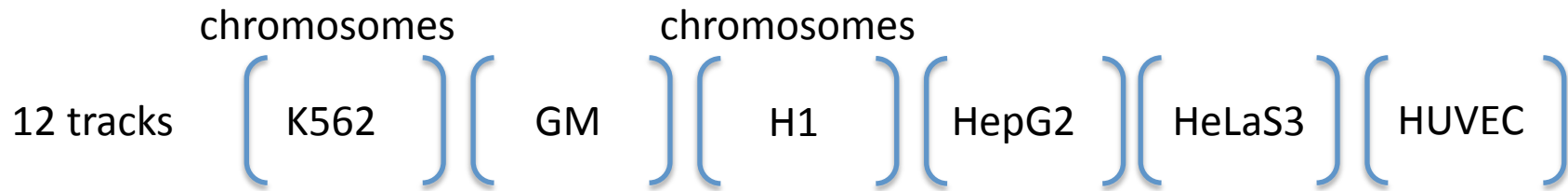
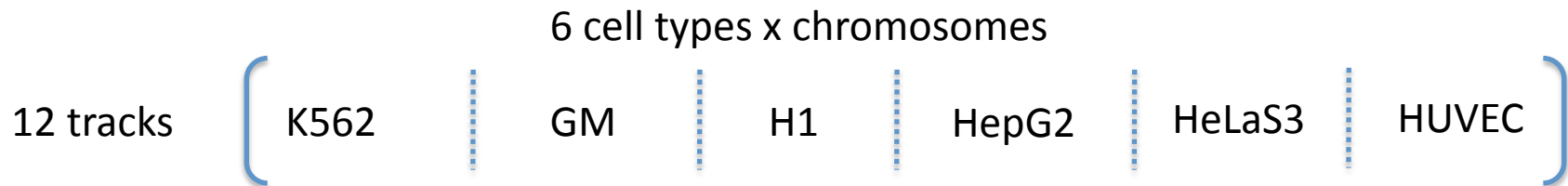


S1

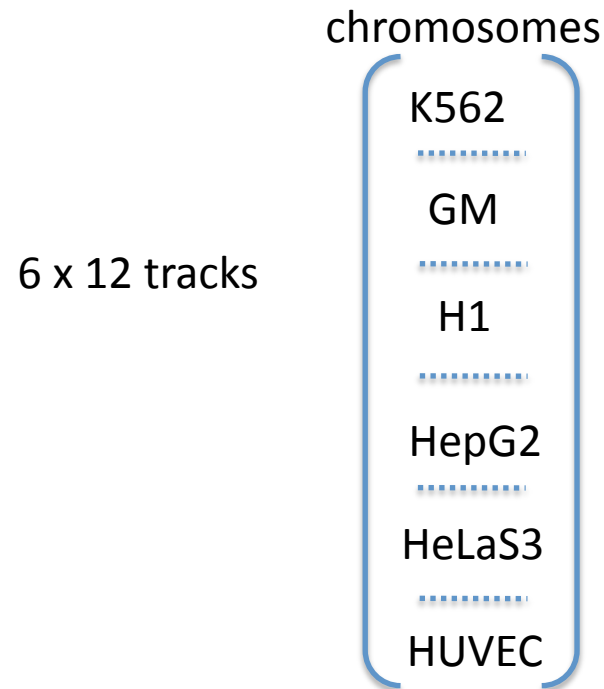
Training on each cell type *separately*: 6 different training matrices

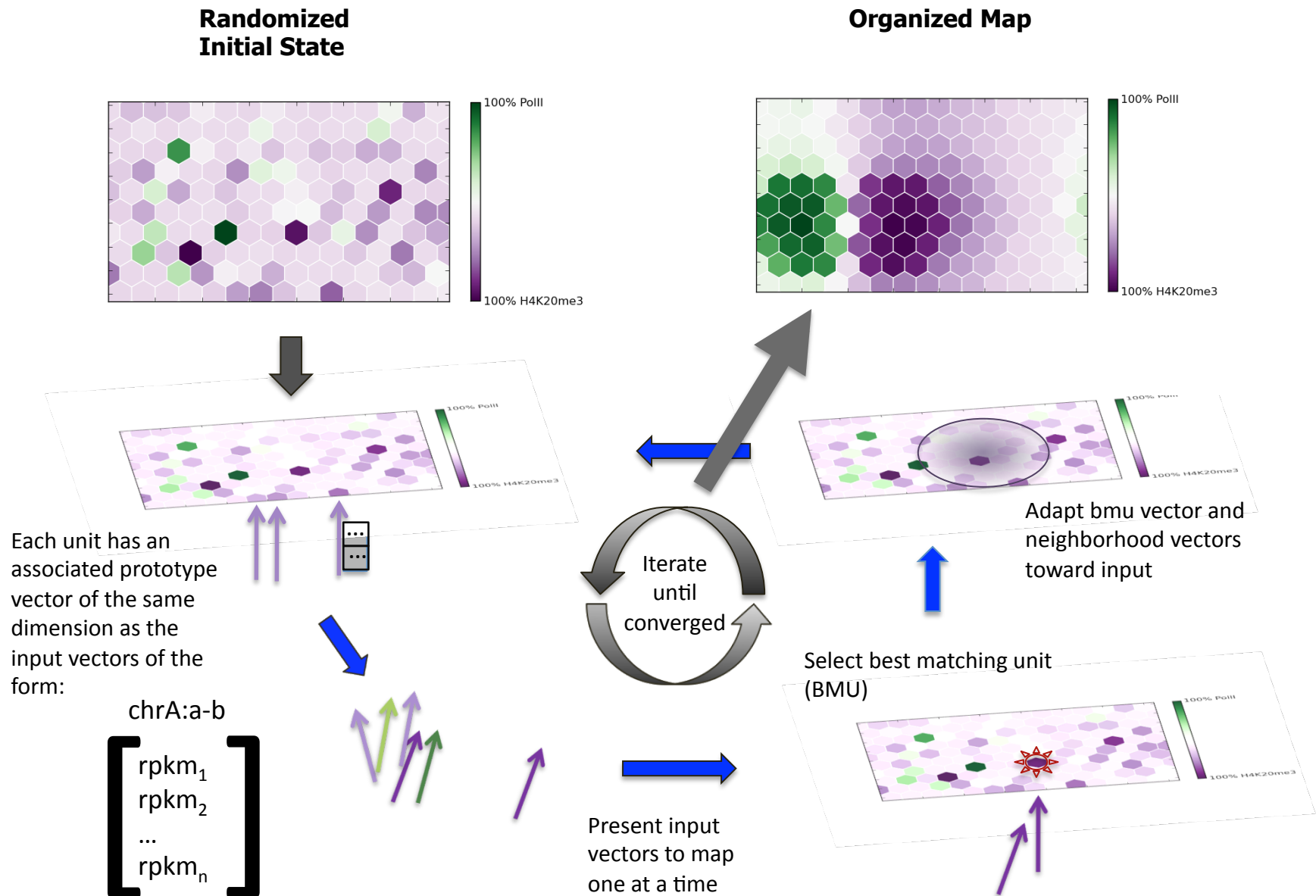


Training on *concatenated* datasets: 1 training matrix with a “copy” of chromosomes for each cell type

