

Twitter Thread by Billy Bostickson ■■■&■■ ■

Billy Bostickson ■■■&■■ ■

[@BillyBostickson](#)



1. New Chinese Bat Research Thread

Graduate students of the Department of Ecology participate in wildlife scientific investigations, field behavior experiments, and genetic sample collection

<https://t.co/Gdp74Onoel>

Archived:

<https://t.co/ursD2GvzcX>

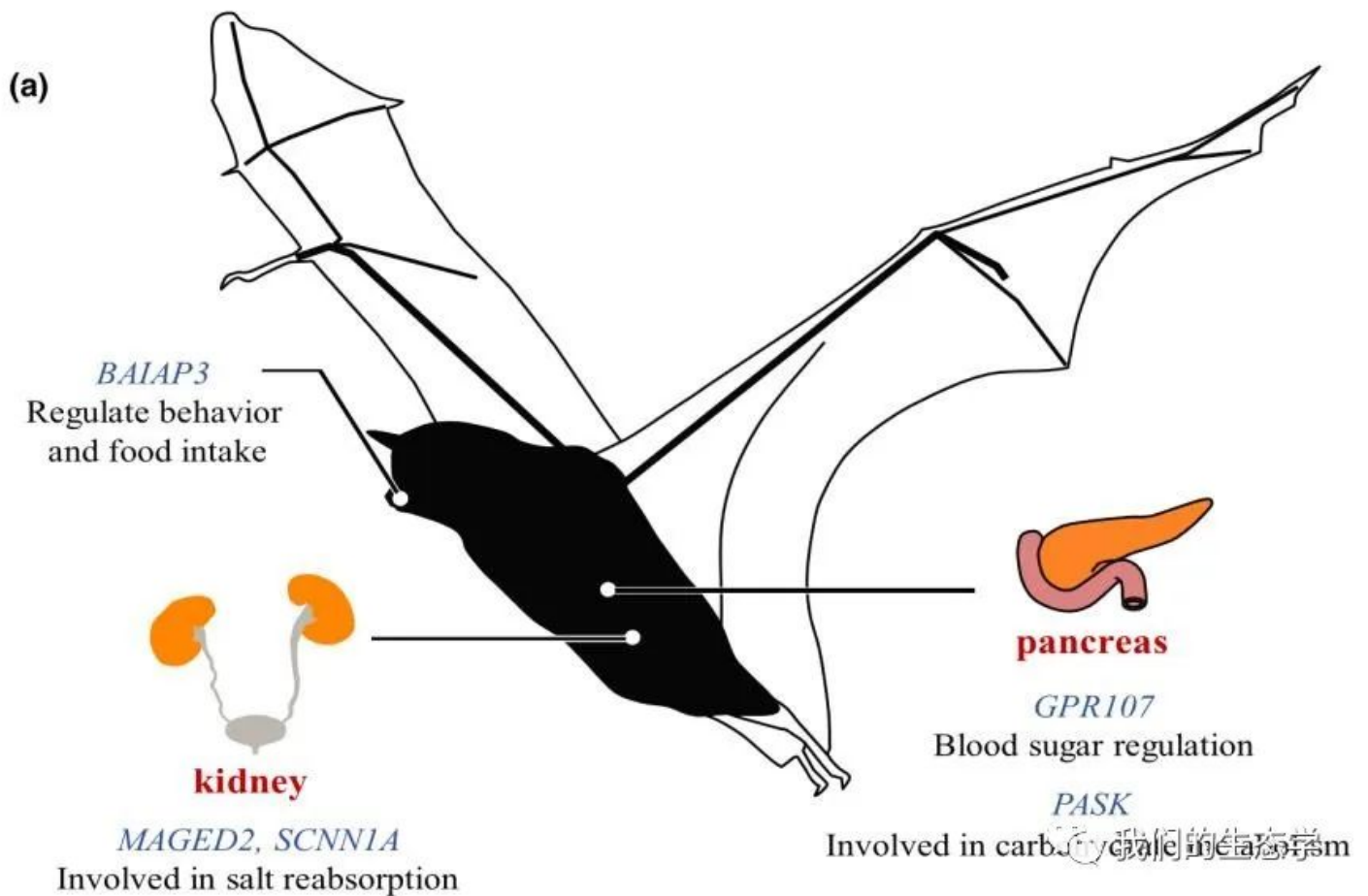


2. The latest research of the Department of Ecology

<https://t.co/a7M0zwH9YE>

Archived:

<https://t.co/s1dZlpHu6A>



3. Survey of bat field surgery in 2020:

from Guangdong to Yunnan

<https://t.co/om0IG3HOBY>

Archived:

<https://t.co/7HKK59NYq2>

From May 23 to July 8, 2020, the joint scientific expedition team formed by the Guangdong Provincial Institute of Biological Resources Application and the Department of Ecology, School of Life Sciences, Wuhan University tested bats in Shaoguan City, Huizhou City, Guangdong Province, and Xishuangbanna Dai Autonomous Prefecture of Yunnan Province. Diversity has been scientifically inspected, habitat surveys, netting and recording of predation areas, and sample collection have been carried out to further grasp the distribution and protection of bats in these areas.

4. Wuhan University Bat Research

Jiao Hengwu, a postdoctoral fellow in Dept of Ecology

<https://t.co/pC0Oo2u2ta>

Archived: Not Yet as a Chinese VPN is needed to access these pages and if a Chinese IP is used, <https://t.co/mA4co7ioje> is not accessible.

I shit on the great fearwall!

Jiao Hengwu studied biology and ecology in the School of Life Sciences, Wuhan University, undergraduate and Ph.D. His tutor is Professor Zhao Huabin; his research direction is the origin and evolution of complex traits of bats and the molecular evolution of mammalian food diversity. During his Ph.D. study, he established a cellular-level experimental system for bat taste genes and put forward the scientific hypothesis that the functional evolution of bitter taste receptors promoted the adaptation of animals to the environment, providing new evidence for environmental differences to promote the evolution of animal adaptations; for the first time; It was discovered that the trehalase gene can be used as an important indicator gene for mammalian food habits, providing a new "molecular fossil" for the evolution of mammalian food habits. His research results were published in PNAS, Molecular Biology and Evolution, Molecular Ecology, Proceedings of the Royal Society B and other well-known journals in the field of ecology and evolution. He successively won the National Scholarship for Postgraduates and the First Prize of Wuhan University Academic Innovation Award, and applied for the opportunity to study at the University of Pennsylvania.

5. Ecologists of Wuhan University publish article in Science, calling for a comprehensive understanding of bats - Huabin

Zhao (to be investigated)

<https://t.co/hLrOVzMiga>

Archived:

<https://t.co/CQhmXRn5ia>

Publication:

<https://t.co/dEN8tc2NET>

Search "Huabin Zhao live bat Wuhan"

LETTERS

COVID-19 drives new threat to bats in China

Huabin Zhao

Department of Ecology, Hubei Key Laboratory of Cell Homeostasis, College of Life Sciences, Wuhan University, Wuhan, Hubei 430072, China.

Email: huabinzhao@whu.edu.cn

- Hide authors and affiliations

Science 27 Mar 2020:

Vol. 367, Issue 6485, pp. 1436

DOI: 10.1126/science.abb3088

6. Intermission

Please scan the QR code in the picture to fill in the questionnaire to get more knowledge and eliminate fear.

<https://t.co/yqZDuqanQC>

Archived: Not worth Archiving



问卷调查

新型冠状病毒肺炎疫情 与蝙蝠科学化管理



华中师范大学生命科学学院

我们的生态学

7. Think of bats and SARS again?

Let's say a few words for the bat!

The authors list is of interest

[@gdemaneuf](#) [@MonaRahalkar](#)

Zhao Huabin, WHU

Liu Zhen, Kunming Institute of Zoology

Mao Xiuguang, ECNU

Zhou Peng, WIV

Zhang Libiao, GIBR

<https://t.co/0BFszOZOiH>

Not Archived Yet



8. WIV not the only lab abusing bats in Wuhan!

Graduate students from Dept of Ecology appear on CCTV

<https://t.co/A5VivHfvNp>

"Xie Huanwang, a 2017 master student of ecology at Wuhan University, combined his rich experience in bat field surgery.."

Video: <https://t.co/mQnw0Rg6GI>

On October 16, 2019, the latest animal science general program "Science Zoo" of China Central Television Science and Education Channel (CCTV10) was broadcast for the first time. The animal group introduced in the first episode is pterodactyls (commonly known as a quarter of mammals). Bat); The name of the program is "Night Elf•Bat". Xie Huanwang, a 2017 master student of ecology in the Department of Ecology, School of Life Sciences, Wuhan University, was the first to appear as the promoter of magical animals; he took "Vampire Bats Revealed" as the topic and combined his rich experience in bat field surgery. The predation process of vampire bats is the context, and a special speech was launched for the audience.

