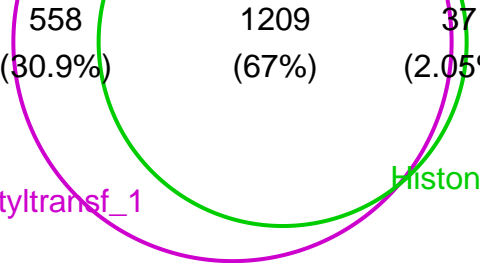


Acetyltransf\_1 | Archaea taxon

Jaccard = 0.67



GNAT\_acetyltr\_2 | Archaea taxon

Jaccard = 0.40

histone

GNAT\_acetyltr\_2

669

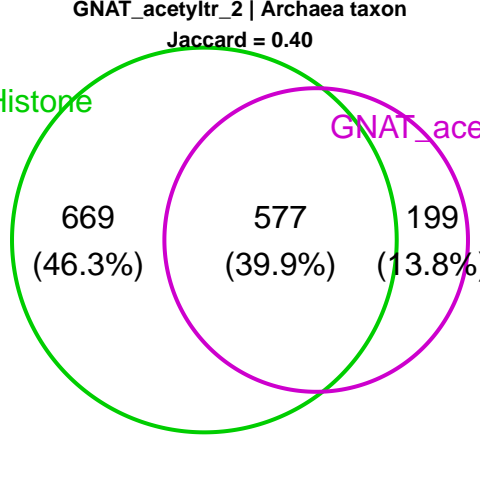
(46.3%)

577

(39.9%)

199

(13.8%)



Hist\_deacetyl | Archaea taxon

Jaccard = 0.58

Histone

Hist\_deac

373

(24.8%)

873

(58%)

258

(17.2%)



SIR2 | Archaea taxon

Jaccard = 0.36

histone

SIR2

730

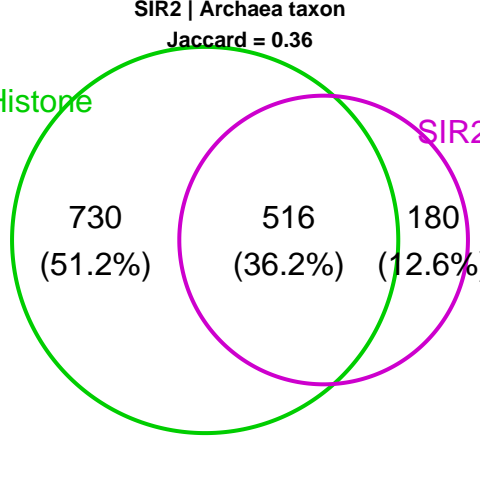
(51.2%)

516

(36.2%)

180

(12.6%)



DOT1 | Archaea taxon

Jaccard = 0.13

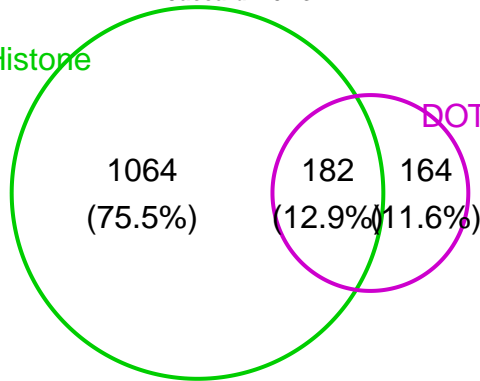
histone

1064  
(75.5%)

182  
(12.9%)

DOT

164  
(11.6%)



SET | Archaea taxon

Jaccard = 0.07

Histone

1152  
(90.5%)

94 27  
(7.38%) (2.12%)

SE

CupinJmjC | Archaea taxon

Jaccard = 0.01

Histone

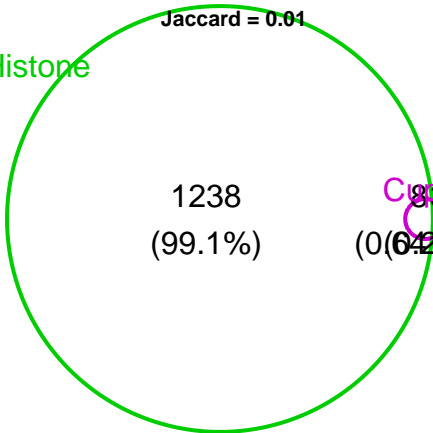
1238

(99.1%)

