

G
(3)

fi

f

8

2 4

4 8

8 16

Handwritten musical notation consisting of three staves. The notation includes various notes, rests, and dynamic markings such as *ff* and *ff*. The first staff begins with a treble clef and a key signature of one flat. The second and third staves continue the musical piece with similar notation.

“ 4 5 ”

， 4

Handwritten musical notation consisting of a dense field of notes, rests, and other symbols. The notation is arranged in a grid-like pattern across the page. Key symbols include:
 - Vertical stems with flags or beams, often appearing in groups.
 - Small horizontal lines, possibly representing rests or specific note values.
 - The number '4' appearing multiple times, likely indicating a measure or a specific rhythmic value.
 - The letter 'f' appearing in several locations, possibly as a dynamic marking.
 - The letter 'i' appearing in several locations, possibly as an articulation or phrasing marking.
 - Various other symbols and markings that are difficult to identify precisely due to the density and style of the handwriting.
 The overall appearance is that of a complex musical score or a highly detailed rhythmic diagram.

Handwritten musical notation consisting of a single line of notes and rests. The notation includes various rhythmic values such as quarter notes, eighth notes, and rests, with some notes marked with a '4' above them. The notes are scattered across the line, with some appearing in groups and others in isolation.

Handwritten musical notation consisting of a single line of notes and rests. The notation includes various rhythmic values such as eighth and sixteenth notes, as well as rests. Some notes are marked with dynamic or articulation symbols like 'ff' and '4'. The notation is dense and spans the width of the page.

Handwritten notes or symbols, possibly including the number 4 at the end.

8 822 2 24 8

2 8 822 8 8 8 8

822 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

... 4 ...
... fi, ...
... fi, ...

Abbreviations:

ARTICLE HISTORY

...
...

F E1/DFC 1	69
17	70
EC 1	70
6.	70
7.	70
8. fi A G	73
9. A	73
10. C. fi	74
A	77
A	77
A	77
C	81
C	82
F	82
I	82
L	83
L	83
.....	83
.....	83
.....	83
A	84
.....	84
.....	84
.....	86
11. A	86
12.	86
13. A	87
14.	88
15. A	89
16. C	92
17. C	93
18. C	94
19. C	97
B. Comments on additional methods	97
1. A	97
2. A	98
3. B	103
4. E	103
5.	103
C. Methods and challenges of specialized topics/model systems	103
1. C	104

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... fi ...
... (B)- ...)⁵⁶
L. / ... (A
AL) ...
... (F, . 3A , B);^{48,53}
... fi ...
... Et ...
... fi ...
... E
AC 2 ... 2, ...)^{57,58}
...)⁵⁹
...
...)⁶⁰
L. / ...

... /
...
...^{48,53} A ...⁵⁴
fi ...)⁵⁵
... (A)

GF
GF
G (G) fl fl
GF
CLE
E ⁸⁷ C
fl
(F)-GF -LC3 (F / C - F
fl () E

Conclusion: E

fi
E
E

2. A 8/ C3

fi

A, 8/LC3

I

. Western blotting and ubiquitin-like protein conjugation systems

A, 8/LC3

E (137). I
A, 8- E.

A 1LC3/LC3 GABA_A 2
LC3A, B, B2 C,
GABA_A , GABA_A L1 GABA_A L2/GA E-16.¹³⁸

A.
A G4B,^{139,140}
LC3-I LC3-II,

GABA_A GABA_A - E, E-
A, 8/LC3, D - AGE,

A, 8/LC3-I
(16-18 / D) A, 8- E/LC3-II (14-16 / D).

LC3
fi

... (...) ... E-64 ...
... CI; ... A; ... H₄C
... 161,162 ... 160 ... 158,163,164 ... A₁ ...

LC3 (F. 6);^{26,165}

LC3-II

D KD
-FLAG
-FLAG 2
LC3C,
FLAG-
(.B, L.E
)
E
C3C
I
A, 8 GABA_tA
)^{141,209} C B I 3L/
I GABA_tA
LC3 ^{210,211} F
GABA_tA L1 GABA_tA, ^{138,143}
-GABA_tA L1
D - AGE
(15%), GABA_tA
GABA_tA L1 (.B, -G
; F, 4 ¹⁴³). B GABA_tA
GABA_tA L1
GABA_tA -I GABA_tA L1-I

...
...
(B. L. ...). I ...
...
... (...)
...
...

