




RJA 1st Report

Pg 7

- ~~Logical to introduce epigenetics before then describing genome wide epigenomics~~
- ~~Give more precise ref for Waddington~~
 - o ~~Waddington C. H. (1942). The epigenotype. Endeavour 1, 18-20.~~
- ~~"Some consider..." too vague give reference~~
- ~~Generally put reference inserts at the end of a phrase or sentence to make reading easier particularly when not a superscript number style~~
- ~~"... an organism can generally be thought..." too vague what are the 'general' exceptions~~
- ~~200 cell types historic now see 2i in~~
 - o ~~https://www.humancellatlas.org/files/NIH_response_regev.pdf~~
~~and for further discussion~~
 - o ~~[http://www.cell.com/cell-systems/abstract/S2405-1712\(17\)30091-1](http://www.cell.com/cell-systems/abstract/S2405-1712(17)30091-1)~~
~~1~~
- ~~".. to list exhaustively here" too vague list major categories i) DNA modifications, ii) Histone Variants iii) PTM of Histone tails – and then describe each category~~
- ~~Histone Code include combinatorial methods > Segmentation~~


Pg 8

- ~~"likely DNA methylation." – too informal – be more definitive and include refs to support statements~~
- ~~the addition of methyl group at the 5 Carbon of cytosine – DNA methylation~~
- Be more explicate re non-CpG – how frequent – **where** –  orientate reader - with refs, etc.
- ~~Repeated sentence "probably most well studied" line 4~~
- Explain why DNA methylation easier to study than chromatin marks
- ~~Refs re mutability~~
 - o ~~Duncan BK, Miller JH. Mutagenic deamination of cytosine residues in DNA. Nature 1980~~
- Partial sentence starting "CpG islands..." 
- ~~"Dubbed" – too informal – "defined as"~~
- Logical order – discussing DMRs in CGI shores before within CGI themselves 


Pg 9

- ~~Figure meaning not clear enough~~



Pg 10

- ~~Orphan CGI need to include refs on alternate promoters~~
 - ~~Illingworth et al. (2010) Orphan CpG Islands Identify Numerous Conserved Promoters in the Mammalian Genome~~
 - ~~Maunakea et al. (2010) Conserved role of intragenic DNA methylation in regulating alternative promoters~~
- Details re CGI here need to come before CGI shores
- ~~Need to include Lister et al. (2009) and Schultz et al. (2015) Nature~~
- ~~Sentence structure "DNA methylation is highly dependent..."~~
- ~~SNP/CpG SNP influence on allelic methylation need to cite~~
 - ~~Kerkel et al (2008) Nat Genet~~
 - ~~Shoemaker et al (2010) Genome Res.~~
 - ~~Schalkwyk et al. (2010) AJHG~~
- transcription factors. "2.5" 



Pg 13

- "[@]"
- ~~"For other reviews see..." not appropriate in this context.~~
- Consistent capitalization "Regions" 
- ~~Definite re RRBS bias~~

Pg 14

- Example of epimutation
 -  Hypermethylation of ~~the~~ BRCA1 promoter has been identified in 10-15% of sporadic non-familial BC [Dobrovic et al. (1997) Cancer Res; Rice et al. (2000) Carcinogenesis]
- ~~Sentence structure "The divergence..."~~
- ~~"global" H4 H3 acetylation~~
- ~~"nice" - too informal~~
- ~~"This has allowed..."~~
- Incongruous lumping 2 studies from 1982 and 2006 together – what was first found what was later supported
- Christensen et al. – tissue type – include elsewhere as discussing ageing here 
- Rakyan et al. – include bivalent domains
- ~~"...490 significant DMRs" in fact incorrect nomenclature used in this paper they are DMPs only~~
- *A lot of history here – could reduce to strongest points – to reduce word count


Pg 16

- ~~Rakyan "et al." and Bocklandt "et al."~~
- ~~Affinito et al. in sentence~~
- Garagani et al. – not adding much 
- Describe Horvath study in more depth
- ~~"...Zachloul"~~
- ~~"quite a large number" too vague~~
- ~~"findings indicated that"~~
- Array bias in results
- ... linear." 

Pg 17

- Early studies not cell type corrected
- Need to have consistent direction otherwise not replication
- ~~Comparing non array to array studies needs to be pointed out~~

Pg 20/22

- Age variability need to cite
 - o Slieker et al. (2016) Genome Biology
- Much of this page is more appropriate for a Discussion section not Literature Review 
- "I hypothesise ..." not in Literature Review section
- ~~Best practice is to avoid singular personal pronoun in scientific writing as is seen as a collective endeavor (Horvath Genome Biol. being a notable exception!)~~
- ~~"capaciSty"~~
- ~~"This finding is in agreement with the finding..."~~