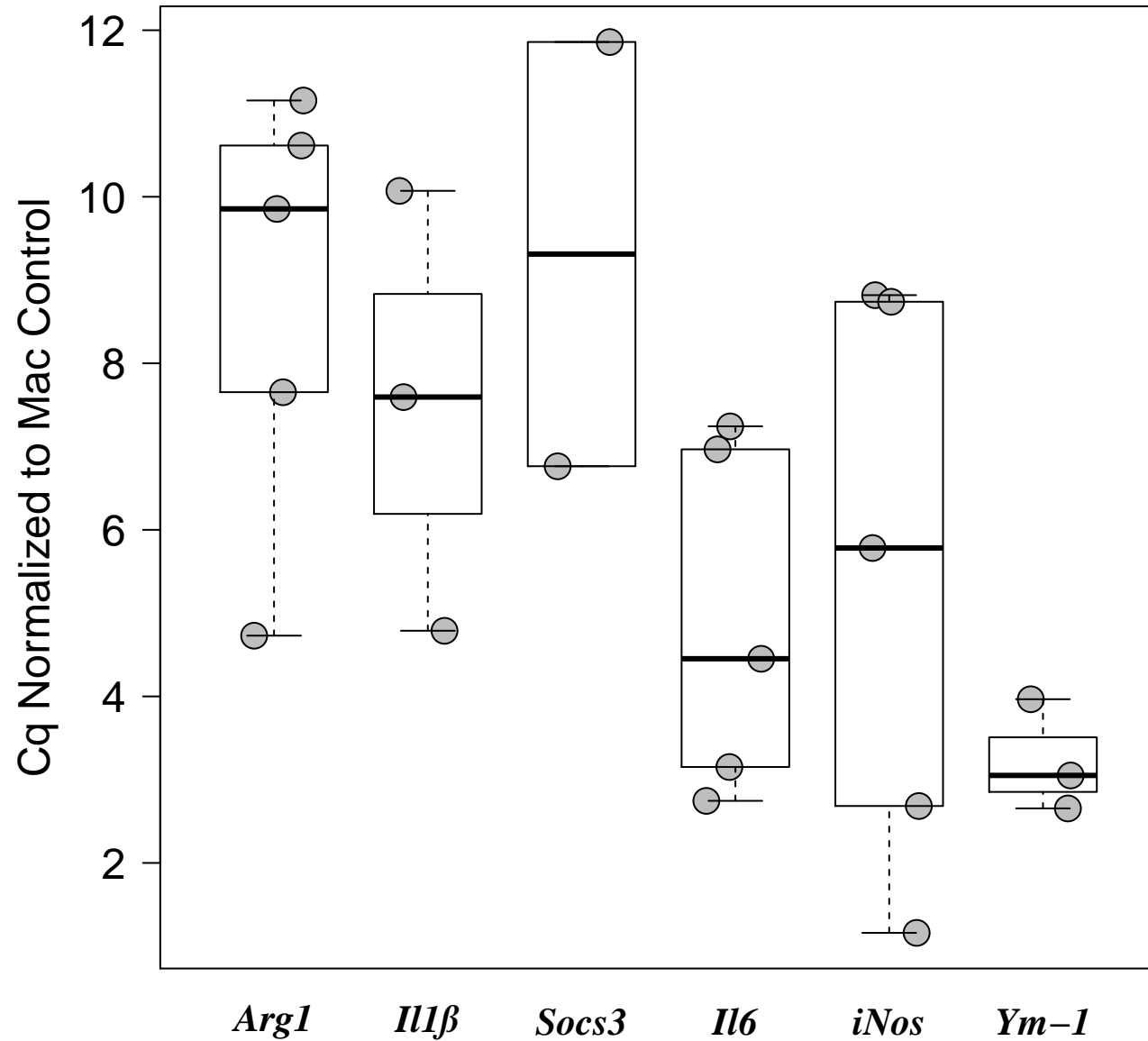
H2086 (Arg1 SD = 4.9)



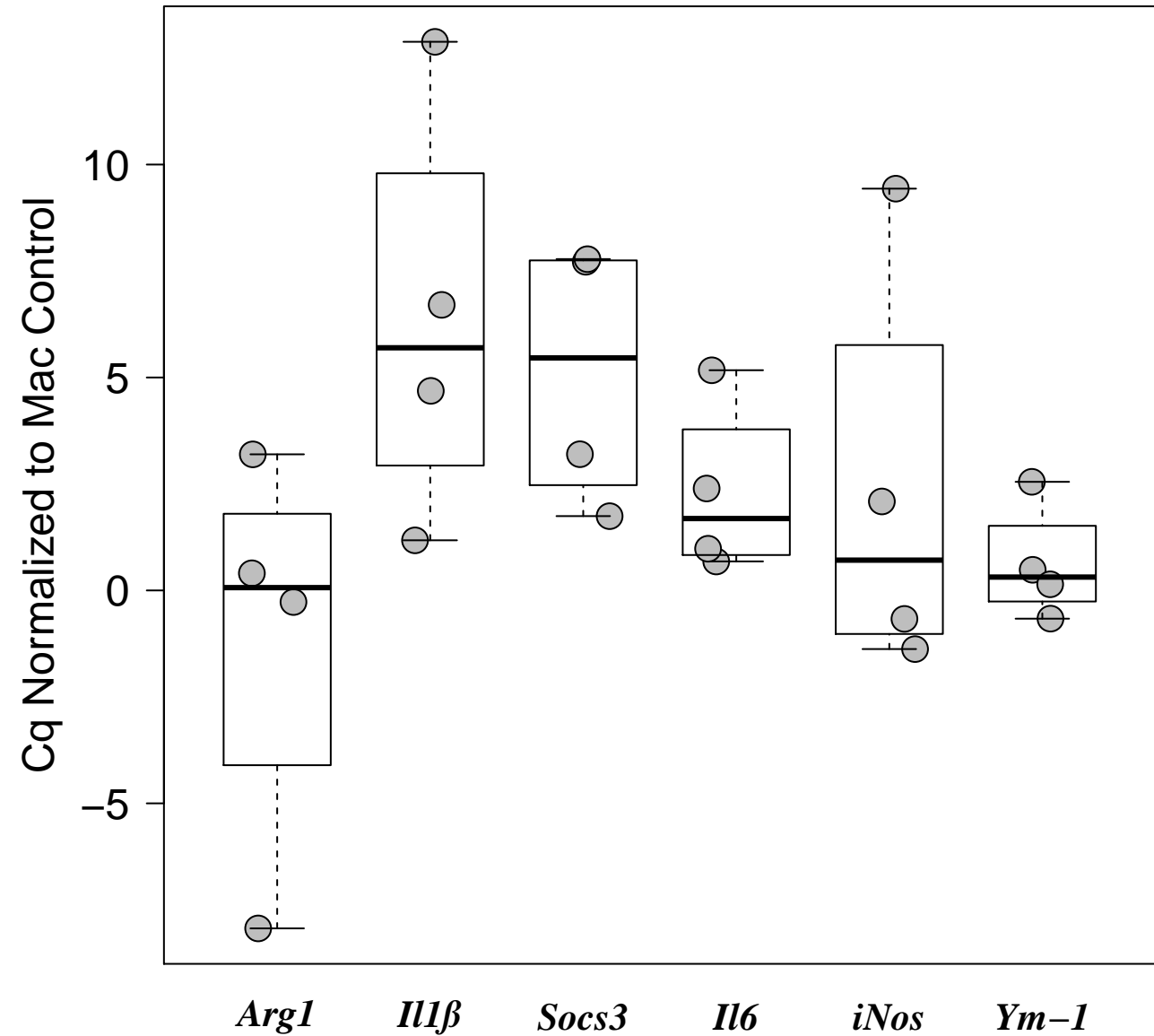
H2087 (Arg1 SD = 3.6)



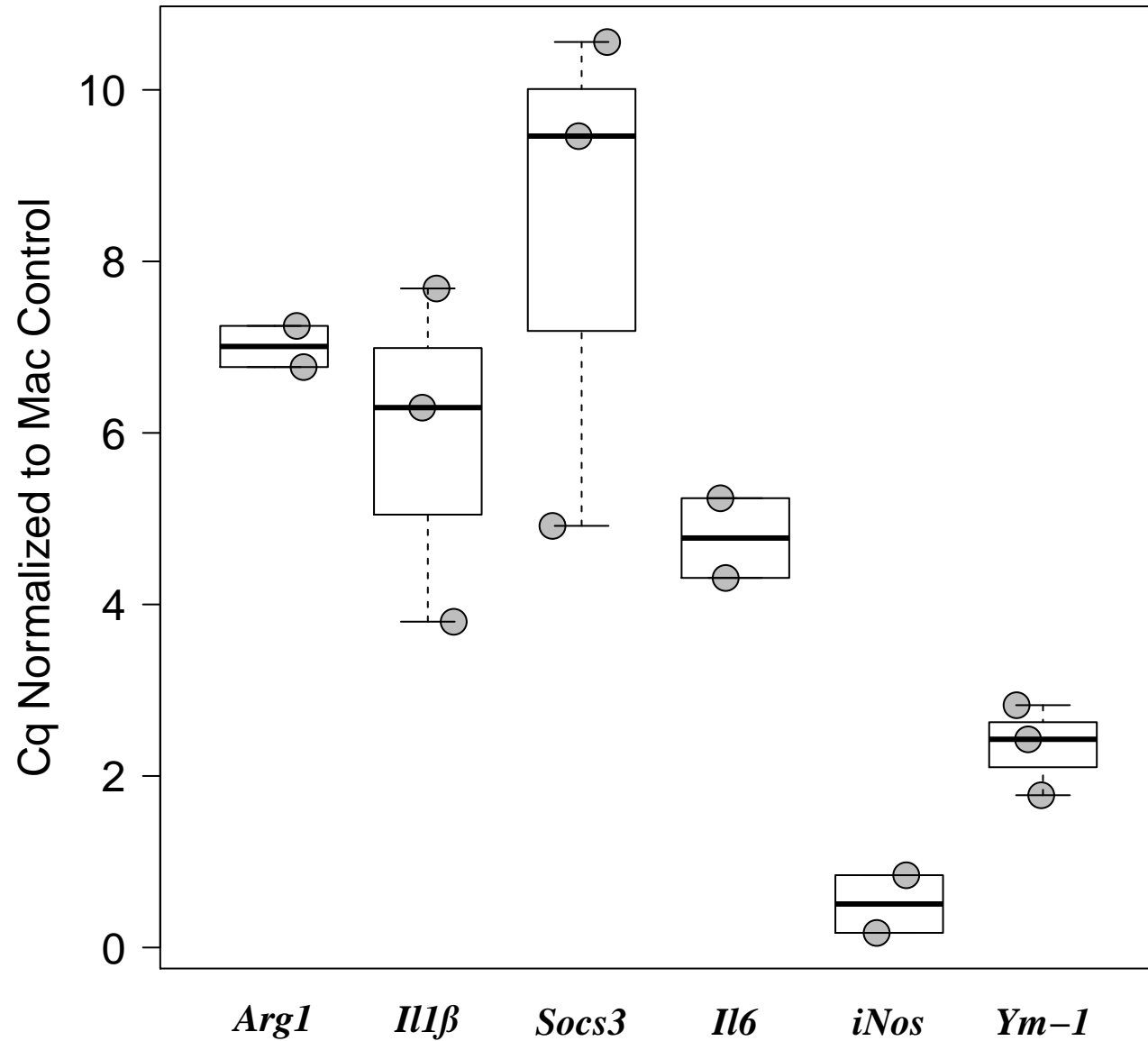
H2122 (Arg1 SD = 2.6)



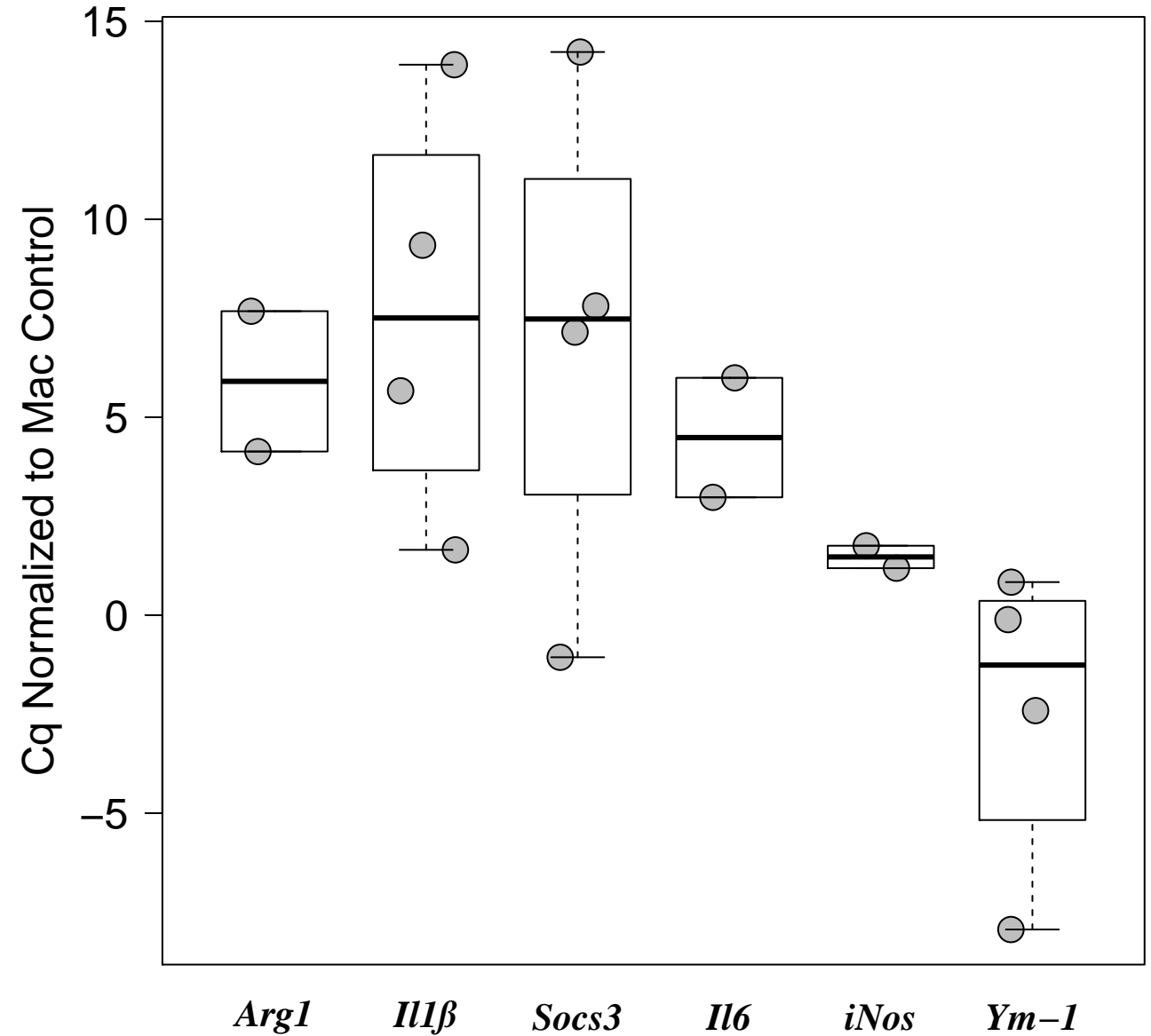
H2172 (Arg1 SD = 4.8)



H2258 (Arg1 SD = 0.3)

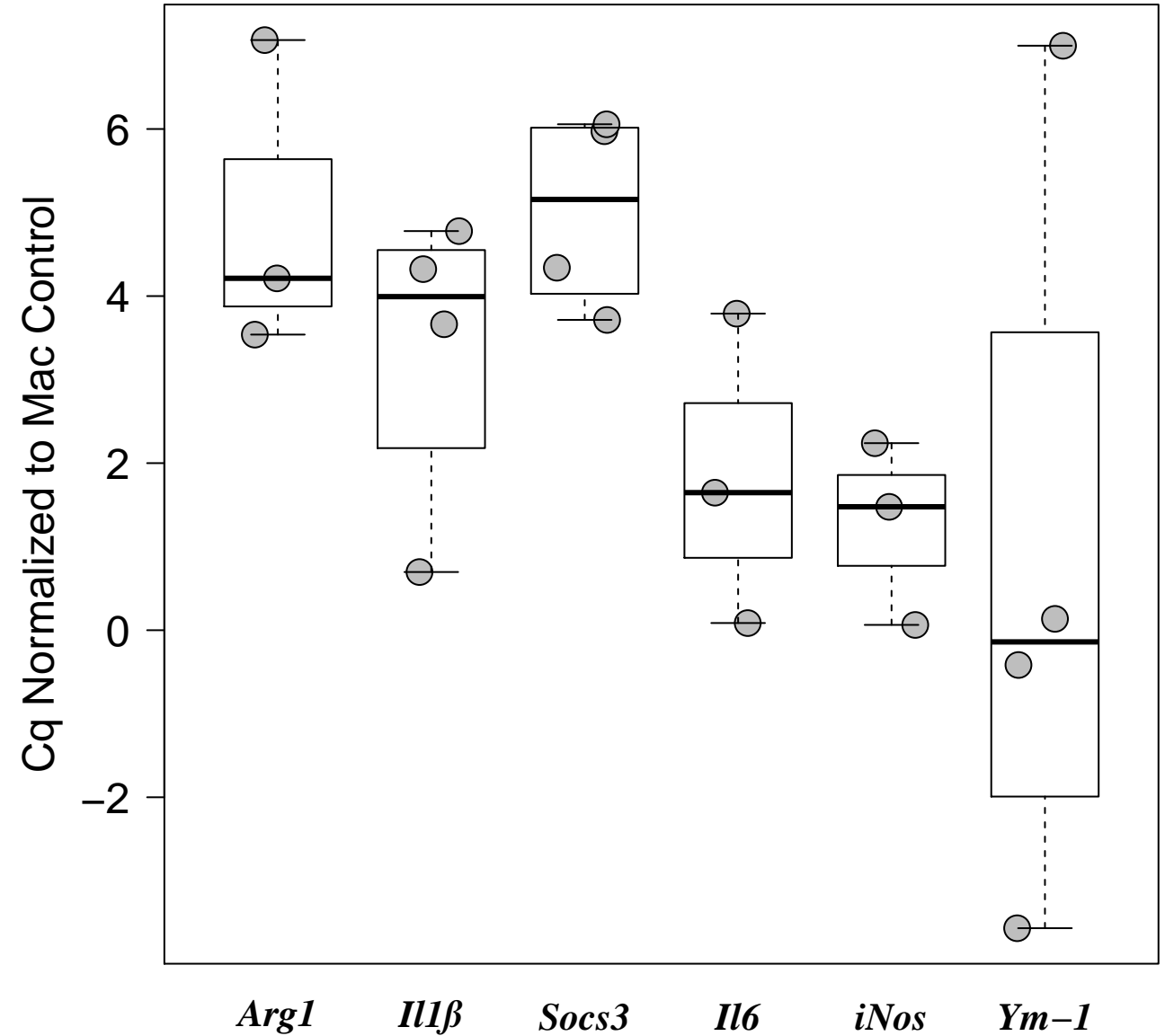
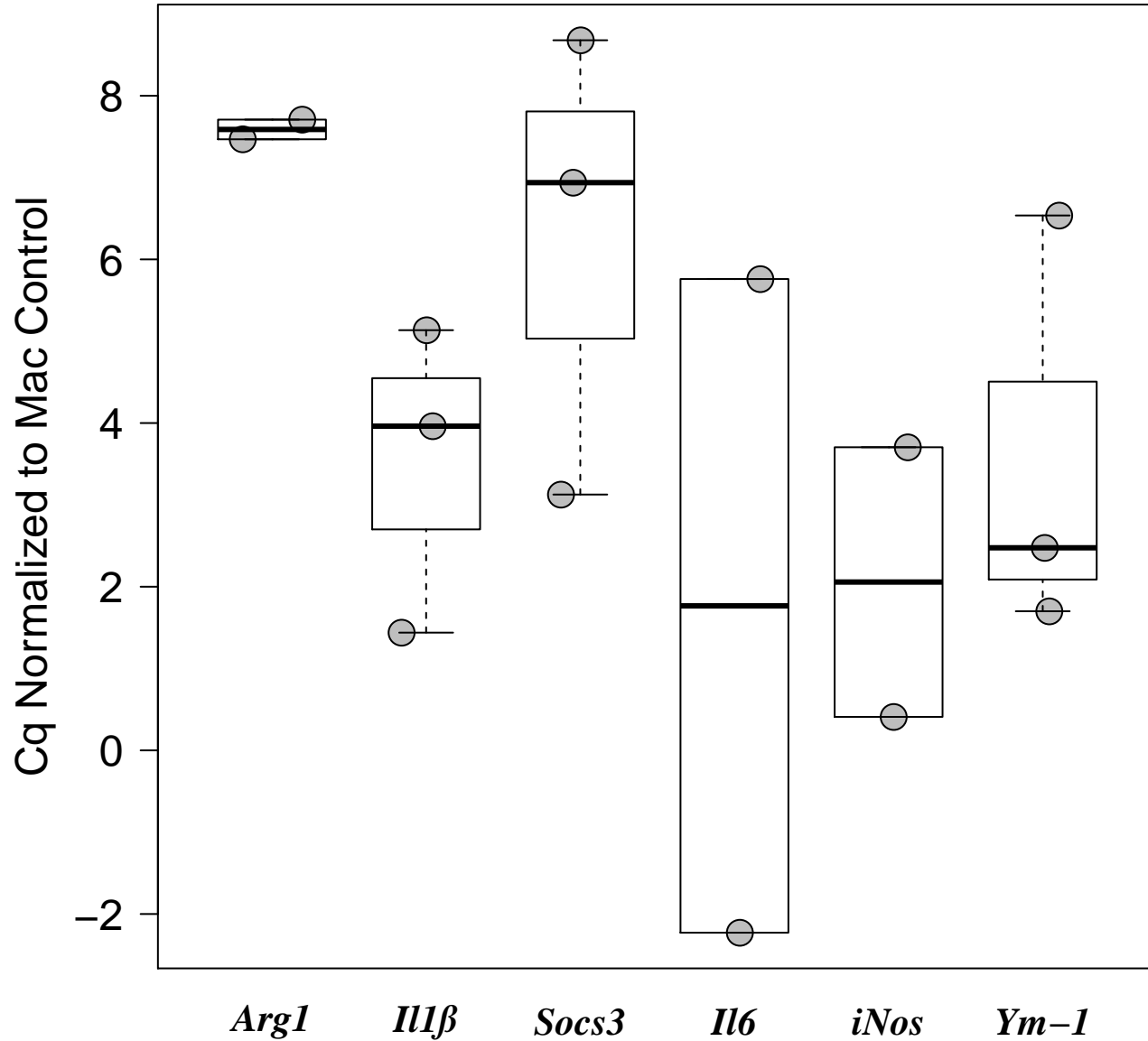


H226 (Arg1 SD = 2.5)



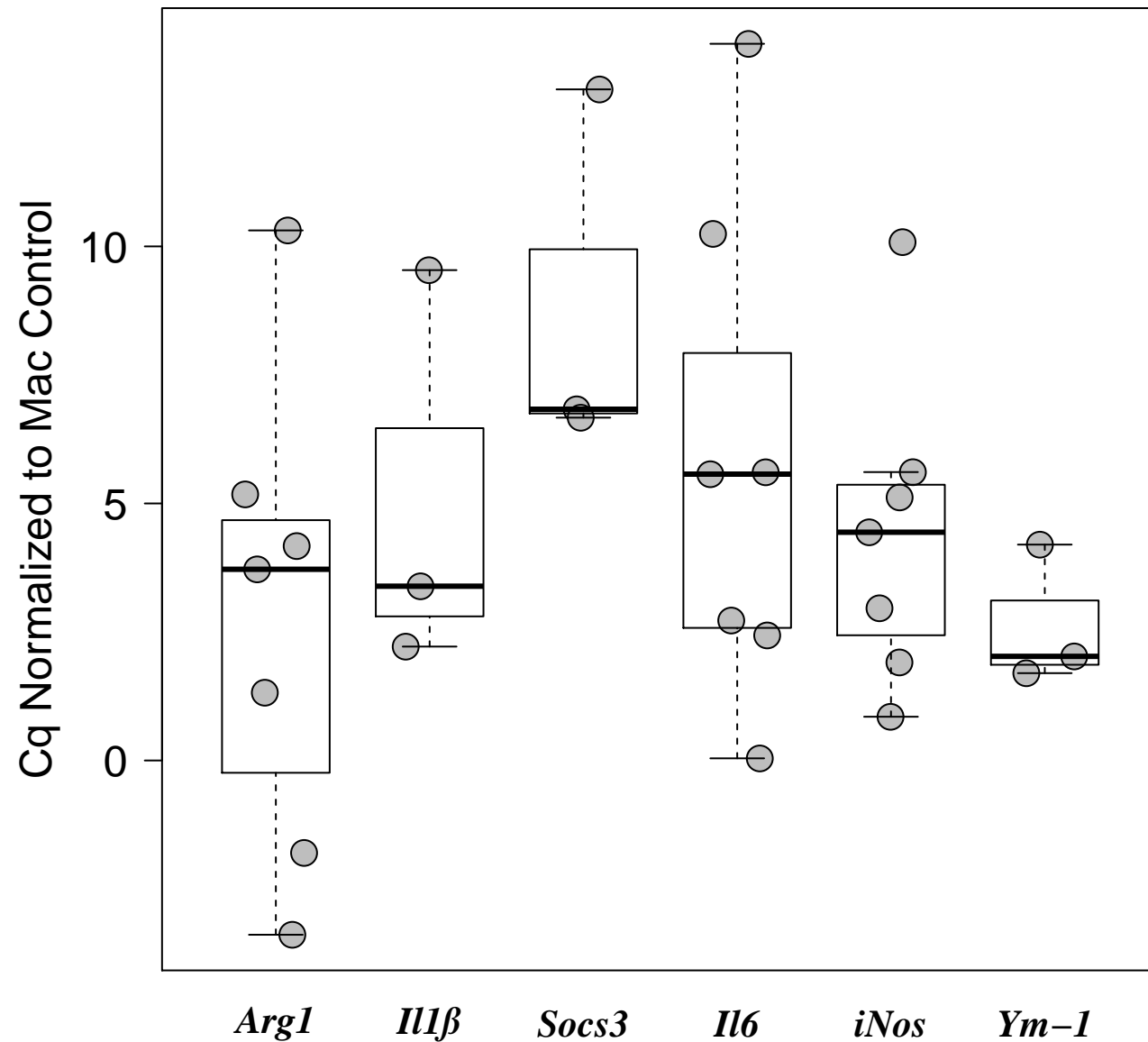
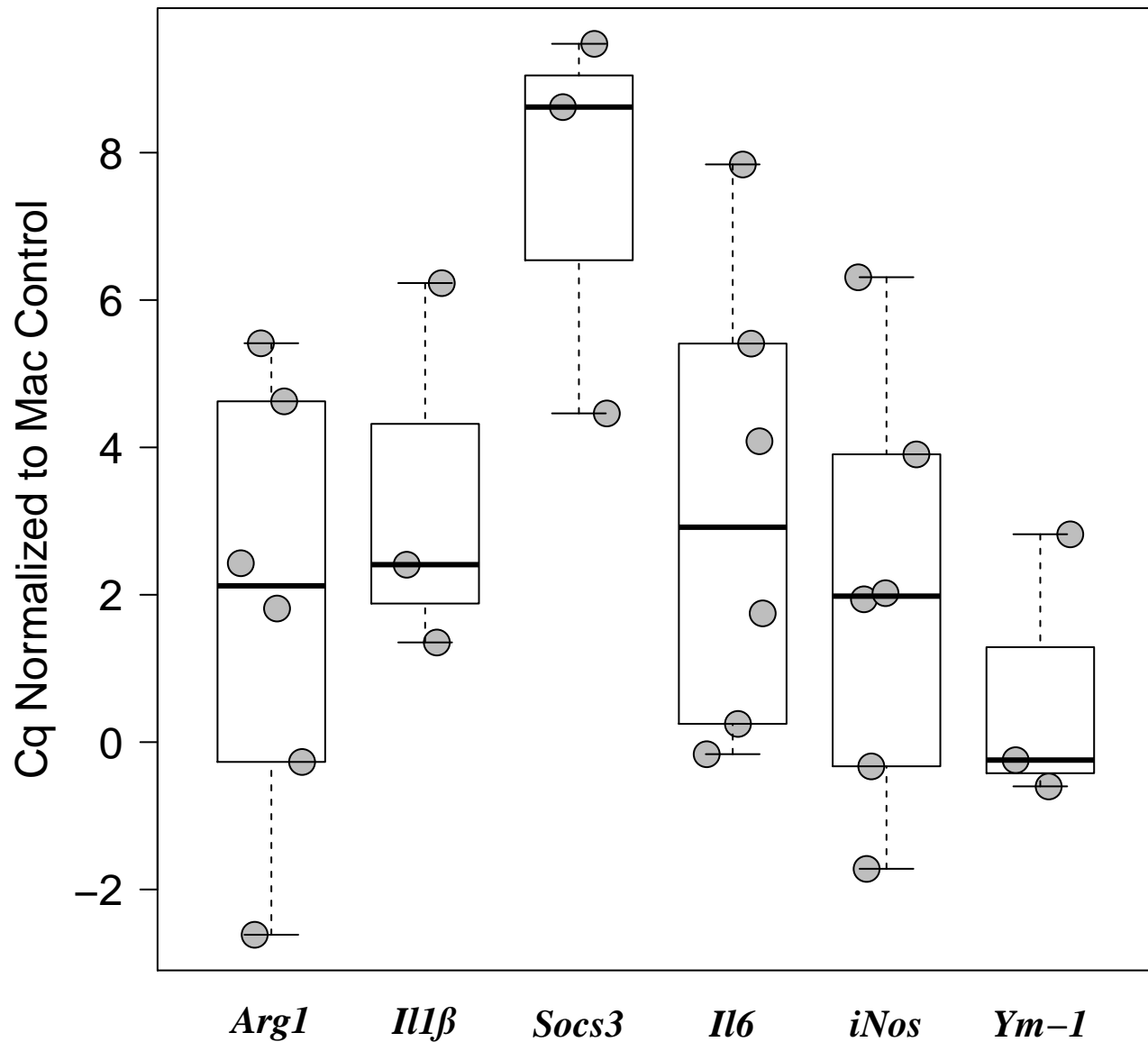
H2291 (Arg1 SD = 0.2)