CupinJmjC

83

(0.6424%)



ING | Archaea taxon

Jaccard = 0.00

Histone

3ING 1243

(0.241%)(99.8%)



MBT | Archaea taxon

Jaccard = 0.00

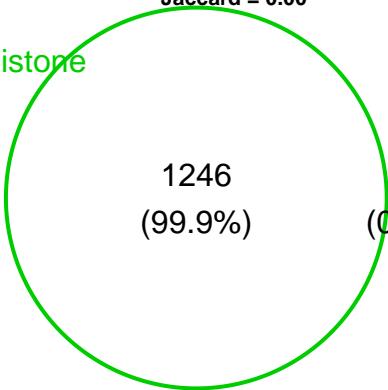
histone

1246

(99.9%)

1 MB

(0.0802)



PWWP | Archaea taxon

Jaccard = 0.00

histone

PWWP 1244  
2  
(0.161%)(99.8%)

SNF2\_N | Archaea taxon

Jaccard = 0.52

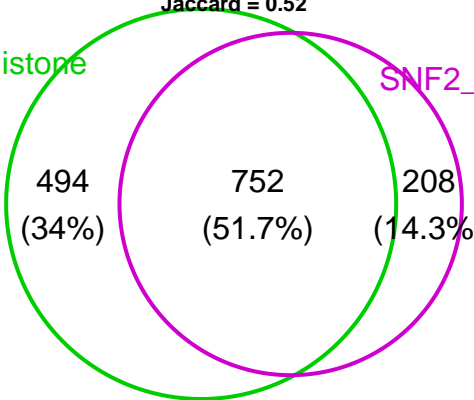
histone

SNF2\_N

494  
(34%)

752  
(51.7%)

208  
(14.3%)



ASF1\_hist\_chap | Archaea taxon

Jaccard = 0.00

histone

ASF12hist\_chap  
(0.161%)(99.8%)

Acetyltransf\_1 | Actinobacteria taxon

Jaccard = 0.00

Acetyltrans

Histone

10

5247

(0.19%) (99.8%)

GNAT\_acetyltr\_2 | Actinobacteria taxon

Jaccard = 0.00

istone

10  
(100%)

GNAT\_ac

0  
(0%)

Hist\_deacetyl | Actinobacteria taxon

Jaccard = 0.00

2643

(99.6%)

46

(0.18%)

\_deacetyl

SIR2 | Actinobacteria taxon

Jaccard = 0.00

4069  
(99.8%)

73  
(0.073%)



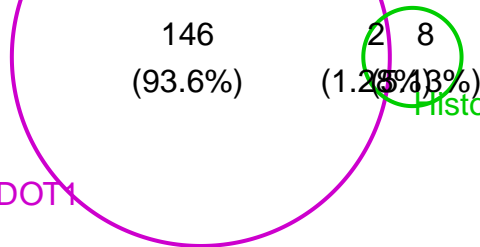
His

SIR2



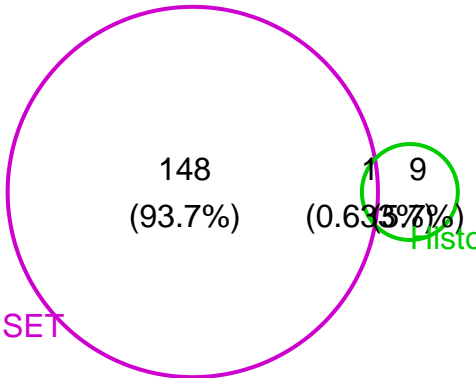
DOT1 | Actinobacteria taxon

Jaccard = 0.01



SET | Actinobacteria taxon

Jaccard = 0.01



CupinJmjC | Actinobacteria taxon

Jaccard = 0.00

1704

(99.4%)

37

(0.1459%)

CupinJmjC

ING | Actinobacteria taxon

Jaccard = 0.00

istone

10  
(83.3%)

