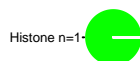
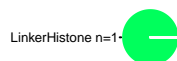


### Histones gain in Holozoa



N=1 at  $p \geq 0.50$

### Histones gain in Deuterostomia



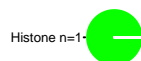
N=1 at  $p \geq 0.50$

### Histones gain in Tardigrada



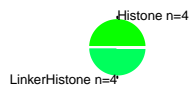
N=4 at  $p \geq 0.50$

### Histones gain in HydScyCubozoa



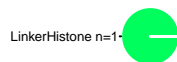
N=1 at  $p \geq 0.50$

### Histones gain in Metazoa



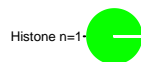
N=8 at  $p \geq 0.50$

### Histones gain in Vertebrata



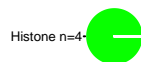
N=1 at  $p \geq 0.50$

### Histones gain in Annelida



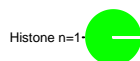
N=1 at  $p \geq 0.50$

### Histones gain in Hydrozoa



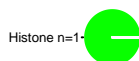
N=4 at  $p \geq 0.50$

### Histones gain in BilCnITri



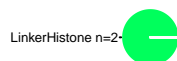
N=1 at  $p \geq 0.50$

### Histones gain in Hemichordata



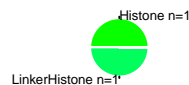
N=1 at  $p \geq 0.50$

### Histones gain in Platyhelmintha



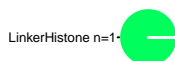
N=2 at  $p \geq 0.50$

### Histones gain in Porifera



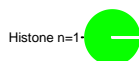
N=2 at  $p \geq 0.50$

### Histones gain in Bilateria



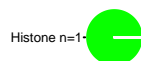
N=1 at  $p \geq 0.50$

### Histones gain in Pancrustacea



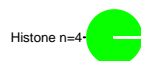
N=1 at  $p \geq 0.50$

### Histones gain in Scleractinia



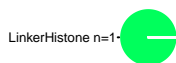
N=1 at  $p \geq 0.50$

### Histones gain in Calcarea



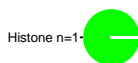
N=4 at  $p \geq 0.50$

### Histones gain in Choanoflagellata



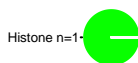
N=1 at  $p \geq 0.50$

### Histones gain in Amoebozoa



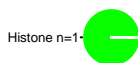
N=1 at  $p \geq 0.50$

### Histones gain in Euphyllophyta



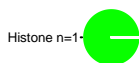
N=1 at  $p \geq 0.50$

### Histones gain in Labyrinthulea



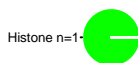
N=1 at  $p \geq 0.50$

### Histones gain in Ichthyophonida



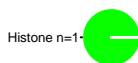
N=1 at  $p \geq 0.50$

### Histones gain in Eumycetozoa



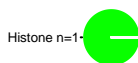
N=1 at  $p \geq 0.50$

### Histones gain in Spermatophyta



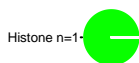
N=1 at  $p \geq 0.50$

### Histones gain in Alveolata



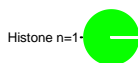
N=1 at  $p \geq 0.50$

### Histones gain in Fungi



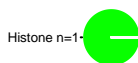
N=1 at  $p \geq 0.50$

### Histones gain in Malawimonadidae



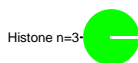
N=1 at  $p \geq 0.50$

### Histones gain in Trebouxiophyceae



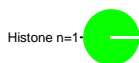
N=1 at  $p \geq 0.50$

### Histones gain in Dinoflagellata



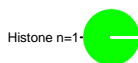
N=3 at  $p \geq 0.50$

### Histones gain in Blastocladiomycot



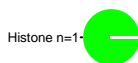
N=1 at  $p \geq 0.50$

### Histones gain in Streptophyta



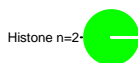
N=1 at  $p \geq 0.50$

### Histones gain in Rhodophyta



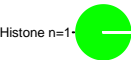
N=1 at  $p \geq 0.50$

### Histones gain in Ciliata



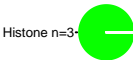
N=2 at  $p \geq 0.50$

Histones gain in Discoba



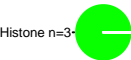
N=1 at  $p \geq 0.50$

Histones gain in Metamonada



N=3 at  $p \geq 0.50$

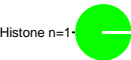
Histones gain in Euglenozoa



- Karyothread\_1
- KDC1\_ZBTB1
- KDC2\_ZIMMETS
- KPF
- KSP1\_KSP1\_insp\_insp
- KMT1
- KMT
- KMT2A
- KMT2B
- KMT2C

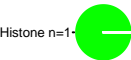
N=3 at  $p \geq 0.50$

Histones gain in Andalucina



N=1 at  $p \geq 0.50$

Histones gain in Histonina



N=1 at  $p \geq 0.50$