H23 (Arg1 SD = 1.9)

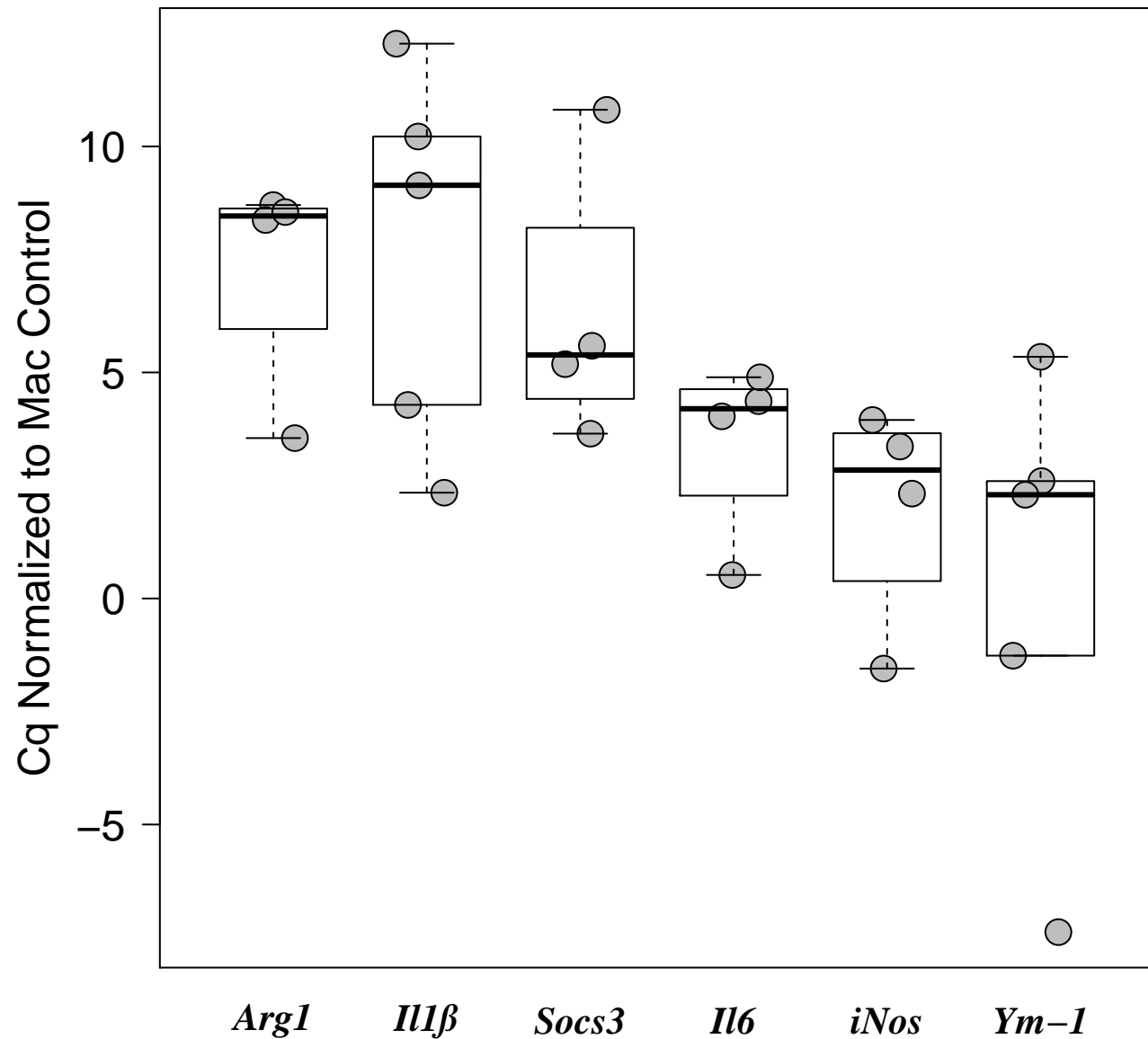


H2347 (Arg1 SD = 3)

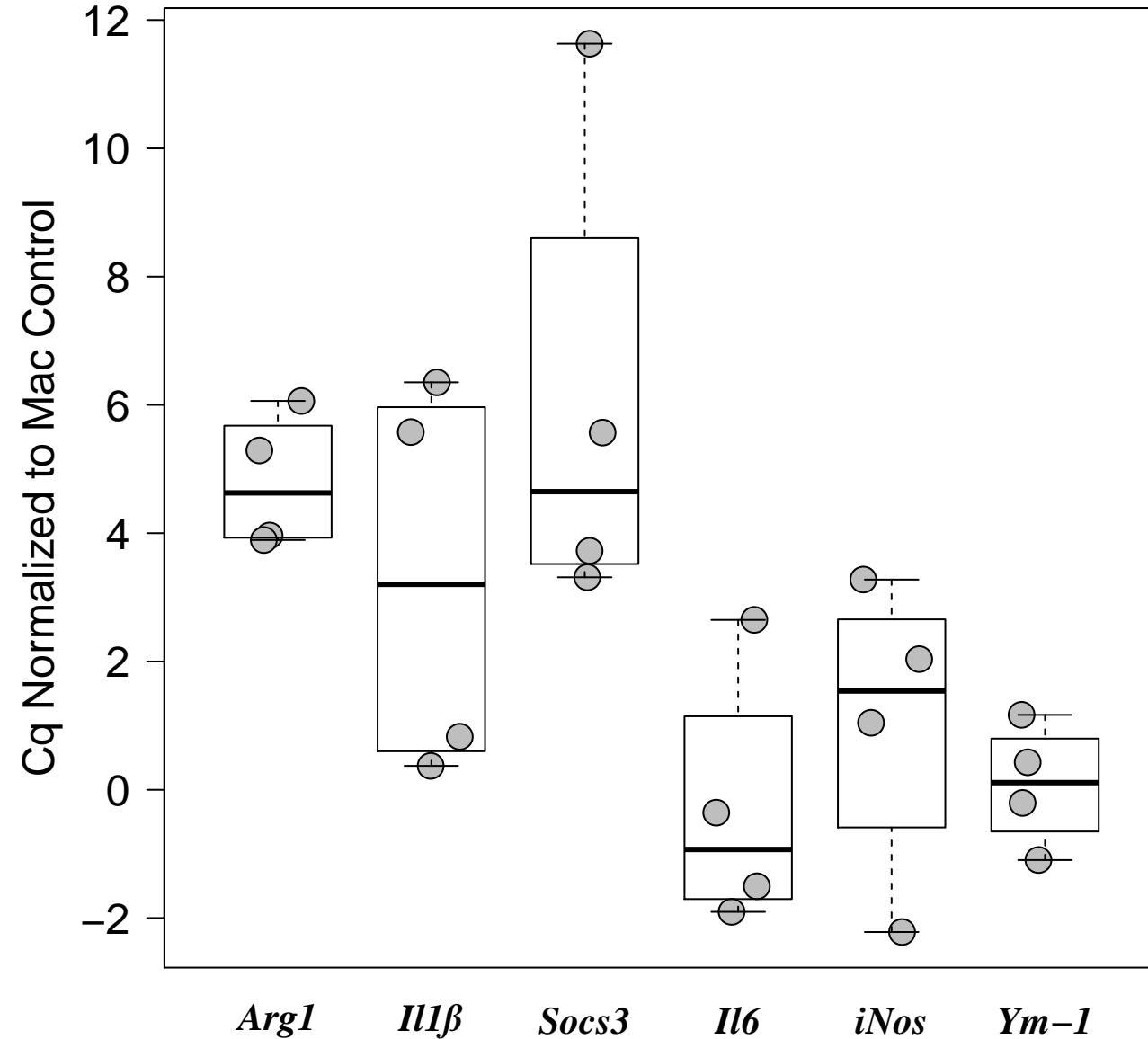
H2887 (Arg1 SD = 4.6)



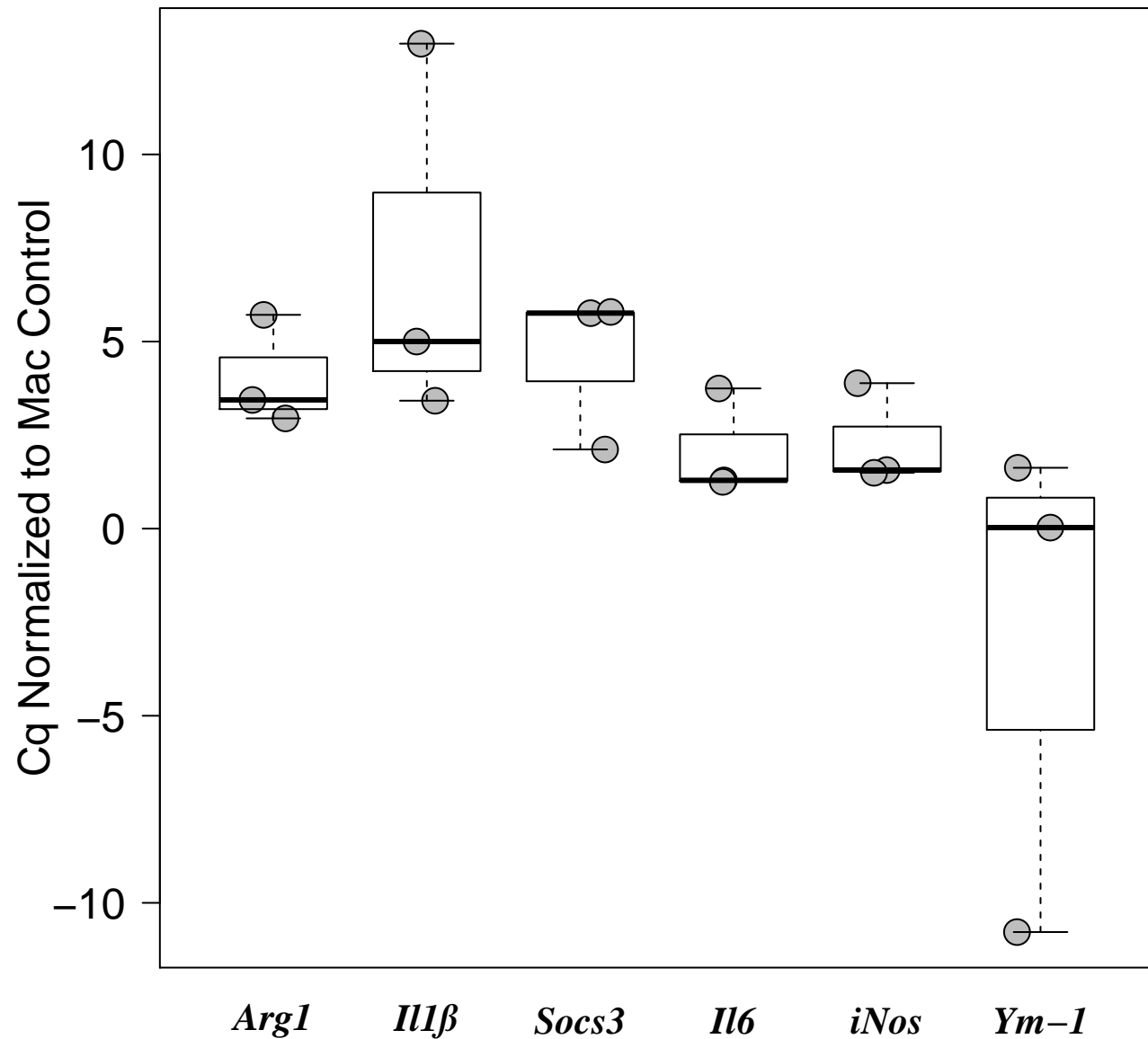
H292 (Arg1 SD = 2.5)



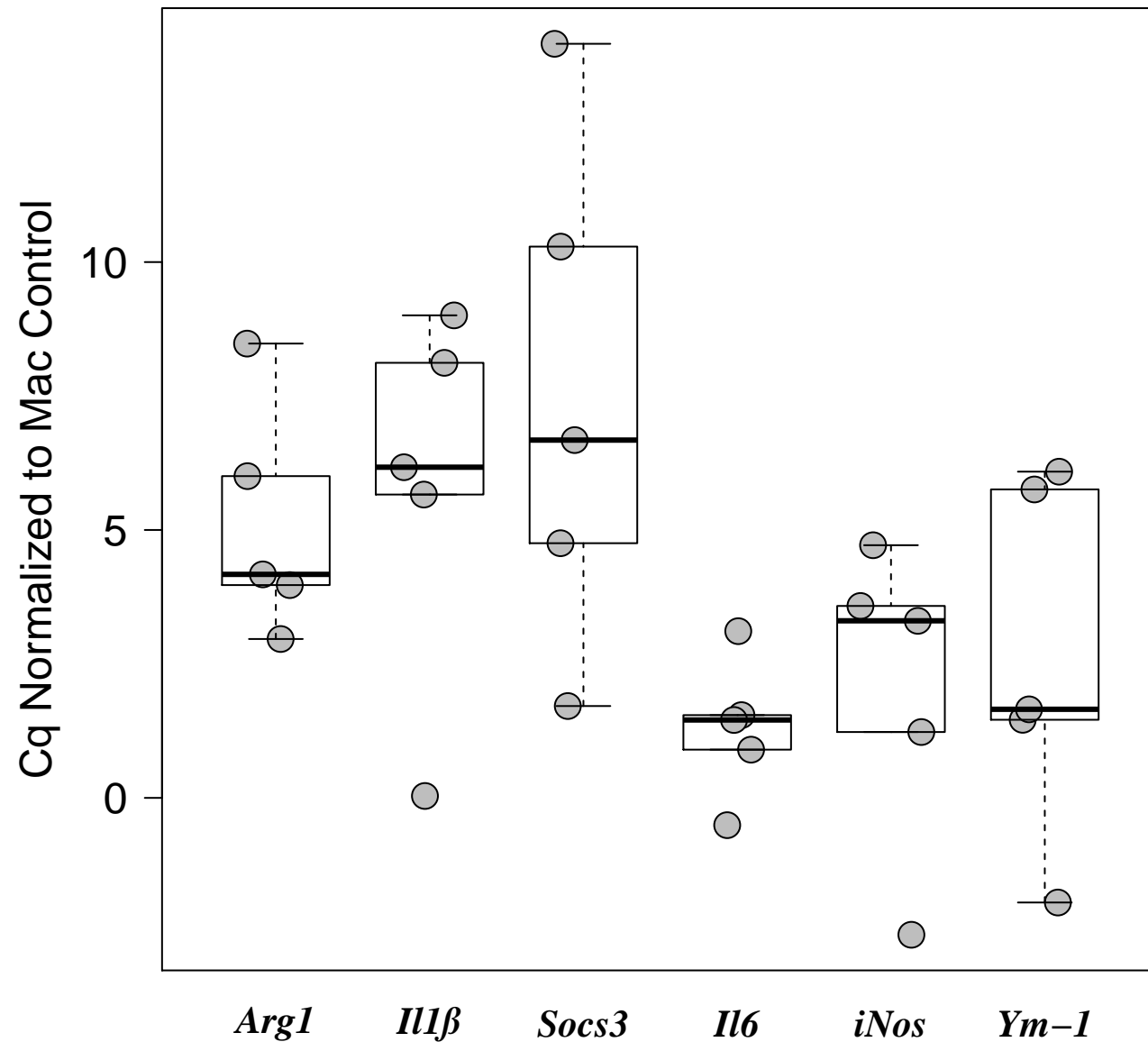
H3255 (Arg1 SD = 1.1)



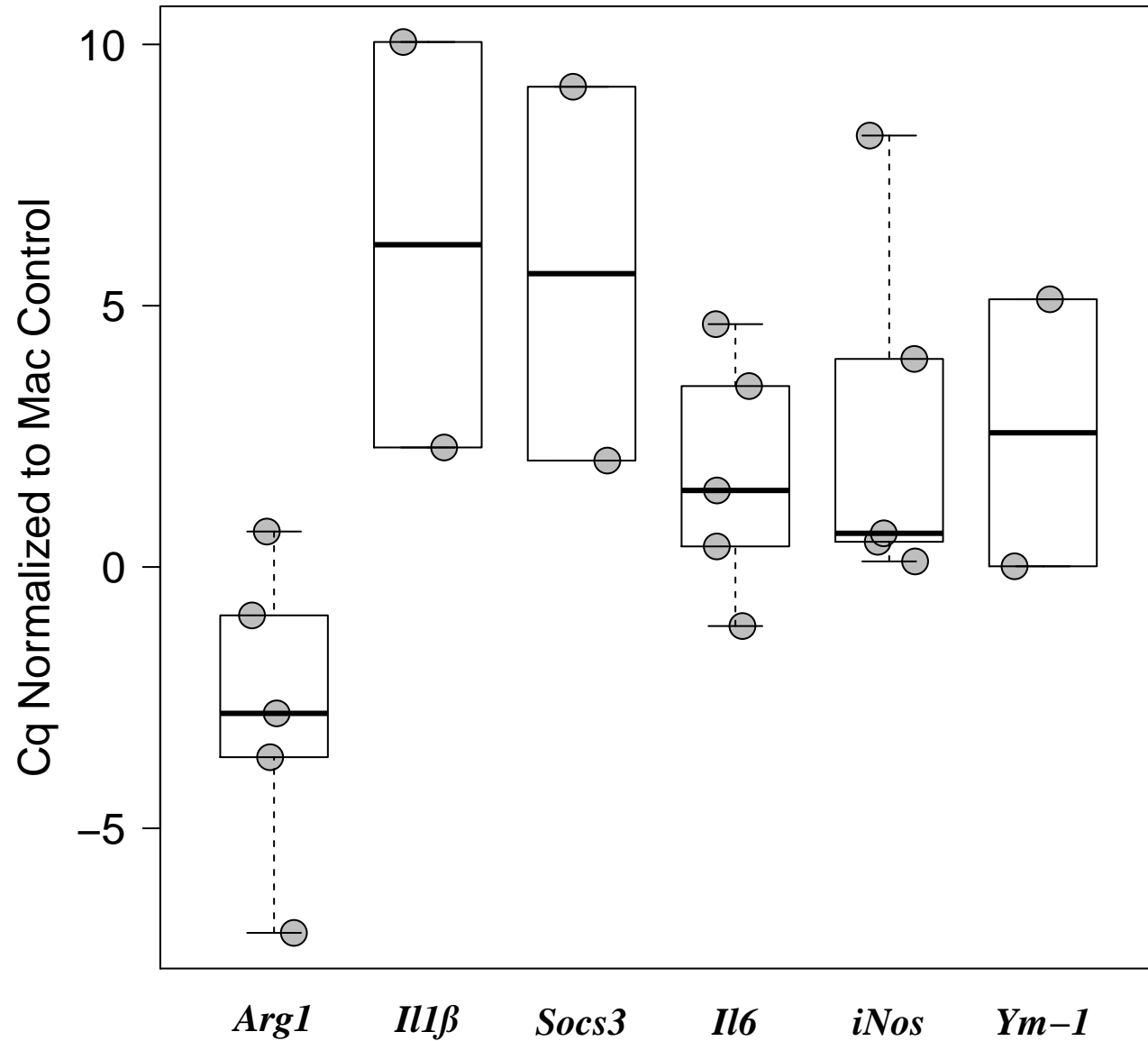
H358 (Arg1 SD = 1.5)



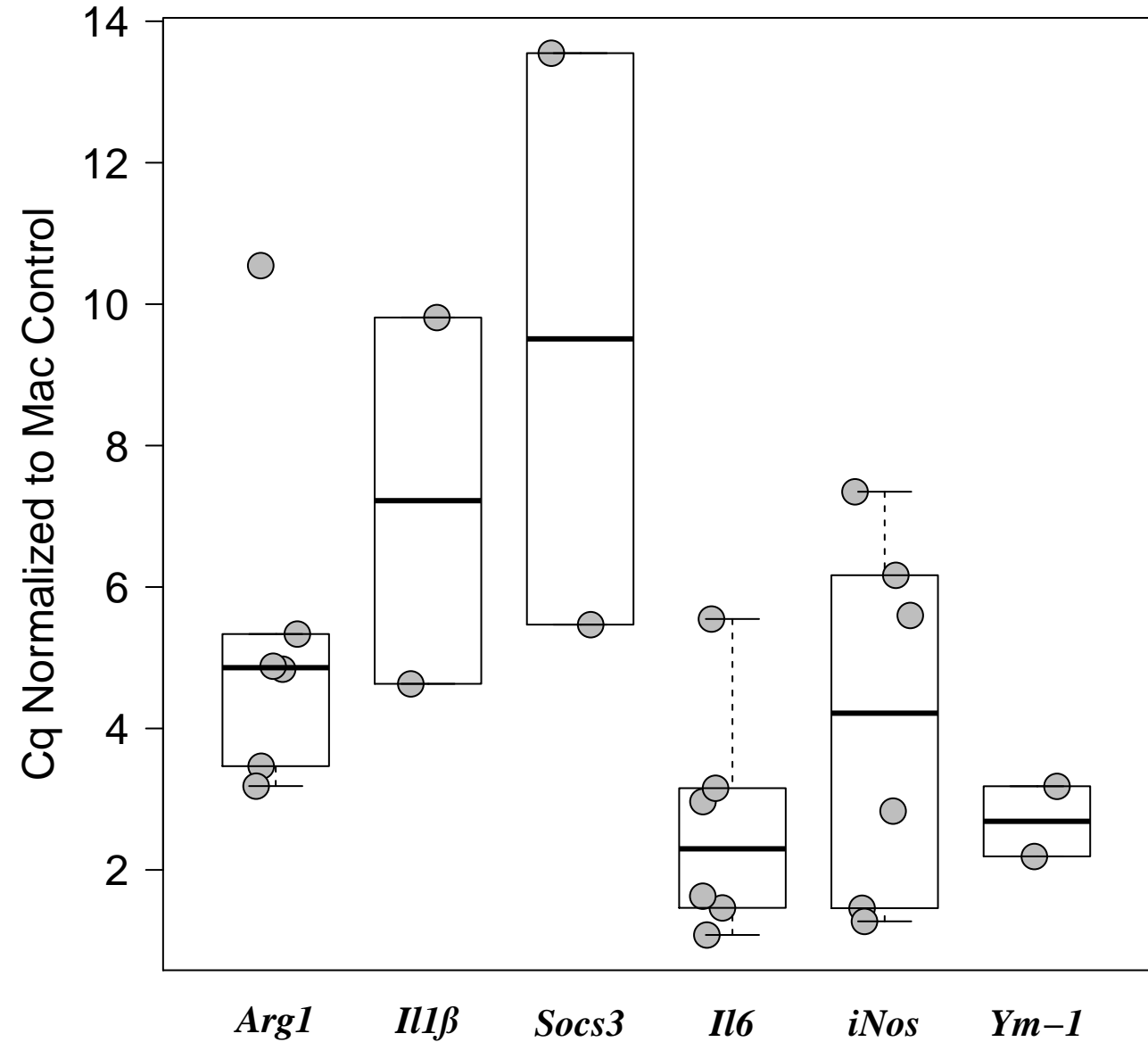
H441 (Arg1 SD = 2.2)



H446 (Arg1 SD = 2.9)