9. The efficacy and role of bats

Authoritarian Logic drummed into Chinese school kids.

Repeat!

"Chinese medicinal bats are all bats of the bat family. Salty and flat"

<https://t.co/up9bK9Qq82>

Archived: Not Yet



10. The efficacy and role of pangolin (1)

<https://t.co/4OQr1k9k0z>

Archived:

<https://t.co/PXXhnTi8Hn>

Treatment of:

carbuncle without head

support poison to drain pus

pain of blowing milk

breast milk failure

fecal poisoning

pus from the ear

scrofula

ant fistulas & small holes

For hemostasis: Wash pangolins and dry them, deep-fry them with plants to make them yellow (not over-fire), remove the oil by sun or natural volatilization, and grind them into fine powders (the finer the drier, the better the effect), and pack them into bottles. Inside, autoclave sterilization, then dry in the oven and serve. Dip the bleeding site dry, quickly spread the styptic powder evenly on the bleeding site (including arterial bleeding), and apply pressure gently. Generally, the bleeding can be completely stopped within 1 to 5 minutes. Wounds that need to be sutured can be sutured by gently flushing out the excess hemostatic powder with sterile saline (an animal experiment has proved that pangolin powder can be completely absorbed when sewn into the tissue). Used for 37 cases of hernia repair, appendectomy, subtotal gastrectomy, osteoma, spine fracture plate fixation, amputation, 36 cases obtained satisfactory hemostatic effect, only 1 case of rectal polyp was not effective due to poor compression after removal good.

11. The efficacy and role of pangolin (2)

qi, hemorrhoids, pus & blood

ringworm of the throat

stroke

dysentery, tenesmus

hernia and bladder pain

women's yin and decadence, as hard as an egg: pangolin five dollars. Stir-fried with sand as the end

Treatment of acne blackening



12. Good Advice

A bat's self-report in the circle of friends:

don't eat game anymore!

<https://t.co/yLAV99qZGP>

From the perspective of nutritional value
◀ ▶
The difference between wild animals and domestic animals is minimal
◀ ▶
Can neither prolong life nor stay young
◀ ▶
They cannot cure diseases, they can only cause diseases 🐱
◀ ▶
◀ ▶
But there are always people who are broken in one mouth
◀ ▶
They don't enjoy the evolution of human civilization
◀ ▶
Going back to barbarism

13. Pages to be archived

<https://t.co/pC0Oo2u2ta>

<https://t.co/hLrOVzMiga>

<https://t.co/yqZDuganQC>

<https://t.co/0BFSzOZOiH>

<https://t.co/A5VlvHfvNp>

<https://t.co/up9bK9Qq82>

<https://t.co/4OQr1k9k0z>

<https://t.co/yLAV99gZGP>



14. Pages to be investigated

Huabin Zhao's Lab at Wuhan University

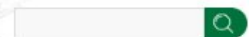
<https://t.co/qun6TvLrFi>

Unable to download:

<https://t.co/PljDaJgNPD>



Huabin Zhao's Lab of Animal Evolution and Ecological Genomics at Wuhan University



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Animal Diversity and Molecular Evolution

I am broadly interested in molecular evolution and comparative genomics in animals. We are most familiar with mammals and birds in general, and bats in particular, but we are open to study other animals in rare cases. Previously, I worked on vision and taste genes in bats, giant panda, mole rats, and penguins. Currently, my research interests are to (1) decipher the evolutionary processes that have generated enormous diversity of form and behaviour well-known in nature, using bats as a model study group, (2) develop or test evolutionary hypotheses on the evolution of sensory systems across



15. Thread mainly looking at Wuhan University involvement in Bat Research, specifically Huabin Zhao's Lab and his PhD students' activities and collaboration with WIV & ECNU, Kunming Institute of Zoology and Guangzhou GIBR (Pangolin

Scam)

unroll [@threadreaderapp](#)

16. Huabin Zhao's Bat Lab (Wuhan University)

Research Profile

<https://t.co/6gXOcmYLJT>

Archived:

<https://t.co/rL7gWS7nVJ>

Researchers

<https://t.co/F5hYw6Yo8N>

Archived:

<https://t.co/GTPHaW4otX>



Huabin Zhao's Lab of Animal Evolution and Ecological Genomics at Wuhan University