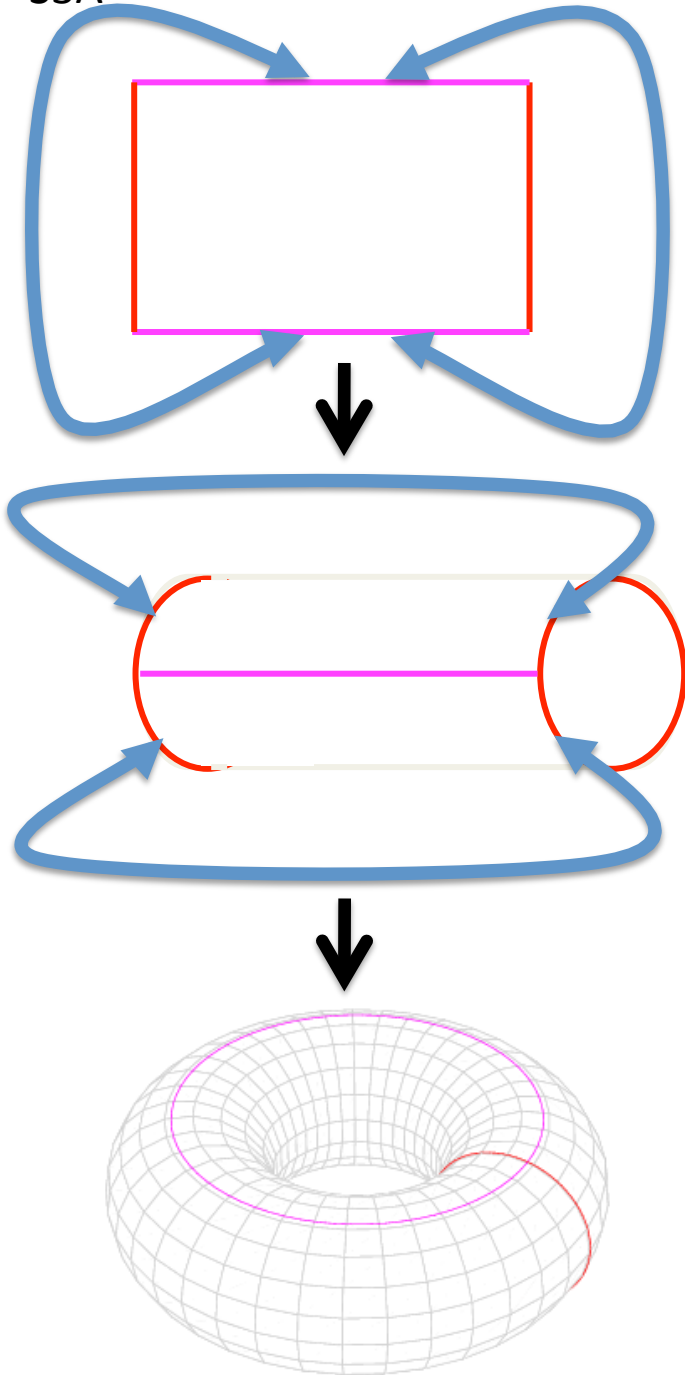


Training on *stacked* datasets: 1 training matrix with a “copy” of chromosomes for each cell type

