

生物学専攻

- ・基礎生物学プログラム
- ・生物科学科

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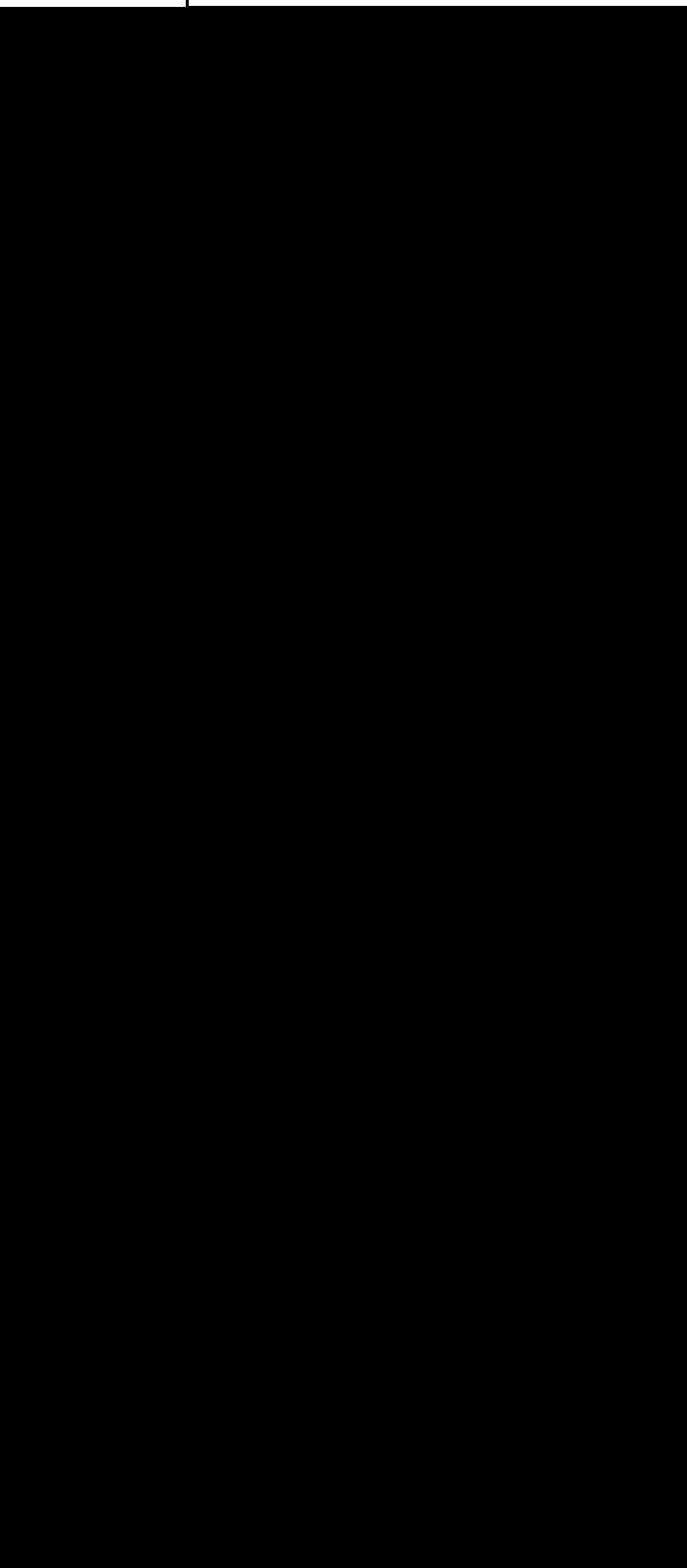
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Zheng Tianxiong	49	The phylogenetic data supporting the segregation of species complex into sub-species level.		R2.9.5
	49			R2.9.5
	Zoological Science Award	Xenacoelomorph-Specific Hox Peptides: Insights into the Phylogeny of Acoels, Nemertodermatids, and Xenoturbellids		R2.9.4
	Zoological Science Award	Xenacoelomorph-Specific Hox Peptides: Insights into the Phylogeny of Acoels, Nemertodermatids, and Xenoturbellids		R2.9.4