I have received 1 copy of the report of the 10 μ₂ / E-64
- - - - -
- - - - -
- - - - -

... 2017/10/10 ... fi-
(E₁, 8B,C).^{37,257} H₁ ...

H EGF
GF -LC3 269
EGF
A
GF 263
D A
GF
5
D - AGE.

47 | ... (H L ...) | GF -LC3 ... 1 ...
48 | ... H- 5 ... GF -LC3 ...

...fi ...fi ...
...A...
...GF-LC3
...I...
...

Table 1.

1 2 3 4 5

1

2

1

F / C -GF
 fl
 343 I
 341 fl
 LC3- C

LC3-II

A. GF-LC3
(Bk 1
1³⁶⁴). GF-1
GF-Bk 1
GF-1
GF-5
GF-1; E.
365

Conclusion:

(F. 14).
GF-LC3
A.

... .. A K

LK1
LK1 A K
Conclusion: A, A, 1/ LK1

. ATG14

.. A, 14 34 -
I, ⁵⁴⁵ A G14/A G14L/BA -
K ⁵⁴⁶⁻⁵⁴⁹ A G14
C
BA GF BEC 1.
⁵⁵⁰ A G14-GF
BA -GF E
A G14 A G14
E. ^{550,551} A
A G14. A
A A

fi

. STX17

624,629,1704
A
(LC3 GABA_A)
630
H3
631
A
I ()
632
D
322,633
561
GLI3
K_A
E 300/ 300
634
A
CLEA_A ()
625,635,636
FEB
CLEA_A
2
FEB
A 16

8.

fi

A

8Δ60

8

fi
677

A

fi 60

fi

(8Δ60)

Er

261

(13)

Cautionary notes:

3

678

FI C fi. GF () fl
553,683,689-691 I
2 H_v 1
2 H_v 1
(F_v . 20).⁵⁰⁸ I
692 C

GF -A, 8/LC3

GF - 1/ 1

1-GF GF

GF

I fl

C

(L -

C)

I 8.

D.

719.

(L)

fi

(20-24)

720 L

I 8

I. A.

A.

L, A, II

34-

I, 3K

I

(())

()

720 D

1-E F

AB35-D. 3

(AB35

2 t A-

D. 3

H-

fi

()

L

F

L

720

fi

100

A

B

GF

A

721

I

723

I

fi

H, (A)
GF
0 6(J-2.59892-1.2007 D , ,)140.2(,)-21.59(02(,)-38(,)

(w
fi
IH I J. 58 I
761.762 E
G₂ (fl
D A (D A). A
G₂ - D₂ (ADH
2) D A:

... A ...
... H ...
... A G8 ... 799,800 I ...
... (CB) ... A II
... (A I-),
799,801

... I ...
... 811 ... 812 ...
... D ... 813 ... B ...
... 814 ... A ...
... A ...

(D. K... LC3

. Zymophagy

909

910

L

2

E

1-EGF C LC3 GF F-LC3 fl

D -B A
 F D -B A
 GF -LC3
 (D -B A)
 ()
 F -LC3 L G
 (B K.A. H)
 C -LC3 L B 332
 LC3 LA 1 (K)
 CD63³³¹
 H-
 K 760
 LC3

Cautionary notes:

(3- A)
 (AB7)
 D -B A
 (931)

“B” “D”
946,947 D

LC3 fl
IHC fl
197,958-964
IHC
1, B1, I
C3 fl
B
G 2 (2)
I G 2
I 1 (1,4,5-
C 2+
fl
A1 fl
4
967,968
950,969 970
12 971,972
I
fl
153,974-976
()
A

1038,1039

217,1040,1041

2

1042

H,

...). () A ... C ... ()
... () ... fi ...
...¹⁰⁸⁶ C ... () ...
...
...¹⁰⁸⁷ I ...
... “ ... ” ...
... “ ... ” ... ()
... fi ... A ...
... “ ... ” ...
... “ ... ” ...
... I ...
...
...^{1088,1089} F ...
... (...) ...
... (...)^{1090,1091} ...
... (...)¹⁰⁸⁸ ...