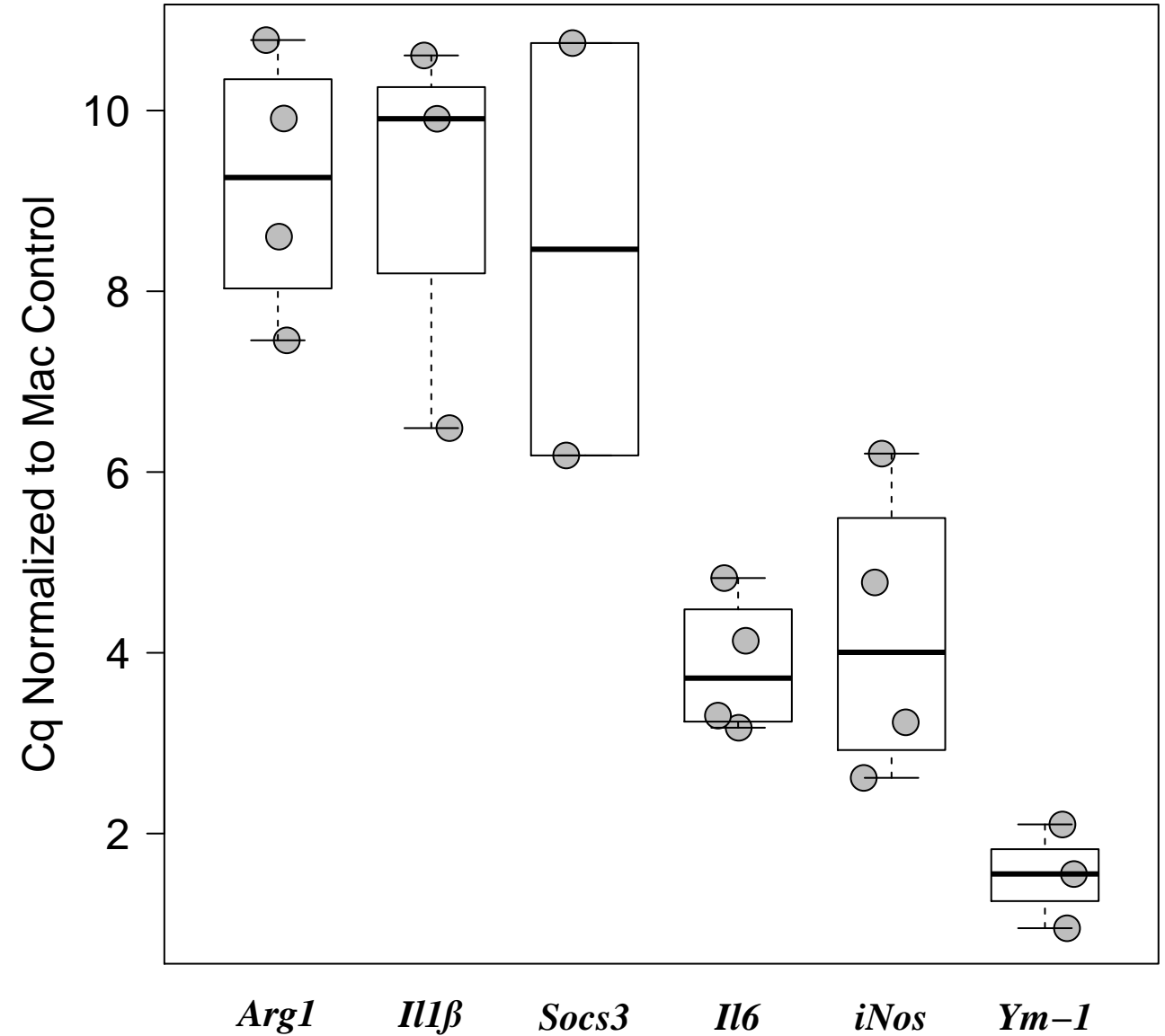
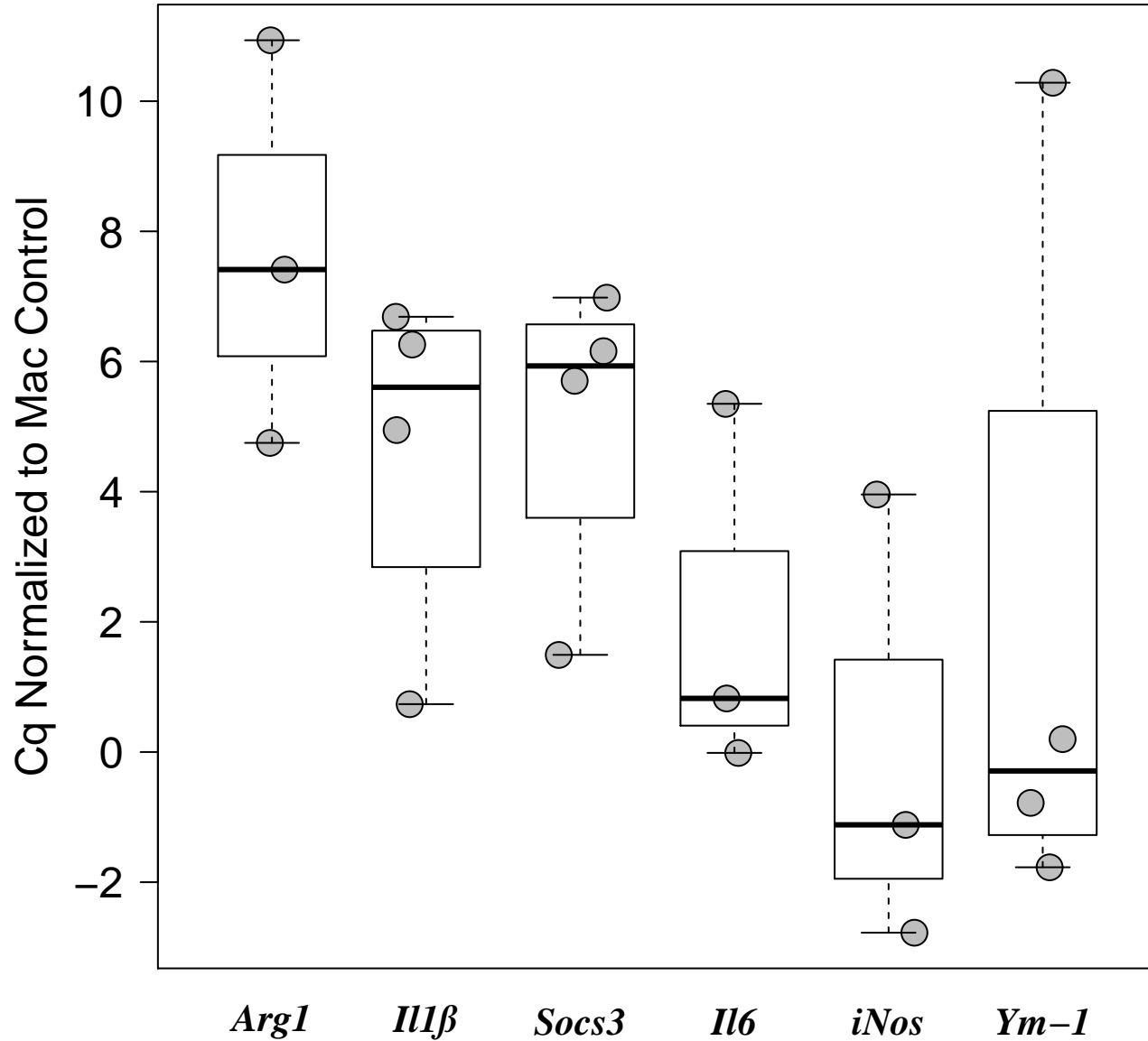


H460 (Arg1 SD = 2.7)



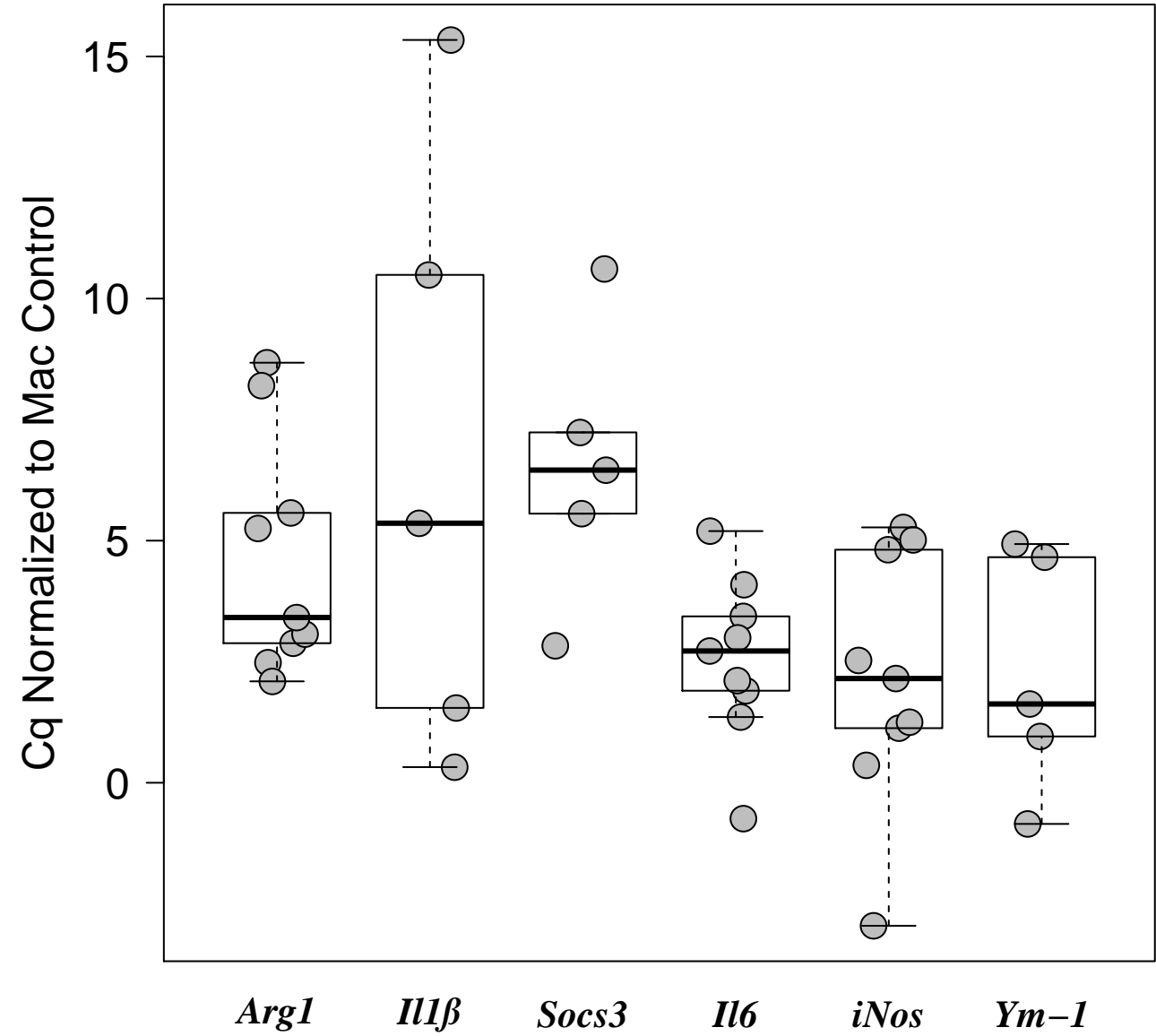
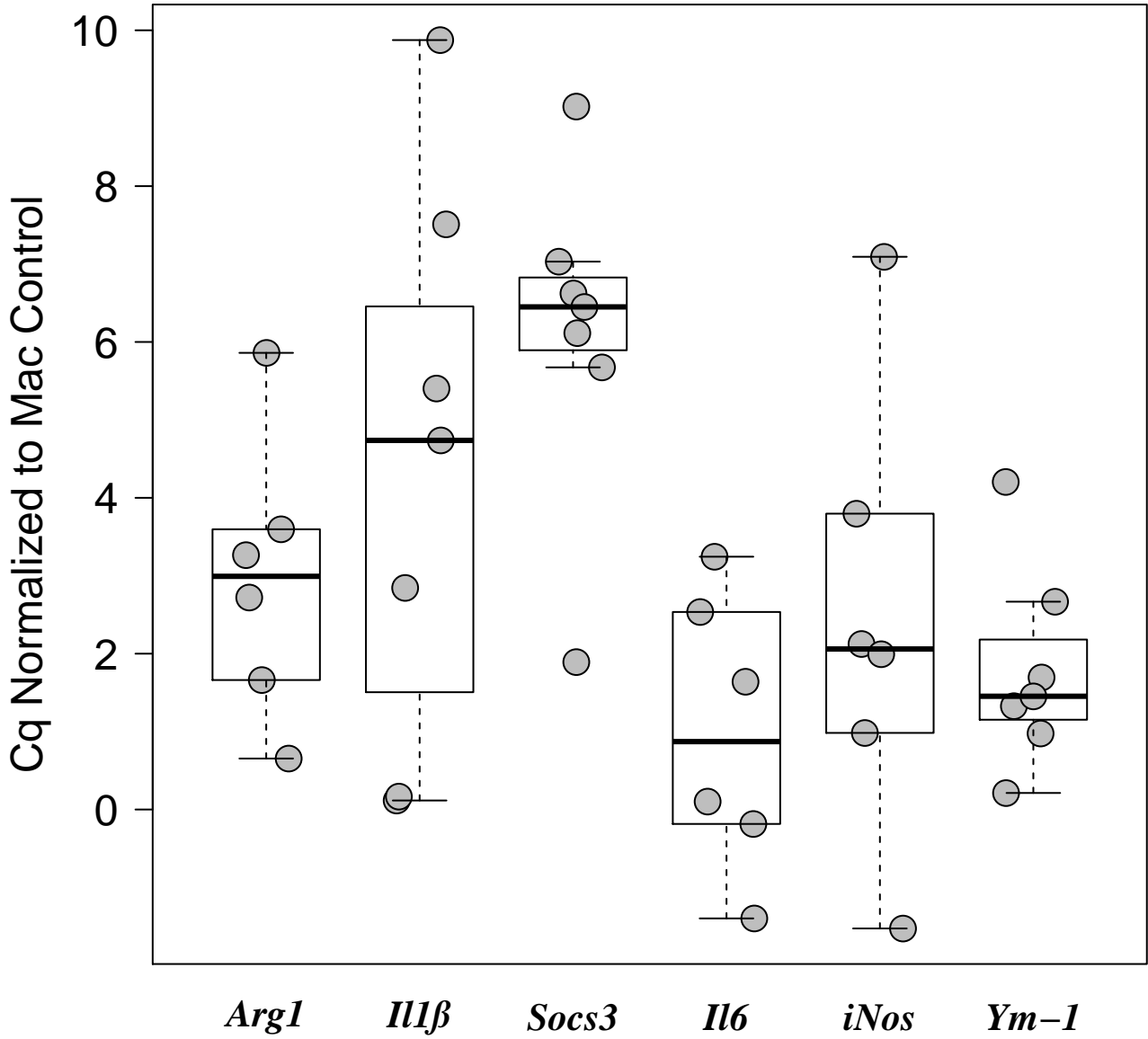
H522 (Arg1 SD = 3.1)

H596 (Arg1 SD = 1.5)

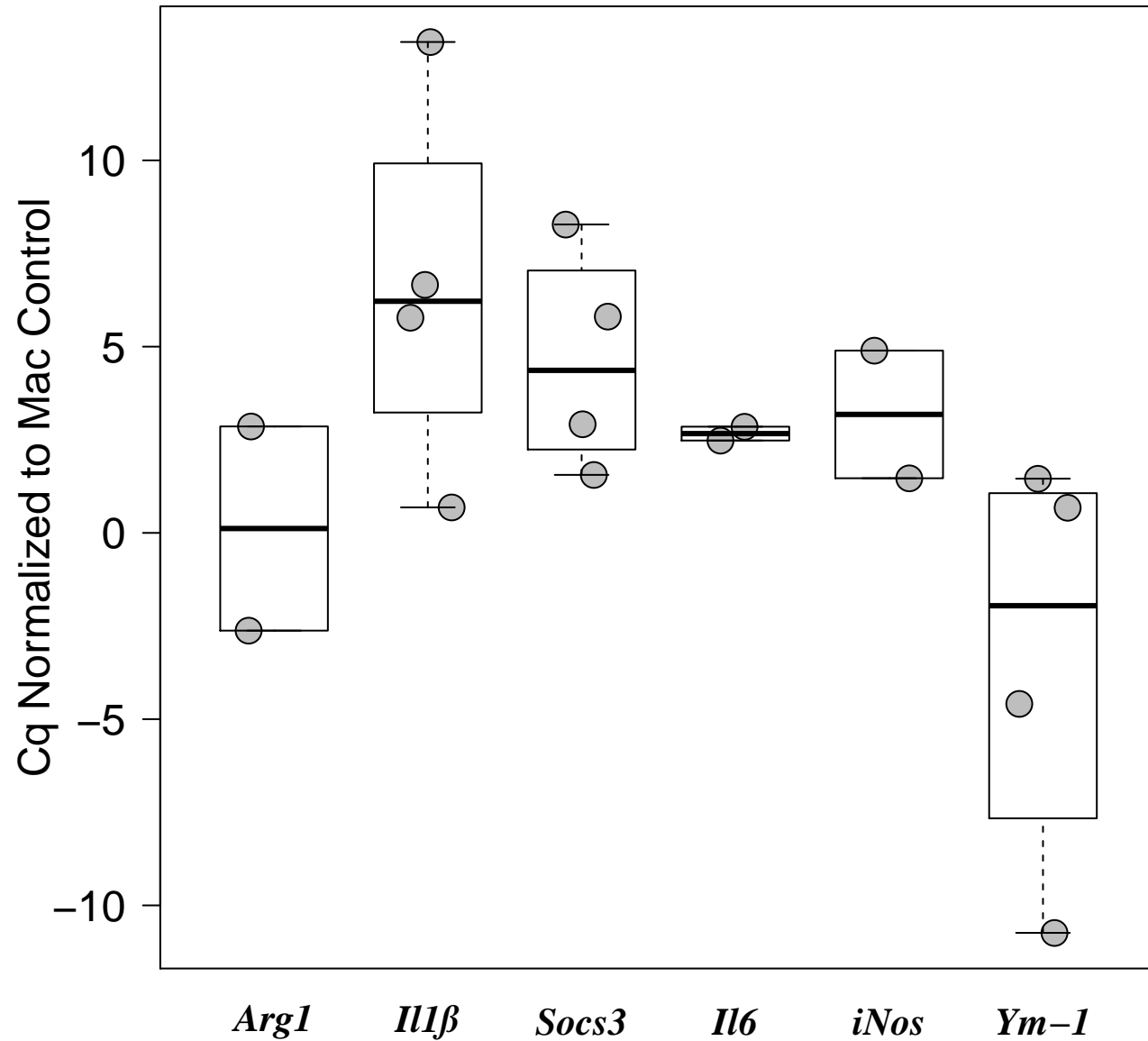


H647 (Arg1 SD = 1.8)

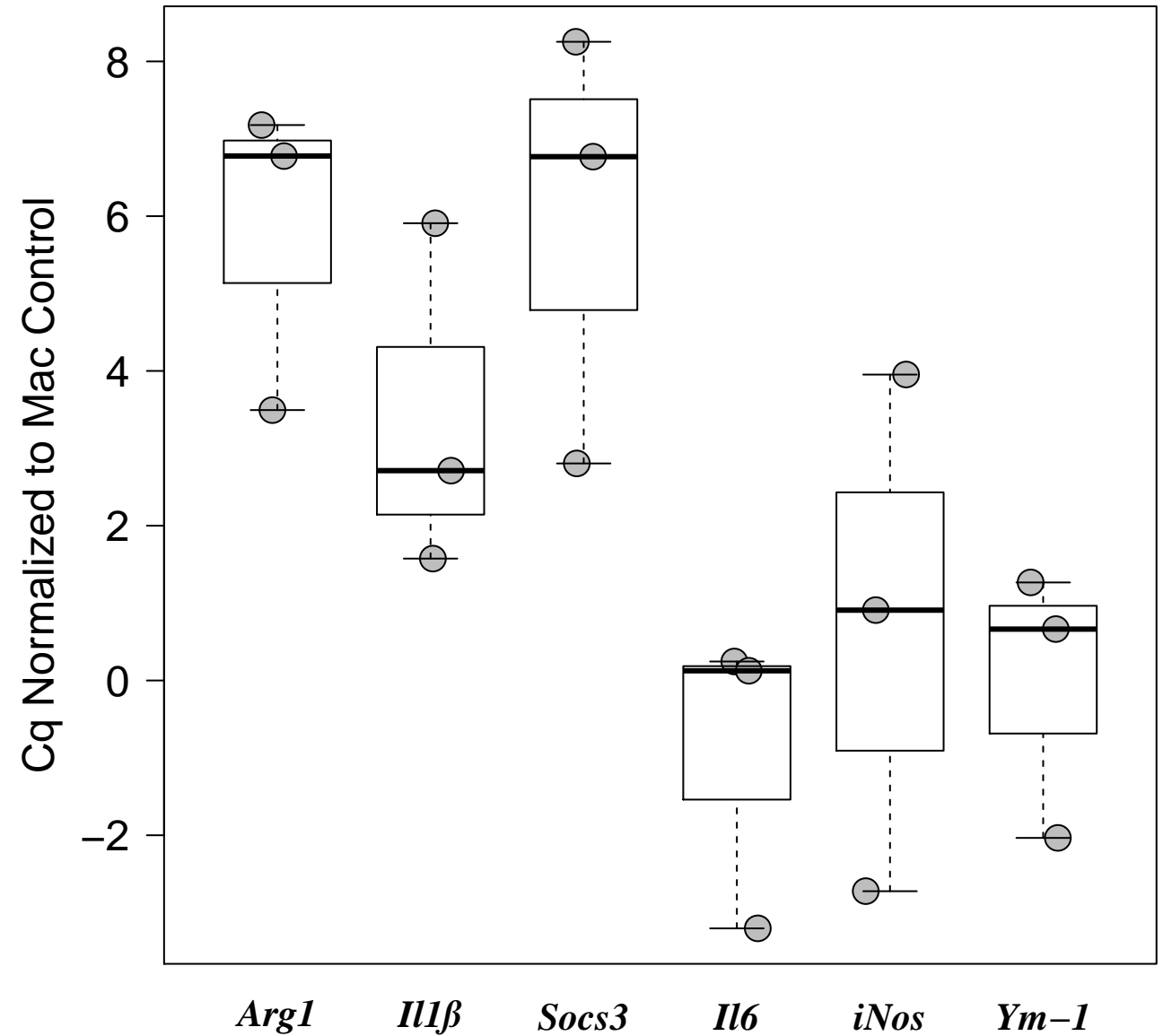
H650 (Arg1 SD = 2.5)



H661 (Arg1 SD = 3.9)

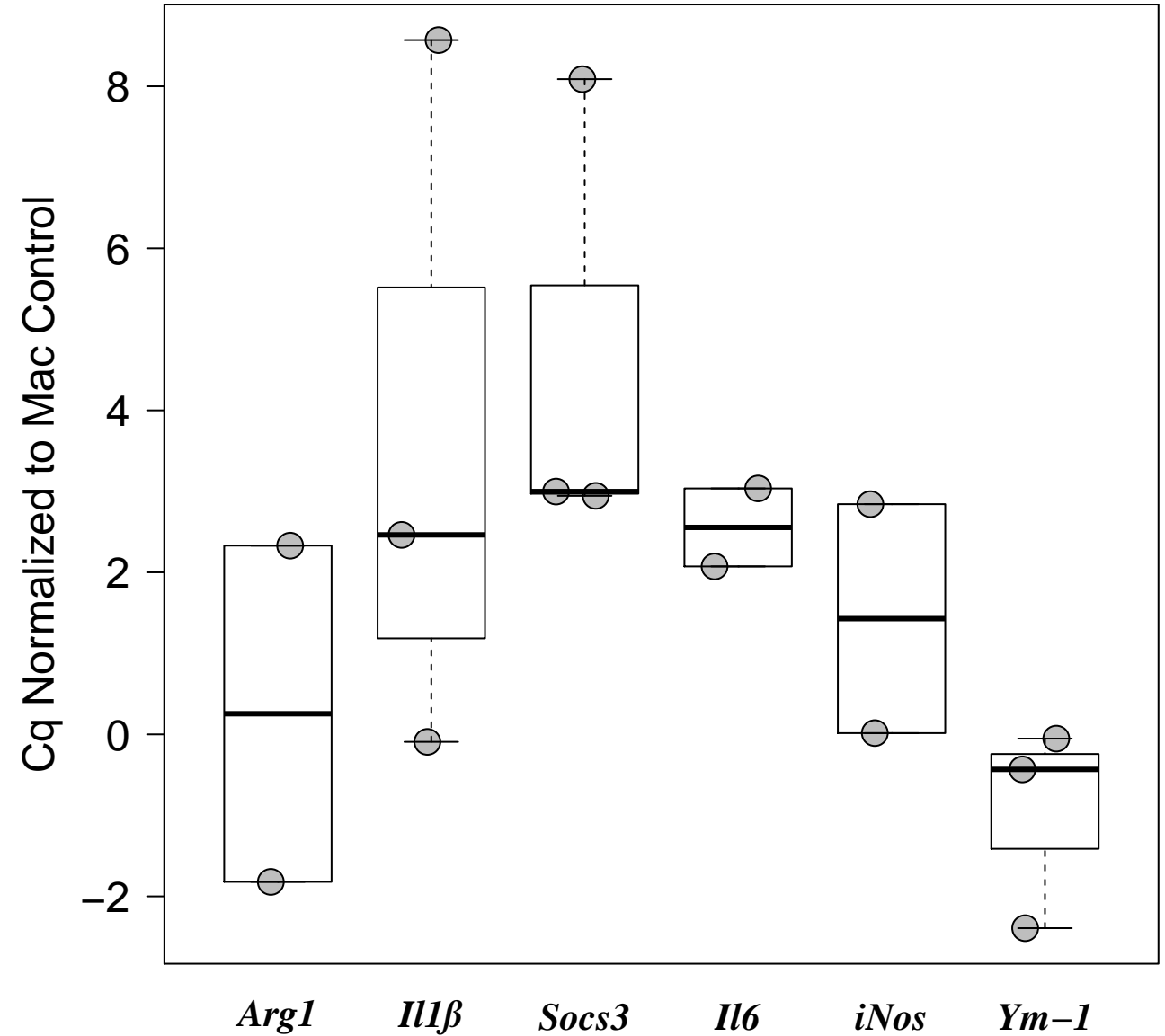
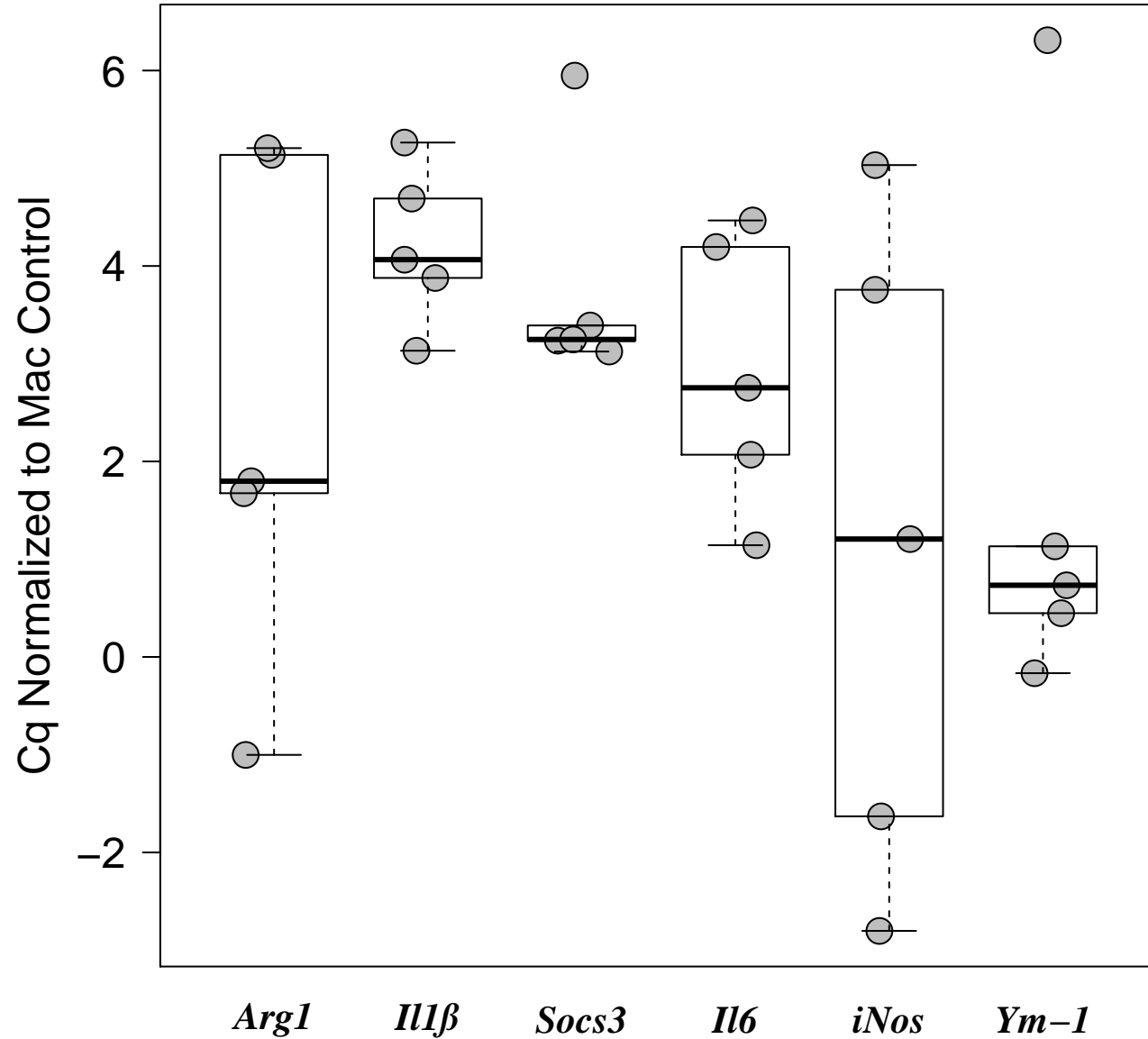