Fujii Award

Xenacoelomorph-Specific Hox
Peptides: Insights into the
Phylogeny of Acoels,
Nem # m

Dr. Zhiyong Wang, Staff Member, Department of Plant Biology, Carnegie Institution for Science, 260
Panama st

Dr. Nicolas Perrin

Leibniz-Institute of Freshwater Ecology and Inland Fisheries – IGB Germany
Stöck

Dr. Matthias

Dr. Vladimir Vershinin

Dr. Si-Min Lin

Ewha Womans University

Dr. Amael Borzee

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ZHENG TIANXIONG		D3		
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	P	D2		JunB

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MCF-10A

microRNA

HRas^{G12V},

p53

HRas^{G12V},

p53

DNA

Haruko Takahashi, Yasuhisa Yamamoto, Ikkei Kumoyama, Hikaru Ikeda, Mingcong Xu, Yutaka Kikuchi,
Integrative understanding of musculotendinous junction formation and maturation during

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1) _____ 2 _____, _____, 2020
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1) _____, 3 HiHA Young Researchers Workshop,
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2) _____ (), 4 HiHA Young Researchers Workshop,
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1) Dr. Kenichi Kuroda, University of Michigan School of Dentistry, USA

2) Dr. Chann Lagadec, IMSERM, Université Lille 1, France, ALDH1A1

3) Dr. Satyavani Vemparala, The Institute of Mathematical Sciences, India,

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Akaluc

Akalumine

RNA

Akaluc

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(Okumura et al., 2017, **G3**)

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(Ishita et al., 2021,

G3)

(1)

ATPase

MRLC

ATPase

DAPK3/ZIP

MRLC

DAPK3

T112M,

D161N, P216S

MRLC

(Ono et al. 2020, *Biochem. Biophys. Res. Commun.*)

(2)

HeLa

GTPase

GTPase

4. _____, _____, _____, _____, _____, _____, Exploring the intra- and extracellular functions of ALS-related ER protein VAP , 53 , 2020 9 25 , _____ ,
5. _____, _____, 2020, 2020 11 10 , _____ ,
6. _____, _____, _____, 2020, 2020 11 10 , _____ ,
7. _____, _____, _____, 2020, 2020 11 10 , _____ ,
8. _____, _____, _____, 2020, 2020 11 10 , _____ ,
9. Akira Ito, Nagisa Matsuda, Misako Okumura and Takahiro Chihara. Highly sensitive and non-invasive in vivo monitoring in Drosophila using the Akaluc/AkaLumine bioluminescence system 43 _____ , 2020 12 2 4 , _____ ,
10. _____, _____, _____, _____, _____, _____ ALS

_____ Guo Runzhao (_____)

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ALS VAP
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, CDB split GFP

Ralf J Sommer _____ Max Planck Institute for Developmental Biology

, Michael Ryan (Monash University)

2016 8 2020 8 _____

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Slack _____

Journal of Biochemistry, Associate Editor _____

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2020 12 2 , ,

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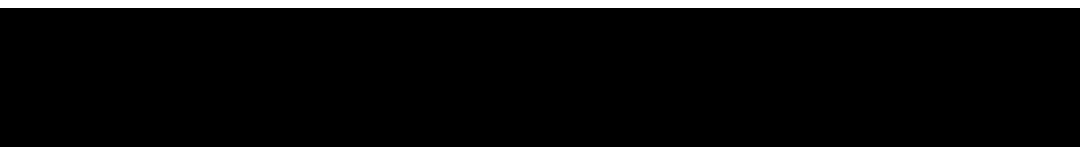
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RNA

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ncRNA

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lncRNA

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Editorial Board Member, BMC Genomics
Editorial Board Member, Journal of Reproduction and Development

) (2021.9.). (2021.9.

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The International Vanadium Symposium (), International Advisory Board ().

