

[illegible]

$1 \leq$
 $j \leq$
 $d \leq$
 j
 x_1, \dots, x_M
density
stats
 R_1, \dots, R_N
 y_1, \dots, y_N
 $??$
 M
 N
 $M/N >$
11
 $??$
 $??$
 $??$
 $2 \quad 6 \quad 10$
 $0.886 \quad 1.02 \quad 1.48$
 $0.964 \quad 1.21 \quad 3.08$
 $0.895 \quad 1.20 \quad 3.11$
 $1.24 \quad 1.86 \quad 4.32$
 $1 \quad 6 \quad 10$
 $0.516 \quad 1.06 \quad 1.03$
 $0.653 \quad 0.722 \quad 2.13$
 $0.698 \quad 1.92 \quad 2.72$
 $0.588 \quad 1.80 \quad 3.34$
 $mRNA.png$ In black, kernel density estimates of the densities of mRNA gene expression for each level of polyQ length (Q80, Q
and using $\log(1 +$
 $\cdot)$
 y
 $mRNA.png$ In black, kernel density estimates of the densities of mRNA gene expression for each level of polyQ length (Q80, Q
and using $\log(1 +$
 $\cdot)$
 y
 $\Omega :=$
 $\{\omega \in$
 $(+)^M | \sum_{m \in M} \omega_m =$
1}
 $(M -$
1)
 $\bar{\omega} :=$
 $M^{-1} \mathbf{1}_M$
 $\mathbf{1}_M \in M$
 $\omega \in$
 Ω
 $\Pi(\omega) :=$
 $\{P \in$
 $(+)^{M \times N} | P \mathbf{1}_N =$
 $\omega, P^\top \mathbf{1}_M =$
 $N^{-1} \mathbf{1}_N\}$
 $\mu_X^\omega :=$
 $\sum_{m \in M} \omega_m \delta_{x_m}$
 $\nu_Y^\omega :=$
 $N^{-1} \sum_{n \in N} \delta_{y_n}$
 ω_X
 ω_Y
 P
 $\Pi(\omega)$
 $X \times$
 Y^ω
 μ_X^ω
 ν_Y^ω
 $?$
 $X \times$
 Y
 $\mu_X^{\bar{\omega}}$
 $\nu_Y^{\bar{\omega}}$
 $C_X \times$
 $Y \rightarrow_+$
 c
 $c(x, y) :=$
 $\|x -$
 $y\|_2^2$
 d
 $C_{X,Y} \in M \times N$
 $(C_{X,Y})_{mn} :=$
 $c(x_m, y_n)$
 $(m, n) \in$
 $M \times$
 N
 $\min_{P \in \Pi(\bar{\omega})} \langle C_{X,Y}, P \rangle_F$
 $\langle C_{X,Y}, P \rangle_F :=$
 $\sum_{(m,n) \in M \times N} (C_{X,Y})_{mn} P_{mn}$
 P
 X
 Y
 P
 $E(P) :=$