INC

2  
(16.7%)

MBT | Actinobacteria taxon

Jaccard = 0.00

istone

10  
(100%)

MB

0  
(0%)

PWWP | Actinobacteria taxon

Jaccard = 0.00

istone

10  
(100%)

PWW

0  
(0%)

SNF2\_N | Actinobacteria taxon

Jaccard = 0.00

4591

(99.8%)

73

(0.00152%)

SNF2\_N

ASF1\_hist\_chap | Actinobacteria taxon

Jaccard = 0.00

istone

10

(90.9%)

ASF1\_hist

1

(9.09%)



Acetyltransf\_1 | Bacteroidetes taxon

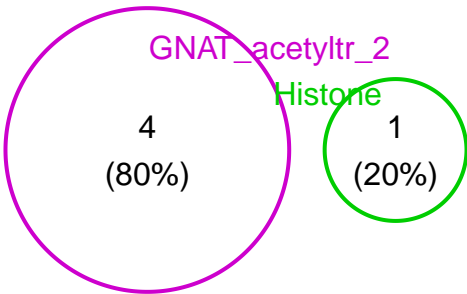
Jaccard = 0.00

Acetyltrans

Histone 1 2302  
(0.0434%)(100%)

GNAT\_acetyltr\_2 | Bacteroidetes taxon

Jaccard = 0.00



Hist\_deacetyl | Bacteroidetes taxon

Jaccard = 0.00

Hist\_deacetyl

1009  
(99.9%)

Histone  
1  
(0.099%)

SIR2 | Bacteroidetes taxon

Jaccard = 0.00

SIR2

Histone 1 1947  
(0.0513% (99.9%))

DOT1 | Bacteroidetes taxon

Jaccard = 0.00

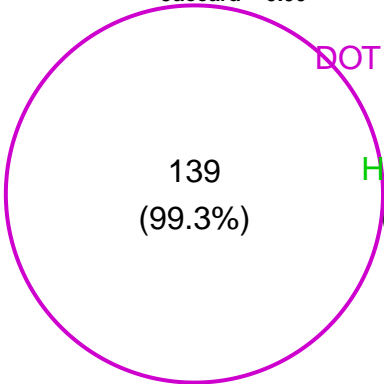
DOT1

139

(99.3%)

Histone

(0.714%)



SET | Bacteroidetes taxon

Jaccard = 0.00

SET

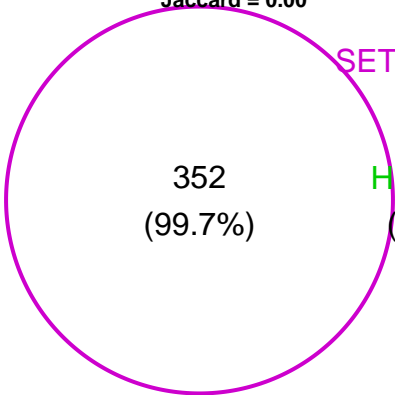
352

(99.7%)

Histone

1

(0.283)



CupinJmjC | Bacteroidetes taxon

Jaccard = 0.00

CupinJmjC

1178  
(99.9%)

Histone  
(0.084)

ING | Bacteroidetes taxon

Jaccard = 0.00

stone

1

(50%)

ING

1

(50%)



# MBT | Bacteroidetes taxon

Jaccard = 0.00

istone

1  
(100%)

MB

0  
(0%)

# PWWP | Bacteroidetes taxon

Jaccard = 0.00

istone

1

(100%)

0

(0%)

PWWP

SNF2\_N | Bacteroidetes taxon

Jaccard = 0.00

SNF2\_N

Histone 1 1547  
(0.0646% (99.9%))

# ASF1\_hist\_chap | Bacteroidetes taxon

Jaccard = 0.00

istone

1

(100%)

ASF1\_hist

0

(0%)