H820 (Arg1 SD = 2)



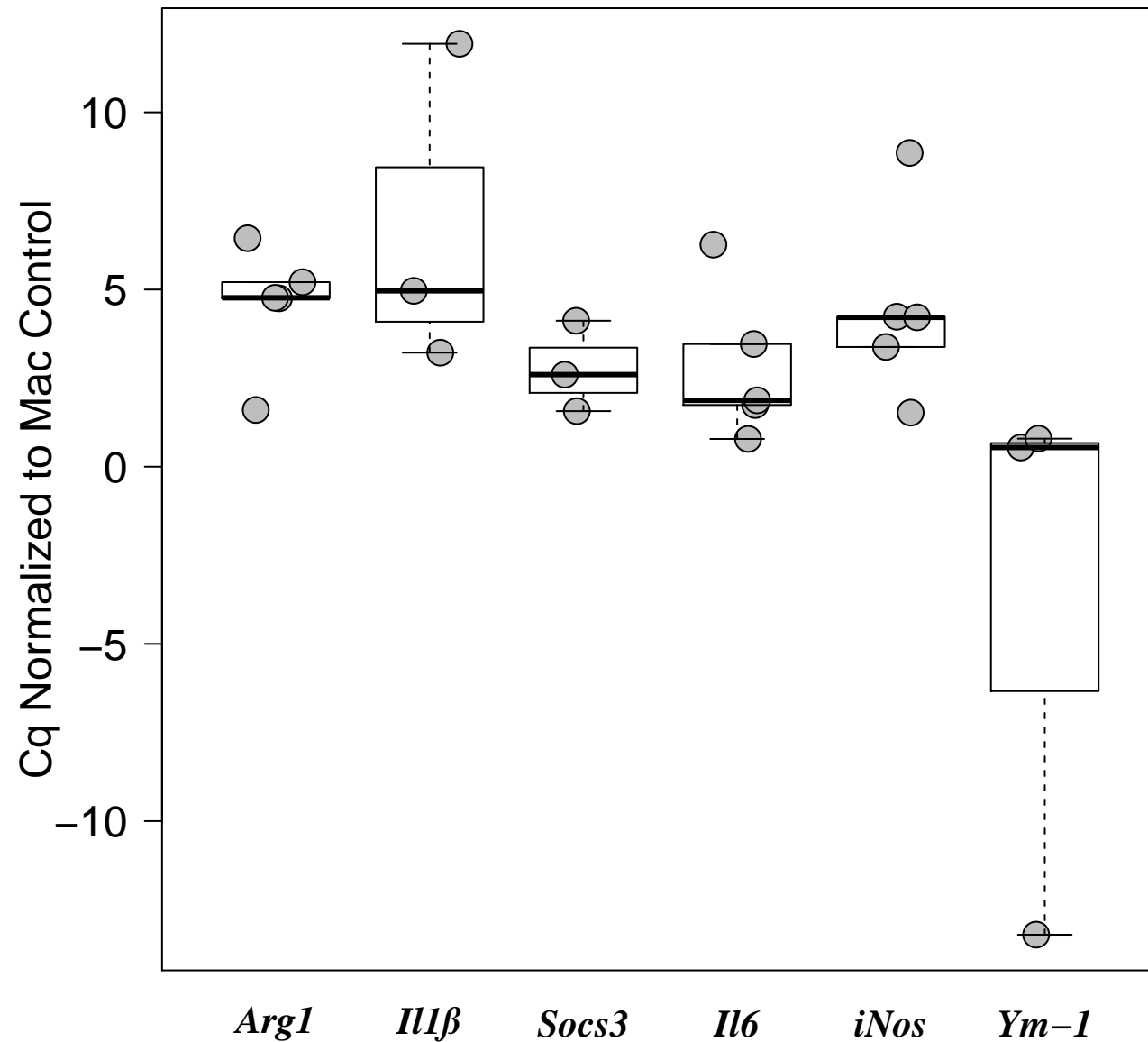
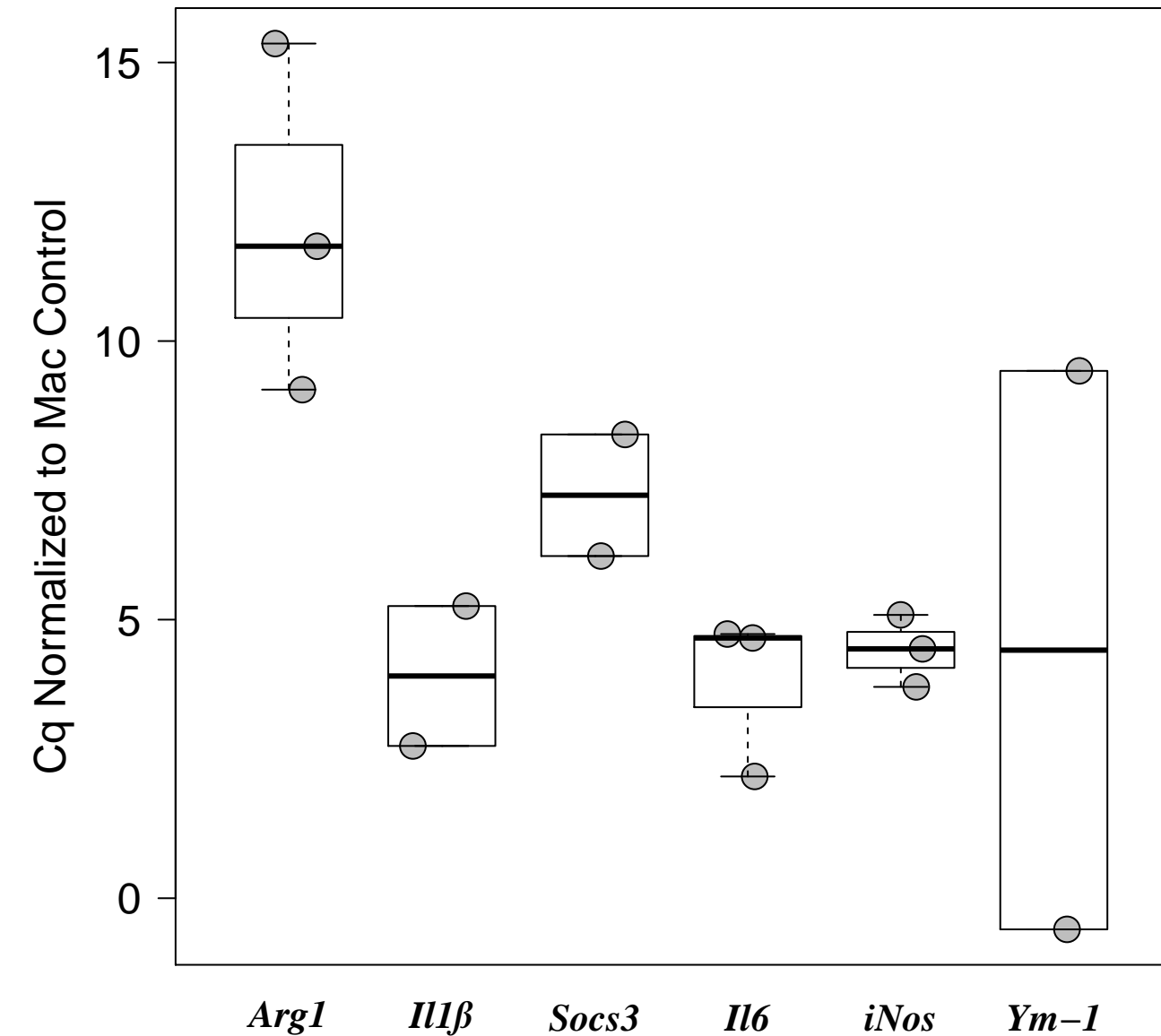
H838 (Arg1 SD = 2.6)

H920 (Arg1 SD = 2.9)



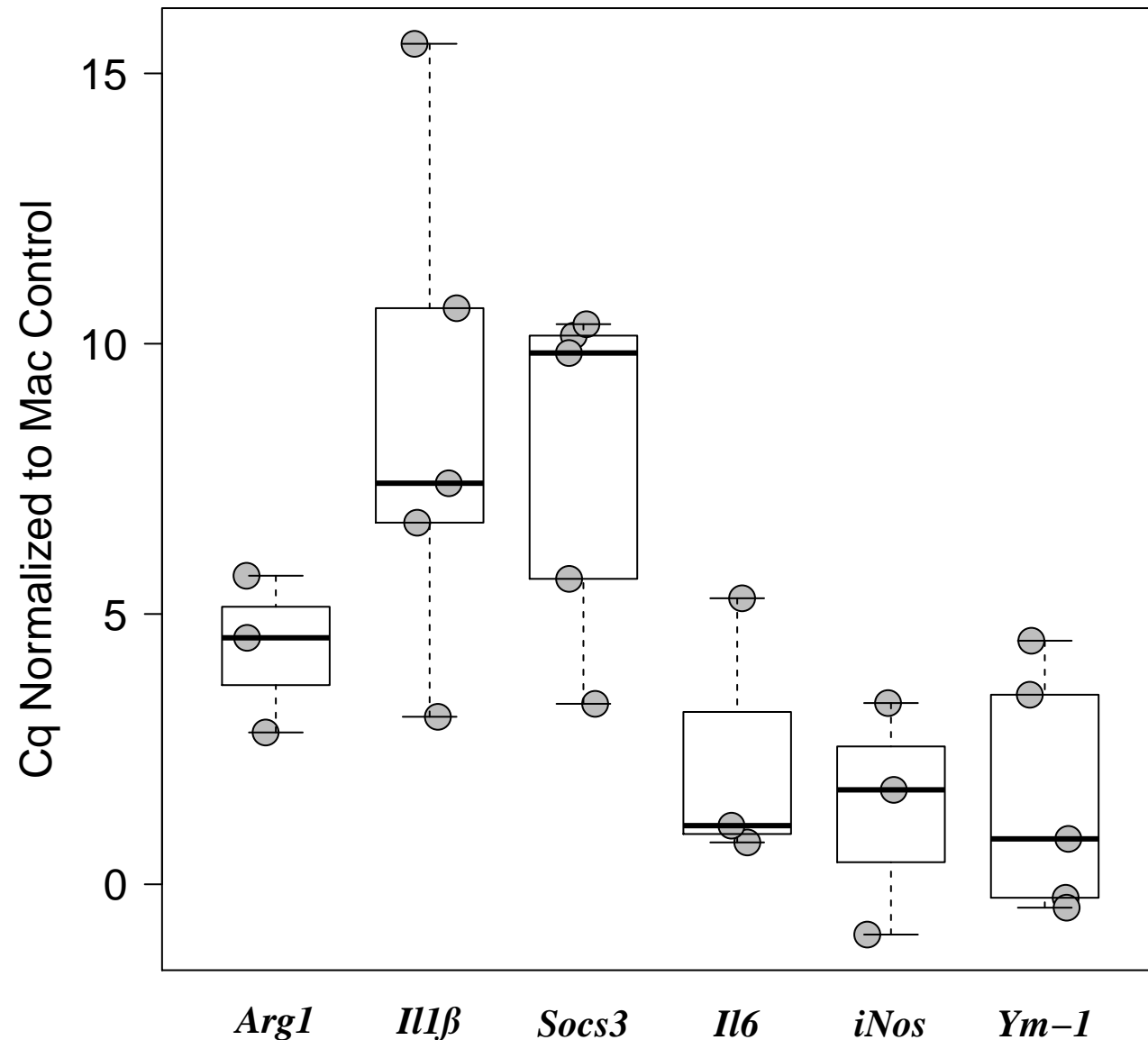
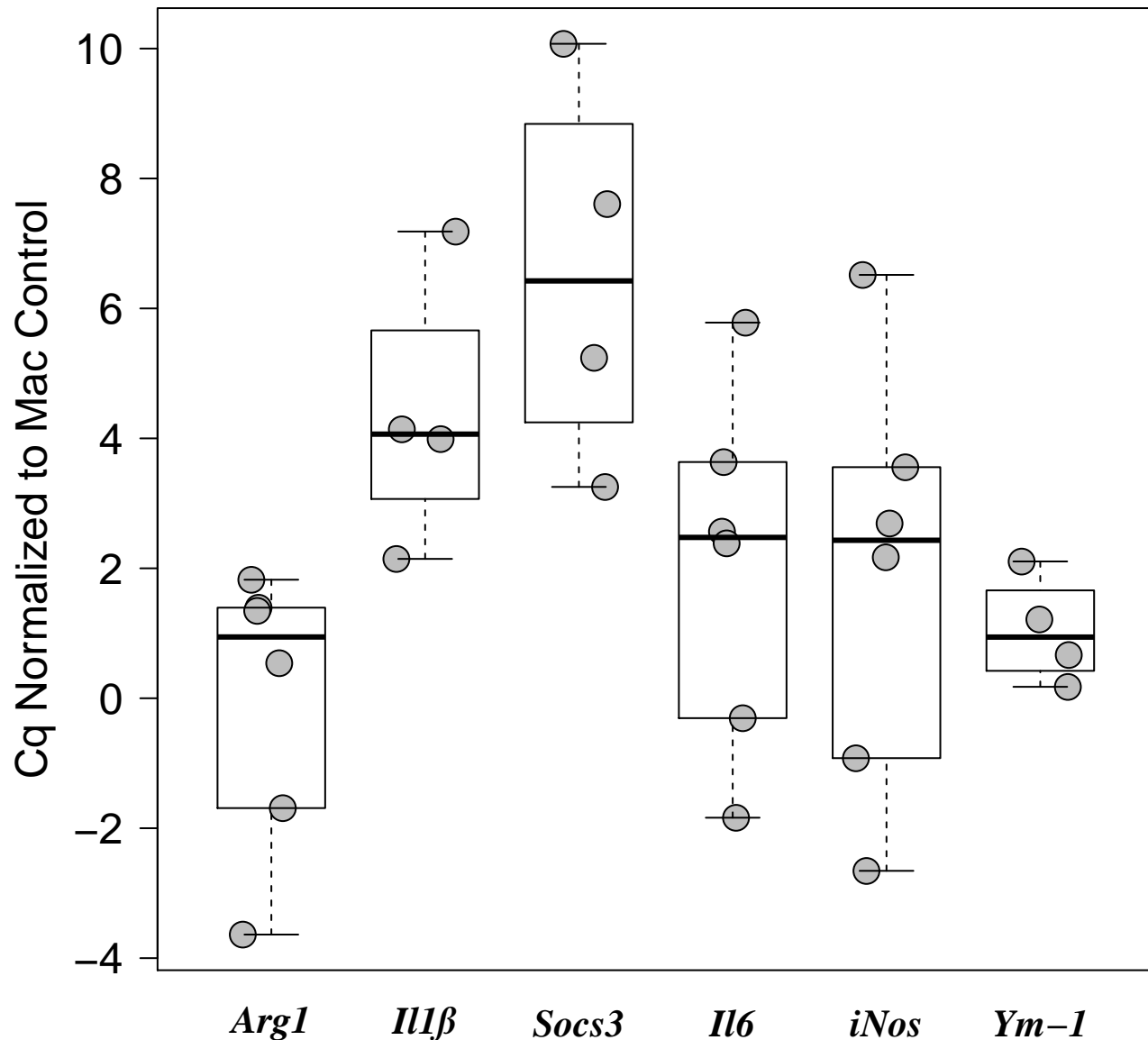
HBEC3-KT (Arg1 SD = 3.1)

HCC1171 (Arg1 SD = 1.8)



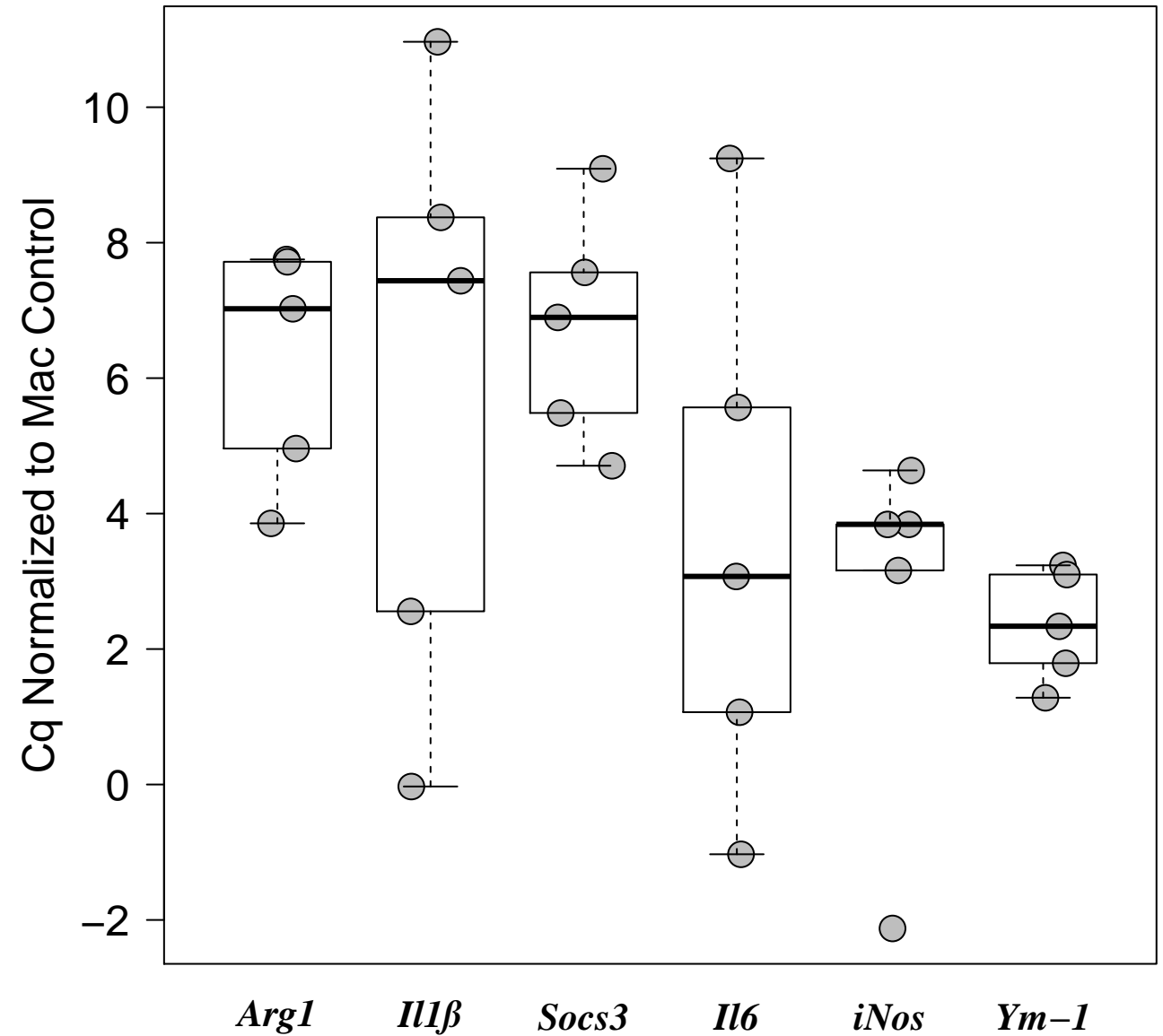
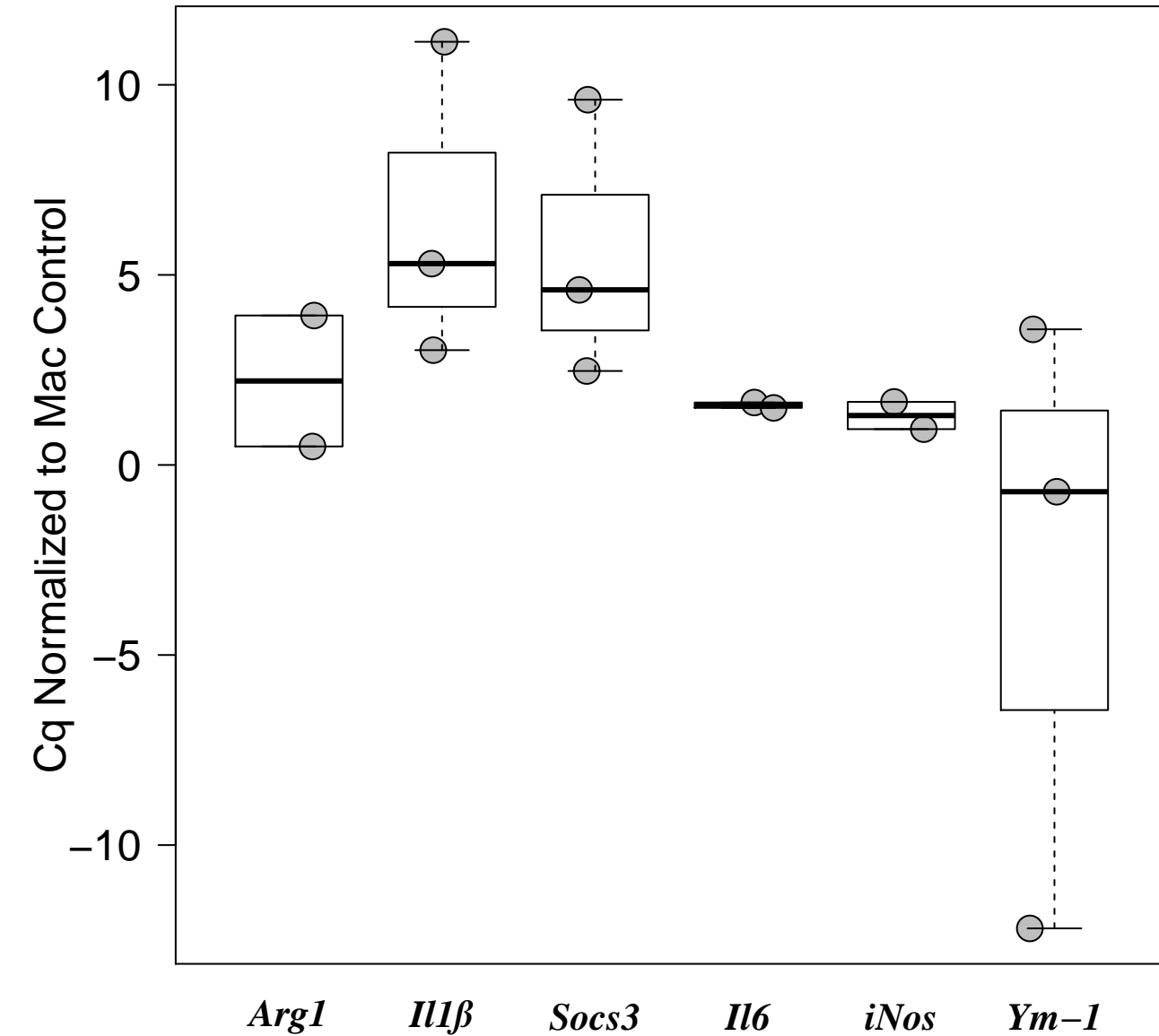
HCC15 (Arg1 SD = 2.2)

HCC1833 (Arg1 SD = 1.5)

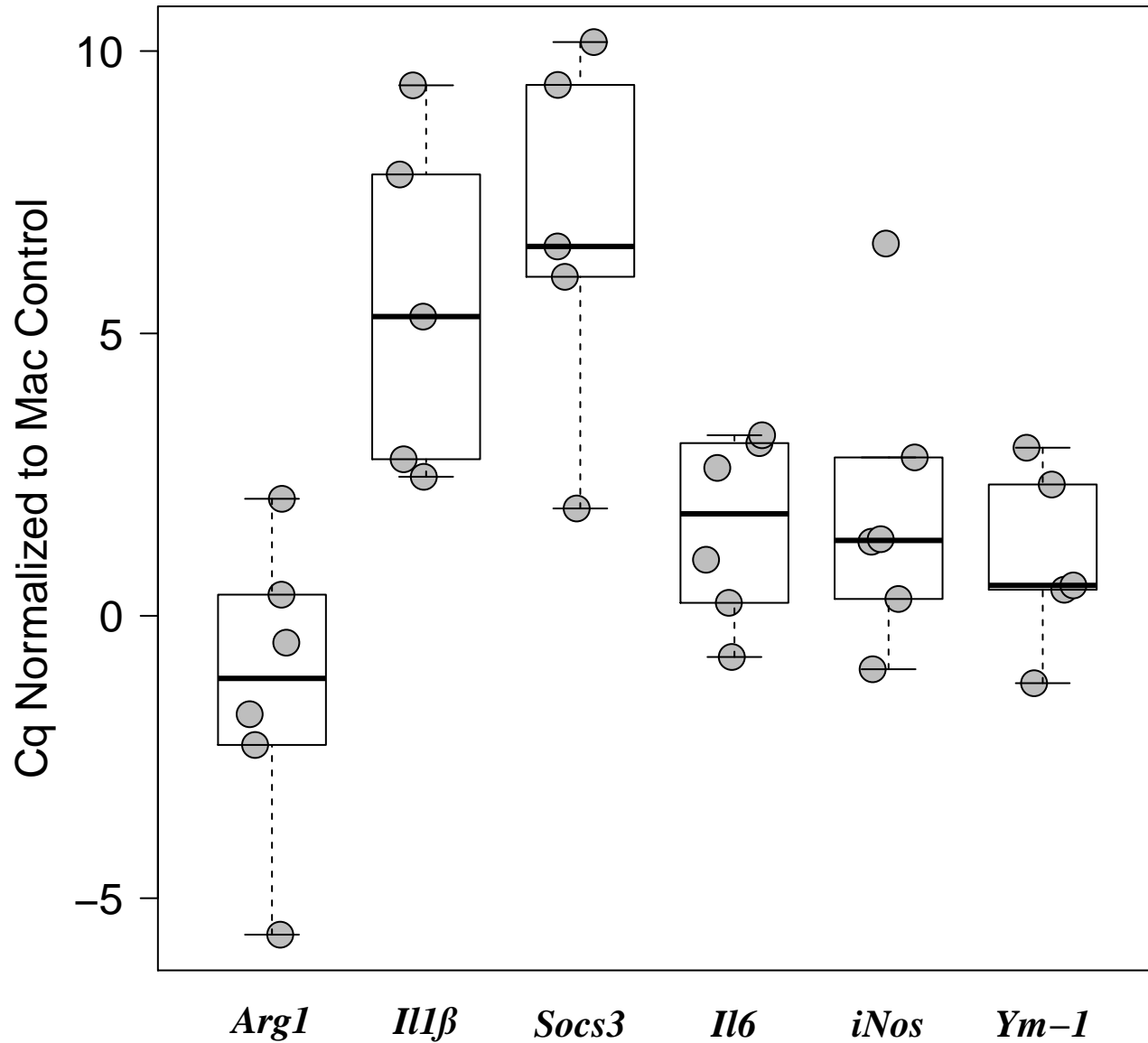


HCC193 (Arg1 SD = 2.4)