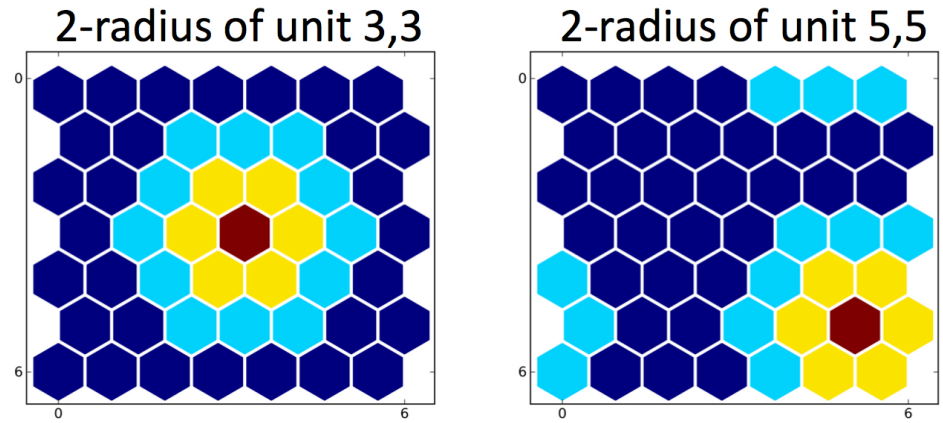




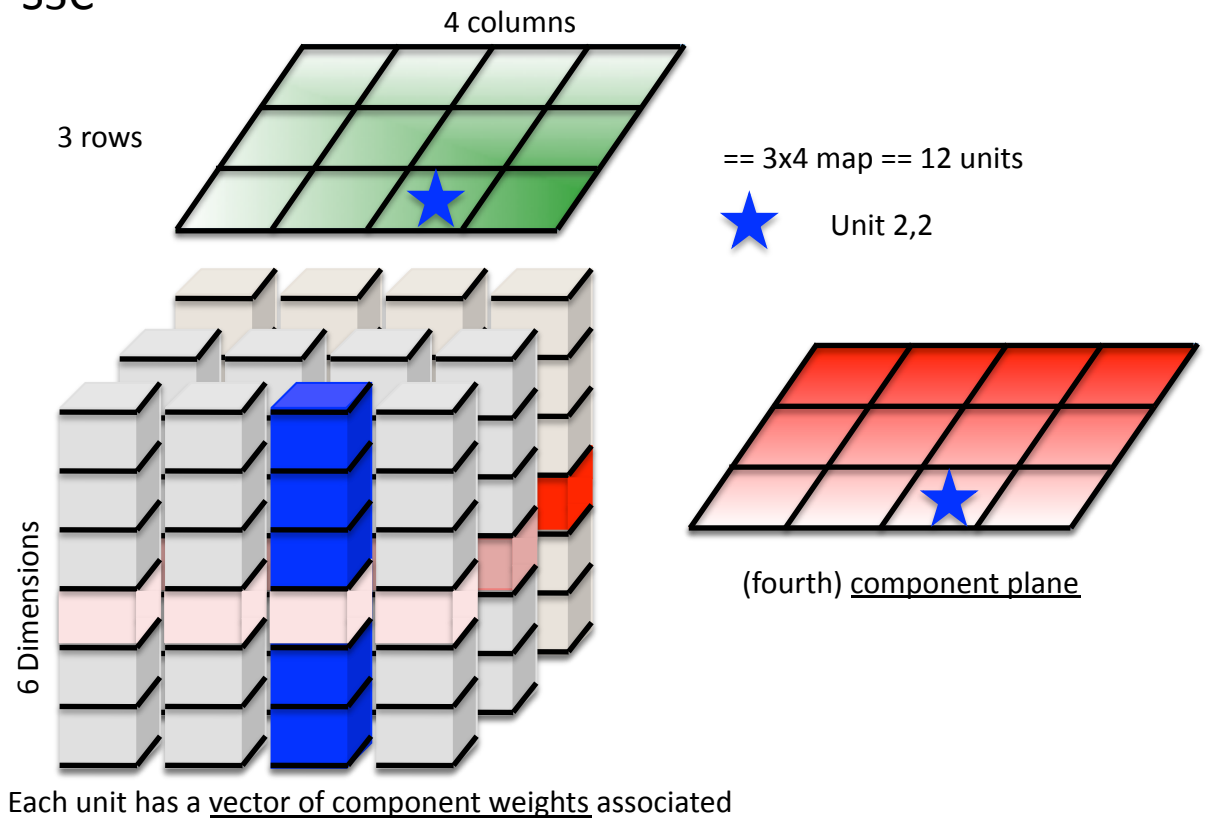
S3A

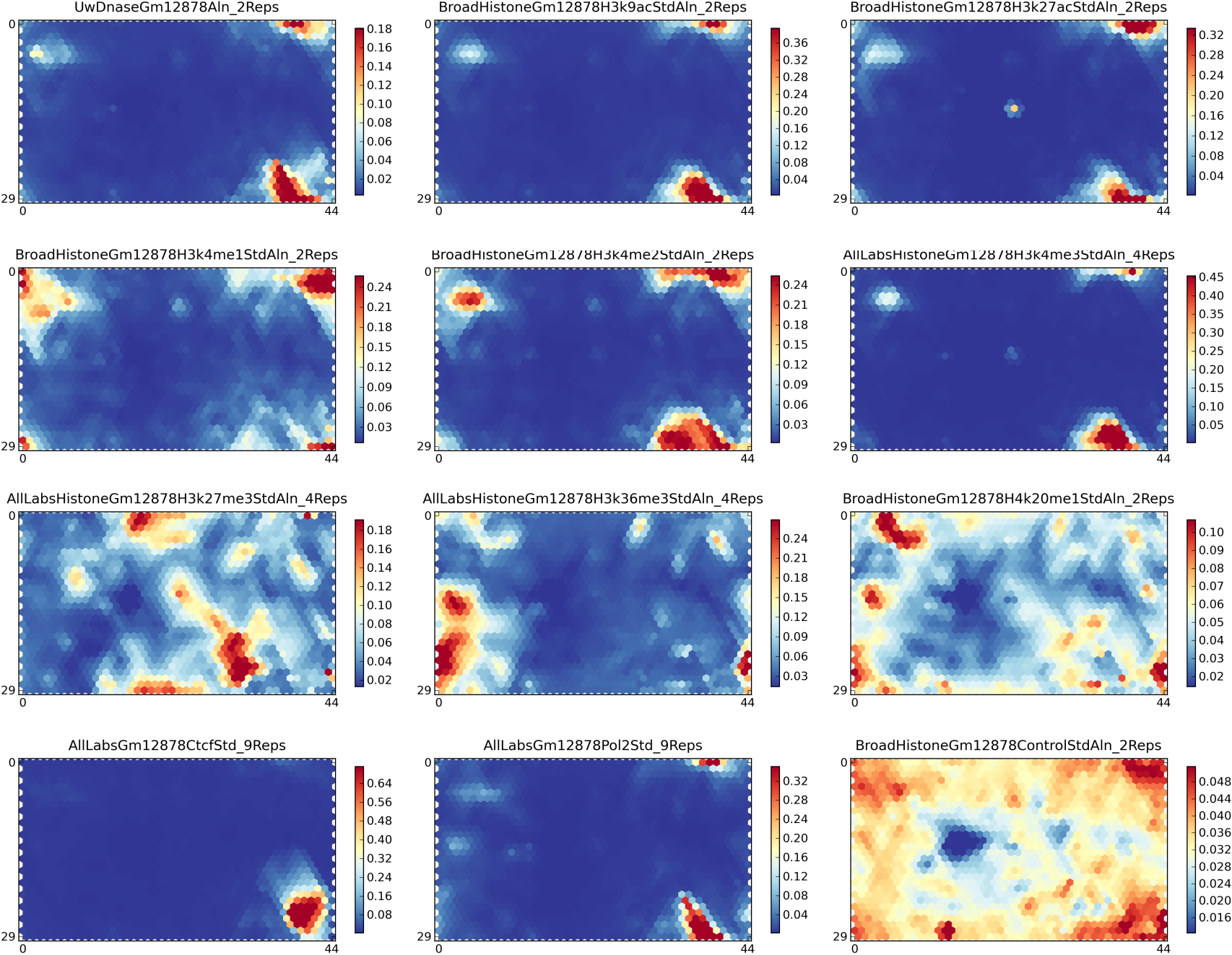


S3B



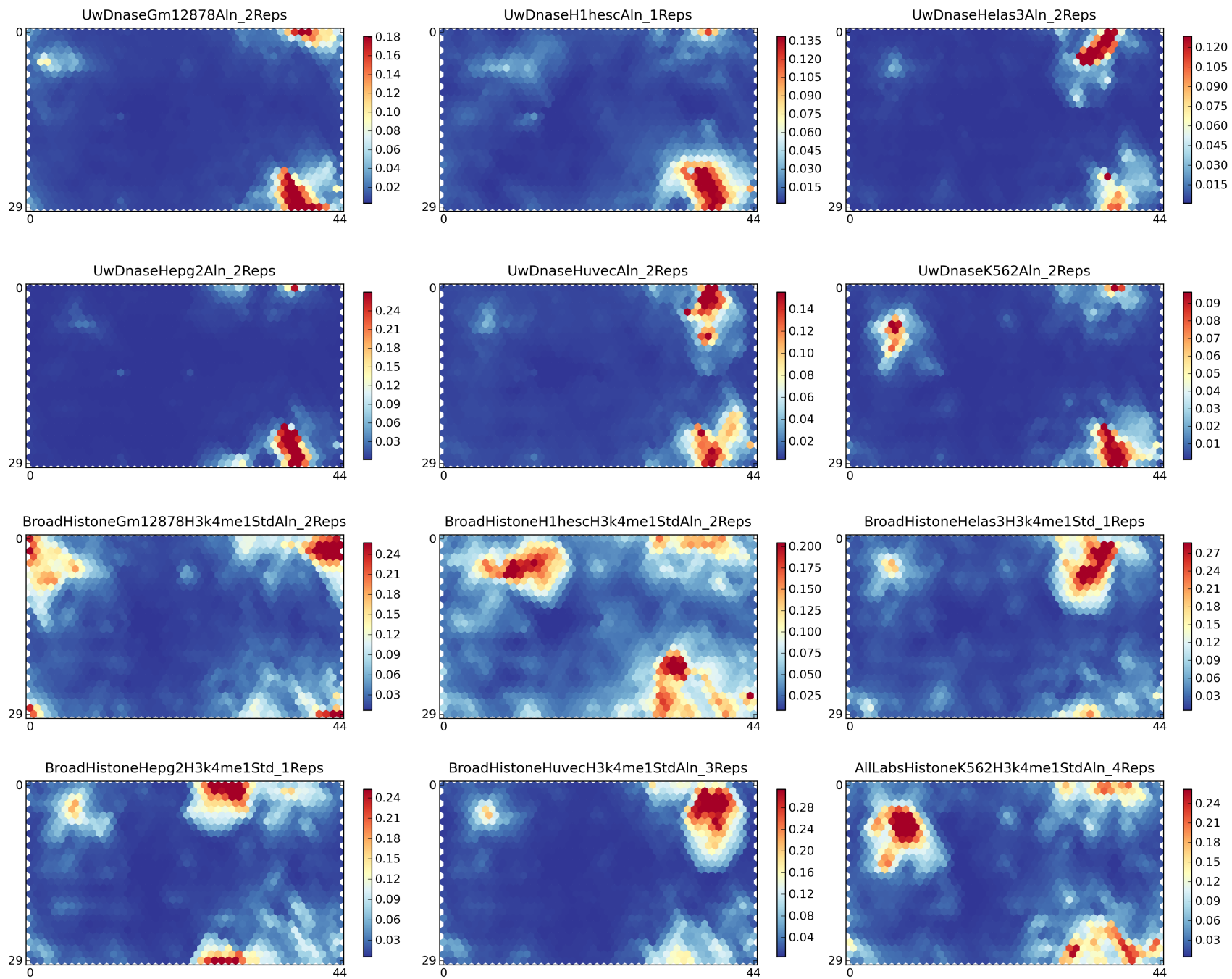
S3C





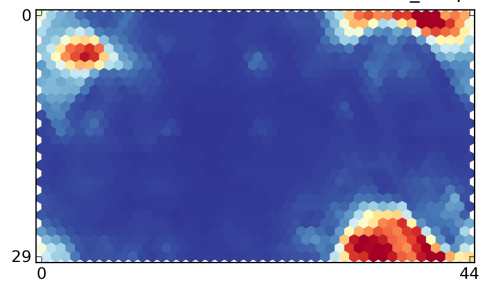


S5

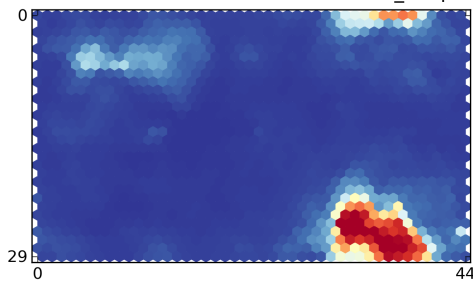


S6

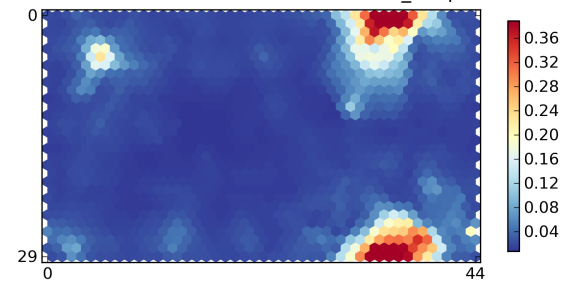
BroadHistoneGm12878H3k4me2StdAln\_2Reps



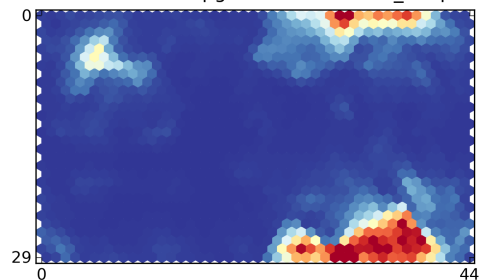
BroadHistoneH1hesch3k4me2StdAln\_2Reps



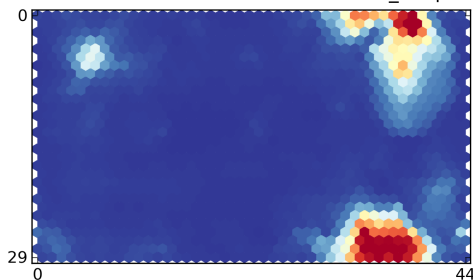
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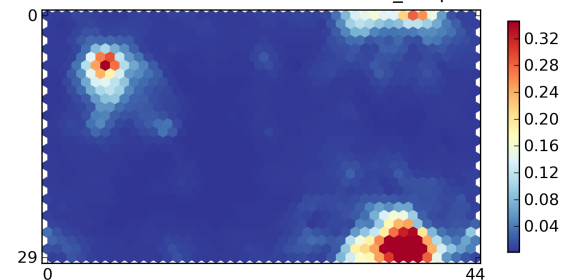
BroadHistoneHepg2H3k4me2StdAln\_2Reps