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, Vanadium in Ascidians: Molecular and Cellular Mechanism of Accumulation and Possible
Function of Vanadium, UIN Malang (), , 70 , 2020
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Zoological Science Award / Fujii Award (), Xenacoelomorph-Specific Hox Peptides:
Insights into the Phylogeny of Acoels, Nemertodermatids, and Xenoturbellids, _____, _____,
_____ 1 , _____, 2020.9.4.

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HIRO

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(5)	HIRO	Bryophytes of Asia, fasc. 27	46
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1. Kim, W., Higuchi, M. & Yamaguchi, T. (2020). An updated list of mosses of Korea. *Journal of Species Research* 9(4): 377–412.
2. Kim, W & Yamaguchi, T. (2020). *Bryocrumia vivicolor*, new localities in Japan and Taiwan. *Bryophyte Diversity & Evolution* 42(1): 56–60.
3. Kim, W., Higuchi, M., Yamaguchi, T., Sato, T. & Inoue, Y. (2020). New and noteworthy records of the moss flora of Korea. *Korean J. Pl. Taxon.* 50: 419–426.
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_____. *Hikobia* 12: 73–75.
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6. Zheng T.-X., Inoue, Y. & Shimamura M. (2020). Morphology of gemmae, an overlooked taxonomic trait in the genus _____ L. (Marchantiaceae). *The Bryologist* 123: 601–610
7. Inoue, Y., Tsubota, H. & Yamaguchi, T. (2020). _____ (Pottiaceae) new to Japan and its molecular evolution. *Hikobia* 18: 83–91.
8. Zheng T.-X., Inoue, Y. & Shimamura M. (2020). _____ Raddi subsp. (Steph.) Bischl. (Marchantiaceae, Marchantiophyta) new to Japan. *Hikobia* 18: 93–96.
9. _____, _____, _____, _____, _____, _____ (2020).
_____. *Hikobia* 18: 99–103.
10. _____, _____, _____ (2020).
_____. *Hikobia* 18: 105–107.
11. _____, _____, _____ (2020).
Hikobia 18: 109–114.
12. _____, _____, _____ (2020).
L. _____. *Hikobia* 18: 115–117.
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14. Inoue, Y., Jiménez, J. A., Sato, T., Tsubota, H. & Yamaguchi, T. (2020). Taxonomic reevaluation of _____ (Pottiaceae) in Japan. *Hattoria* 11: 61–75.
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New Phytologist 229: 735–754.

16. Nakajima K, Shimamura M, Furuno N. (2021). Generation of no-yellow-pigment *Xenopus tropicalis* by gene knockout. *Dev. Dyn.* doi: 10.1002/dvdy.334.

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12(5): 133–134

_____ . 2020 9 4 5 .
49 . Taxonomic re-evaluation of *Marchanita emarginata* subsp. *tosana* and related taxa in
Japan 49 . 2020 9 4 5 .
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Kim Wonhee National Institute of Biological Resources, ROK)

Jill Harrison

Juan Carlos Villarreal

49 .2020 9 5 . , _____,
_____. The phylogenetic data supporting the segregation of _____ species complex
into sub-species level.

49 .2020 9 5 . , _____
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GA TPR GA ON/OFF GAF1

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2 GAF1 GAF1

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GA GAF1 RNA-seq GAF1

GAF1 A1 b# T K \$) š

Dr. Zhiyong Wang, Staff Member, Department of Plant Biology, Carnegie Institution for Science, 260
Panama street, Stanford, CA 94305, USA _____

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Kang B, et al. (2020)

Appl. Environ. Microbiol.

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cDNA

Nishitsuji K, Arimoto A, Yonashiro Y, Hisata K, Fujie M, Kawamitsu M, Shoguchi E, Satoh N (2020)
Comparative genomics of four strains of the edible brown alga,
BMC Genomics 21:422.