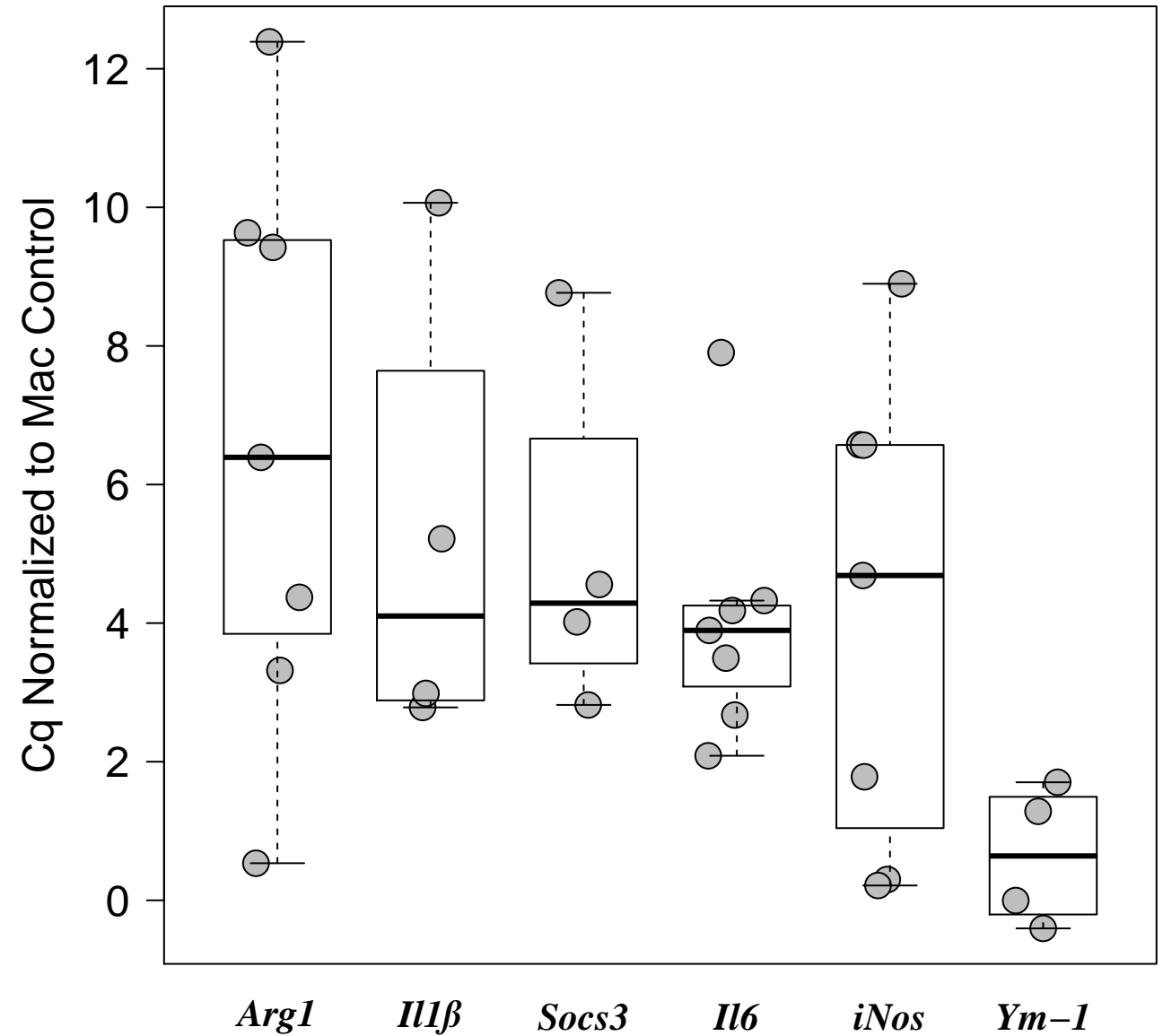
HCC2108 (Arg1 SD = 1.8)



HCC2374 (Arg1 SD = 2.6)

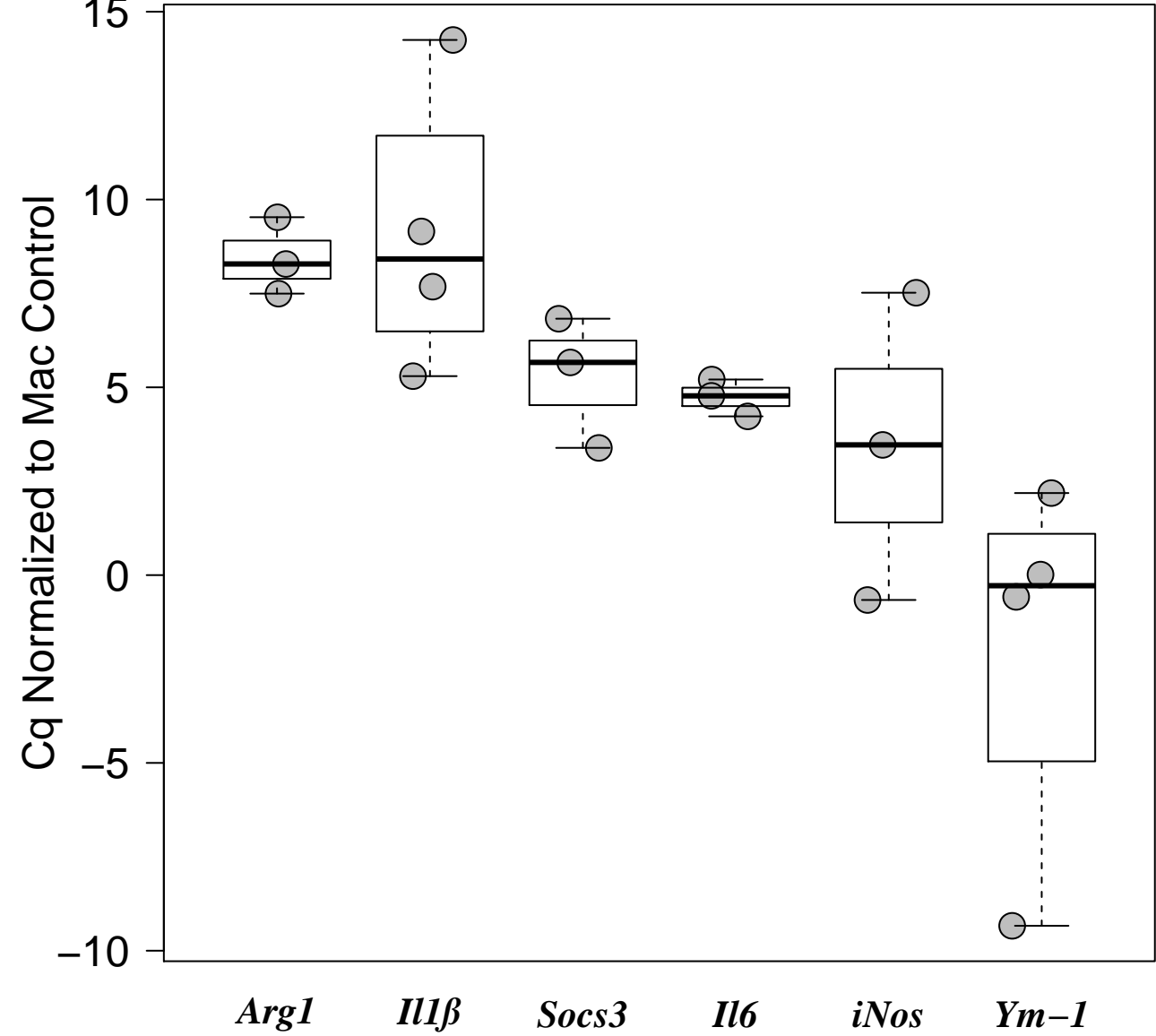
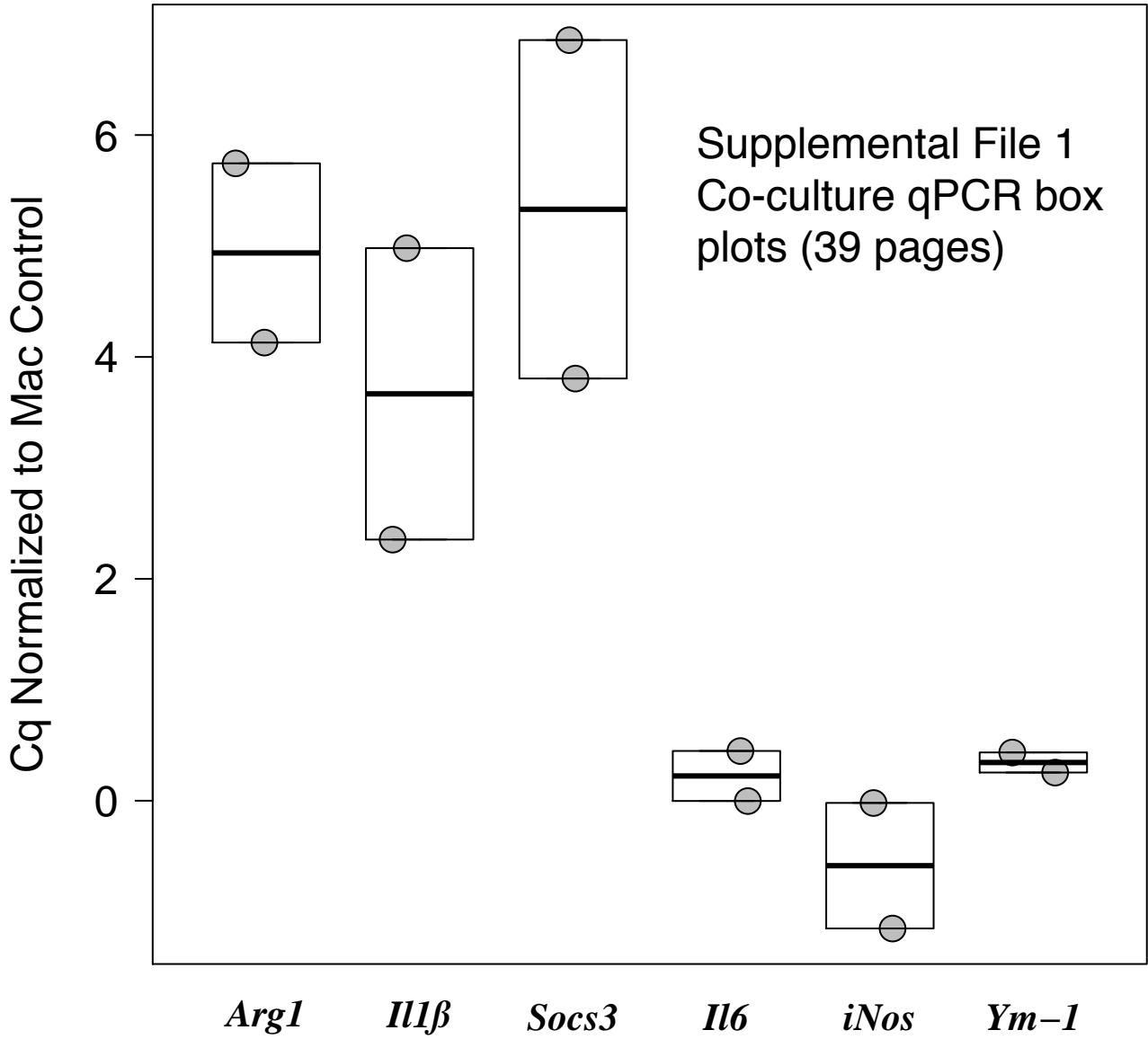


HCC2450 (Arg1 SD = 4.1)



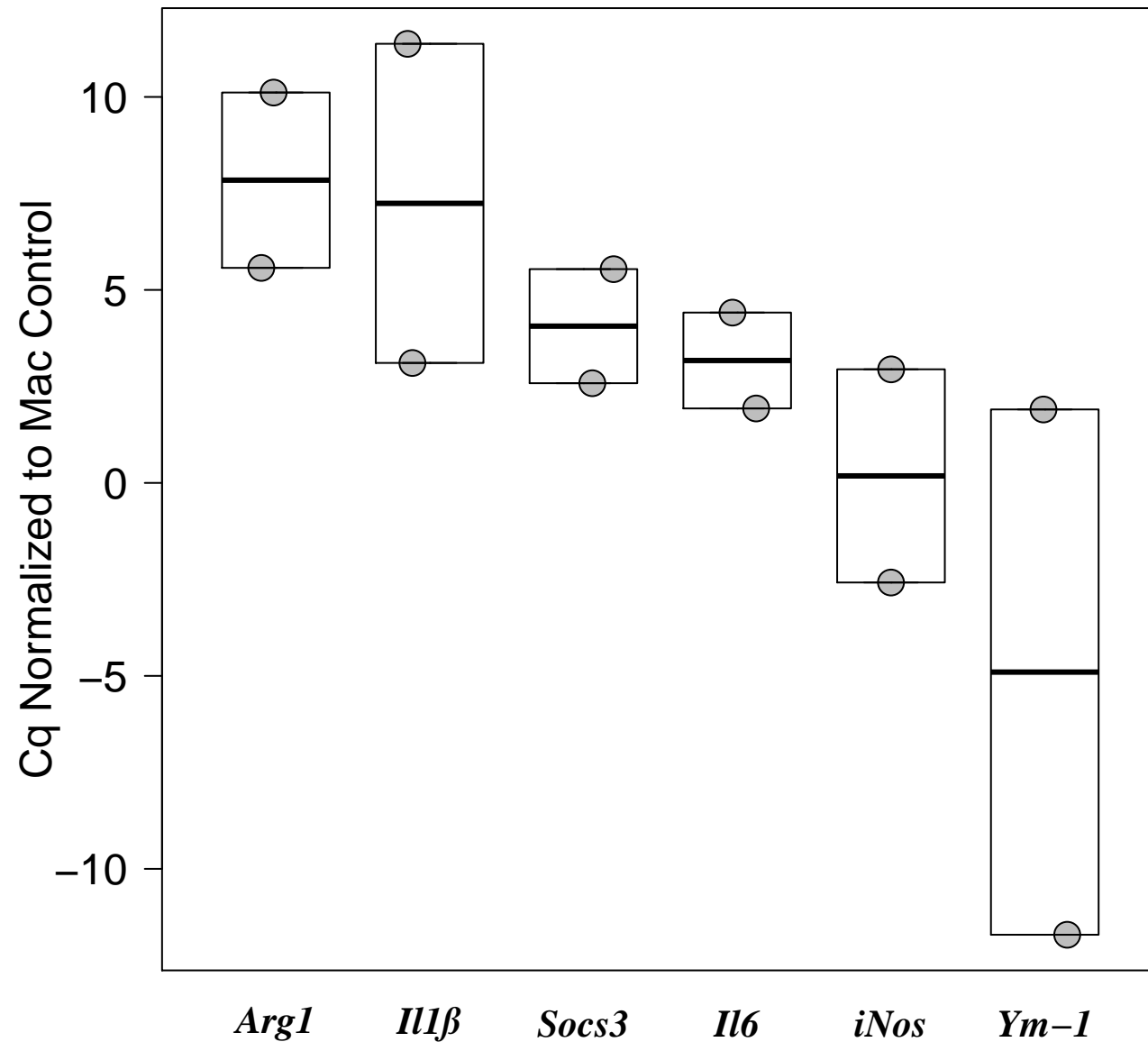
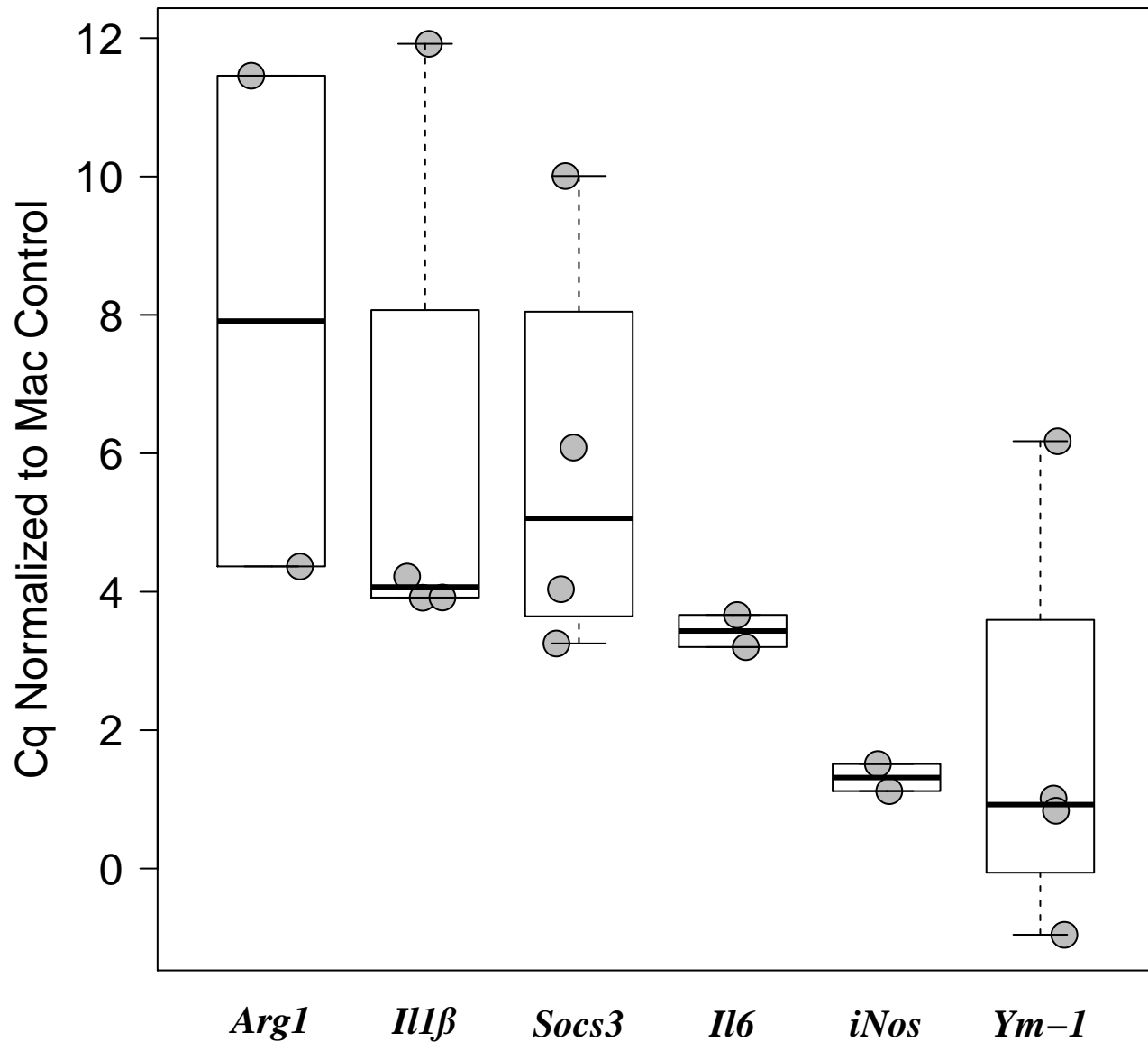
HCC2935 (Arg1 SD = 1.1)

HCC3051 (Arg1 SD = 1)



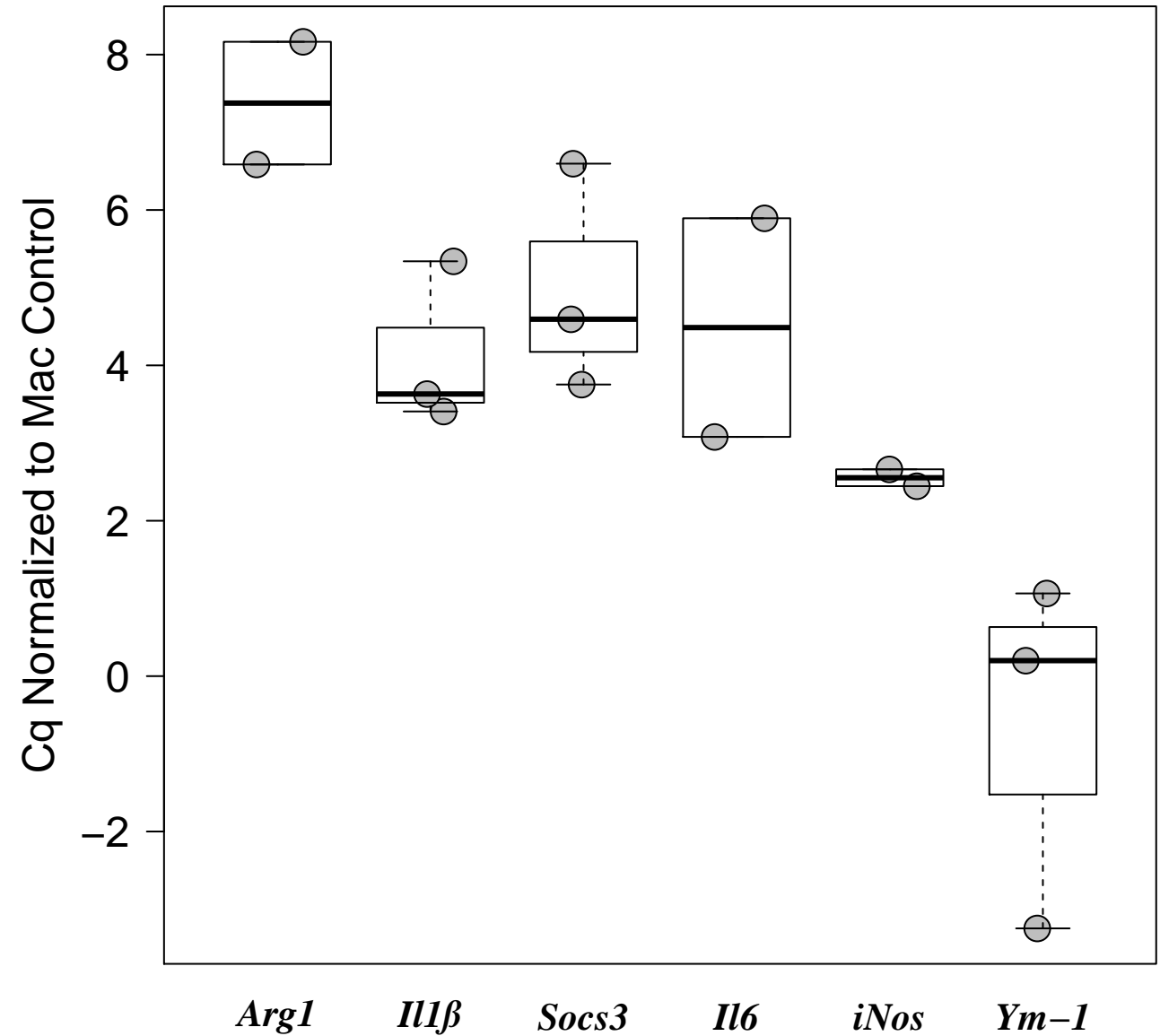
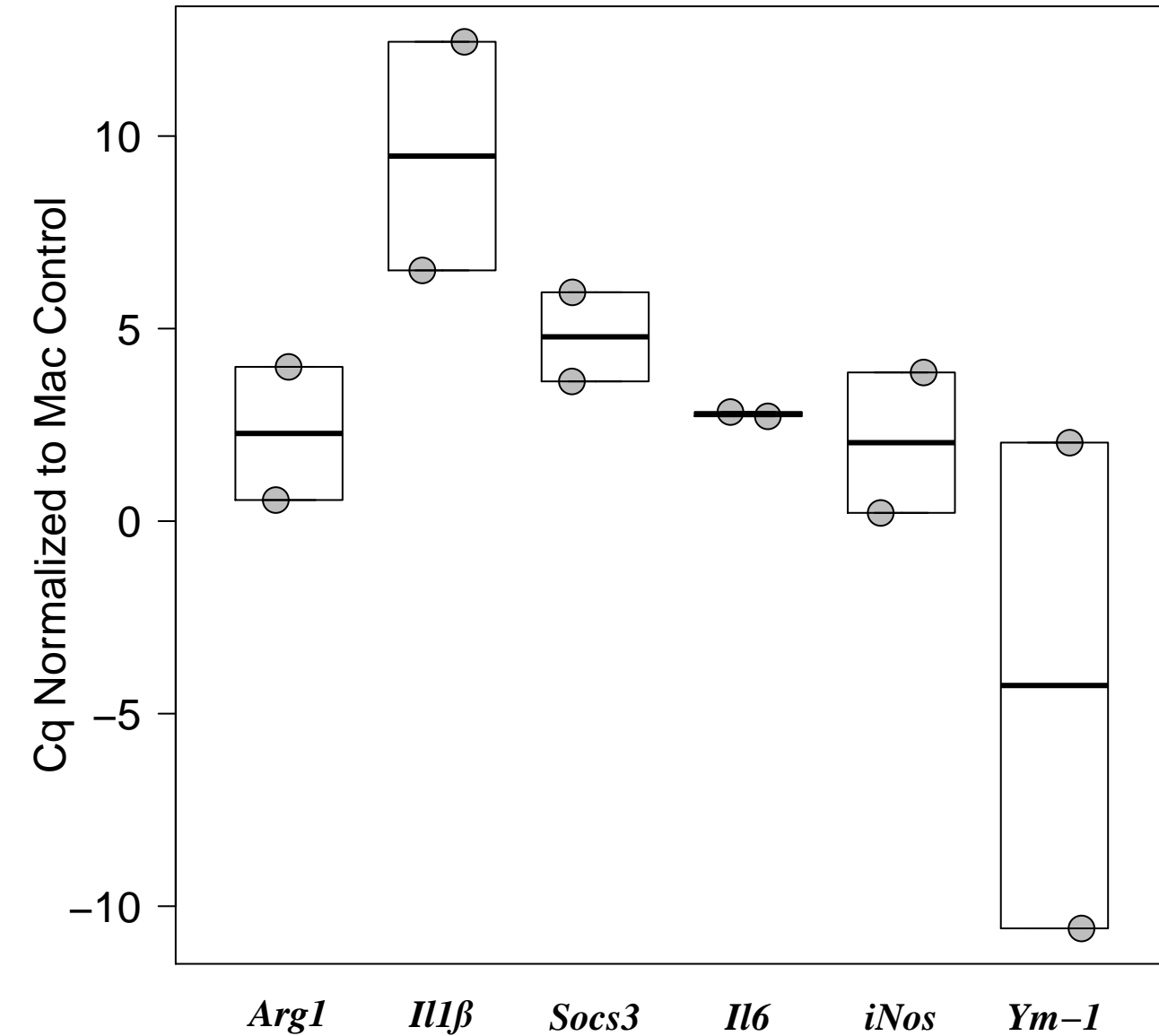
HCC4019 (Arg1 SD = 5)