... C A (...)
... H₁ ...
... C A ...
... A ...
... H A8 ...
... 948 ...
... H A8. D ...
... H A8 ...
... LA 2A.¹¹⁰⁸ D ...
... LA 2A (... 1 ... 3 ...)
... LA 2 ... C A^{92,1109} ...
... LA 2A, ...

E C A I , II (, , 4 , G101) w r r - I .
C A . () I . w r r - C A ,
I . w r r - I . w r r - I .
C A . () I .
I .
C A .

A .
C A (CA A).¹¹¹⁶
CA A H A8 LA 2 (LA 2A).
2 fi
C A . I .
LA 1 LA 2 .
I 2 /
fi ¹¹¹⁷ I C A , LA 2
^{1118,1119} LA 2C, LA 2
A/D A
D A D A ¹¹²⁰⁻¹¹²³
LA 1 LA 2 fi
C A ¹¹¹⁷
C A .
LA 2. ^{1120,1124,1125}

Conclusion:

C A
C A . fi
C A -
fi

19. C

CA A fi
¹¹¹⁶

L... .. L... .. D.
(F... 26).^{279,280} H... ..
GF -A, 8/LC3 fl... .. E... ..
... .. LA
w... ..

1. A. $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$

B. $\text{CH}_3\text{COCH}_2\text{CH}_2\text{COCH}_3$ (2,4-dihydroxy-6-methylheptan-3-one) $\text{H}_2\text{C}=\text{C}(\text{OH})\text{CH}_2\text{COCH}_3$ (A₁)
 $\text{CH}_3\text{COCH}=\text{CHCOCH}_3$ (H₂) $\text{CH}_3\text{COCH}_2\text{CH}=\text{CH}_2$ (H₃)

11/11/2020 10:11:11 AM

K11/LKB1-A K. ^{935,936,1216} C

^{504,1217-1219} I

¹²²⁰

FDA-

1,4,5-

^{1221,1222} I

⁹⁵⁶ A

E

^{297,1175,1223,1224}

C

(AAD)

C

ED-19,

BA A,

¹²²⁵ C

FLI

-B 1 (-BEC 1),

^{1216,1227}

BH3D

BH3D,

BCL2-BEC 1

¹²²⁷

¹²²⁸

¹²²⁹

¹²³⁰

C1

C1

I-3K

... .. A
... ..

... I ...
... fl ...
... fl ...
... 3 ...
E ... [39-41](#) ...

1. C.

C. ... A ...

6KB

1277 F D 40

D 40

3'

128b B C fl C

3. C

C

A

A 8 A 12

A

C A 8

292

L A 8 fl C

A 8

A 8

292,1281,1282 F

A 8 A

1281 C

C

()

E

292,1281,1282

4. D

D

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... A I
... A 8 ... C. ¹³⁰² ... A I
... A ... A
... A ... A
... A ... fi. ¹³¹⁸ I
... A, 8- ... D. 2, ...
... ²⁷⁶ I. A. ...
... "GF -A, 8
... GF -A, 8.
(...)
... GF -A, 8- ...
... I. A. ...
... A " b ...
... " A ...
... "fi" ... ¹³¹⁹ G ...
... 7- ... H ... 7 ...
... B/t 5- C t E - fi
¹³¹⁹ A ... fi ... /t 1 ...
... A. ... (...)
... fi ...

2
1344 A
 30 ± 20 fl
-80°C. 1061

A) 6KB EIF4EB 1
H A
I, 1354,1355
A, 1352,1353

11.

A ()
fl)
()

... w... | ... I... | ... fi ...
... w... | ... I... | ... w... | ...
... w... | ... (E) ...
... w... | ... E ...
... w... | ... I...
... w... | ... I...
... w... | ... 1384 I...
... w... | ... 1385
... w... | ... fi

GF -A G8

287,288,1403

fl A G A G5
A G12.