(B)

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(2021). (II): 35: 7–140.
Inoue, Y., Jiménez, J. A., Sato, T., Tsubota, H. & Yamaguchi, T. (2020). Taxonomic reevaluation of
 (Pottiaceae) in Japan. 11: 61–75.
Inoue, Y., Tsubota, H. & Yamaguchi, T. (2020). (Pottiaceae) new to Japan and its
 molecular evolution. 18: 83–91.
 _____, Jan Ku era, _____ (2020).
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 _____, _____, _____, _____, _____ (2020).
 Thwaites 18: 99–103.
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 69: 65.

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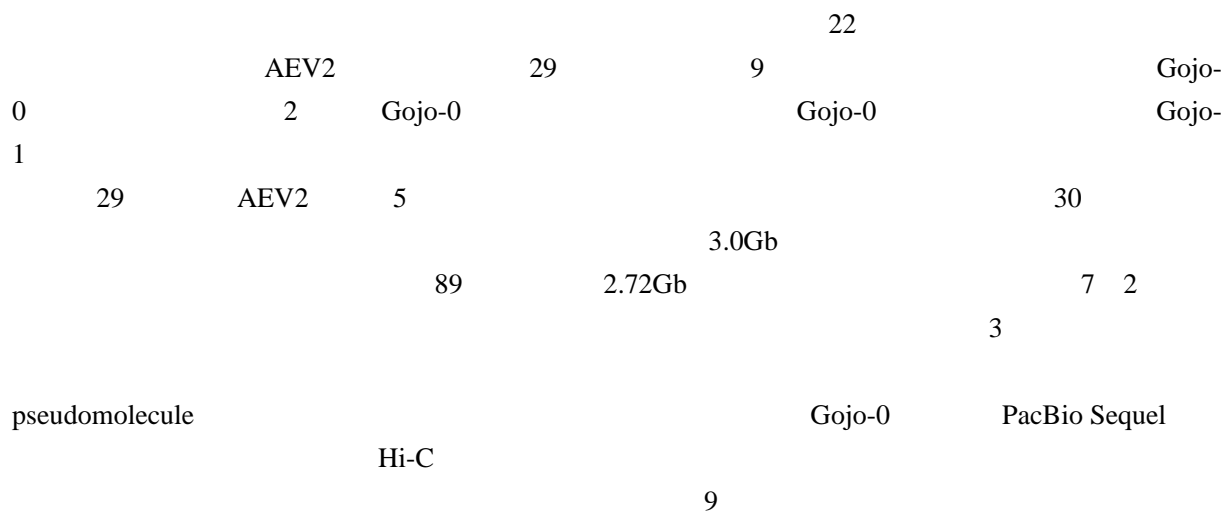
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PYHTOCHROME INTERACTING FACTOR (PIF)4 PIF5

PIF4 PIF5

PIF4 PIF5

Frontiers in Plant Science

Ueda, H., Ito, T., Inoue, R., Masuda Y., Nagashima Y., Kozuka, T., and Kusaba, M. (2020) Genetic interaction among phytochrome, ethylene and abscisic acid signaling during dark-induced senescence in . Frontiers in Plant Science 11: 564

Kajiya-Kanegae, H., Takanashi, H., Fujimoto, M., Ishimori, M., Ohnishi, N., Fiona, W., Omollo, E. A., Kobayashi, M., Yano, K., Nakano, M., Kozuka, T., Kusaba, M., Iwata, H., Tsutsumi, N., and Sakamoto, W. (2020) RAD-seq-based high-density linkage map construction and QTL mapping of biomass-related traits in sorghum using a Japanese landrace Takakibi NOG. Plant and Cell Physiology 61 1262-1272.