HCC4054 (Arg1 SD = 3.2)



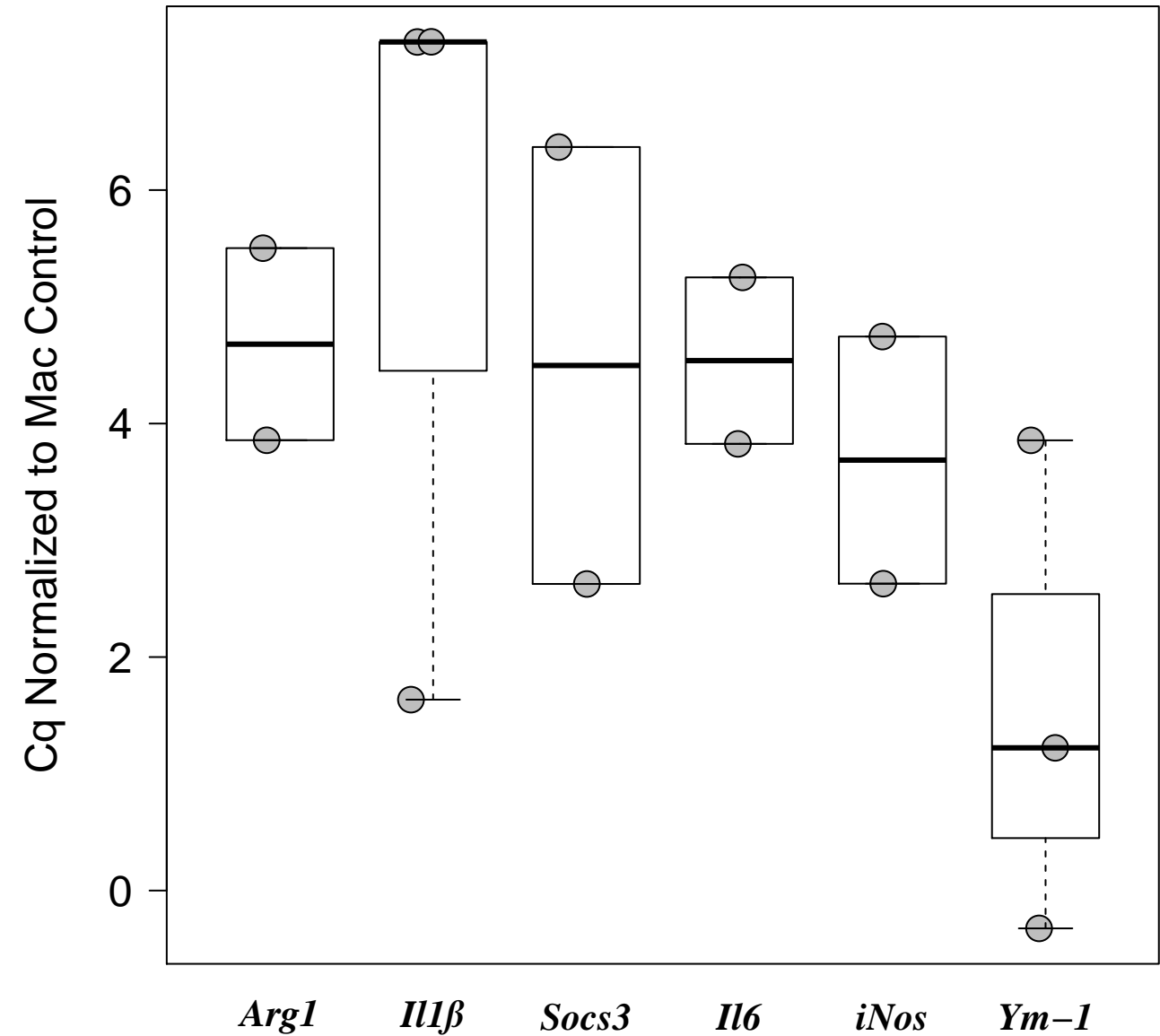
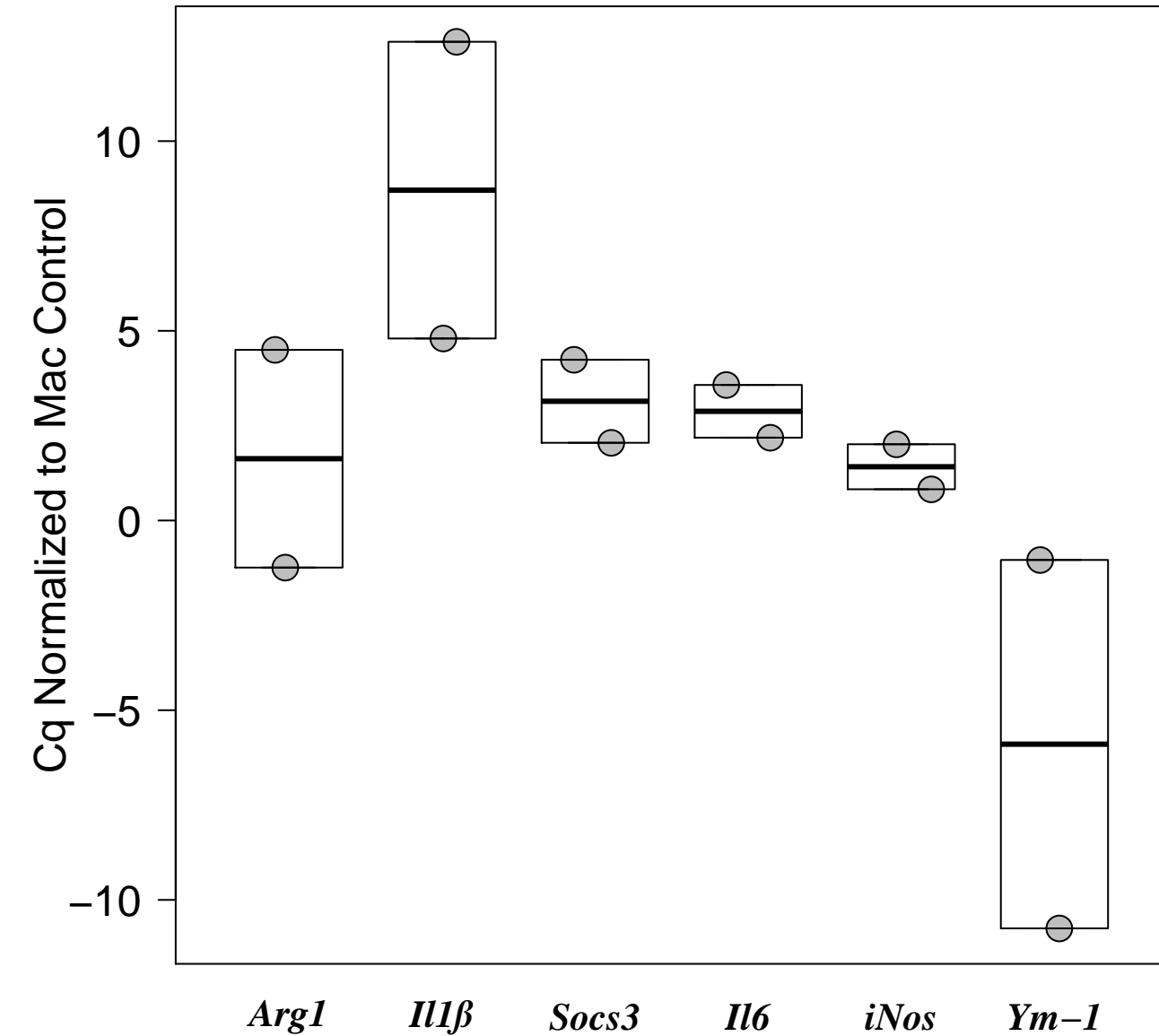
HCC4087 (Arg1 SD = 2.4)

HCC44 (Arg1 SD = 1.1)

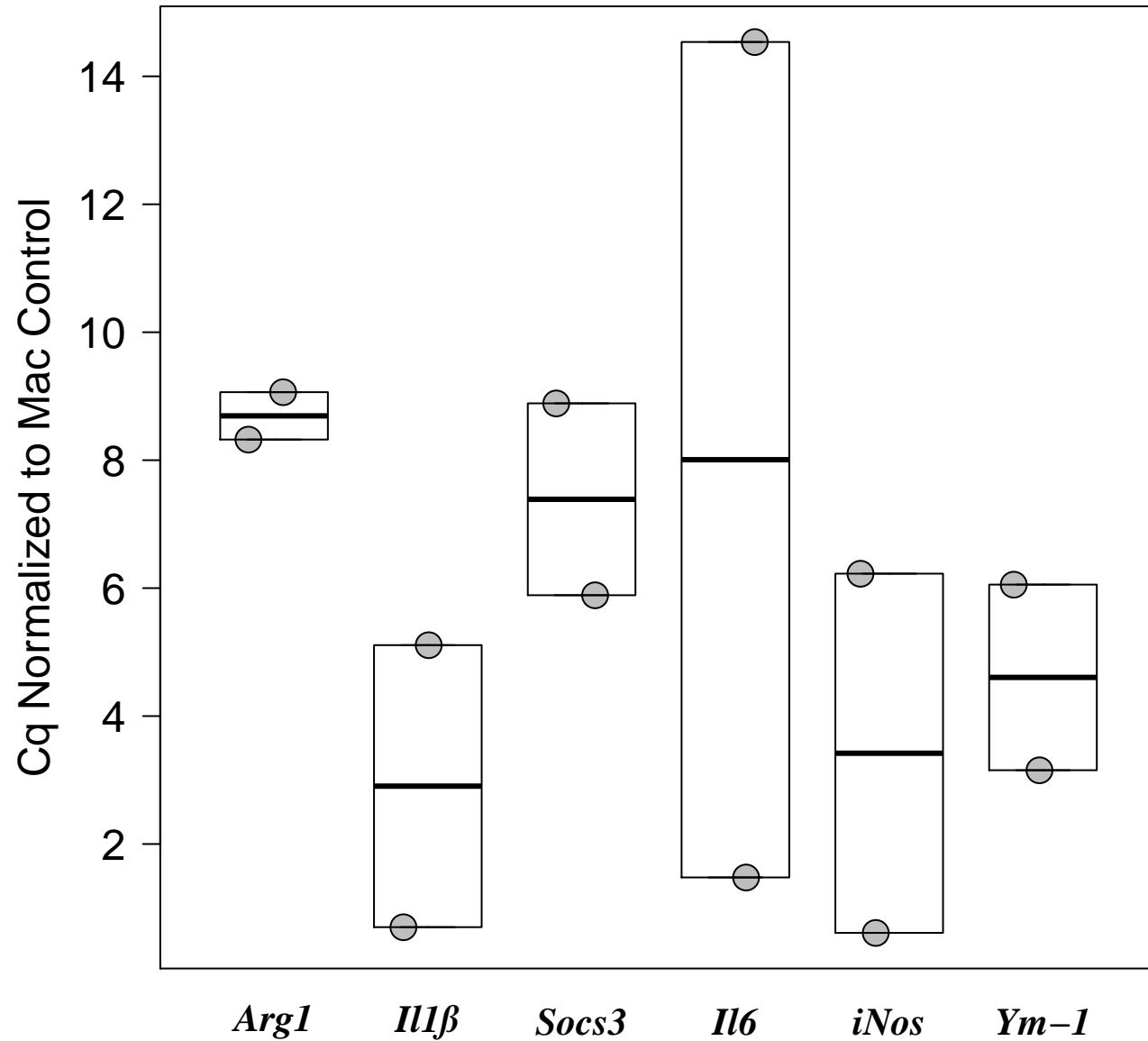


HCC446 (Arg1 SD = 4.1)

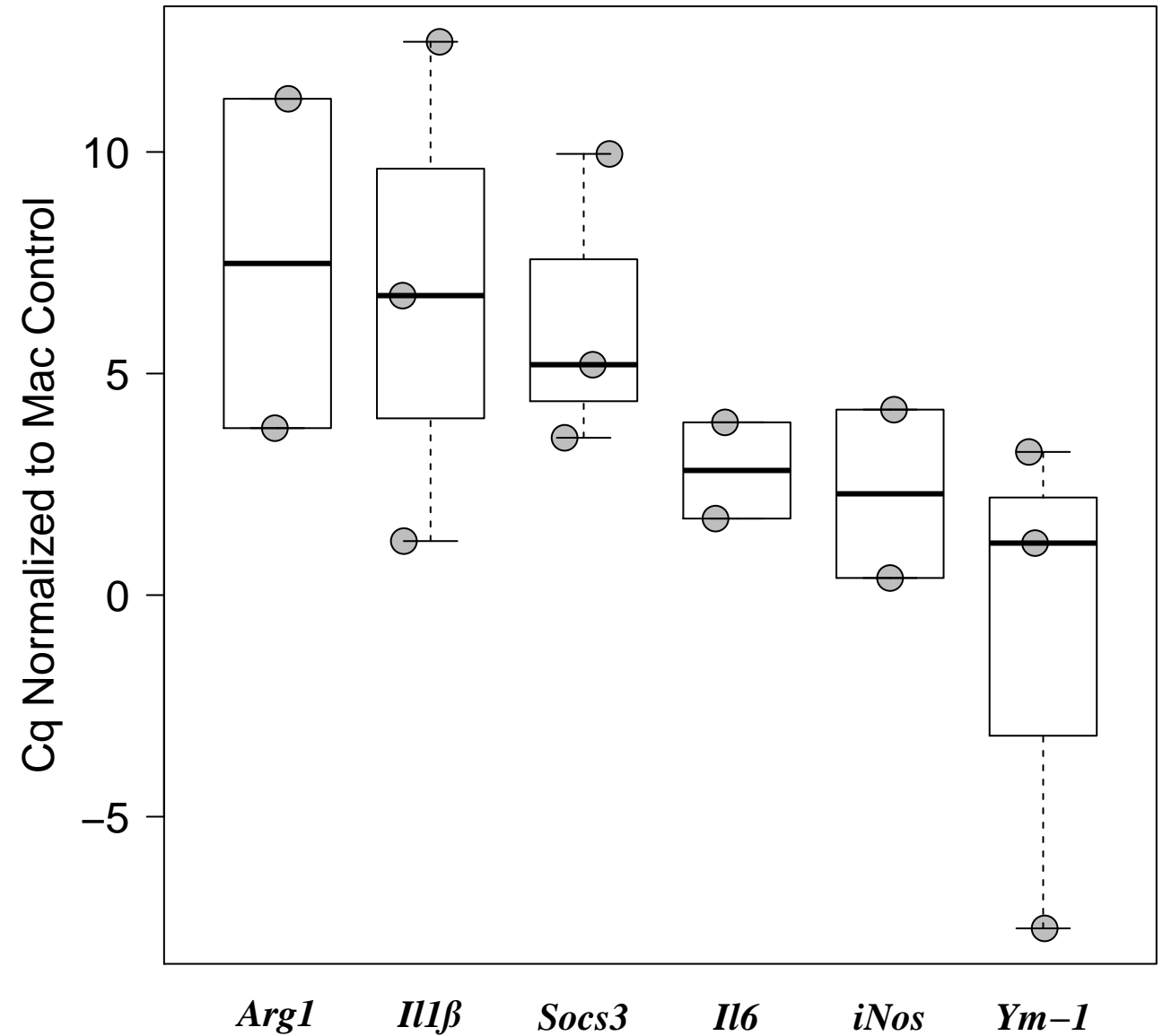
HCC461 (Arg1 SD = 1.2)



HCC515 (Arg1 SD = 0.5)

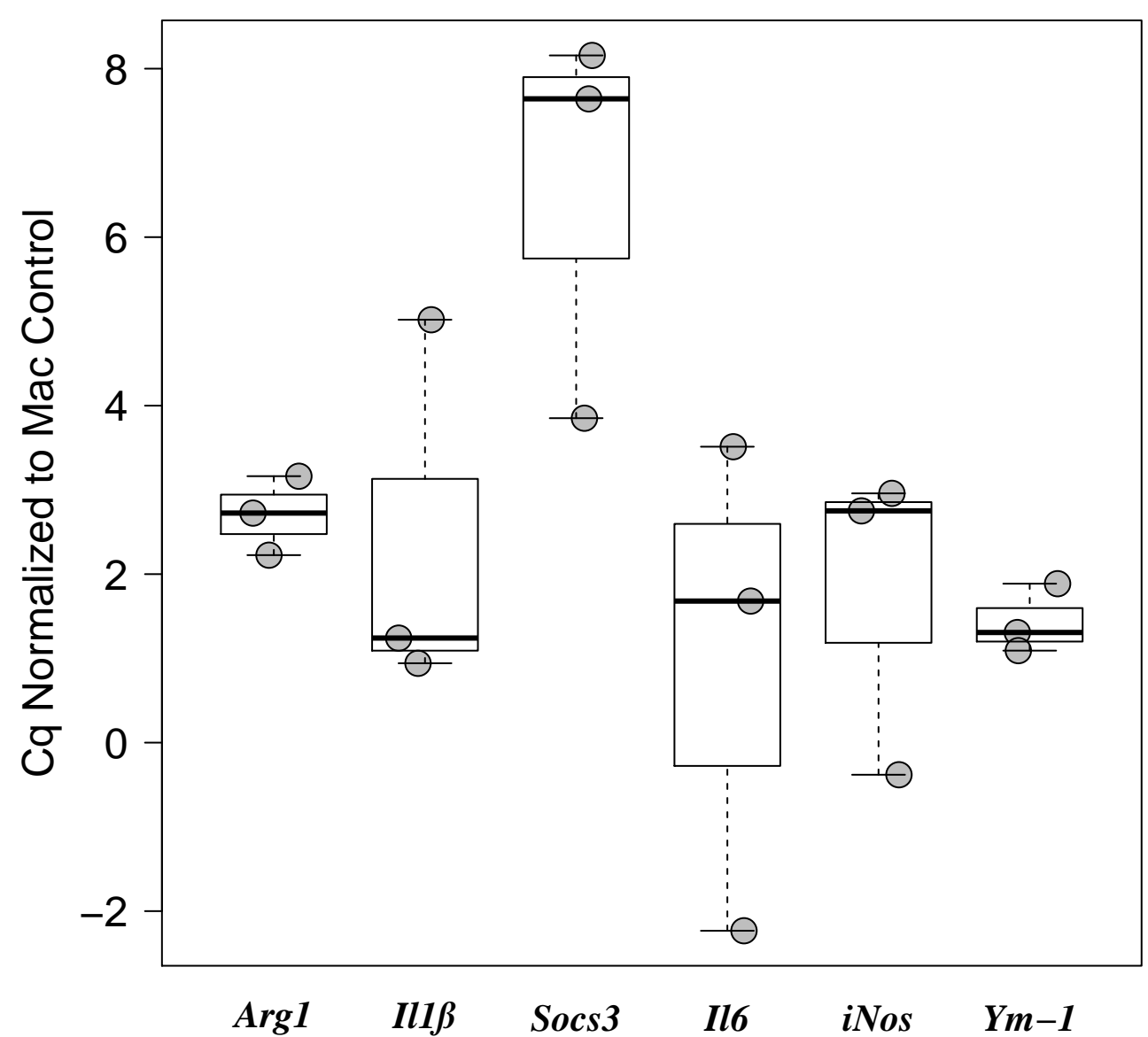
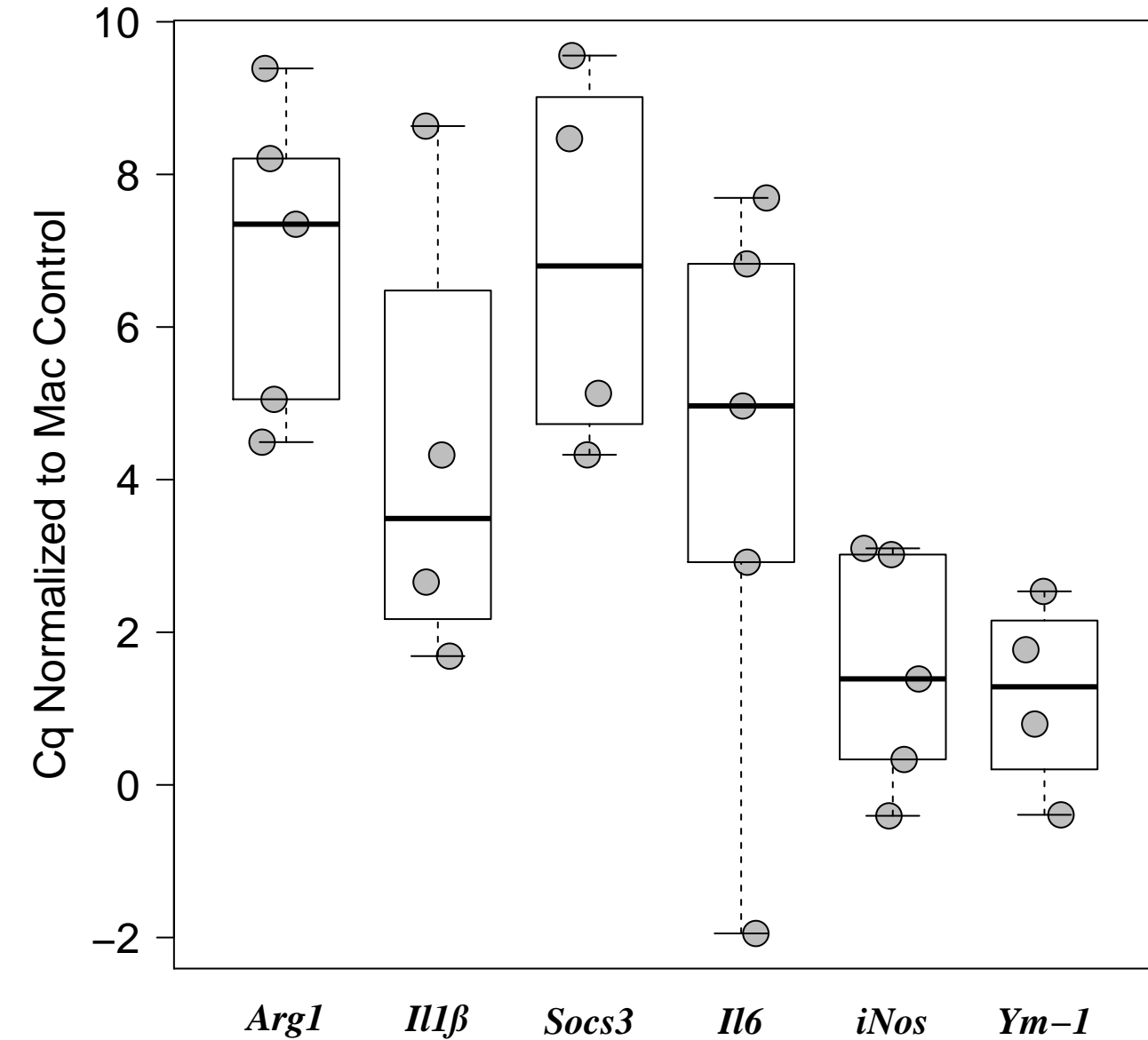


HCC78 (Arg1 SD = 5.3)



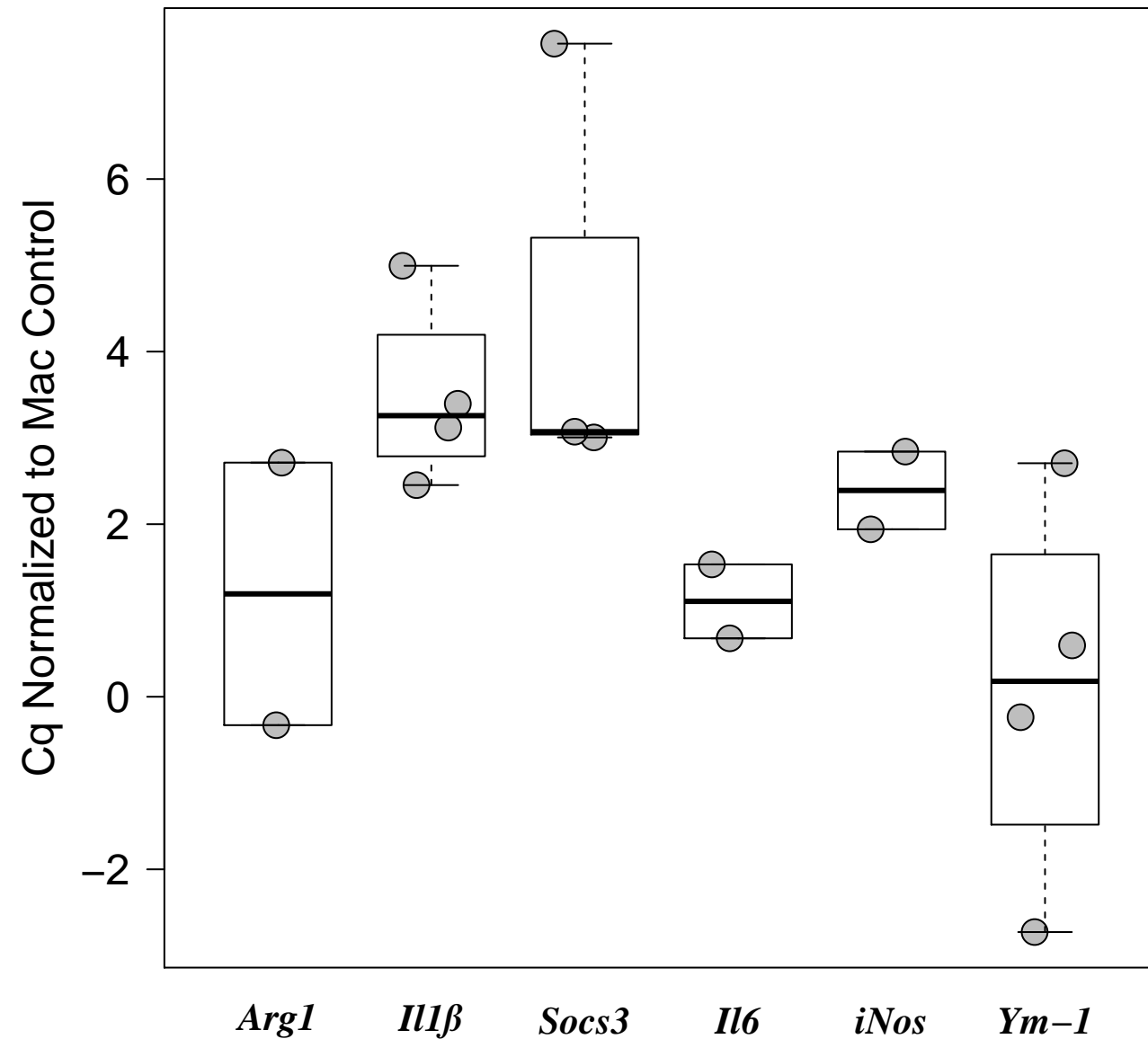
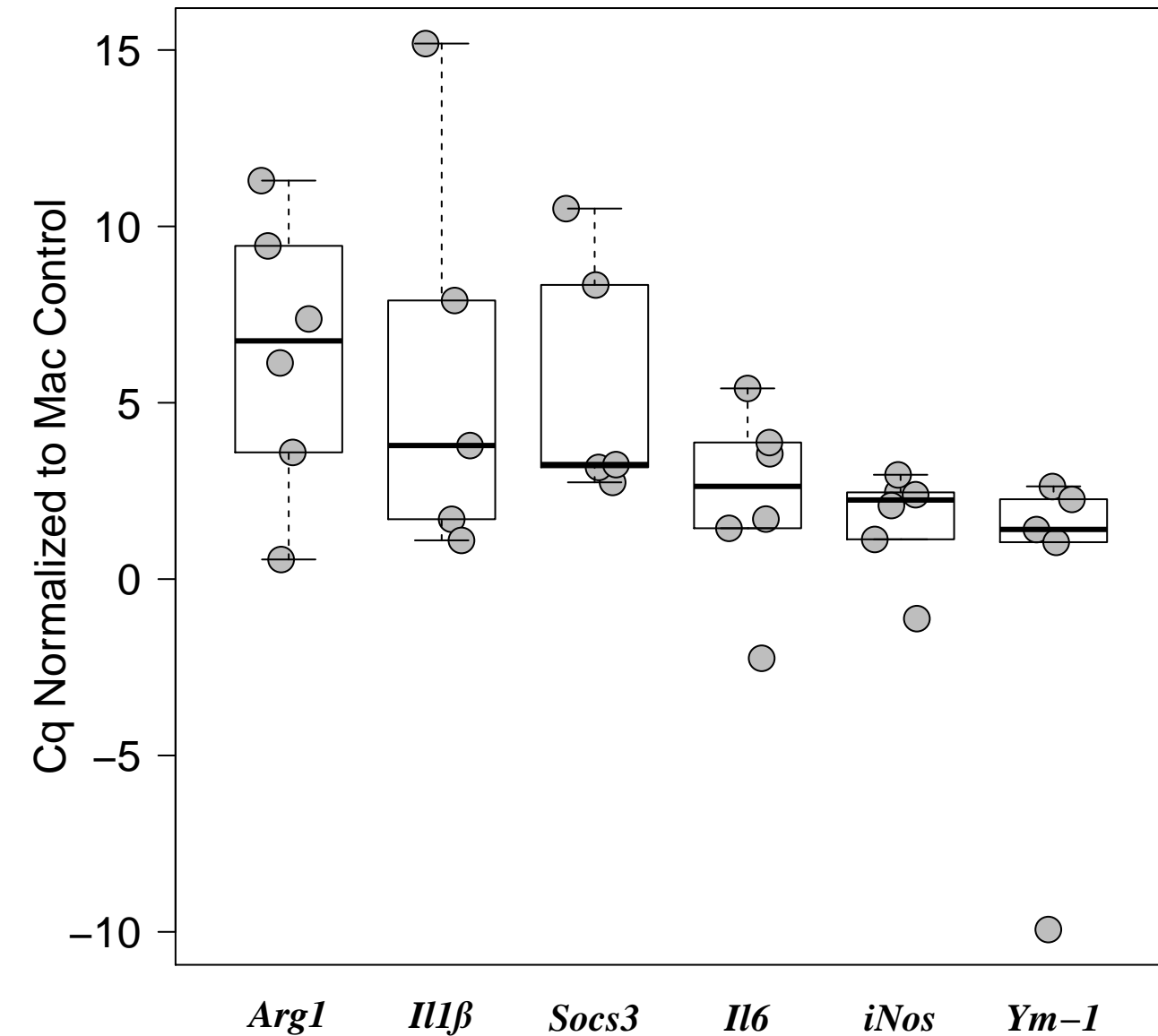
HCC827 (Arg1 SD = 2.1)