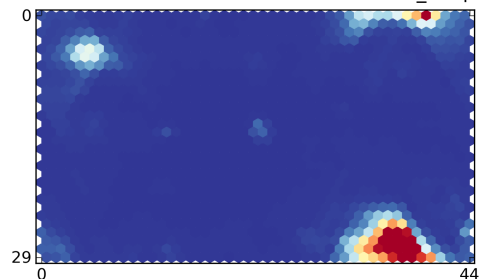
BroadHistoneHuvecH3k4me2StdAln\_2Reps



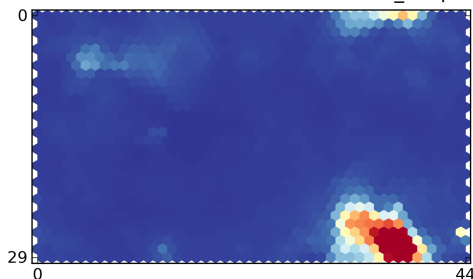
BroadHistoneK562H3k4me2StdAln\_2Reps



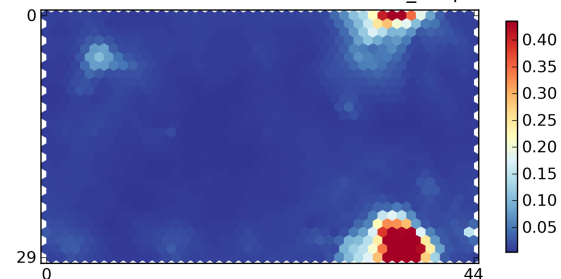
AllLabsHistoneGm12878H3k4me3StdAln\_4Reps



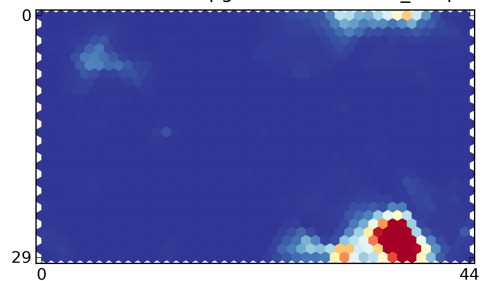
BroadHistoneH1hesch3k4me3StdAln\_2Reps



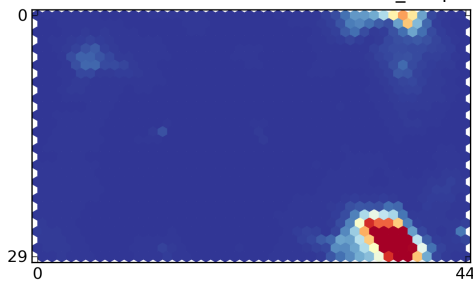
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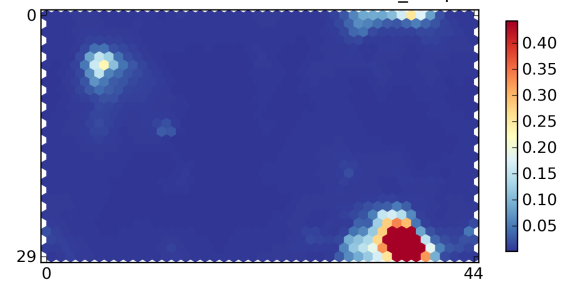
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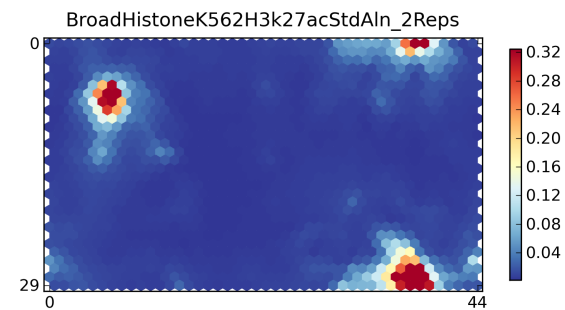
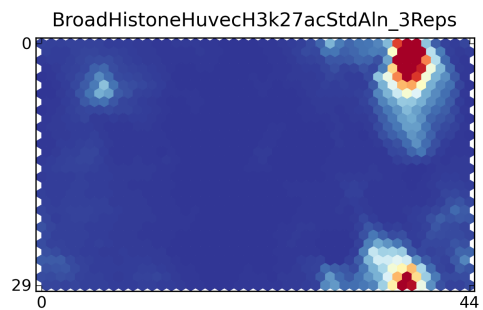
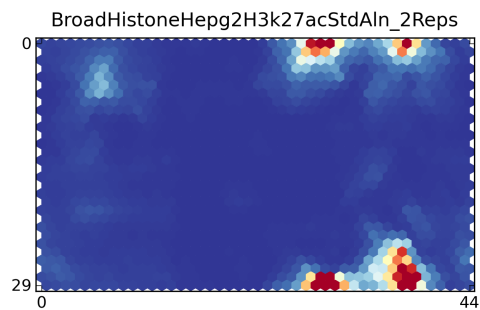
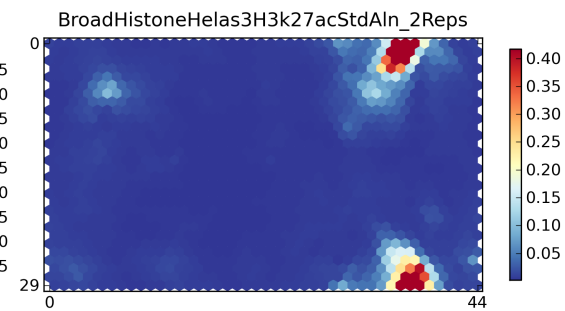
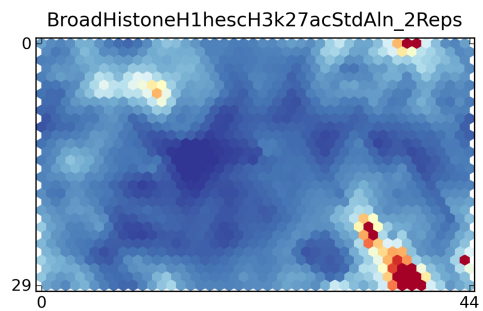
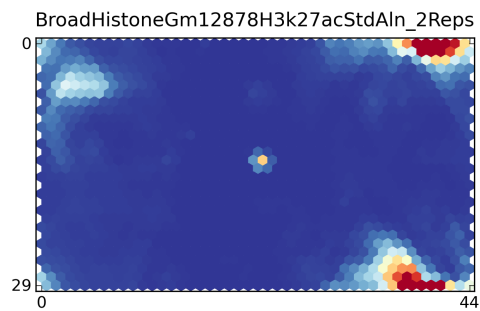
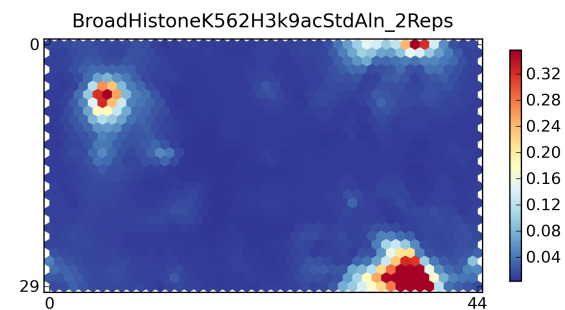
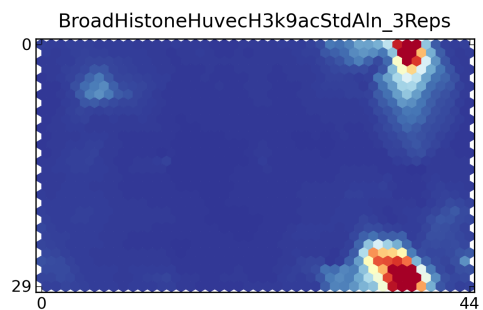
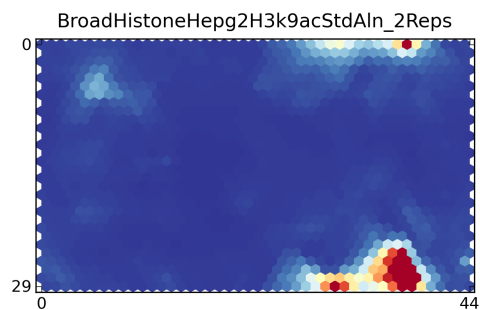
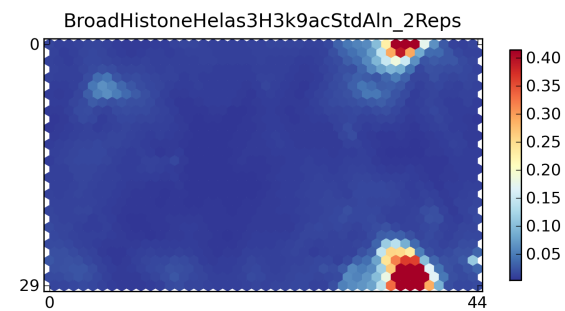
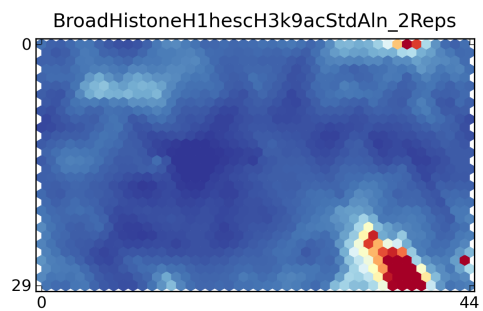
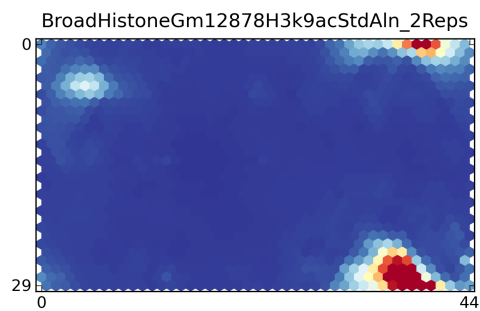
AllLabsHistoneHuvecH3k4me3StdAln\_5Reps