(B)

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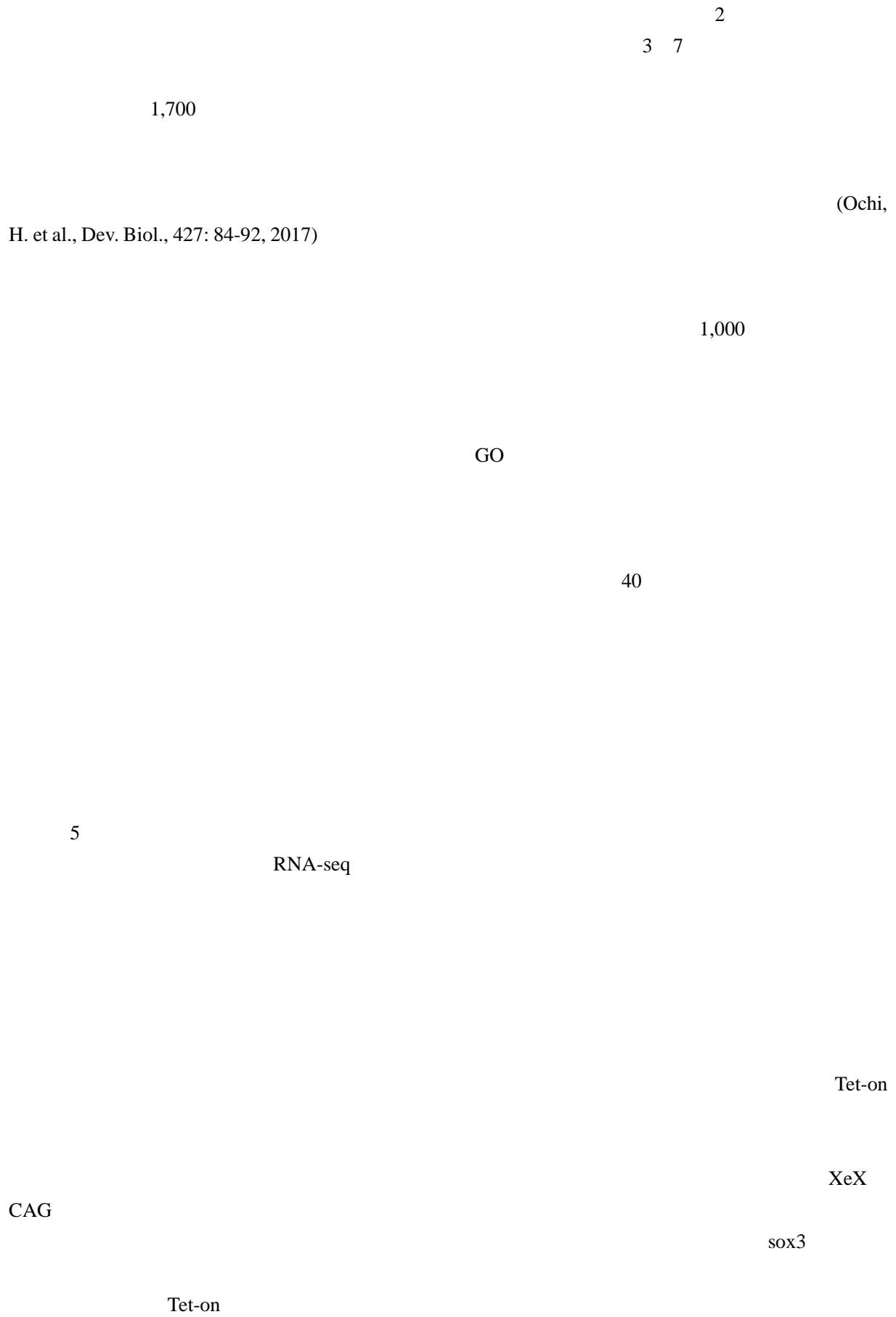
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Suzuki M., Igawa T., Suzuki N., Ogino H. and *Ochi H.

Spontaneous neoplasia in the western clawed frog

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Heterogeneity of synonymous substitution rates in the *Xenopus* frog genome.

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*Igawa T., Okamiya H., Ogino H. and Nagano M.

Complete mitochondrial genome of (Amphibia, Caudata, Hynobiidae) and its phylogenetic position.

