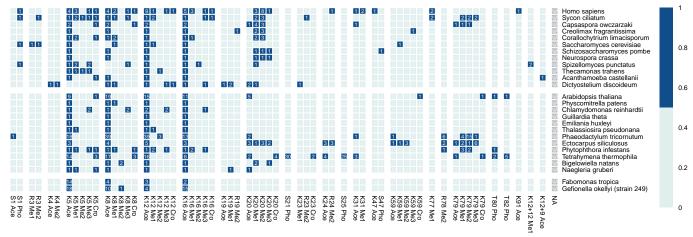
## Histone H3

1 6 2 2 3 3 1 1 4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1		3 5 5 5 3 4 4 4 5 4 2 3 4 4 4 4 2 3 4 4 4 4 2 3 4 4		3 3 5 3 2 3 2 4 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 4 1 2 2 3 3 2 2 2 1 1 11 1 11 1 2 2	9 4 3 1 2 3 3 3 2 2 1 1 1 1 1 1 1 2 2 1 2 1 2 1	6 1	12 8 15 17 3 3 4 6 11 2 3 2 2 2 1 1 1 1 1 1 1 1 1 2 4 5 2 1 4 9 1 2 1	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		13 23 48 19 1 2 20 9 8 1 1 6 7 8 1 5 5 6 1 7 7 1 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 4 5 5 5 2 5 1	24 8 4 27 2 6 3 8 1 1 3 1 3 1 1 3 4 1 1 3 1 1 1 3 2 8 4 1 2 1 2 6 4 1 1 1	0 1 5 0 0 1 0 0 0 0 0 0	1		1 1 1		1 5 2 1 2 3 4 2 4 4 4 3 4 4 3 1 1 1 1 1 1			Homo sapiens Sycon ciliatum Capsaspora owczarzaki Creolimax fragrantsisma Corallochytrium limacisporum Saccharomyces cerevisiae Schizosaccharomyces pombe Neurospora crassa Spizellomyces punctatus Thecamonas trahens Acanthamoeba castellanii Dictyostelium discoideum	0.8
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 2 1 1 1 2 3 3 3 1 1		5 1 7 7 2 1 4 4 6 1 2 2 3 1 3 2 1 4 4 6 5 1 5 3 3 2 1 3 2 2 1 4 4 6 6	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 1 7 13 6 1 1 1 1 6 1 1 1 2 2 6 6 1 14 7 4 24 1 51 34 1 5 2 3 11 9 8 5 7 5 3 1 8 5 5	8 1 5 3 1 1 5 3 1 2 1 1 3 7 2 4 11 2 29 3 1 3 1 7 2 4 1 4 1 2 1 3	1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 3 3 3 3 11 13 3 11 5 4 11	0		Arabidopsis thaliana Physcornitrella patens Chlamydomonas reinhardtii Guillardia theta Emiliania huxleyi Thalassiosira pseudonana Phaeodactylum tricornutum Ectocarpus siliculosus Phytopthora infestans Tetrahymena thermophila Bigelowiella natans Nægleria gruberi	0.4
4 3 4 K4 Me2 K4 Me1 K4 Ace	5 42 8 42	7 2 3 K9 Cro K9 Me3 K9 Me2 K9 Me1 R8 Me2		44444	K18 Cro K18 Me3 K18 Me1	K23 Cro K23 Me3 K23 Me1 K23 Ace		4 1 K27 Cro K27 Me3 K27 Me2 K27 Me1 K27 Ace	S28 Pho	K34 Me1	1 9 1 K36 Cro K36 Me3 K36 Me2	K37 Cro K37 Me3 K37 Me2 K37 Me1 K37 Ace		T45 Pho	R53 Me2 K53 Me1 K53 Ace		K64 Me1 K64 Ace	K79 Cro K79 Me3 K79 Me2 K79 Me1 K79 Ace	~	K122 Me1 K122 Ace	Fabomonas tropica Gefionella okellyi (strain 249)	0