AllLabsHistoneK562H3k4me3StdAln\_6Reps

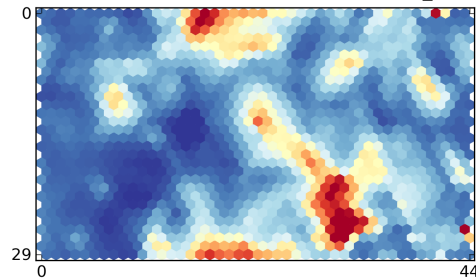


S7

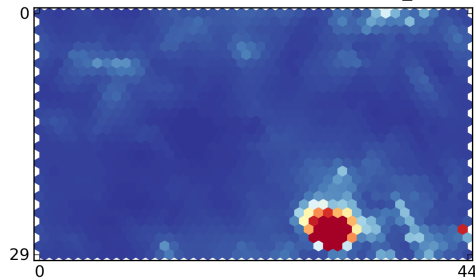


S8

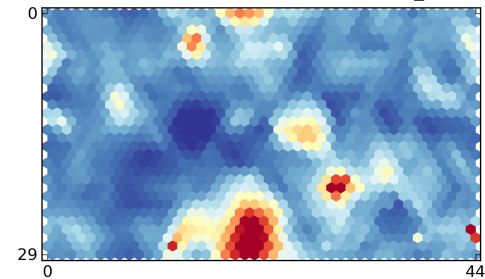
AllLabsHistoneGm12878H3k27me3StdAln\_4Reps



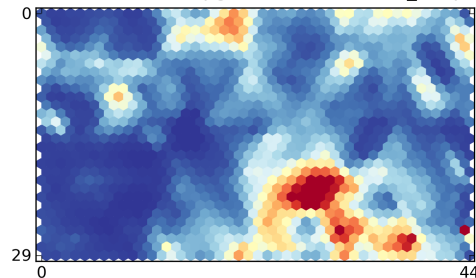
BroadHistoneH1heschH3k27me3StdAln\_2Reps



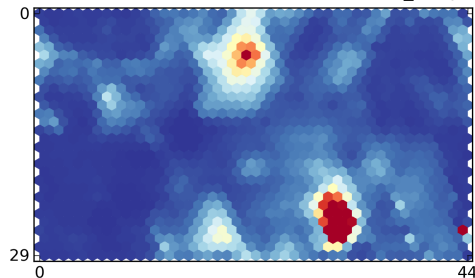
AllLabsHistoneHelas3H3k27me3StdAln\_4Reps



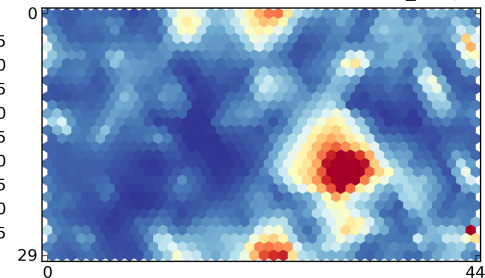
AllLabsHistoneHepg2H3k27me3StdAln\_4Reps



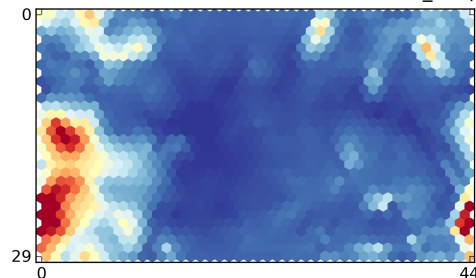
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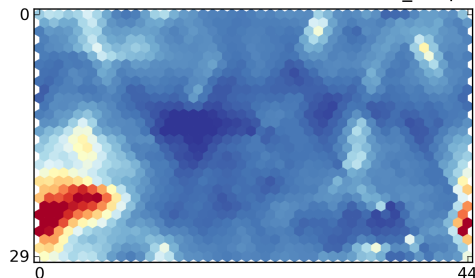
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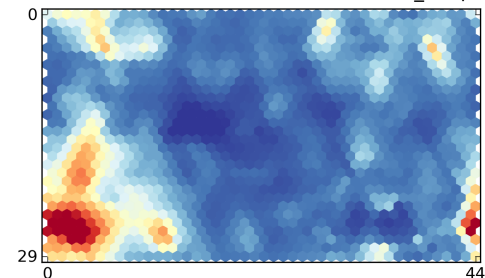
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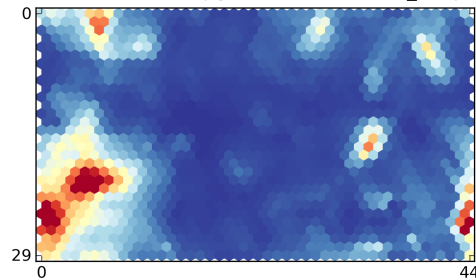
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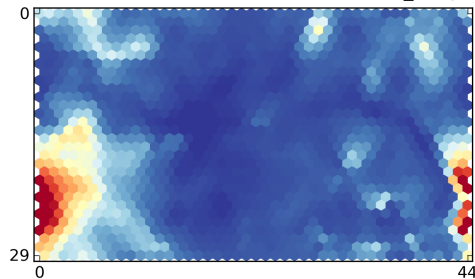
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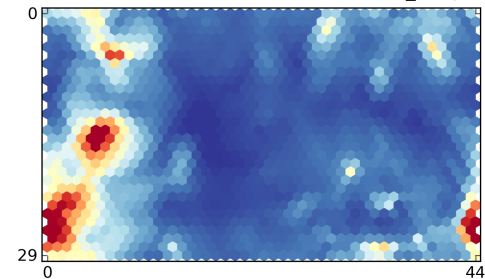
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AllLabsHistoneHuvecH3k36me3StdAln\_5Reps



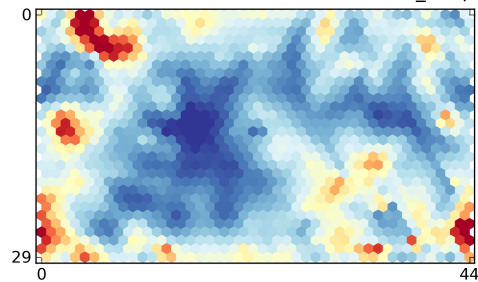
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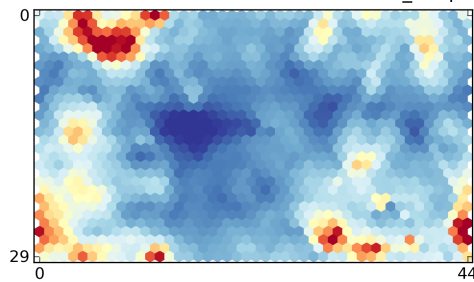


S9

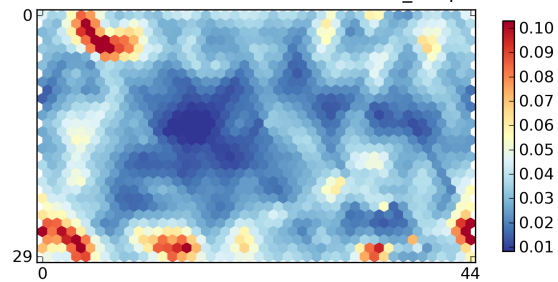
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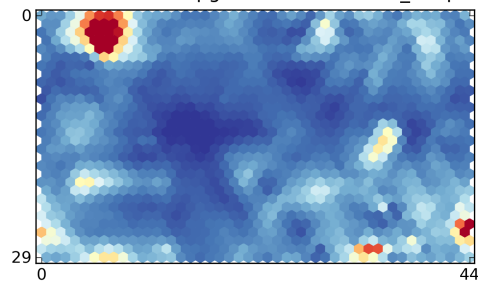
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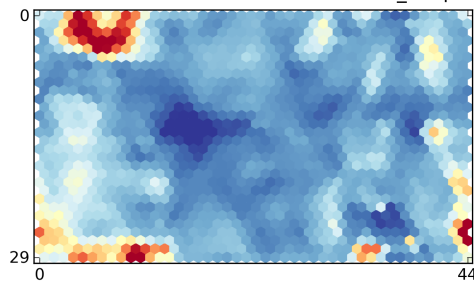
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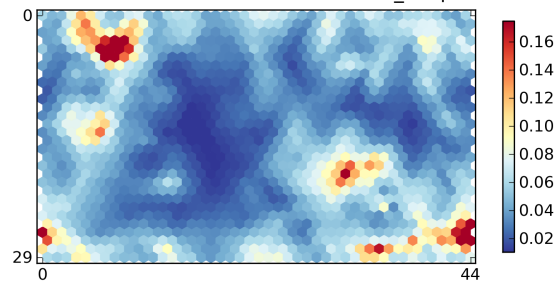
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BroadHistoneHuvecH4k20me1StdAln\_3Reps