, 5: 2241-2242 (2020) (<https://doi.org/10.1371/journal.pone.0236515>)

Komaki S., Sutoh Y., Kobayashi K., Saito S., Saito CT., Igawa T. and Lau Q.,

Hot spring frogs () prefer cooler water to hot water. *Ecol. Evol.* 10: 9466-9473

(2020) (<https://doi.org/10.1002/ece3.6637>)

Hata A., Takenouchi A., Kinoshita K., Hirokawa M., Igawa T., Nunome M., Suzuki T., Tsudzuki M.,

Geographic origin and genetic characteristics of Japanese indigenous chickens inferred from

mitochondrial D-loop region and microsatellite DNA markers. 10: 2074 (2020)
(<https://doi.org/10.3390/ani10112074>)

Mori T., Kitani Y., Hatakeyama D., Machida K., Goto-Inoue N., Hayakawa S., Yamamoto N.,
Kashiwagi K. and Kashiwagi A.

Predation threats for a 24-h period activated the extension of axons in the brains of *Xenopus* tadpoles.

Scientific Reports 10:14780:117E 1/ _

Xenopus Gene Nomenclature Committee member

Development, Growth & Differentiation

Journal of Tropical Life Science, Editor

Frontiers in Genetics / Ecology and Evolution, Guest Editor

Animals, Guest Editor

Development, Growth & Differentiation Guest Editor

Frontiers in Cell and Developmental Biology, Review Editor

Development, Growth & Differentiation Guest Editor

2020 11 17 , _____

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43 _____, _____, 2020 12 2 4 ,

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Rob Grainger ,

Jean-Francois Riou ,

Tanouchi M., Igawa T., Suzuki M., Suzuki N. and *Ogino H. Convergent evolution of duplicated genes in different evolutionary lineages. 53

APDBN , ,2020 5 19 22 ,

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cDNA AMED
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43

Dk|

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VIH/dgvc

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Vcmgdc{cujk/Uw|wmk" ."