D

1404

D

100,000

D

D

D

1404,1405

D

D

A
(
)
(
)
I
fi
1418 L
fi
fi
D A
E
1419-1422
(AK, K, F)
628,1423-1425
A G
F
A G8/LC3. 1425 F
(
A G8/LC3.
fi A₁ I A
A G
A
A₁

20.

956
LC3
fi F
F

E
A
A
EL CA 3
1426
C

21.

I

www / / ABB000000000). F
www / /

3. **C3**

LA, LC3
 () 181
 IF G-
 G
 (GB),
 A G7, A G3, A G12-A G5-A G16L1
 LC3-
 IF G-
 F
 LK1/2 A G14,
 LC3-
 1455-1457
 1208,1455 A
 LA
 LC3-
 GB
 1458
 C
 GB
 LC3-

E. Interpretation of in silico assays for monitoring autophagy

()
 1467,1468
 F
 "BLA"

4. **fi**

A G
 F, A G9 I II,
 LK1, BEC 1, A G5, A G7, LC3B
 B 1459
 B.
 LK1, A G14 IK3C3/ 34,
 A G5, A G7, A G4B, A G16L1. 1460

5.

A G
 27,75,76,544,572,1449,1461-1465,1466

F₁ - (2) - L₁ . K
 Lk
 ()
 Lk
 >15
 Lk
 A CH ¹⁴⁸³ A
 Lk (>13)
¹⁴⁸² I A CH Lk
 Lk
 Lk
 A Lk
 Lk
 Lk
 C
 L // /Lk

. The Eukaryotic Linear Motif resource (ELM)

E / L_w ¹⁴⁸⁴

1492 A. fi

Conclusions and future perspectives

2 fi

1493,1494

fi A

(4). I

fi

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191. ... B ... K ... G ... K ... A ... K ... J ...

...? A ... 2009; 5:442-50; .. :// ... /
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209. " , L, C , v L, F , J, v J, v , G, v t,

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| . 2013.123.

ARD1: AA10.

Are1: A 1.

Are2: A 1.

ARRB1/ β -arrestin-1 (arrestin, beta 1):

W.../...
W... G-
fi
AD α BK/BA α K ()-

Atg11: A C
| A, 11 A, 19, A, 30
(A, 30) , A, 32 fi
I A, 9
A . A .

1. $\frac{1}{x^2} = x^{-2}$

LA) ...
... LC3 ...
... 884 ...

Autophagoproteasome (APP): A ...
... LC3 ...
... 73 ...

Autophagosome (AP): A ...
... A ...
...) ...

BCL2 family of proteins: 3, BCL2, BCL2L1/
BCL

Cad96Ca/Stit/Stitcher (Cadherin 96Ca): A D

E C 96C
A. 1- Cl. I

1658

Caf4: A fi.

fi. 705

D 1L- LC3-II F52
I35 LC3B.591

Chaperone-mediated autophagy (CMA): A
KFE
1675,1676

LA 2A
H A8.1677,1678

CHKB (choline kinase beta): A
C B
1679

Chloroquine (CQ): C
H
1680

CHMP1A (charged multivesicular body protein 1A):
CH 1A
CH 1A
A
802

Chromatophagy: A
/D A
803

Ciliophagy: D
C

CISD2/NAF-1 (CDGSH iron sulfur domain 2): A
I
CI D2 BCL2 Et BCL2
BEC 1, 1681
CI D2 Et

C D2
D 803
2

fl 1630
dom (domino): A D I2/ F2
A

1718
Dopamine: A 1719

DOR: 53I 2.

DRAM1 (damage-regulated autophagy modulator 1): D A I, 53

D A 580

D A 1
D A 1 K1

Draper: A D CED-1 C BEC 1.

1720

Drs:

E2F1: A B 3, C3, I D A I

A 5 614 E2F1 D A

EAT (early autophagy targeting/tethering) domain: C- 1721

A, I, A, 13.

EAT-2 (eating abnormal): A

-2

1703,1722,1723

EDTP: 14.

EEA1 (early endosome antigen 1): A AB5

EEF1A1/EF1A/eF1 α (eukaryotic translation elongation factor 1 alpha 1): G-

GFA

C A

EEF1A1 G 1724

eF1 α : EEF1A1.