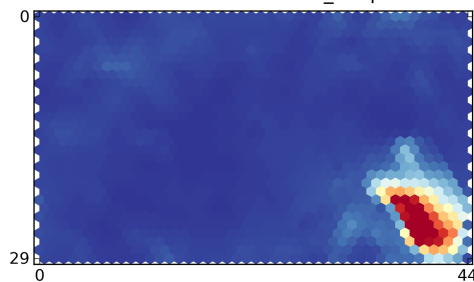
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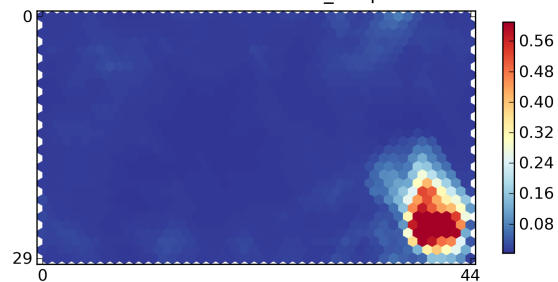
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AllLabsH1heschCtcfStd\_5Reps



AllLabsHelas3CtcfStd\_6Reps



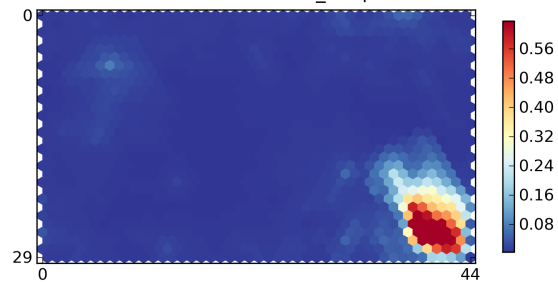
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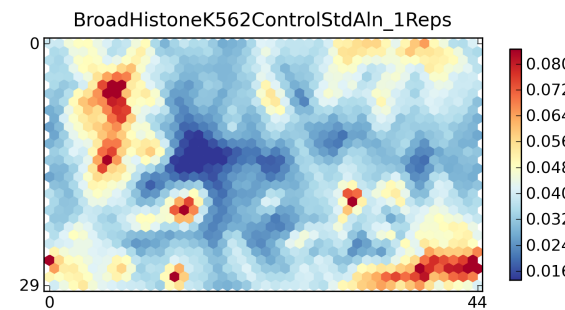
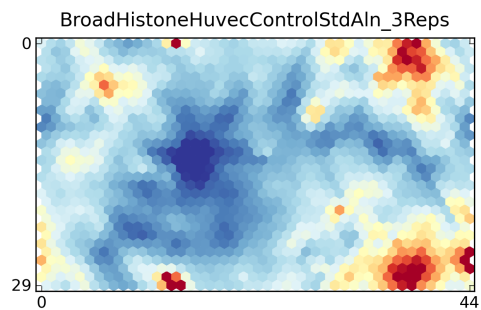
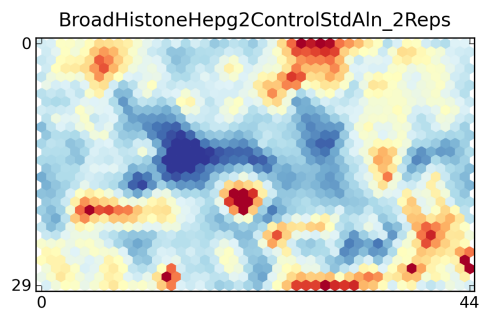
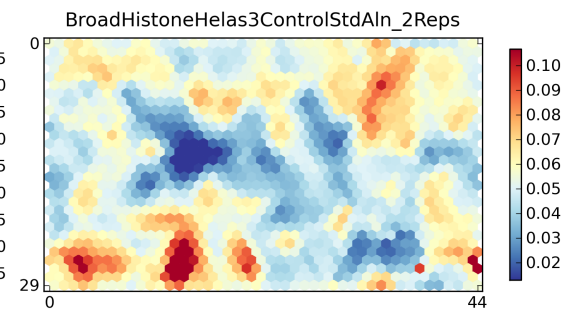
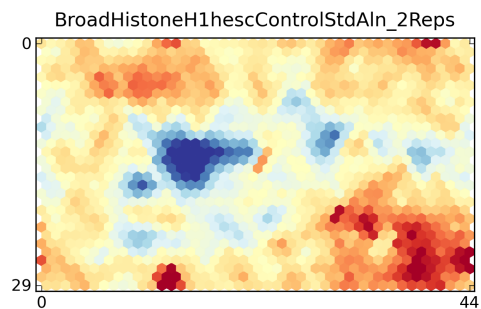
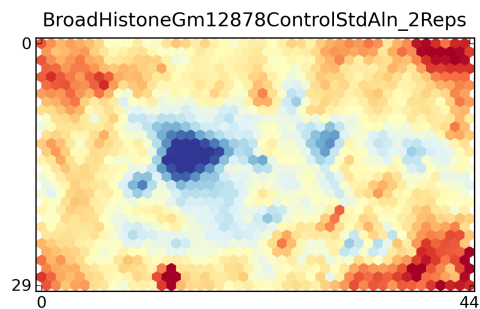
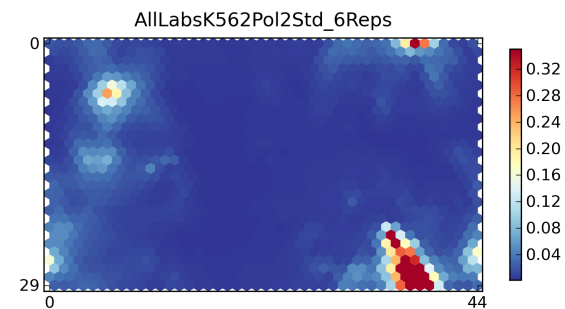
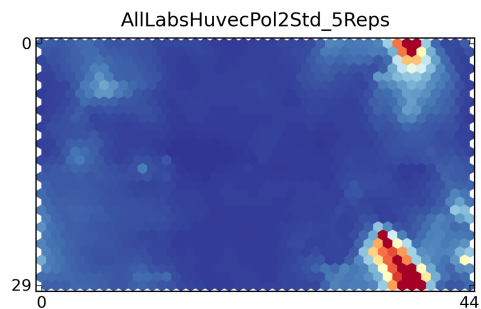
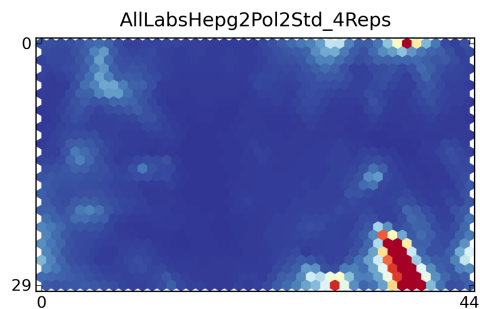
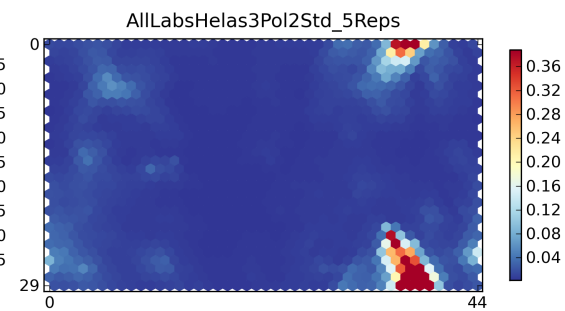
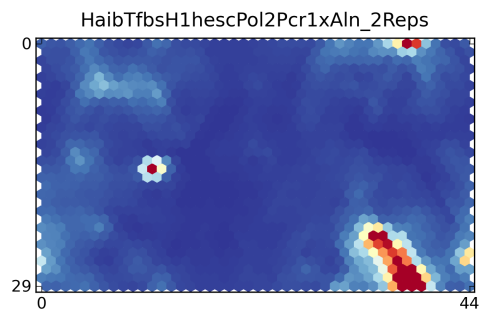
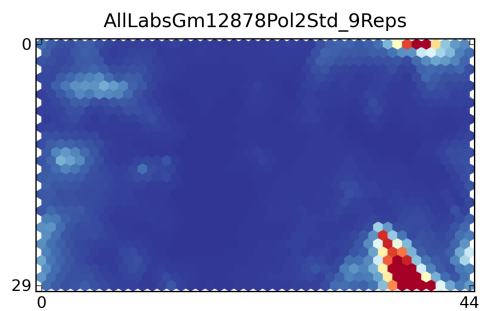
AllLabsHuvecCtcfStd\_7Reps



