ˉ

ϖ̄ ȁ O (2 №˘ ˝ 2 0№)

1. (species):
2. ʌ ˉ (protozoa):
3. ŋ ī́ (complete metamorphosis):
4. (trochophore):
5. ʊ (lateral line system):
6. ī̆ ت ᴥ (dual respiration):
7. ˉ ˥ (fauna):
8. ʌ (protonephridium):
9. (alveolus):
10. β (ecological niche):

ʜ ȁ (1 №˘ ˝ 2 0№)

1. Ī ч ( ) ≠ ˛ ʌ ʜ ( ) D ; ч ( ) Â
2. ˉ ( ) ȁ( ) ȁ( ) r ʏ ˉ Â
3. № ʜ ( ) غ Â ϖ̄ № ч 3 ˘ ϖ̄ ч ( ) ˘ ȁ ᾠ : Ţ ϖ̄ ч ˘ ˥ ( ) ˘ : ṗ ϖ̄ ч ˘ ˥ ( ) ˘ Â
4. ˉ ʜ Ṣ ↑ ϖ̄ ( ) غ ϖ̄ ( ) ₮ r Â
5. r ᴄ ˘ ( ) № r ʏ ī̆ ( ) ( ) r L Â
6. ڤ ϖ̄ ( ) ˘ № Ḡ ʙ ī́ ˘ ˜ Â ضي ᴠ ˥ ϖ̄ ˘ ʙ ī̀ ɪ (ī̀ □) ˘ ˘˘ ч (Â)
7. ī̈ ⅓ ϖ̄ 4 ˘ ˥ ȁ ( ) ȁ ( ) غ ( ) Â

ȁ (1 0№ ˘ ˝ 6 0№)

1 . Ӊ ضر ї̈ Ѣ ˛ Â

2 . Ӈ ?̃ № ч з قمم ? ˛ Ӈ Ӈ ?

3 . ˧ ї̈ ї̀ ضي ˗ . ˘ ⁘ Ӈ Â

4 . ˗ r (↓ ₮ h قمم ї̈ w) Â

5 . r ˗ غ ˗ ⁘ □ Â v ї ч . ضر β ?

6 . ˗ . . Â

ΰ̈

ẘ ằ O (4 №̆ ‶ 2 0№)

1 blastula 胚 囊 s ǵ t gual sat r u l a

2 primordial germ cell ǵ stem cell

3 autoinduction ǵ embryonic induction

4 preformation ǵ epigenesis

5 chromosome ǵ X chromosome inactivation

ҥ ằ (1 0№̆ ‶ 4 0№)

1 . № ضر ᵝ ΐ ΐ ƀ ԡ п Â

2 . ⌠ ˧̆ ҥ Ղ ΐ ˘ ԡ̡ Ʉ?

3 . ΐ̈ ΰ̈ ῃ ̃ غج Â

4 . ˩ ώ̈ Â

ঃ ằ (2 0№̆ ‶ 4 0№)

1 . ɣ ԡ ᴅ̆ ΐ ჴ ضي ΰ̈ Ţ ƀ Â

2 . ˘ غج ΰ̈ ˘ ΐ Ʉ غ ضي ΰ̈

ƀ Ţ Â

ẘ ầ O (3 №˘ ‷ 3 0№)

1 .

2 .

3 . V|

4 . ‷ ʔ ƀ

5. ƀ ˥

6 .

7 .

8 . ˉ

9 . ض

1 0 . غ

Ƕ ầ (8 №˘ ‷ 4 0№)

1 . . ƀ ΐ ἰ Â

2 . ΰ ϡ .

3 . ض ḱ Â

4 . ﻬ . Â

5 . ƅ . ڭ ?

ầ (1 5№˘ ‷ 3 0№)

1 . ﻴ ὢ U ầ ầ ঽ ˘ ΰ ঽ ẘ

˘ p ʃ Â ꞑ ḱ ΐ

?

2 . ض r Ţ ƀ Â

ѿ ằ Ӎ ↓ Ο ˘ ἇ ɣ (ɷ Ο 1 № ằ

2 №˘ ‶ 3 0№)

1 .

2 . ³ ጢ

3 . ﾉ

4 . Ī

5 .

6 . ﮜ

7 . Ⴆ

8 . ˥

9 . ˩

10 .

ҹ ằ (8 №˘ ‶ 4 0№)

1 . Ч Ɥ Ѣ ˘ ? ﾉ ἇ ɣ Â

2 . ĩ (b i o m a n i p u l ﾉ a ť i o en) Â

3 . ɣ κ ѿ Ч ˘ v

˘ ἳ Щ Ɥ ?