17. All Lab Publications (47 PDFs downloaded)

Publication Page

<https://t.co/n8LGklGYr4>

Archived

<https://t.co/o7qABGuahA>

Relevant Journals

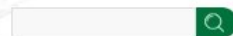
<https://t.co/o8MihfZNnW>

Archived:

<https://t.co/p6V8mETPXL>



Huabin Zhao's Lab of Animal Evolution and Ecological Genomics at Wuhan University



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2020:

Jiao H, Xie HW, Zhang L, Zhuoma N, Jiang P, and **Zhao H*** (2020). Loss of sweet taste despite the conservation of sweet receptor genes in insectivorous bats. *Proceedings of the National Academy of Sciences of the United States of America*. in press.

Lu Q, Jiao H, Wang Y, Norbu N, and **Zhao H*** (2020). Molecular evolution and deorphanization of bitter taste receptors in a vampire bat. *Integrative Zoology*. in press. [PDF 光明网](#)

Zhao H* (2020). Evolution of *VIR* repertoires in subterranean rodents. *Encyclopedia of Life Sciences*. John Wiley & Sons, Chichester, UK, Pp1-6. in press. (Invited Review)

Tian S, Zhou X, Phuntsok T, Zhao N, Zhang D, Ning C, Li D*, and **Zhao H*** (2020). Genomic analyses reveal genetic adaptations to tropical climates in chickens. *iScience*. 23(11):101644. [PDF](#)