AllLabsK562CtcfStd\_7Reps

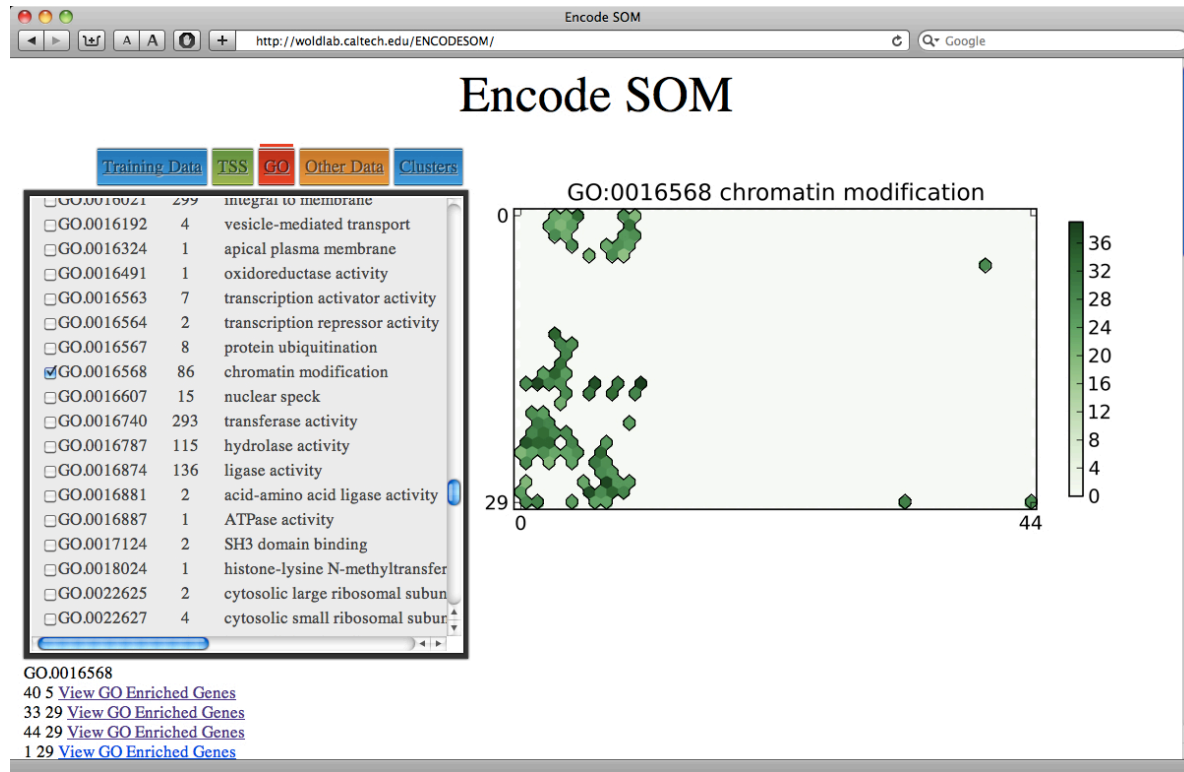


S10



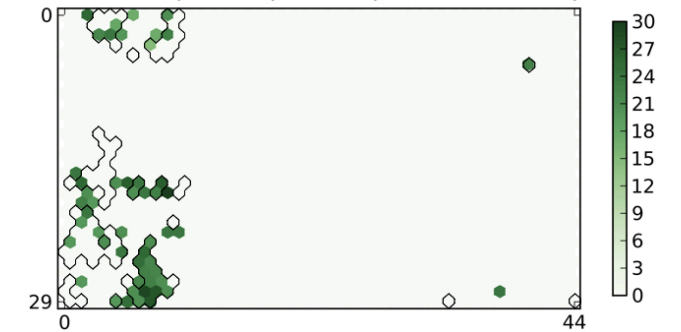
S11

A



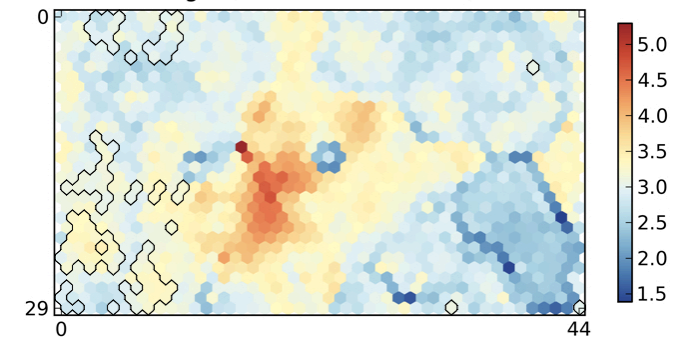
B

0006511 ubiquitin-dependent protein catabolic process



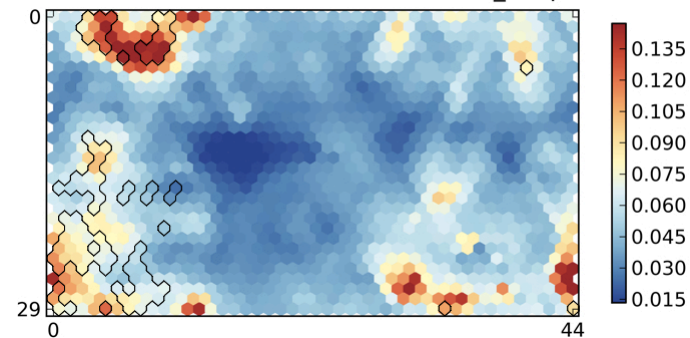
C

log10(nucleotide kb count)