Ogejcpkuou"qh" Fgxgnqr o gpv"346." :62/:77."4229

Qev/47 DOR

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LwpD

VIH/dgvc

VIH/dgvc

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VIH/dgvc

llwpD

VIH/dgvc

4

VIH/dgvc

VIH/dgvc3

VIH/dgvc4

6

kinase 2 Clk2

Clk

FGF

MAPK

BMP

FGF

Clk2

Virginia

TGF-beta1

Cdc2-like

Smad

, Development, Growth and

Differentiation 61, 365-377, 2019

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PCR

Clk1 Clk3

Clk3 Clk2

cDNA

RT-

Clk1, Clk2, Clk3

FoxB1, Biz/Zbtb14,

Clk2

Takebayashi-Suzuki and Suzuki, Genes 11, 341, 2020

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G1 G2

DNA

G1, G2

Wee1A

Wee1B

GFP

5kb

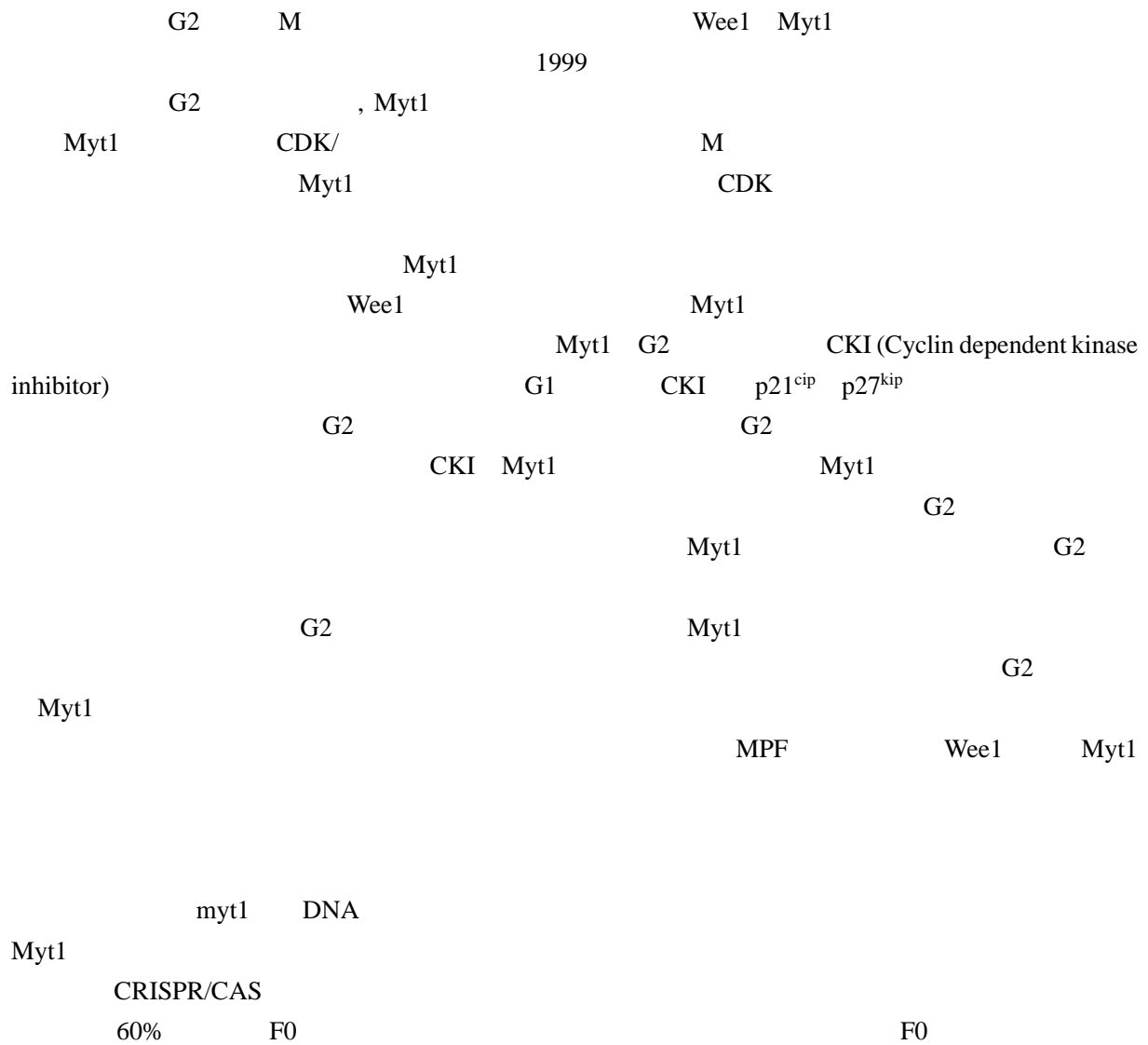
transgenic

10kbp

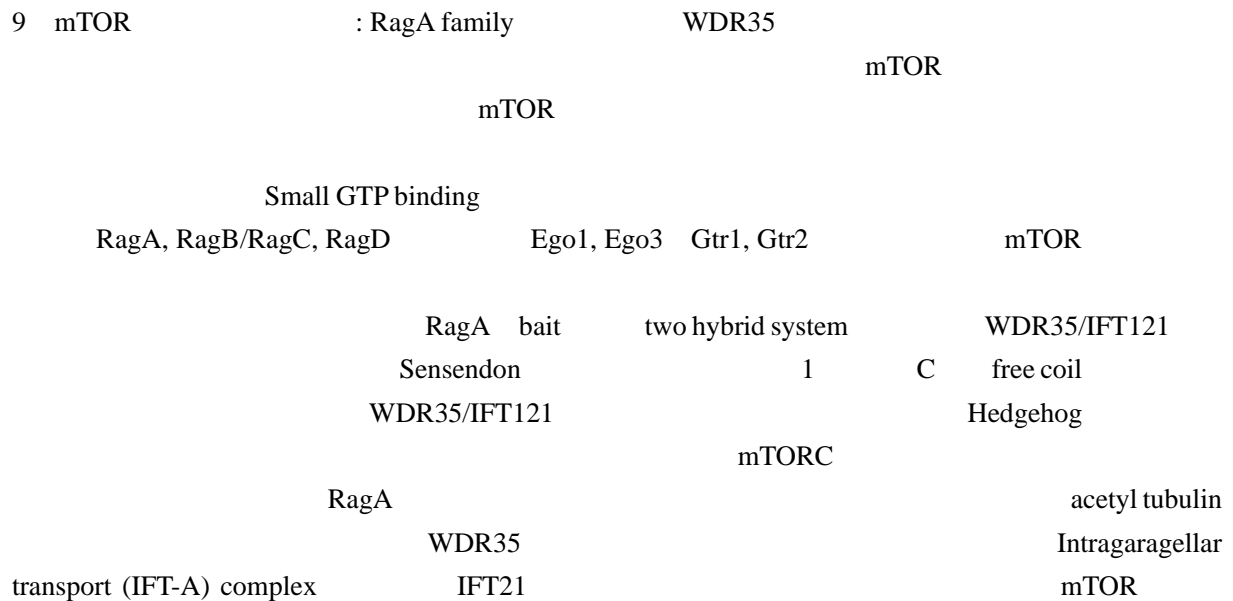
transgenic

Wee1B

8



9



WDR35
TCP/CCT1 CCT complex CCT complex
 α -tubulin acetyl tubulin
RagA WDR35 293T knockout acetyl
tubulin WDR35 RagA CCT complex

12

(TR)

TR

TR

(Nakajima 2018)

TR

RNA

RNA-Seq

mmp9-TH, mmp13, olfm4, scppa2 4

(Nakajima 2019, 2020)

MMP

olfm4

scppa2

olfm4, scppa2

F1

TR

4

RT-PCR

olfm4

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13 TALEN

TALEN

MMP9TH

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TALEN mRNA
F1, F2

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(Nakajima 2012)

hps6

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(IE: intercalary element)

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Xenbase
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An expert for the international committee on amphibian and reptiles anomalies, Ural Federal University

Editorial Board member of Asian Herpetological Research
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8 9 Current Herpetology 1, Genes to Cells 1, Sexual Development 1, Integrative Zoology 1,
Zoological Science 1, genes 2, Philosophical Transaction B 1, Genome, 1