Acetyltransf\_1 | Firmicutes taxon

Jaccard = 0.00

Acetyltrans

Histone

16

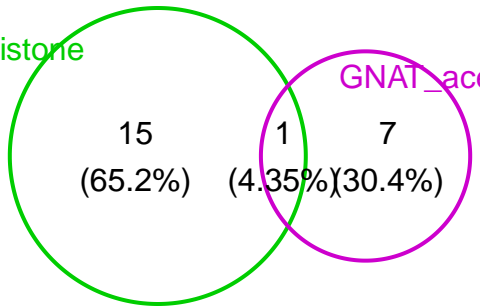
4644

(0.343%)(99.7%)

GNAT\_acetyltr\_2 | Firmicutes taxon

Jaccard = 0.04

istone



Hist\_deacetyl | Firmicutes taxon

Jaccard = 0.01

1373  
(98.8%)

97  
(0.6456%)

Hist\_deacetyl

Firmicutes

SIR2 | Firmicutes taxon

Jaccard = 0.01

2648

(99.4%)

151

(0.533%)

Firmicutes

SIR2



DOT1 | Firmicutes taxon

Jaccard = 0.01

510  
(97%)

610  
(1.1%)  
(1.1%)  
Firmicutes

DOT1

SET | Firmicutes taxon

Jaccard = 0.01

504

(96.9%)

79

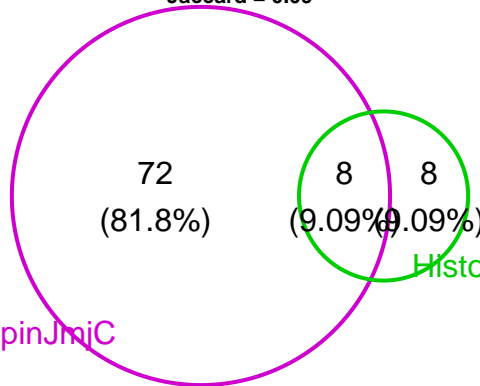
(1.0573%)

Firmicutes

SET

# CupinJmjC | Firmicutes taxon

Jaccard = 0.09



ING | Firmicutes taxon

Jaccard = 0.04

istone

ING

15

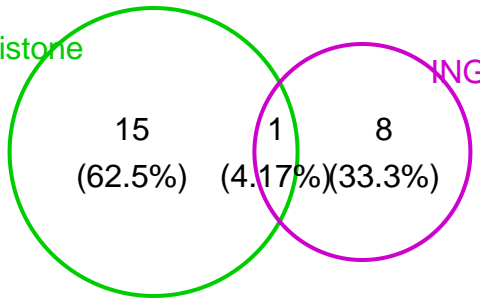
(62.5%)

1

(4.17%)

8

(33.3%)



# MBT | Firmicutes taxon

Jaccard = 0.00

istone

16  
(100%)

MB

0  
(0%)

PWWP | Firmicutes taxon

Jaccard = 0.06

histone

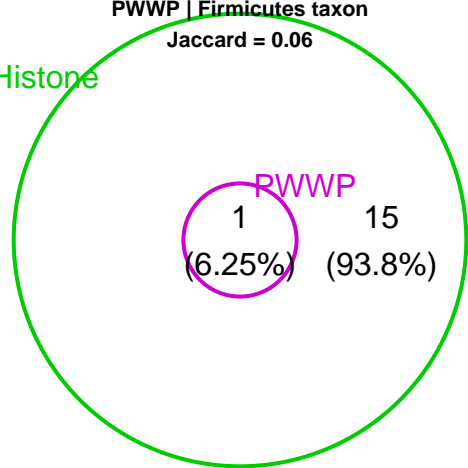
PWWP

1

15

(6.25%)

(93.8%)



SNF2\_N | Firmicutes taxon

Jaccard = 0.00

SNF2\_N

Histone



3685

(0.432%)(99.6%)

ASF1\_hist\_chap | Firmicutes taxon

Jaccard = 0.00

istone

16  
(100%)

ASF1\_hist

0  
(0%)



Acetyltransf\_1 | Proteobacteria taxon

Jaccard = 0.00

10484

(99.8%)

22

(0.2%)

tyltransf\_1

GNAT\_acetyltr\_2 | Proteobacteria taxon

Jaccard = 0.00

2122

(98.9%)

815

(0.375%)

\_acetyltr\_2

Hist\_deacetyl | Proteobacteria taxon

Jaccard = 0.00

7012  
(99.7%)