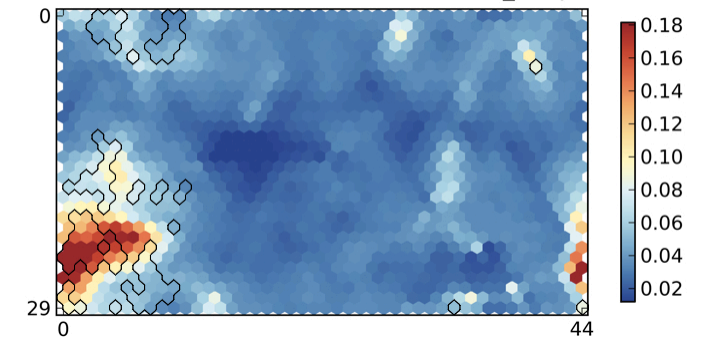
D

BroadHistoneH1hesch4k20me1StdAln\_2Reps



E

BroadHistoneH1hesch3k36me3StdAln\_2Reps

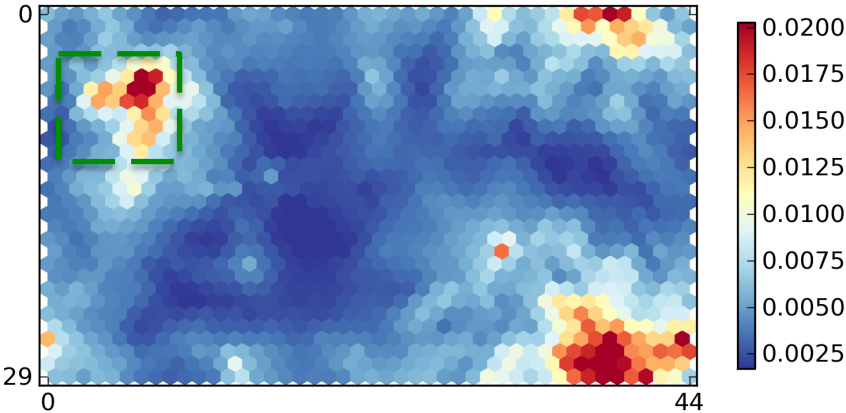




S12

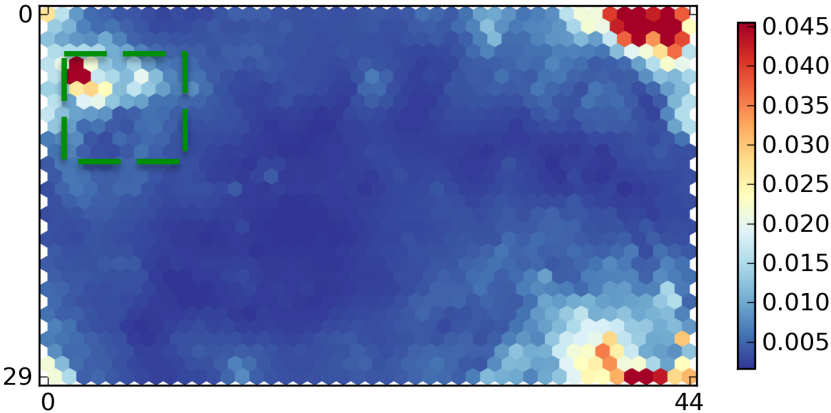
A

K562 PU.1



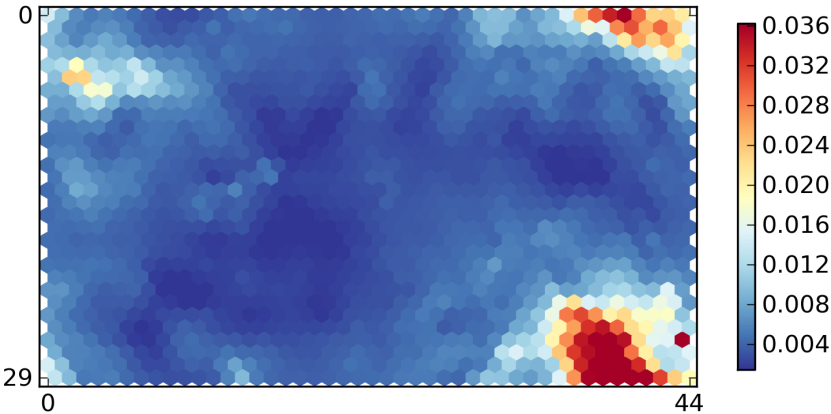
B

GM12878 PU.1



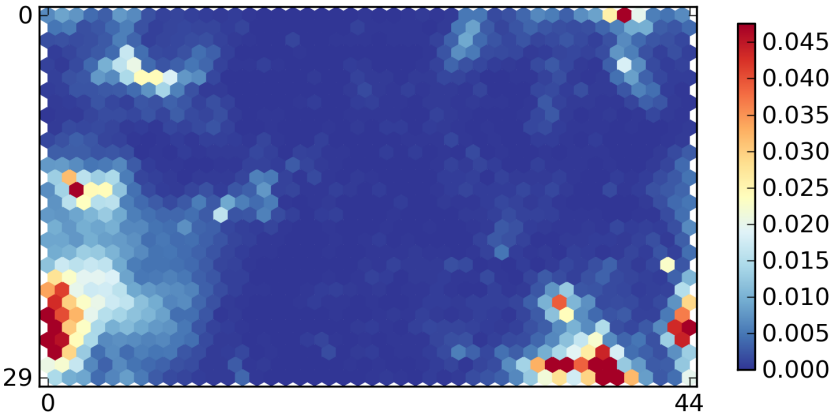
C

GM12878 PAX5

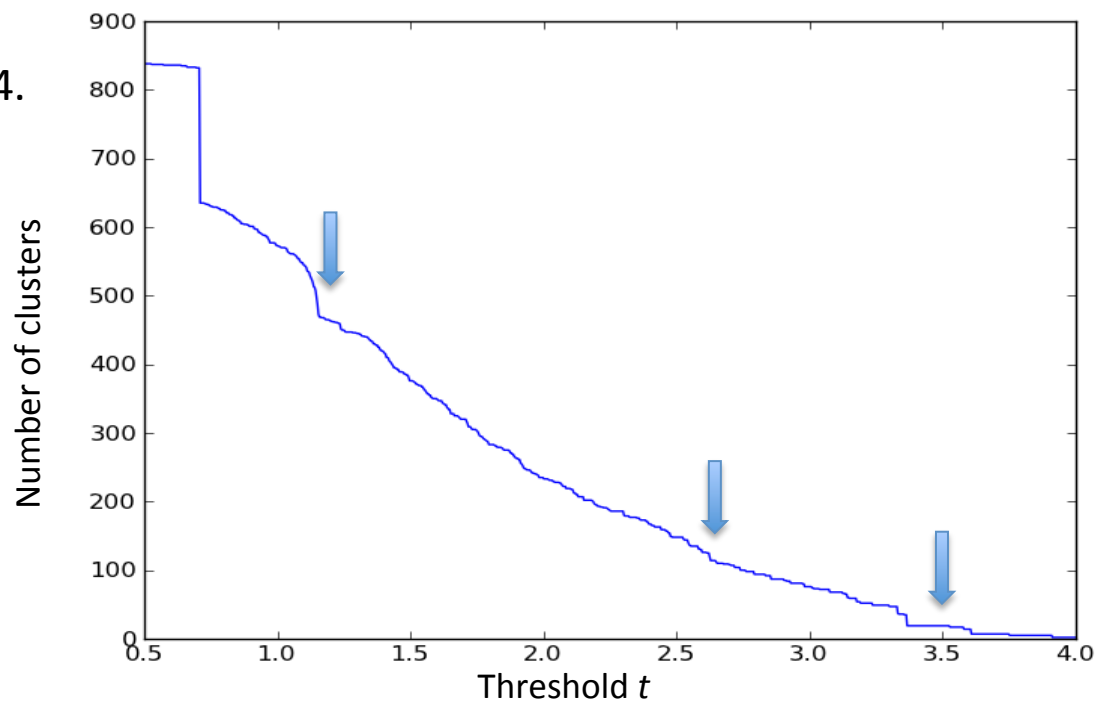


D

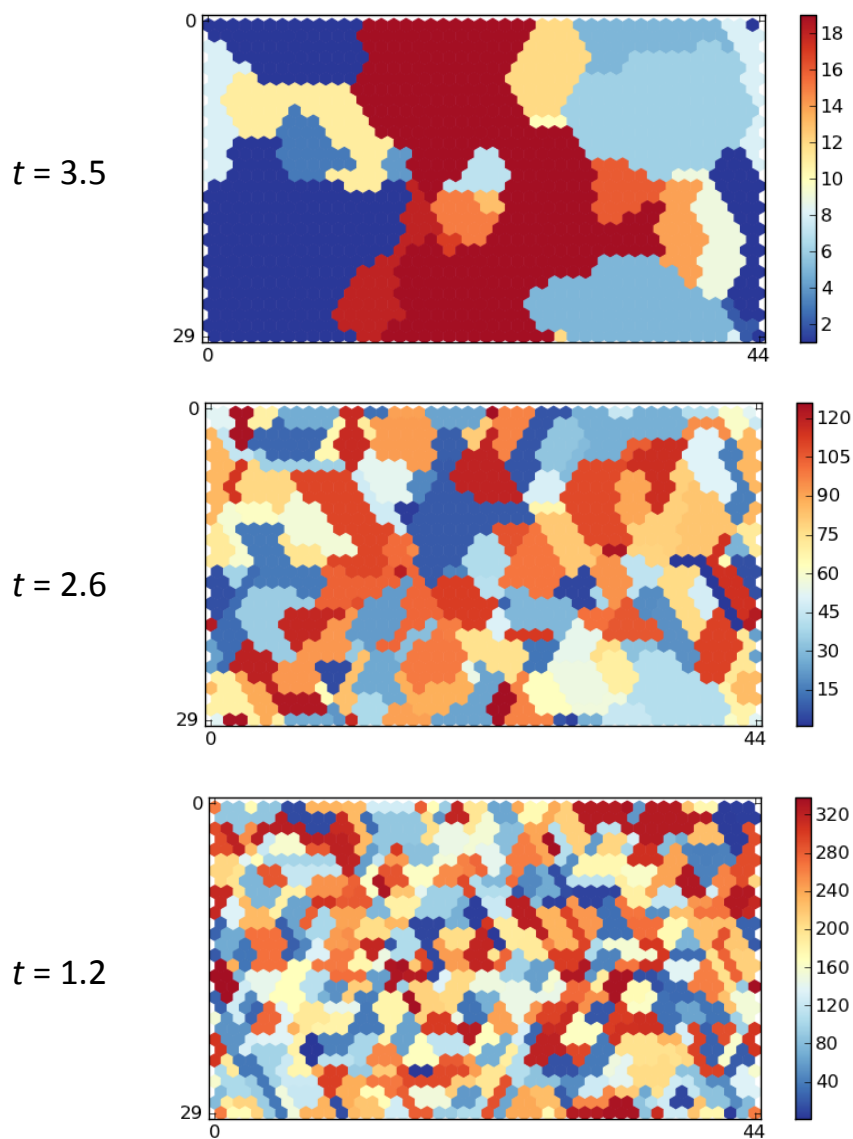
GM12878 RNA-seq



S4.



A



B