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News

Dr. Tariq Ezaz

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Stöck

Dr. Matthias

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7th Asian-Pacific Chromosome Colloquium (APCC7) プレゼンテーション賞受賞

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Marko Horb Bell Center for Regenerative Biology and Tissue Engineering, Marine Biological Laboratory, USA Senior Scientist

2019 4 1 2021 3 31

Analysis of AP-1 transcription factors in tail formation and regeneration

Nicolas Perrin University of Lausanne Professor

2019 4 1 2021 3 31

Turnover of sex chromosomes in amphibians

Vladimir Vershinin Eltsyn Ural Federal University, Russia Professor

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Genome Exclusion in germ line of frog

Matthias Stöck Leibniz-Institute of Freshwater Ecology and Inland Fisheries – IGB, Germany Ass. Professor

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Geographic differentiation of Japanese tree frog,

Kornsorn Srikulnath Kasetsart University, Thailand Ass. Professor

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Cytogenetics of sex chromosomes in the brown frogs

Tariq Ezaz University of Canberra, Australia Professor

2019 4 1 2021 3 31

Evolution of sex chromosomes in frogs

Yun-Bo Shi NIH Senior Investigator

2019 4 1 2021 3 31

Study of the role of thyroid hormone receptor isoforms during amphibian metamorphosis

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FATIN IFFAH RASYIQAH MOHAMAD ZOLKEFLI (2017 10)

VIRGINIA REGINA PUTRI (2017 10)

MOHAMED NABIL BAKR ABDELRAHMAN (2018 10)

ZHENG TIANXIONG (2018 10)

MUTMAINNAH ADRIANI() (2019 10)

PHAN QUYNH CHI 2020 10

2019 4)
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2019 10)
XU MINGCONG 2019 10)
CHEN YUAN 2019 10)
XIAO YANGYUXIN 2020 4
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