EGFR (epidermal growth factor receptor): A. I3K, AK 523

EGO complex: I E 1, E 3 G 2

C. ¹⁷⁸⁸ H 25 A, 36,
A, 36 A, 11 ¹⁷⁸⁹
HSC70: H A8.
HSP70 (heat shock protein 70):
H 70.
H 70.
¹⁷⁹⁴ H A1A.
HSP90: H 90AA1.
HSP90AA1/HSP90/HSPC1 (heat shock protein 90kDa alpha
[cytosolic], class A member 1): A
BEC 1, ¹⁷⁹³
H 90AA1
LA 2A ¹⁷⁹⁶
HSPA1A (heat shock protein family A [Hsp70] member
1A):
H 70.
¹⁷⁹⁰
HSPA5/GRP78/BiP (heat shock protein 5 family A [Hsp70]
member 5): A
Et ¹⁷⁹¹
HSPA8/HSC70 (heat shock protein family A [Hsp70] mem-
ber 8):
H 70.
¹⁷⁹²
C A (H A8) ¹⁷⁹³
KFEt ¹¹¹⁶
KFEt ¹¹¹⁵
HSPC1: H 90AA1.
HTRA2/Omi (HtrA serine peptidase 2): A
HA 1, BCL2 ¹⁷⁹⁷ H A2,
H A2
¹⁷⁹⁸⁻¹⁸⁰⁰
Hypersensitive response: A
^{1092,1096,1801}
IAPP (islet amyloid polypeptide): A 37
89

IA I / w w β- 2
IA ¹⁸⁰²⁻¹⁸⁰⁴
ic-MA (immune cell-mediated autophagy): IL2- ¹⁸⁰⁵
Ice2: A 1.
ICP34.5: A
1 () EIF2 1-EIF2AK2
¹⁷²⁶ IC 34.5-
BEC 1. ¹⁸⁹²
IDP (Intrinsically disordered protein): A
¹⁸⁰⁶⁻¹⁸⁰⁹ ID
¹⁸¹⁰
¹⁸¹¹⁻¹⁸¹⁴
ID ^{1815,1816}
IDPR (intrinsically disordered protein region): A

Irs4: I. 4 4 A
A, 17.1827
-fi

Isolation membrane:

ITM2A (integral membrane protein 2A): A. KA/
KA-C& EB -A
fl 1828

ITPR1/2/3 (inositol 1,4,5-trisphosphate receptor, type 1/2/
3): A C²⁺
Et C²⁺
1,4,5-
BCL2- BEC 1. I
BEC 1. I
C²⁺ A 1220,1244,1246
BEC 1- I C²⁺
fl 297

JNK1: A K8.

Jumpy: 14.

JUN/c-Jun/JunB (jun proto-oncogene): A
1829

KAT5/TIP60 (K[lysine] acetyltransferase 5): I, KA 5
G K3 LK1.1778

Kcs1:

Lipoxygenases:

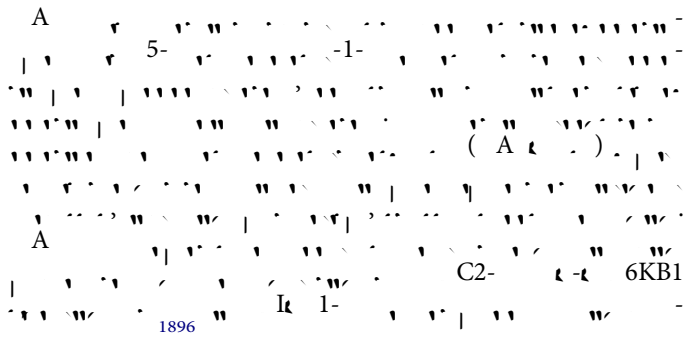
AL 5, AL 15, IF G-

LIR/LRS (LC3-interacting region):

L- (/F/ - - - I/L/) A, 8/LC3/GABA A

NAF-1: CI D2.