18. Bat Research from Zhao Huabin's research group

Evolutionary mechanism of the bat sensory system

<https://t.co/Exa7g09qpO>

Paper

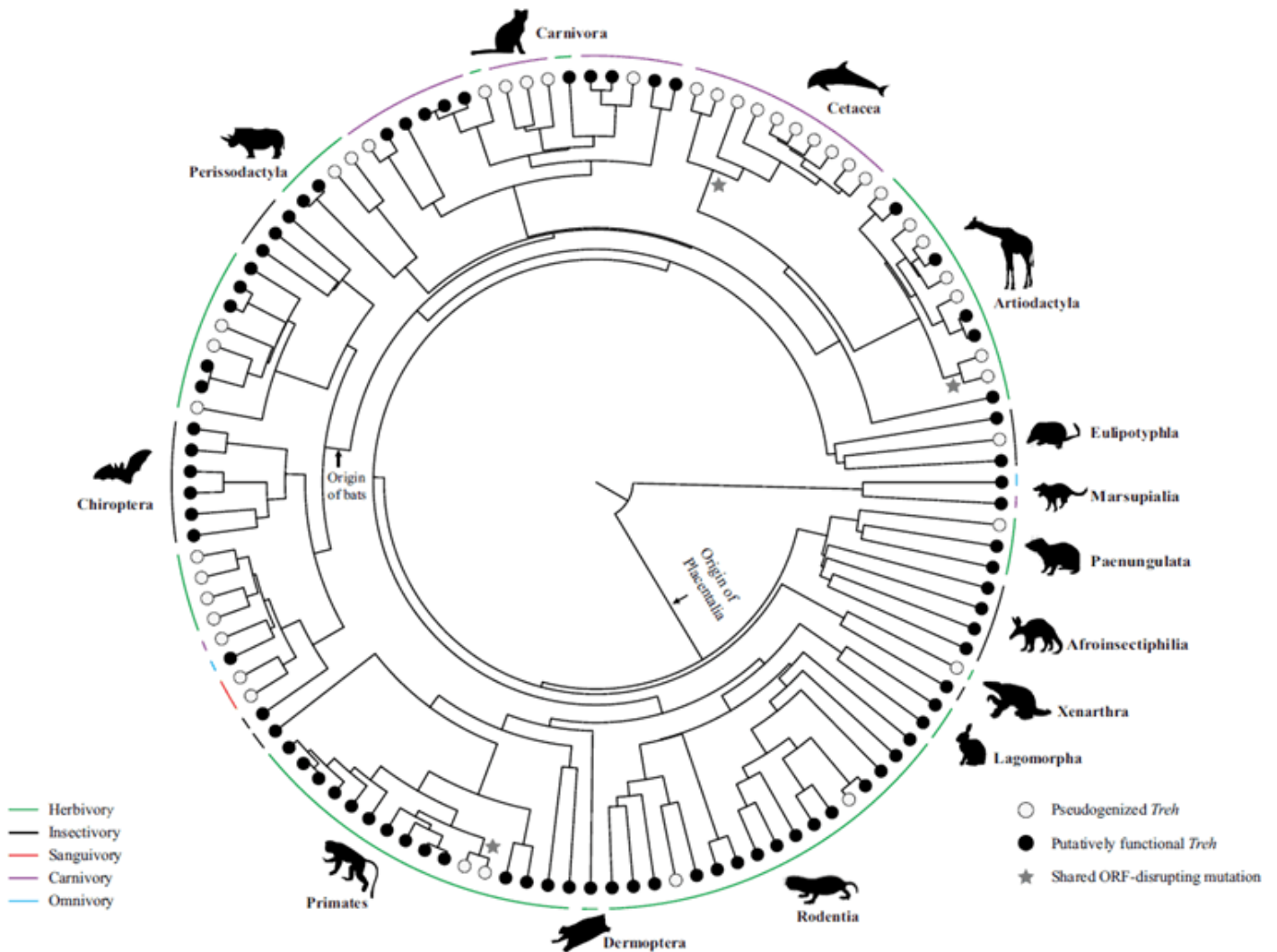
<https://t.co/ck3hQQlpyG>

differentiation of taste function

<https://t.co/8v3FOgLyuj>

Food alteration genes (bats)

<https://t.co/4c3mBMYY0W>



19. First International Forum on Ecology and Evolutionary Biology of Wuhan University - November 13, 2019

<https://t.co/JPyQava5b0>

Professor Stephen Rossiter (Queen Mary- London) and Peng Zhou (WIV)

Please follow the WeChat public account: our ecology

<https://t.co/Aa2jscV7PG>



武汉大学生命科学院·细胞稳态湖北省重点实验室
Hubei Key Laboratory of Cell Homeostasis, College of Life Sciences, Wuhan University



武汉大学首届生态学与进化生物学国际论坛

First Wuhan University International Forum for Ecology and Evolution

Date: November 13, 2019

Venue : North Conference Room, CLS Building (北厅)

Time	Speaker	Title
9:00-10:00	Prof. Stephen Rossiter Queen Mary University of London	Molecular ecology and evolution in bats: bats as models for understanding molecular adaptations underpinning evolutionary innovations.
10:00-10:40	Prof. Jinhong Luo Central China Normal University	Vocal amplitude control in noise by echolocation bats.
10:40-11:20	Prof. Tinglei Jiang Northeast Normal University	The information and function of social calls in bats.
11:20-14:00	Group Photo and Boxed Lunch	
14:00-14:40	Prof. Peng Zhou Wuhan Institute of Virology, Chinese Academy of Sciences	Coexistence of bats and deadly viruses: implication of a unique defense system.
14:40-15:20	Prof. Huabin Zhao Wuhan University	Tracing molecular signatures of dietary diversification in bats.



20. More Research

In praise of bats (In praise of bats. 2017)

<https://t.co/01e2YaavUm>

Think of bats & SARS again? Let's say a few words for the bat Author: 5 bats Blessings

<https://t.co/hom3UeTWfS>

unique innate defense-tolerance system in bats

<https://t.co/ITQbuJBld1>

Linfa Wang



武汉大学生命科学学院·细胞稳态湖北省重点实验室

Hubei Key Laboratory of Cell Homeostasis, College of Life Sciences, Wuhan University



生命科学前沿论坛

The unique innate defense-tolerance system in bats

报告人：Linfa Wang

澳大利亚技术科学与工程院院士

Programme in Emerging Infectious Diseases,
Duke-NUS Medical School, Singapore



时 间：2020年1月15日（周三）上午9:30

地 点：武汉大学生命科学学院一楼中厅会议室

邀请人：赵华斌 教授

报告人简介：

Prof Linfa Wang is the director of the Programme in Emerging Infectious Diseases at Duke-NUS Medical School, Singapore. He is an international leader in the field of emerging zoonotic viruses and virus-host interaction. He is a member of the WHO SARS Scientific Research Advisory Committee, and played a key role in identification of bats as the natural host of SARS-like viruses. Prof Wang has more than 350 scientific publications, including papers in Science and Nature. He is currently the Editor-in-Chief for the open access Virology Journal. In 2010, Prof Wang was elected to the Australian Academy of Technological Sciences and Engineering.

欢迎广大师生参加！

21. Novel coronavirus (2019-nCoV) or bat originated (reposted from Wuhan Institute of Virology, Chinese Academy of Sciences)

<https://t.co/iETxubclWM>