HCC95 (Arg1 SD = 0.5)



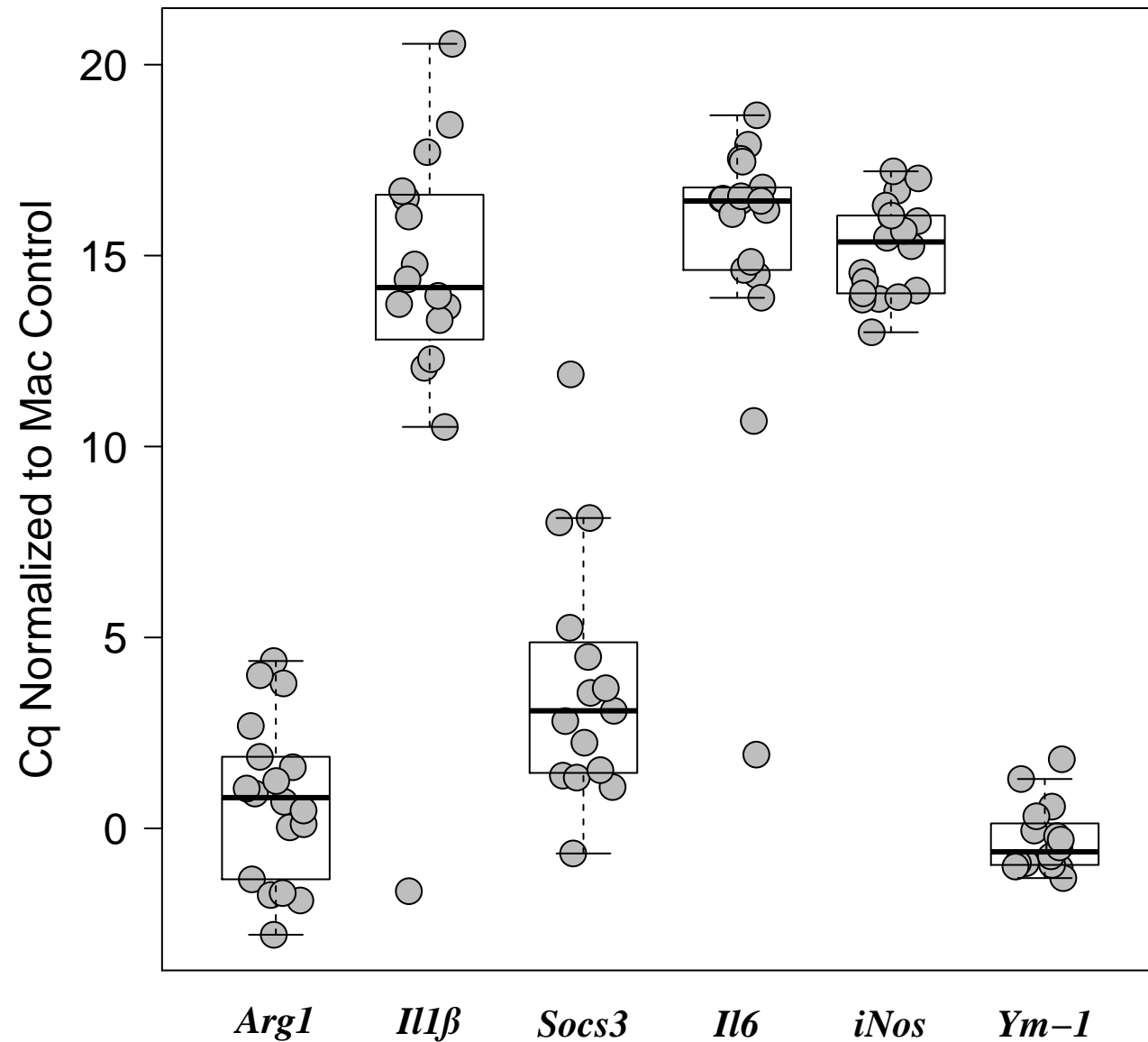
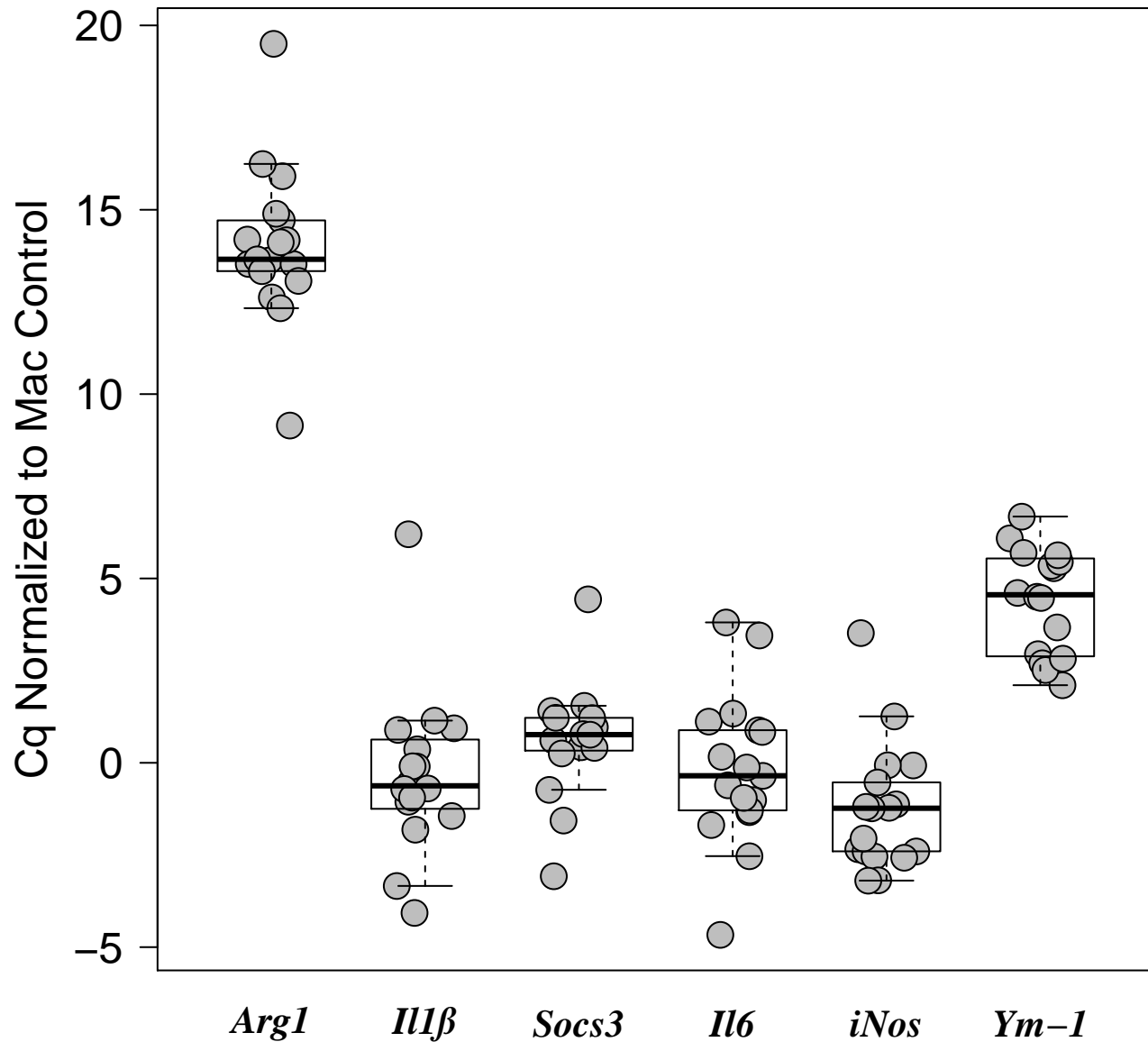
HOP-62 (Arg1 SD = 3.9)

Mac + CAF (Arg1 SD = 2.2)



Mac + IL-4 (Arg1 SD = 2.1)

Mac + LPS (Arg1 SD = 2.1)



Supplemental File 2-Co-culture qPCR Rcode.R

```
options(stringsAsFactors=F)
setwd("./Data")

dat <- read.delim("2- Co-culture qPCR raw data.txt", check.names=F)
platesort <- unique(dat[, c("Plate", "Plate_Sort")])
platesort <- platesort[order(platesort[, 2]), ]
unique(dat$Target)
sort(unique(dat$Sample))

#Exclusions
dat <- dat[!dat$Group %in% c(22,26,28,29), ]

#calculate mean and sd of technical replicates (each plate separately)
#exclude Cq values = 40 when other values are present in the mean calculation
dat.avg <- aggregate(dat$Cq, dat[c("Group", "Plate", "Target", "Sample")],
  function(d) {
    m <- mean(d[d != 40]); u <- sd(d[d != 40]); n <- length(d[d != 40])
    if (all(d == 40)) {m <- mean(d); u <- sd(d); n <- length(d)}
    cv <- (u * 100)/m
    c(m, u ,n, cv)
  }
)
n <- ncol(dat.avg)-1
dat.avg <- cbind(dat.avg[1:n], do.call(data.frame,dat.avg[n+1]))
dim(dat.avg)
colnames(dat.avg)[(n+1):(n+4)] <- c("Mean", "SD", "n", "CV")
dat.avg <- dat.avg[order(match(dat.avg$Plate, platesort[, 1]), dat.avg$Sample), ]

#Exclude data when actin Cq values are large
```


Supplemental File 2-Co-culture qPCR Rcode.R

```
dat.avg.act <- dat.avg[dat.avg$Target == "Actin", ]
cut.dat.25 <- dat.avg.act[dat.avg.act$Mean >= 25, ]

#subtract Actin

dat.act <- dat.avg[dat.avg$Target == "Actin", 1:(n+1)]
dat.act2 <- merge(dat.avg[, 1:(n+1)], dat.act, by=c("Group", "Plate", "Sample"), all.x=T)
dat.act2 <- dat.act2[order(dat.act2$Group, match(dat.act2$Plate, platesort[, 1]),
  dat.act2$Sample, dat.act2$Target.x), ]
dat.act2$Mean.x <- dat.act2$Mean.x - dat.act2$Mean.y
dat.act2 <- dat.act2[dat.act2$Target.x != "Actin", 1:(n+1)]
colnames(dat.act2)[n:(n+1)] <- c("Target", "Mean")
dat.act2 <- dat.act2[!is.na(dat.act2$Mean), ]

#Remove Actin >=25
dat.act2.25 <- dat.act2[!paste(dat.act2$Group, dat.act2$Plate, dat.act2$Sample, sep="_")
  %in% paste(cut.dat.25$Group, cut.dat.25$Plate, cut.dat.25$Sample, sep="_"), ]
dat.act2 <- dat.act2.25

#take the median of duplicates within groups

dat.act3 <- aggregate(dat.act2$Mean, dat.act2[c("Group", "Target", "Sample")], median, na.rm=T)
colnames(dat.act3)[4] <- "Median"
dat.act3 <- dat.act3[order(dat.act3$Group, dat.act3$Sample, dat.act3$Target), ]

#subtract Mac control
dat.mac <- dat.act3[dat.act3$Sample == "Mac",]
dat.mac2 <- merge(dat.act3, dat.mac, by=c("Group", "Target"), all.x=T)
dat.mac2 <- dat.mac2[order(dat.mac2$Group, dat.mac2$Sample.x, dat.mac2$Target), ]
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
dat.mac2$Median.x <- dat.mac2$Median.x - dat.mac2$Median.y
dat.mac3 <- dat.mac2[dat.mac2$Sample.x != "Mac", 1:4]
colnames(dat.mac3)[3:4] <- c("Sample", "Median")
dat.mac3 <- dat.mac3[!is.na(dat.mac3$Median), ]
any(is.na(dat.mac3$Median))

##### Box plots

allsamples <- sort(unique(dat.mac3$Sample))
alltargets <- unique(dat.mac3$Target)[c(1,2,5,3,4,6)]
ngroup <- length(unique(dat.mac3$Group))
ngroup

#Keep only samples with at least 2 replicates in each of the 3 main markers (Arg1, Il1b, and Socs3)

Excludesamples <- function(thisdat) {
  allsamples <- sort(allsamples)
  countrep <- aggregate(thisdat$Target, thisdat[c("Target", "Sample")], length)
  colnames(countrep)[3] <- "count"

  attach(countrep)
  test1 <- Sample[Target %in% c("Arg1", "Il1b", "Socs3") & count >= 2]
  detach(countrep)
  test1b <- table(test1)

  keepsamples <<- rownames(test1b)[test1b == 3]
  allsamples <<- c(keepsamples, setdiff(allsamples, keepsamples)) #excluded samples will be at the end
}

Excludesamples(dat.mac3)
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
library(greekLetters)

boxplots <- function(thisdat, title) {
  pdf(file=paste("4- ", title, ".pdf", sep=""), width=14, height=7)
  par(mfrow=c(1,2), mar=c(4,5,3,1) + 0.1)
  set.seed(1234)
  res <- list()
  for (k in 1:length(keepsamples)) {
    x <- thisdat[thisdat$Sample == allsamples[k], ]
    y <- split(x, x$Target)
    y <- y[alltargets[!is.na(match(alltargets, names(y)))]]
    yval <- lapply(y, function(d) -d$Median[!is.na(d$Median)])
    ygroup <- lapply(y, function(d) d$Group[!is.na(d$Median)])
    yleg <- sort(unique(unlist(ygroup)))
    ylim <- c(min(sapply(yval, min)), max(sapply(yval, max)))
    ybase <- ylim[1] - 0.1*(ylim[2]-ylim[1])

    stripchart(yval[[1]], at=1, ylab="", main="", cex.axis=1.5,
      bg="gray", method="jitter", jitter=0.2, vertical=T,
      pch=21, cex=2, xlim=c(0.5, 6.5), ylim=ylim, las=1, cex.main=1.2, xaxt="n")
    for (j in 2:length(yval)) {
      stripchart(yval[[j]], at=j, ylab="", main="", cex.axis=1.5,
        bg="gray", method="jitter", jitter=0.2, vertical=T,
        pch=21, cex=2, xlim=c(0.5, 6.5), ylim=ylim, las=1, cex.main=1.2, xaxt="n", add=T)
    }
    boxplot(yval, axes=F, add=T, outline=F, boxwex=0.7)
    text(1:length(yval), ybase, sub("b", greek$beta, names(yval)),
      cex=1.3, xpd=NA, font=4, family="serif")
    mtext(side=2, paste("Cq Normalized to Mac Control"), line=3, cex=1.5)
  }
}
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
arg.median <- median(yval[[1]])
arg.mean <- mean(yval[[1]])
arg.sd <- sd(yval[[1]])
title(paste(allsamples[k], " (Arg1 SD = ", round(arg.sd, 1), ")", sep=""))
res[[k]] <- c(arg.median, arg.mean, arg.sd)
names(res)[k] <- allsamples[k]
}
dev.off()

res2 <- do.call(rbind, res)
colnames(res2) <- c("Median", "Mean", "SD")
write.table(res2, paste("5- ", title, " - arginase summary.txt", sep=""),
  row.names=T, col.names=NA, sep='\t', na="")

res2
}

arg <- boxplots(dat.mac3, "Co-culture qPCR box plots")

#log fold change
dat.mac3ex <- dat.mac3[dat.mac3$Sample %in% keepsamples, ]
dat.mac3ex[, "FC"] <- 2 ^ - dat.mac3ex$Median
dat.mac3ex <- dat.mac3ex[order(dat.mac3ex$Sample, dat.mac3ex$Target), ]
write.table(dat.mac3ex, file="3- Co-culture qPCR processed data.txt", row.names=F, sep='\t', na="")

#Summarize for Heat map
dat.hm <- aggregate(dat.mac3ex$Median, dat.mac3ex[c("Target", "Sample")], function(d) -mean(d))
colnames(dat.hm)[3] <- "Mean"
write.table(dat.hm, file="7- Co-culture qPCR processed data for heatmap.txt", row.names=F, sep='\t')
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
#### Reproducibility test for Arginase
dat.arg <- dat.mac3ex[dat.mac3ex$Target == "Arg1", ]
dat.arg.mean <- aggregate(dat.arg$Median, dat.arg["Sample"], function(d) abs(mean(d)))
dat.arg.sd <- aggregate(dat.arg$Median, dat.arg["Sample"], function(d) sd(d))
dat.arg.mean.sorted <- dat.arg.mean[order(dat.arg.mean$x), ]
dat.arg.sd.sorted <- dat.arg.sd[match(dat.arg.mean.sorted[, 1], dat.arg.sd[, 1]), ]

pdf(file="6- Arginase reproducibility.pdf", width=10, height=7)
par(mar=c(4, 5, 2, 1) + 0.1)
bp <- barplot(height=dat.arg.mean.sorted[, 2], col="gray", axes=F, xaxt="n", space=0.4, cex.lab=1.5)
text(x=bp, y=rep(-1.6, length(bp)), labels=dat.arg.mean.sorted[, 1],
     srt=90, cex=0.7, xpd=T, adj=0, font=2)
axis(side=2, at=seq(0, 12, by=1), cex.axis=1.2, las=1)
mtext(side=2, "Log Abs(Mean) of Arginase", line=3, cex=1.6, font=2)
points(x=bp, y=dat.arg.sd.sorted[, 2], pch=16, col="red")
segy <- sd(dat.arg.mean.sorted[, 2])
segments(x0=bp[1], y0=segy, x1=bp[length(bp)]+0.3, y1=segy, lty=2, lwd=3, col="darkgreen")
text(x=bp[length(bp)]-21, y=segy+0.4, labels="SD of Means", cex=1.5, adj=0, font=2, col="darkgreen")
segy <- mean(dat.arg.sd.sorted[, 2])
segments(x0=bp[1], y0=segy, x1=bp[length(bp)]+0.3, y1=segy, lty=2, lwd=3, col="blue")
text(x=bp[length(bp)]-21, y=segy-0.4, labels="Mean of SDs", cex=1.5, adj=0, font=2, col="blue")
text(3, 5.3, "SD of Biol. Replicates", col="red", adj=0, font=2, cex=1.5)
text(bp[50], dat.arg.mean.sorted[50, 2]+1.5, "Mean of Biol. Replicates",
     col="black", pos=3, font=2, cex=1.5)
invisible(dev.off())

#### heatmap

#reshape dataframe to 2x2 matrix
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
library(reshape2)
dat <- acast(dat.hm, Target ~ Sample, value.var= "Mean")
ind <- !grepl("Mac", colnames(dat))
dat <- dat[, ind]
arg <- arg[ind, ]

arg <- as.data.frame(arg)
all(rownames(arg) == colnames(dat))
arg[, 4] <- round(arg[, 3] * 100 / abs(arg[, 2]))
colnames(arg)[4] <- "CV"
arg <- arg[order(arg$Mean), ]
dat <- dat[c("Ym-1", "Il6", "iNos", "Socs3", "Il1b", "Arg1"), rownames(arg)]
rownames(dat)[5] <- paste("Il1", greeks("beta"), sep="")
cvcode <- round(arg[, 4]/10)
cvcode[cvcode < 1] <- 1
cvcode[cvcode > 10] <- 10

m <- nrow(dat)
n <- ncol(dat)

#Color cutoffs are set at log values of 1, 35, 75, 350
dat2 <- dat
dat2[dat < 0] <- 1
dat2[dat > 0 & dat < 5.13] <- 2
dat2[dat > 5.13 & dat < 6.23] <- 3
dat2[dat > 6.23 & dat < 8.45] <- 4
dat2[dat > 8.45] <- 5

colramp = colorRampPalette(c("white", "skyblue1", "black"))
colramp2 = colorRampPalette(c("white", "green", "darkgreen"))
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
mypal <- colramp(5)

pdf(file="8- Co-culture qPCR heatmap with CV.pdf", width=16, height=7)
layout(matrix(c(1,2,3), ncol=1), widths=c(10), heights=c(2, 6, 2))

par(mar=c(0, 7, 8, 1) + 0.1)
plot(c(0, 100), c(0, 100), type="n", xlab="", ylab="", axes=F, xaxs="i", yaxs="i")
for (i in 1:n) {
  rect((i-1)*100/n, 5, i*100/n, 100, col=colramp2(10)[cvcode[i]], border="gray")
}
text((1:n)*100/n-50/n, 120, colnames(dat), cex=1.5, srt=90, adj=0, xpd=T, font=2)

par(mar = c(1,7,0.5,1) + 0.1)
image(1:n, 1:m, t(dat2), col=mypal, breaks=0:5, xaxt="n", yaxt="n", ann=F)
box()
abline(h=1.5:5.5, col="gray")
abline(v=1.5:(n+0.5), col="gray")
text(-4, 1:6, rownames(dat2), cex=2.5, adj=0, xpd=T, font=4, family="serif")

par(mar=c(0, 0, 0, 0) + 0.1, cex = 0.6)
plot(c(0, 100), c(0, 100), type="n", xlab="", ylab="", axes=F, xaxs="i", yaxs="i")

for (i in 1:11) {
  rect(30+2*i, 85, 32+2*i, 60, col=colramp2(11)[i], border="gray")
}
text(c(33, 53), 40, c("0", "100%"), cex=2.5, font=2)
text(43, 20, "Arg1 Coefficient of Variation", cex=2.5, adj=0.5, xpd=T, font=2)

for (i in 1:5) {
  rect(70+2*i, 85, 72+2*i, 60, col=mypal[i], border="gray")
}
```

Supplemental File 2-Co-culture qPCR Rcode.R

```
}  
text(c(73, 81), 43, c("<1", ">350"), cex=2.5, font=2)  
text(77, 20, "Fold Change Relative to Mac Control", cex=2.5, adj=0.5, xpd=T, font=2)  
  
invisible(dev.off())
```


Supplemental File 3-Co-Culture qPCR raw data Placeholder – 529 pages
Available on request.

Supplemental File 4-Co-Culture qPCR processed data-Placeholder – 70 pages
Available on request.