NAMPT/visfatin (nicotinamide phosphoribosyltransferase):



NAPA/ α SNAP (N-ethylmaleimide-sensitive factor attachment protein, alpha): A / α E-1

Phosphatidylinositol 3,5-bisphosphate (PtdIns[3,5]P₂):

IKF E ()
F E fi)
A F ¹⁹⁴⁵ I_v (3,5) ¹⁹⁴⁴
¹⁹⁴⁶ 2

Phosphoinositide 3-kinase/PI3K:

3'
I3K

Phosphoinositides (PI) or inositol phosphates:

fi

... fi ...
... 1979 ...
... 300 ...

(D₁, E₁-10, ...) (FA : F00610), ... 1.1822

Rapamycin: A ... 2

RAPTOR:

Ras: A

RB1-E2F1 (Retinoblastoma 1-E2 transcription factor 1): B1

E2F1 G1

E2F B1

B1 E2F1 BCL2, 615

RB1CC1/FIP200 (RB1-inducible coiled-coil 1): A

A, 17. B1CC1 LK1 1533

B1CC1

Reactive oxygen species (ROS): C

H, LC3 A G4, 519

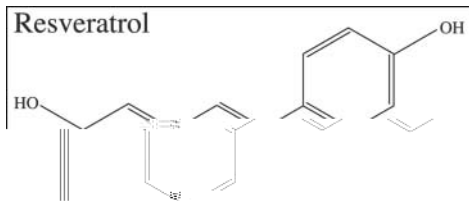
757

Ref(2)P: D

Residual body: A 2007

Resveratrol: A 1510

2008



Reticulophagy:

SNCA/ α -synuclein: A ¹⁴⁹
CA
²⁰⁵⁴ C CA
CA H GBI
²⁰⁵⁵
B.
CA
CA.
H CA
¹³⁴⁰
Snx4/Atg24: A I. 3
A, 1 A, 20. ¹⁶⁰⁰ 4/A, 24
A, 24 I. fi ⁷⁰⁹
SNX18: A -BA ²⁰⁵⁶
SpeB: A
²⁰⁵⁷ B
^{126,2057}
Spautin-1 (specific and potent autophagy inhibitor-1): A,
10 13, fi
IK3C3/ 34-BEC 1 ²⁰⁵⁸
Spermidine

TAK1: A 3K7.

TAKA (transport of Atg9 after knocking out *Atg1*) assay:

Atg9-
GF
A 1.

1 (780,2092)

THC (Δ^9 -tetrahydrocannabinol):

HC

HC

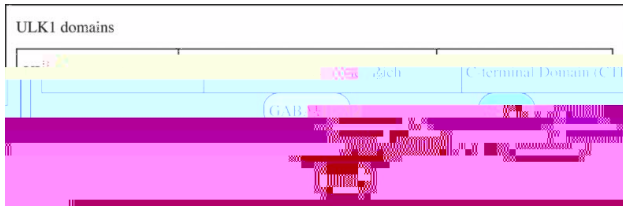
TRAF2 (TNF receptor-associated factor 2): A, E3
 TRAF6 (TNF receptor-associated factor 6, E3 ubiquitin protein ligase): A, E3
 TRAIL: F F10.
 Transgenic: H
 Transmitophagy/transcellular mitophagy: A
 TRAPP II (transport protein particle II): A, B.3, B.5, .20, .23, .31, .33, .65, .120, .130.
 TRAPP III (transport protein particle III): A, B.3, B.5, .20, .23, .31, .33, .85.
 TRIB3 (tribbles pseudokinase 3): A
 Trichostatin A: A, I HDAC
 TRIM5/TRIM5 α (tripartite motif containing 5): A, HI -1
 TRIM20: EF
 TRIM21: A, I 21, I F3
 TRIM28 (tripartite motif containing 28): I 28, E3
 KAA1, AGEA3.

TRIM50 (tripartite motif containing 50): I 50, E3-
 HDAC6-
 TRIM63/MURF-1 (tripartite motif containing 63, E3 ubiquitin protein ligase): E3
 H3GLB1
 TRPC4 (transient receptor potential cation channel, subfamily C, member 4): A

Ubp3: A ... B 5
 ... 847 C ... 3-B 5
 ... 2131

UBQLN/Ubiquilins: ...
 ... 2132

ULK family (unc-51 like autophagy activating kinase):
 LK ... A, 1. I ...
 ... 5 ... LK1, LK2, LK3, LK4,
 ... K36/ LK5. LK1 LK2
 ... LK3
 ... 535,2133,2134 ... A, 1. F ... F, . 2 ...
 ... 2135.