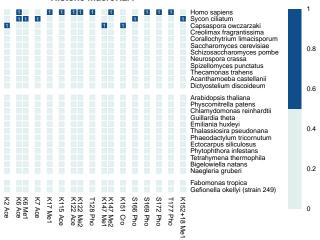
## Histone H2A

0 E0 0 2502 2 5022 50022 00 0 0 0 0 0	22 22 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00002 28 032 8 7 02 000 000 0 5 0 2 8 2 0 0 0 0 5 2 2 2 0 0 0 0 0 0 0 0 0 0 0	2	Homo sapiens Sycon ciliatum Capsaspora owczarzaki Creolimax fragrantissima
	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $			Corallochytrium limacisporum Saccharomyces cerevisiae 0.8
		100000 000000 00 002 000000 0 000 000 0 0 0 0 0 0 0 0 0 0 0		Saccharomyces cerevisiae Schizosaccharomyces pombe Neurospora crassa
000 23001 000 24000 00001 00 0 000				Spizellomyces punctatus Thecamonas trahens
0 0 02 0 02 00				Acanthamoeba castellanii
1 0 0 0 6 1 2 0 3 2 3 0 0 0 0 0 0 0 0 2 2				☐ ☑ Dictyostelium discoideum 0.6
				Arabidopsis thaliana Physcomitrella patens
				Chlamydomonas reinhardtii
				Chlamydomonas reinhardtii Guillardia theta Emiliania huxleyi
				M Thalassiosira pseudonana U.4
1 1 2 1 3 3 2 2 1 2		3 6 5 4		Ectocarpus siliculosus
00 0 00000 000 10000 000000 00 0 100				Phaeodactylum tricornutum Ectocarpus siliculosus Phytophthora infestans Tetrahymena thermophila
				Bigelowiella natans Naegleria gruberi 0.2
00 0 M0001 000 60001 000000 00 0 500	<b></b>			
$ \begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 4 & 0 & 0$	0 0 00 00000 00000 0 0 0000 00 000 000 000 00 00 0			Fabomonas tropica Gefionella okellyi (strain 249)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	K118 Ace K113 Me1 T101 Pho K99 NA K99 NA K99 NA K99 NA K74 CA K74 NA K74	XXXXXX XXXXXXX 19 XXY XXXXXXX X XXX XXXX X	2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- Α
Mega Anel Anel Anel Anel Anel Anel Anel Anel		:558888		- 0 >
		-130 -130 -130 -130 -130 -130 -130 -130	Cro Cro Pho Ace	Ĉ e
		130 Cro 130 Me3 130 Me3 130 Me2 130 Me1 130 Me2 130 Me1 130 Me2 130 Me1 130 Me3 130 Me	Pho Pho	
		e 222 23 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27		

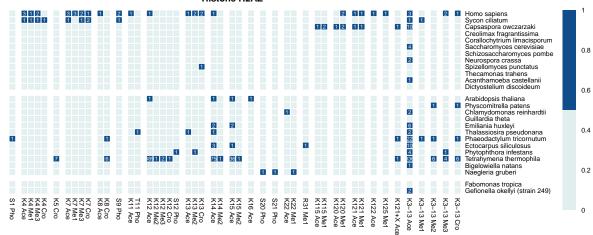
## Histone H2B

2 1 7 8 4 1 2 3 1 8 5 2			1 1	1 3 6 11 7 1 11 1 11 1				2 3 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 1 1 0 0 0 0 0 0	1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2				5 3 12 4 2 4 1 1 4 5 1 2 2	0 0	3 2 1 1	2 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Homo sapiens Sycon ciliatum Capsaspora owczarzaki Creolimax fragrantissima Corallochyrium limacisporum Saccharomyces cerevisiae Schizosaccharomyces pombe Neurospora crassa Spizellomyces punctatus Thecamonas trahens	0.8
							0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 1 1 0 0																					2 3	0 0				Acanthamoeba castellanii Dictyostelium discoideum	0.6
2 2 8	10123	2 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 2 0 0	1 2 1 4				1 0 0 0 0 2 0 0 0 4 0 1	0 0 0 0 0 0 0 0 1 0 0	0 0	0 0 0 0 0 0 0 0 0 4 0 0								0 0 0 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 1 0		0 0 0 0 0 0 0 0 0 0 0 0 <b>1</b> 0 0 0							11 22 79	2 0 50 1	3 4 0 86	0 0 0	5 1	Arabidopsis thaliana Physcomitrella patens Chlamydomonas reinhardtii	
1 1 2 1 1 33 56 20	1 3 2 13 2		18 2	1 21			0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	5 0 0 1 4 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0					1 0 0	1	1	0 0 0 0 0 0 0 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 1 0 0									2 5 17 5 0					Guillardia theta Emiliania huxleyi Thalassiosira pseudonana Phaeodactylum tricornutum Ectocarpus siliculosus Phytophthora infestans	0.4
2 2 1				2								1	1 0		0 0						0		0 0			4	2	0 0	0 3	3 0	3			Tetrahymena thermophila Bigelowiella natans Naegleria gruberi	0.2
						0	1 1 <u>0</u> 0 0 0																						1 0	0 0				Fabomonas tropica Gefionella okellyi (strain 249)	
K5 Cro K5 Me3 K5 Me2 K5 Me1 K5 Ace	X11 Me3 X11 Me2 X11 Ace X10 Ace	NNN	K15 Me3 K15 Me3 K15 Me1 K15 Ace	K16 Me3 K16 Me2 K16 Me1 K16 Ace	9		K26 Me3 K26 Me1 K26 Ace	K27 Me3 K27 Me2 K27 Me1 K27 Ace	K28 Me3 K28 Me2 K28 Me1 K28 Ace	K29 Me1 K29 Ace	K30 Me3 K30 Me2 K30 Me1 K30 Ace	K31 Me1 K31 Ace	K34 Ace K32 Me1	S36 Pho K36 Me2	K46 Ace K43 Ace	T52 Pho	K57 Ace S55 Pho	K79 Me1 K79 Ace	K85 Cro K85 Me3 K85 Me1 K85 Ace	K86 Cro K86 Me3 K86 Me1 K86 Ace	K108 Me1	X116 Cro X116 Me3 X116 Me2 X116 Me1 X116 Ace	K120 Ace T119 Pho	22 22		25+X		30+R	K3-27-I Me1 K3-27-I Ace	R3-27-I Me2 K3-27-I Me2	7 7	i i i	K3-27-I Pho		0

## Histone macroH2A



### **Histone H2AZ**



# Histone H1