14  
(0.19%)

\_deacetyl

SIR2 | Proteobacteria taxon

Jaccard = 0.00

6037

(99.6%)

16

(0.26%)

SIR2

DOT1 | Proteobacteria taxon

Jaccard = 0.01

1243

(98.2%)

716

(0.552%)

DOT1

F15c

SET | Proteobacteria taxon

Jaccard = 0.00

2038

(98.9%)

815

(0.3829%)

SET

Proteobacteria

CupinJmjC | Proteobacteria taxon

Jaccard = 0.00

5596

(99.6%)

16

(0.3%)

CupinJmjC

ING | Proteobacteria taxon

Jaccard = 0.00

istone

23  
(82.1%)

INC

5  
(17.9%)



MBT | Proteobacteria taxon

Jaccard = 0.00

istone

23  
(95.8%)

1 MB  
(4.17%)

# PWWP | Proteobacteria taxon

Jaccard = 0.00

istone

23  
(100%)

PWW

0  
(0%)

SNF2\_N | Proteobacteria taxon

Jaccard = 0.00

6486

(99.6%)

16

(0.25%)

SNF2\_N

ASF1\_hist\_chap | Proteobacteria taxon

Jaccard = 0.00

istone

23  
(100%)

ASF1\_hist

0  
(0%)

Acetyltransf\_1 | Spirochaetes taxon

Jaccard = 0.01

Acetyltrans

Histone

2

133

(1.48%) (98.5%)

GNAT\_acetyltr\_2 | Spirochaetes taxon

Jaccard = 0.00

istone

2

(100%)

GNAT\_ac

0

(0%)

Hist\_deacetyl | Spirochaetes taxon

Jaccard = 0.02

Hist\_deac

Histone

2

87

(2.25%) (97.8%)

SIR2 | Spirochaetes taxon

Jaccard = 0.02

SIR2

Histone

2

117

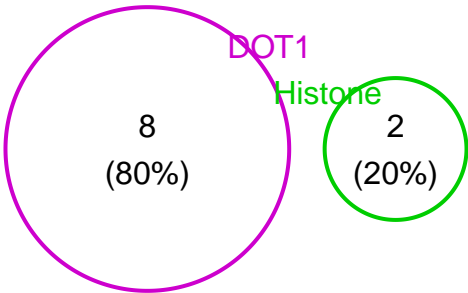
(1.68%)

(98.3%)



# DOT1 | Spirochaetes taxon

Jaccard = 0.00



SET | Spirochaetes taxon

Jaccard = 0.03

SET

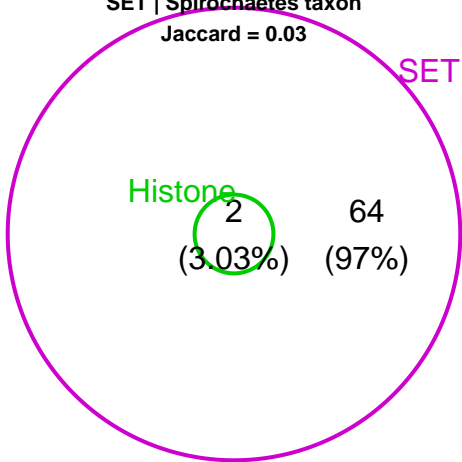
Histone

2

(3.03%)

64

(97%)



# CupinJmjC | Spirochaetes taxon

Jaccard = 0.00

stone

2

(50%)

CupinJ

2

(50%)

ING | Spirochaetes taxon

Jaccard = 0.00

stone

2

(66.7%)

1

(33.3%)

ING

**MBT | Spirochaetes taxon**

**Jaccard = 0.00**

istone

2  
(100%)

MB

0  
(0%)

# PWWP | Spirochaetes taxon

Jaccard = 0.00

istone

2  
(100%)

PWW

0  
(0%)

SNF2\_N | Spirochaetes taxon

Jaccard = 0.02

SNF2\_N

Histone

2

126

(1.56%)

(98.4%)

ASF1\_hist\_chap | Spirochaetes taxon

Jaccard = 0.00

istone

2

(100%)

ASF1\_hist

0

(0%)