Ume6: A ... 3L ...
 ... 1. ... A 8 ...
 ... 1233 ... 3 ... 3/
 I 3.

UNC-51: C ... A, 1/ LK1/ LK2 ...
 A, 1.

UPR (unfolded protein response): A ...
 ... Et ... fl ...

USP8 (ubiquitin specific peptidase 8): A ...
 ... K6- ... A, K2 ...
 ... 1233C 57.5()0()-330.8(()-10 ... 6-371.7() J/F401 .87832680 D() /F191 .57470 D (6-323.8()-9.1()

VAMP7 (vesicle-associated membrane protein 7): A 7
At E A G16L1 7 (7),
8 IIB, 2150 A 7
2149

VAMP8 (vesicle-associated membrane protein 8): A At E
IIB, 2151

VCP/p97 (valosin-containing protein): A II AAA+
A C 48.
2152,2153

Verteporfin: A FDA-
2154

VHL (von Hippel-Lindau tumor suppressor, E3 ubiquitin
protein ligase): HL
HIF1 HIF1A EGL
2 2155

VirG: A G A G5,
I B, III, 2156

VMP1 (vacuole membrane protein 1): A 632,2157
I 1 I 3 2158
A G12-A G5-A G16L1 LC3. 2159

Vps1: A G fi-
I A, 11 A, 36 1716
D 1.

Vps11: A

E-354
C1, C2, K -0063794, fl
XBP1 (X-box binding protein 1): A, B 1, E
H 1, 2174
Xenophagy: C
2175
Xestospongin B: A, I, BEC 1
2176
Yeh1: A 1
Ykt6: A, A, E, G, C, 6
2177, 2023
Ymr1: A, I, 3, fi
2178, 2179
Ypk1: A, C2, C2
2105
3/, -C, I/
G, 2, G, 2
Ypt1: A, G, 1321, 1, A, 8, AB1,
2180, 2181, A, III
Ypt7: A, AB7,
YWHAZ/14-3-3/(tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta): A, 14-3-3, IK3C3, C2, 2182
ZFPM1/FOG1 (zinc finger protein, FOG family member 1): A, GA A1, 641, GA A1
ZFYVE1/DFCP1 (zinc finger, FYVE domain containing 1): A, I, 3, 583, K, F, E1
ZFYVE26/spastizin/SPG15 (zinc finger, FYVE domain containing 26): A, BEC 1, AG, BC, 2183
ZIPK:
ZKSCAN3/ZNF306 (zinc finger with KRAB and SCAN domains 3): A, fi, K, CA

K CA 3, 60
A I, C3B, 2, 1
K CA 3, 643
Zoledronic acid: A

C 34, 37, 48, 51, 53, 55, 57, 62, 71, 75, 82, 83, 91, 93, 94, 99, 100, 101, 102, 107, 108, 112, 113, 117, 119, 120, 184, 186, 187, 188, 189, 191, 193, 195, 197, 198, 199, 200, 202, 203, 205, 207, 210, 212, 214

C D 40 103, 105

C 106

C 43, 44, 47, 48, 49, 50, 55, 59, 63, 67, 71, 84, 90, 91, 92, 93, 99, 100, 105, 109, 111, 181, 187, 196

C III I, 3K 55, 99, 186, 189, 191, 192, 197, 198, 201, 204, 208, 210, 218, 219

C (CLE) 30, 37, 38, 54, 85

C 39, 40, 68, 74, 76, 87, 181, 182, 183, 188, 210

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D -B A 30, 87, 88

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E 96, 196, 200

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E 34, 85, 92, 100, 111, 116, 204, 205



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BCL2 85, 101
FLI 101

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I I2 68, 69, 209, 213, 214
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108, 114, 115, 187, 188, 189, 190, 191, 192, 193, 196, 197, 198, 199, 201, 202,
203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219

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