Supplemental File 5-Co-Culture qPCR box plots - arginase summary

"ID"	"Median"	"Mean"	"SD"
"A427"	7.872789135	8.56627463095833	2.45119501384872
"A549"	4.886503715	5.21298682833333	1.19939467479752
"Calu-1"	3.49788512375	3.16262748055555	1.29139573043685
"Calu-6"	2.633613715	2.3752021545	2.45576493251576
"DFCI024"	5.582391242125	5.582391242125	2.54956692658189
"EKVX"	6.2387723025	6.03848881235	2.09912605498238
"H1048"	2.20833099625	1.42785375861111	2.74226254019325
"H1299"	3.44834878499999	3.77578676666666	2.20902302091859
"H1355"	5.115999635	6.25120034635	3.49777973173253
"H1373"	5.7075136725	6.37826186583333	2.41035598780324
"H1395"	2.48663845125	2.25807187614583	2.85357501173156
"H1437"	4.536259365	5.8860000725	2.90961948646014
"H1563"	3.144429715	4.18321377027083	3.5846481727016
"H157"	3.23290257375	2.1710168715625	2.96320595704421
"H1573"	4.56610006625	4.56610006625	0.495023485933245
"H1650"	7.0945924425	7.0945924425	0.459173538054847
"H1666"	10.97141306	11.4274323097083	2.11214711055182
"H1693"	10.728688459625	10.6980849610625	1.38003623932787
"H1703"	9.0506685875	8.14606031666666	1.85827007927516
"H1734"	2.60586107375	1.794655868125	3.34069174985659
"H1755"	1.6670369025	0.523471822683333	3.13355950465237
"H1792"	4.8991783475	5.145803737375	2.96551099374988
"H1819"	4.74208874675	3.7353272279881	3.30957624838524
"H1944"	5.707236865	6.09656498391667	2.67031257497363
"H1975"	3.0672239375	2.984522694	2.85796222607278
"H1993"	6.2313928575	5.35797124897222	2.39705323703586
"H2009"	7.48462348675	7.01884221225	1.66659535221469
"H2030"	6.46715898	5.89510325416667	2.52417590619509

Supplemental File 5-Co-Culture qPCR box plots - arginase summary

"H2073"	4.07711723666667	2.71164720607407	3.17939517540231
"H2085"	5.20939328125	5.02457658279167	1.04859396951254
"H2086"	-1.57802590958333	-1.57802590958333	4.89895111565822
"H2087"	1.11658361925	0.436961393916665	3.63407805584586
"H2122"	9.85450655	8.80192929285	2.63847216137301
"H2172"	0.0660195908749968	-1.15191059227083	4.76508384670347
"H2258"	7.008006039625	7.008006039625	0.339584601666616
"H226"	5.906415795	5.906415795	2.50622637506918
"H2291"	7.58801019	7.58801019	0.169963442152726
"H23"	4.2127383825	4.9388480125	1.87182110284345
"H2347"	2.121255650875	1.89976962848611	3.00465969795055
"H2887"	3.7189354075	2.78726489809524	4.59057157862475
"H292"	8.461242117125	7.2937195516875	2.5005699591281
"H3255"	4.6278255325	4.802884309375	1.05691034478205
"H358"	3.440409745	4.03363890916667	1.47577591336055
"H441"	4.171752305	5.1185128175	2.17544824755269
"H446"	-2.80051485	-2.73736611183333	2.91330438628356
"H460"	4.85952653	5.37537965444444	2.67225877799095
"H522"	7.41279707	7.69965618916666	3.10314355652069
"H596"	9.25878053441667	9.18881667452083	1.45985035699156
"H647"	2.9925792175	2.95964024166666	1.78711844207475
"H650"	3.412896225	4.62745088653704	2.46015598907843
"H661"	0.117230913749999	0.117230913749999	3.87578720310275
"H820"	6.77734408	5.81629879666667	2.02094896925039
"H838"	1.7983147675	2.56276403035	2.63114826602133
"H920"	0.254659263374998	0.254659263374998	2.93502401418418
"HBEC3-KT"	11.7023598138333	12.0566884729444	3.1211208155502
"HCC1171"	4.7664437775	4.55562014601666	1.78950830074812
"HCC15"	0.943216436249996	-0.0370106655555578	2.16595257153459

Supplemental File 5-Co-Culture qPCR box plots - arginase summary

"HCC1833"	4.5599838825	4.358905325	1.45998480011808
"HCC193"	2.2092158025	2.2092158025	2.43618003791359
"HCC2108"	7.0241371275	6.2623487035	1.76105865457251
"HCC2374"	-1.10806712125	-1.28346162875	2.64229651250909
"HCC2450"	6.39213004175	6.58029657084524	4.14791050054547
"HCC2935"	4.93741436	4.93741436	1.14218766385572
"HCC3051"	8.2840410075	8.43602882225	1.02553768330606
"HCC4019"	7.91135761625	7.91135761625	5.01429803543999
"HCC4054"	7.8428807175	7.8428807175	3.2126490056962
"HCC4087"	2.27729294	2.27729294	2.44576173784954
"HCC44"	7.375750547125	7.375750547125	1.11653127311293
"HCC446"	1.629278954375	1.629278954375	4.05805343085513
"HCC461"	4.680021275875	4.680021275875	1.16329766381917
"HCC515"	8.69287409416667	8.69287409416667	0.52354457490205
"HCC78"	7.4844248775	7.4844248775	5.25509510213518
"HCC827"	7.34775982	6.89772728885	2.08056636683438
"HCC95"	2.7247794775	2.7043444975	0.468787403171414
"HOP-62"	6.753995658375	6.40059761070833	3.90699076526483
"Mac + CAF"	1.19189543	1.19189543	2.15155713108433
"Mac + IL-4"	13.65647878	14.0353793725098	2.09954211790121
"Mac + LPS"	0.805522664541666	0.745936976643518	2.11721769494216

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Target"	"Sample"	"Mean"
"Arg1"	"A427"	8.56627463095833
"Il1b"	"A427"	4.41959185203333
"Il6"	"A427"	3.20278369622024
"iNos"	"A427"	2.40604262283333
"Socs3"	"A427"	4.75992364805714
"Ym-1"	"A427"	-0.0833046318833336
"Arg1"	"A549"	5.21298682833333
"Il1b"	"A549"	3.081318352625
"Il6"	"A549"	0.0641594155555592
"iNos"	"A549"	-1.32533245277778
"Socs3"	"A549"	5.28445266307143
"Ym-1"	"A549"	1.2024971079375
"Arg1"	"Calu-1"	3.16262748055555
"Il1b"	"Calu-1"	4.55952334408333
"Il6"	"Calu-1"	1.36973216423611
"iNos"	"Calu-1"	2.442385955625
"Socs3"	"Calu-1"	5.8976862274256
"Ym-1"	"Calu-1"	-0.389430916416667
"Arg1"	"Calu-6"	2.3752021545
"Il1b"	"Calu-6"	3.31937197125
"Il6"	"Calu-6"	2.44573999408333
"iNos"	"Calu-6"	3.14149553425
"Socs3"	"Calu-6"	6.56001324013889
"Ym-1"	"Calu-6"	1.03084793458333
"Arg1"	"DFCI024"	5.582391242125
"Il1b"	"DFCI024"	5.68890191716666
"Il6"	"DFCI024"	2.403966815875
"iNos"	"DFCI024"	3.87078196920834
"Socs3"	"DFCI024"	5.083922812

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"DFCI024"	1.4566361455
"Arg1"	"EKVX"	6.03848881235
"Il1b"	"EKVX"	6.01030576304167
"Il6"	"EKVX"	2.24979777951667
"iNos"	"EKVX"	2.80356181485
"Socs3"	"EKVX"	8.095577272625
"Ym-1"	"EKVX"	2.149244423875
"Arg1"	"H1048"	1.42785375861111
"Il1b"	"H1048"	8.457766969375
"Il6"	"H1048"	3.03313338493056
"iNos"	"H1048"	3.39674744715278
"Socs3"	"H1048"	6.352552020625
"Ym-1"	"H1048"	-0.566188565000001
"Arg1"	"H1299"	3.77578676666666
"Il1b"	"H1299"	4.59764440502083
"Il6"	"H1299"	2.79682575833333
"iNos"	"H1299"	3.60824983583333
"Socs3"	"H1299"	7.44254677772916
"Ym-1"	"H1299"	1.83518087189583
"Arg1"	"H1355"	6.25120034635
"Il1b"	"H1355"	7.12741502751667
"Il6"	"H1355"	3.61178516401667
"iNos"	"H1355"	2.83765147185
"Socs3"	"H1355"	4.74018952939584
"Ym-1"	"H1355"	-1.28629696398333
"Arg1"	"H1373"	6.37826186583333
"Il1b"	"H1373"	5.83984151854167
"Il6"	"H1373"	-0.29328634472222
"iNos"	"H1373"	1.55892809833334
"Socs3"	"H1373"	6.371889235

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H1373"	0.835909394166666
"Arg1"	"H1395"	2.25807187614583
"Il1b"	"H1395"	4.24018072820833
"Il6"	"H1395"	0.796219231614585
"iNos"	"H1395"	1.65798161609375
"Socs3"	"H1395"	5.33971815366667
"Ym-1"	"H1395"	1.49542705872917
"Arg1"	"H1437"	5.8860000725
"Il1b"	"H1437"	4.156477881
"Il6"	"H1437"	3.22898081975
"iNos"	"H1437"	3.2984364555119
"Socs3"	"H1437"	5.60762944979167
"Ym-1"	"H1437"	1.4312763165
"Arg1"	"H1563"	4.18321377027083
"Il1b"	"H1563"	6.41279810966667
"Il6"	"H1563"	2.82308611907292
"iNos"	"H1563"	1.45421964136458
"Socs3"	"H1563"	4.81779046376389
"Ym-1"	"H1563"	-0.331115221444444
"Arg1"	"H157"	2.1710168715625
"Il1b"	"H157"	6.2053769075
"Il6"	"H157"	2.46636868932292
"iNos"	"H157"	2.98477495671875
"Socs3"	"H157"	5.22300824895833
"Ym-1"	"H157"	1.38291425733333
"Arg1"	"H1573"	4.56610006625
"Il1b"	"H1573"	8.93482578764583
"Il6"	"H1573"	4.70144276
"iNos"	"H1573"	2.45917109125
"Socs3"	"H1573"	5.60065788825

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H1573"	-0.245441960479167
"Arg1"	"H1650"	7.0945924425
"Il1b"	"H1650"	2.11019669991667
"Il6"	"H1650"	6.56080061625
"iNos"	"H1650"	2.21762176125
"Socs3"	"H1650"	4.51591427119643
"Ym-1"	"H1650"	1.4070296448125
"Arg1"	"H1666"	11.4274323097083
"Il1b"	"H1666"	6.48898190125
"Il6"	"H1666"	2.58501494247024
"iNos"	"H1666"	3.82860638804167
"Socs3"	"H1666"	9.37984278058333
"Ym-1"	"H1666"	3.29382675825
"Arg1"	"H1693"	10.6980849610625
"Il1b"	"H1693"	6.50707258991667
"Il6"	"H1693"	4.1310684535625
"iNos"	"H1693"	2.93145738064583
"Socs3"	"H1693"	7.01469536222818
"Ym-1"	"H1693"	-0.501999425152778
"Arg1"	"H1703"	8.14606031666666
"Il1b"	"H1703"	4.66432719916667
"Il6"	"H1703"	6.00529122666666
"iNos"	"H1703"	3.746620745
"Socs3"	"H1703"	5.34142972
"Ym-1"	"H1703"	1.66330056333334
"Arg1"	"H1734"	1.794655868125
"Il1b"	"H1734"	5.87968928104166
"Il6"	"H1734"	0.790013478958333
"iNos"	"H1734"	1.482320581875
"Socs3"	"H1734"	6.05522869083334

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H1734"	0.490980052499999
"Arg1"	"H1755"	0.523471822683333
"Il1b"	"H1755"	3.134794444466667
"Il6"	"H1755"	2.9393036966
"iNos"	"H1755"	2.3803235851
"Socs3"	"H1755"	3.33892339577777
"Ym-1"	"H1755"	-0.219149142833334
"Arg1"	"H1792"	5.145803737375
"Il1b"	"H1792"	4.08362528475
"Il6"	"H1792"	3.29830521925
"iNos"	"H1792"	3.73805963883333
"Socs3"	"H1792"	5.01941638502778
"Ym-1"	"H1792"	1.20863382169444
"Arg1"	"H1819"	3.7353272279881
"Il1b"	"H1819"	6.93827912808333
"Il6"	"H1819"	1.86203261876191
"iNos"	"H1819"	1.83308460078571
"Socs3"	"H1819"	7.19007811975
"Ym-1"	"H1819"	-2.65515715025
"Arg1"	"H1944"	6.09656498391667
"Il1b"	"H1944"	4.02614449880556
"Il6"	"H1944"	2.38383385030556
"iNos"	"H1944"	1.54640858113889
"Socs3"	"H1944"	2.93621938134524
"Ym-1"	"H1944"	2.15745001116667
"Arg1"	"H1975"	2.984522694
"Il1b"	"H1975"	4.37343361003333
"Il6"	"H1975"	1.4765092259949
"iNos"	"H1975"	2.93375134965476
"Socs3"	"H1975"	6.36586124705714

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H1975"	0.811355137616665
"Arg1"	"H1993"	5.35797124897222
"Il1b"	"H1993"	6.14217167238333
"Il6"	"H1993"	1.97188305456349
"iNos"	"H1993"	2.71173567383333
"Socs3"	"H1993"	6.10651548340714
"Ym-1"	"H1993"	2.3347911733
"Arg1"	"H2009"	7.01884221225
"Il1b"	"H2009"	4.10553090697222
"Il6"	"H2009"	7.05843389419445
"iNos"	"H2009"	4.10018555641667
"Socs3"	"H2009"	7.86547095312302
"Ym-1"	"H2009"	0.824700512805556
"Arg1"	"H2030"	5.89510325416667
"Il1b"	"H2030"	4.4772810661875
"Il6"	"H2030"	4.82650861861111
"iNos"	"H2030"	3.330626345
"Socs3"	"H2030"	5.27544798047222
"Ym-1"	"H2030"	0.409459726395835
"Arg1"	"H2073"	2.71164720607407
"Il1b"	"H2073"	2.26094659929167
"Il6"	"H2073"	0.785780052718255
"iNos"	"H2073"	1.63702367536111
"Socs3"	"H2073"	3.72982156494643
"Ym-1"	"H2073"	0.882723156062502
"Arg1"	"H2085"	5.02457658279167
"Il1b"	"H2085"	4.66818682327778
"Il6"	"H2085"	1.05734412668056
"iNos"	"H2085"	1.33317706098611
"Socs3"	"H2085"	7.50020365077778

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H2085"	0.986584207583334
"Arg1"	"H2086"	-1.57802590958333
"Il1b"	"H2086"	6.09138602445833
"Il6"	"H2086"	3.00911670875
"iNos"	"H2086"	5.0848519975
"Socs3"	"H2086"	11.310815092375
"Ym-1"	"H2086"	0.867952273625001
"Arg1"	"H2087"	0.436961393916665
"Il1b"	"H2087"	6.03173311521667
"Il6"	"H2087"	4.71917838141667
"iNos"	"H2087"	1.46621825975
"Socs3"	"H2087"	3.89415347657381
"Ym-1"	"H2087"	-1.55423852853333
"Arg1"	"H2122"	8.80192929285
"Il1b"	"H2122"	7.48491327863889
"Il6"	"H2122"	4.91218585735
"iNos"	"H2122"	5.43678878335
"Socs3"	"H2122"	9.311626705875
"Ym-1"	"H2122"	3.22397724725
"Arg1"	"H2172"	-1.15191059227083
"Il1b"	"H2172"	6.36367973495833
"Il6"	"H2172"	2.30664013929167
"iNos"	"H2172"	2.3697835645
"Socs3"	"H2172"	5.1108979035
"Ym-1"	"H2172"	0.628416589749999
"Arg1"	"H2258"	7.008006039625
"Il1b"	"H2258"	5.92614304947222
"Il6"	"H2258"	4.77425008837501
"iNos"	"H2258"	0.507190369625004
"Socs3"	"H2258"	8.31192344641667

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H2258"	2.34318012002778
"Arg1"	"H226"	5.906415795
"Il1b"	"H226"	7.64260504260417
"Il6"	"H226"	4.48620223791667
"iNos"	"H226"	1.4709970875
"Socs3"	"H226"	7.03144931200893
"Ym-1"	"H226"	-2.40628171520833
"Arg1"	"H2291"	7.58801019
"Il1b"	"H2291"	3.5119101435
"Il6"	"H2291"	1.76600307041667
"iNos"	"H2291"	2.05688751125
"Socs3"	"H2291"	6.24742149516667
"Ym-1"	"H2291"	3.57082985183333
"Arg1"	"H23"	4.9388480125
"Il1b"	"H23"	3.36545506054167
"Il6"	"H23"	1.84099985416667
"iNos"	"H23"	1.26014184527778
"Socs3"	"H23"	5.02147446807143
"Ym-1"	"H23"	0.7875149860625
"Arg1"	"H2347"	1.89976962848611
"Il1b"	"H2347"	3.33061038502778
"Il6"	"H2347"	3.19447077980556
"iNos"	"H2347"	2.02181038744444
"Socs3"	"H2347"	7.51922542891667
"Ym-1"	"H2347"	0.65911682863889
"Arg1"	"H2887"	2.78726489809524
"Il1b"	"H2887"	5.04830543388889
"Il6"	"H2887"	5.79500638803571
"iNos"	"H2887"	4.42502209291667
"Socs3"	"H2887"	8.85215691444445

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H2887"	2.64116787166667
"Arg1"	"H292"	7.2937195516875
"Il1b"	"H292"	7.65170963546667
"Il6"	"H292"	3.45251031960417
"iNos"	"H292"	2.0203873029375
"Socs3"	"H292"	6.308397304125
"Ym-1"	"H292"	0.3189846268
"Arg1"	"H3255"	4.802884309375
"Il1b"	"H3255"	3.282613204375
"Il6"	"H3255"	-0.279165995208333
"iNos"	"H3255"	1.034631170625
"Socs3"	"H3255"	6.0599050125
"Ym-1"	"H3255"	0.0735466616666653
"Arg1"	"H358"	4.03363890916667
"Il1b"	"H358"	7.12681361027777
"Il6"	"H358"	2.09665338027778
"iNos"	"H358"	2.31599327416667
"Socs3"	"H358"	4.5563618625
"Ym-1"	"H358"	-3.04205126333334
"Arg1"	"H441"	5.1185128175
"Il1b"	"H441"	5.79901531033333
"Il6"	"H441"	1.30018693366667
"iNos"	"H441"	2.0553550375
"Socs3"	"H441"	7.5015074585
"Ym-1"	"H441"	2.6007994315
"Arg1"	"H446"	-2.73736611183333
"Il1b"	"H446"	6.1669868275
"Il6"	"H446"	1.76771292025
"iNos"	"H446"	2.69433004858333
"Socs3"	"H446"	5.61339061625

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H446"	2.56833934624999
"Arg1"	"H460"	5.37537965444444
"Il1b"	"H460"	7.22100899583333
"Il6"	"H460"	2.64057199708333
"iNos"	"H460"	4.11300127611111
"Socs3"	"H460"	9.5088267375
"Ym-1"	"H460"	2.68700302375
"Arg1"	"H522"	7.69965618916666
"Il1b"	"H522"	4.65792843929167
"Il6"	"H522"	2.05367289555556
"iNos"	"H522"	0.0209363374999979
"Socs3"	"H522"	5.08480627307143
"Ym-1"	"H522"	1.98282797653125
"Arg1"	"H596"	9.18881667452083
"Il1b"	"H596"	9.00173597225
"Il6"	"H596"	3.85944991394941
"iNos"	"H596"	4.20784458285417
"Socs3"	"H596"	8.465205143375
"Ym-1"	"H596"	1.53555672419444
"Arg1"	"H647"	2.95964024166666
"Il1b"	"H647"	4.37868084728572
"Il6"	"H647"	0.989974692916666
"iNos"	"H647"	2.41106182402778
"Socs3"	"H647"	6.11532067145238
"Ym-1"	"H647"	1.79107009680952
"Arg1"	"H650"	4.62745088653704
"Il1b"	"H650"	6.61213282233333
"Il6"	"H650"	2.56280394656085
"iNos"	"H650"	2.17411232940741
"Socs3"	"H650"	6.539032837

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"H650"	2.26427680666667
"Arg1"	"H661"	0.117230913749999
"Il1b"	"H661"	6.5754763384375
"Il6"	"H661"	2.6656126625
"iNos"	"H661"	3.18075963125
"Socs3"	"H661"	4.64113256325893
"Ym-1"	"H661"	-3.297997614375
"Arg1"	"H820"	5.81629879666667
"Il1b"	"H820"	3.39864836583334
"Il6"	"H820"	-0.94438194
"iNos"	"H820"	0.712896323333332
"Socs3"	"H820"	5.94223724416667
"Ym-1"	"H820"	-0.034782398611112
"Arg1"	"H838"	2.56276403035
"Il1b"	"H838"	4.20584173495
"Il6"	"H838"	2.92527792251667
"iNos"	"H838"	1.11226219168333
"Socs3"	"H838"	3.78963429780714
"Ym-1"	"H838"	1.6914461722
"Arg1"	"H920"	0.254659263374998
"Il1b"	"H920"	3.64683226947222
"Il6"	"H920"	2.554286368375
"iNos"	"H920"	1.42837390754167
"Socs3"	"H920"	4.6762406007619
"Ym-1"	"H920"	-0.959276204694445
"Arg1"	"HBEC3-KT"	12.0566884729444
"Il1b"	"HBEC3-KT"	3.98848662545833
"Il6"	"HBEC3-KT"	3.86588109023809
"iNos"	"HBEC3-KT"	4.45090539211111
"Socs3"	"HBEC3-KT"	7.232660352125

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"HBEC3-KT"	4.452713255875
"Arg1"	"HCC1171"	4.55562014601666
"Il1b"	"HCC1171"	6.70530737077778
"Il6"	"HCC1171"	2.82489507135
"iNos"	"HCC1171"	4.44071480201667
"Socs3"	"HCC1171"	2.76201216466667
"Ym-1"	"HCC1171"	-3.958278197
"Arg1"	"HCC15"	-0.0370106655555578
"Il1b"	"HCC15"	4.36485303885417
"Il6"	"HCC15"	2.03759436229167
"iNos"	"HCC15"	1.89306880909722
"Socs3"	"HCC15"	6.5434313415625
"Ym-1"	"HCC15"	1.04117529947917
"Arg1"	"HCC1833"	4.358905325
"Il1b"	"HCC1833"	8.6827648715
"Il6"	"HCC1833"	2.38364011416667
"iNos"	"HCC1833"	1.389871855
"Socs3"	"HCC1833"	7.8657033405
"Ym-1"	"HCC1833"	1.63420695366667
"Arg1"	"HCC193"	2.2092158025
"Il1b"	"HCC193"	6.48338363236111
"Il6"	"HCC193"	1.57184021625
"iNos"	"HCC193"	1.30068833875
"Socs3"	"HCC193"	5.56256769625
"Ym-1"	"HCC193"	-3.10933950875
"Arg1"	"HCC2108"	6.2623487035
"Il1b"	"HCC2108"	5.861275943
"Il6"	"HCC2108"	3.584574062
"iNos"	"HCC2108"	2.671520982
"Socs3"	"HCC2108"	6.7488930265

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"HCC2108"	2.3491641905
"Arg1"	"HCC2374"	-1.28346162875
"Il1b"	"HCC2374"	5.54841074178333
"Il6"	"HCC2374"	1.56129854409722
"iNos"	"HCC2374"	1.90309148465278
"Socs3"	"HCC2374"	6.80089599195
"Ym-1"	"HCC2374"	1.02206863678333
"Arg1"	"HCC2450"	6.58029657084524
"Il1b"	"HCC2450"	5.26309391710417
"Il6"	"HCC2450"	4.0800153937619
"iNos"	"HCC2450"	4.14606852769047
"Socs3"	"HCC2450"	5.0405050254375
"Ym-1"	"HCC2450"	0.644514521895834
"Arg1"	"HCC2935"	4.93741436
"Il1b"	"HCC2935"	3.667333135
"Il6"	"HCC2935"	0.22333708
"iNos"	"HCC2935"	-0.585368171250003
"Socs3"	"HCC2935"	5.33088835583333
"Ym-1"	"HCC2935"	0.344827865000003
"Arg1"	"HCC3051"	8.43602882225
"Il1b"	"HCC3051"	9.09452704808334
"Il6"	"HCC3051"	4.73575161308333
"iNos"	"HCC3051"	3.44115966975
"Socs3"	"HCC3051"	5.29264229522222
"Ym-1"	"HCC3051"	-1.92893303004167
"Arg1"	"HCC4019"	7.91135761625
"Il1b"	"HCC4019"	5.992317680125
"Il6"	"HCC4019"	3.43296414
"iNos"	"HCC4019"	1.31564263125
"Socs3"	"HCC4019"	5.84547639557143

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"HCC4019"	1.7671014023125
"Arg1"	"HCC4054"	7.8428807175
"Il1b"	"HCC4054"	7.24249374041667
"Il6"	"HCC4054"	3.17101790625
"iNos"	"HCC4054"	0.181389161666672
"Socs3"	"HCC4054"	4.06102500875
"Ym-1"	"HCC4054"	-4.90201142
"Arg1"	"HCC4087"	2.27729294
"Il1b"	"HCC4087"	9.47988445666667
"Il6"	"HCC4087"	2.77806197375
"iNos"	"HCC4087"	2.03743585500001
"Socs3"	"HCC4087"	4.7857497375
"Ym-1"	"HCC4087"	-4.2685078025
"Arg1"	"HCC44"	7.375750547125
"Il1b"	"HCC44"	4.12606478516667
"Il6"	"HCC44"	4.486623460875
"iNos"	"HCC44"	2.553608053375
"Socs3"	"HCC44"	4.98143072992857
"Ym-1"	"HCC44"	-0.660848309416666
"Arg1"	"HCC446"	1.629278954375
"Il1b"	"HCC446"	8.70805813541666
"Il6"	"HCC446"	2.878456526875
"iNos"	"HCC446"	1.41695432208333
"Socs3"	"HCC446"	3.14330612104167
"Ym-1"	"HCC446"	-5.89482852166667
"Arg1"	"HCC461"	4.680021275875
"Il1b"	"HCC461"	5.391322853
"Il6"	"HCC461"	4.538979609625
"iNos"	"HCC461"	3.686948924625
"Socs3"	"HCC461"	4.4974136395

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"HCC461"	1.584999668
"Arg1"	"HCC515"	8.69287409416667
"Il1b"	"HCC515"	2.9047774115
"Il6"	"HCC515"	8.00742607041667
"iNos"	"HCC515"	3.41893621791667
"Socs3"	"HCC515"	7.388798477125
"Ym-1"	"HCC515"	4.60453319504167
"Arg1"	"HCC78"	7.4844248775
"Il1b"	"HCC78"	6.82185398852778
"Il6"	"HCC78"	2.81324655916667
"iNos"	"HCC78"	2.28627871291667
"Socs3"	"HCC78"	6.23590012991667
"Ym-1"	"HCC78"	-1.03855207341667
"Arg1"	"HCC827"	6.89772728885
"Il1b"	"HCC827"	4.32562927679167
"Il6"	"HCC827"	4.09164684835
"iNos"	"HCC827"	1.48710663351667
"Socs3"	"HCC827"	6.87071121033333
"Ym-1"	"HCC827"	1.17850682679167
"Arg1"	"HCC95"	2.7043444975
"Il1b"	"HCC95"	2.40118924819445
"Il6"	"HCC95"	0.986567532499999
"iNos"	"HCC95"	1.77605545083334
"Socs3"	"HCC95"	6.54988293069444
"Ym-1"	"HCC95"	1.42869930041666
"Arg1"	"HOP-62"	6.40059761070833
"Il1b"	"HOP-62"	5.93370276193333
"Il6"	"HOP-62"	2.290050227375
"iNos"	"HOP-62"	1.65235762751389
"Socs3"	"HOP-62"	5.6015720991

Supplemental File 6-Co-culture qPCR processed data for heatmap

"Ym-1"	"HOP-62"	-0.516063419066668
"Arg1"	"Mac + CAF"	1.19189543
"Il1b"	"Mac + CAF"	3.49071797504166
"Il6"	"Mac + CAF"	1.10537940874999
"iNos"	"Mac + CAF"	2.3907171925
"Socs3"	"Mac + CAF"	4.54860593759524
"Ym-1"	"Mac + CAF"	0.0841456961874987
"Arg1"	"Mac + IL-4"	14.0353793725098
"Il1b"	"Mac + IL-4"	-0.328854271874999
"Il6"	"Mac + IL-4"	-0.172502503237396
"iNos"	"Mac + IL-4"	-1.2551607755049
"Socs3"	"Mac + IL-4"	0.578390469724603
"Ym-1"	"Mac + IL-4"	4.40884619304687
"Arg1"	"Mac + LPS"	0.745936976643518
"Il1b"	"Mac + LPS"	13.9325569624167
"Il6"	"Mac + LPS"	15.1916982840397
"iNos"	"Mac + LPS"	15.1759596396528
"Socs3"	"Mac + LPS"	3.85272402833571
"Ym-1"	"Mac + LPS"	-0.303370342609375