4 . ³ № ? № ѡ Â

5 . ῃ ῗ ض ? ?

ằ (1 5№˘ ‶ 3 0№)

1 . ⊢ (e c o s y s t e ́m s e r v i c e s) ⊢ Ѣ

(e c o s y s t e m Ɥ n t ? e g r i t y) Ч Â

2 . Ẋ ɥ h ˘ P· · H ś Θ c→ H č ἳ ɥ

ɾ ѿ ɷ (P) ₮ ΰ˘ - - - -

ʐ ǐ (· ·)ˇ · · ₮· w̄ ɷ Ẋ (Ḧ) ₮ (ś)ˇ (O’c) ˢ

Ƕ ˘ ↕ ₮ (→) Â Ẋ - w̄

(ɢ ɴ)ˇ ´ ȁ ȁ ȁ Ẋ ȁ

Ẋ ȁ ƀ ṗ Â

D

ŵ à O (2 № ˘ ˝ 2 0 №)

1. (Terminator)
2. № ᵉ ˢ (Molaerchual perones)
3. ˜ ĭ ◄ ℗ (Alternative Splicing)
4. RNA (RNA Editing)
5. (Chromatin Remodeling)
6. (Retrotransponsons or Retroposon)
7. RNA (MRNA c)ro
8. D (Gen Equiiclibrium)
9. Ψ (Synapsis)
10. ĭ (Frameshift Mutation)

Ƕ à (1 0 № ˘ ˝ 4 0 №)

1. ǖ ˘ ĐЙ, X ǖ ƨ ⁘ ˘ ᵖ ضي mRNA ⁘ ǖ ɣ ƀ ĭ Â ˘ ضي غ ⁘ № Ţ ˘ ƀ mRNA ˜ ƀ ˘ ꟻ ˜ № ˪ Â
2. ǭ ˝ (Co-Immunoprecipitation) (Chromatin immunoprecipitation) Â
3. Ɉ D ? ╠ D ك ɜ ? ɵ ᵖ ɣ ˧ ƀ ǖ ˜ Â
4. ضي r D ƀ ˘ ˘ ƨ D ǖ ˘ : ضي D ƀ ч ˘ ƀ ч Â ɵ ₮ ɜ Ɥ ˘ ɪ ˥ ضي D Ţ ƀ Â

[illegible] à (20№ ˘ ˝ 40№)

1. غج Ü ˘ غج ج (Genetmiocdailfliyed food)

ضر [illegible] ˘ ⊕ D W̄ ⊕ غج ج ŋ

(h D ˘ غج ج ɑ ˛ شي ƀ ǰ

№) (20№) Â

2. 2016 ᴹ ʒ ʊ ĩ (Yoshinori

Ohsumy) ضي ɪ کی (autophagy) ₮ Â ⊕

کی ĩ ì ɥ ? ضي ˘ ⊕ Ü ʊ W̄ ɑ ƀ کی ƀ

˜ غج ˘ ɥ ˜ ضي غج کی Ţ № ƀ L ˘ ⊕ W̄ يج

˘ غ ṗ ĩ =

(2№) Â

ŵ̄ ầ O (3№0= 1×№2 №)

1 .

2 . ƀ

3 . ﻬ

4 .ﯙ .

5 .ﯙ └

6

7 .ت₽

8 .

9 .№ ಅ ঽ

10 . ƀ

11 . M C a

12 . T O R

13 . mNiAc r o R

14 . G WA S

15 . C R I S P R

ҥ ầ (8 №̆ ̏ 4 0№̆ ɾ 6 Ţ Ạ 5) :

1 . ƀ ɏ ?

2 . ﯙ ƀ C-4 ﻍ C A M ?

3 . └ Ʉ ?

4 . ﻙ ʜ ? ﻙ ?

5 .ﯙ ﻙ ? ‖ ﺿ Ţ ƀ Â

6 . ﯙت₽ /\ ﺠ ? ї Ʉ ɏ ?

ȁ (1 0№ ˘ ˝ 3 0№ ˘ ɾ 4 Ţ Ạ 3) :

1 . ˇ ч ŋ ? ≠ ŋ ضي غ ˚˚ ˛

Ӈ ? ɵ ᵖ Â

2 . ѣ ´ ї ˡ Â

3 . ˇ ч غج ? ˛ Ӈ ? ˛˛ ѿ ɷ ≠

Â

4 . ˘ ʒ غج ˘

Ḇ ʒ ˘ غج Ḥ ˚˚ ʻك

ѣ ? ɵ ᵖ Â