

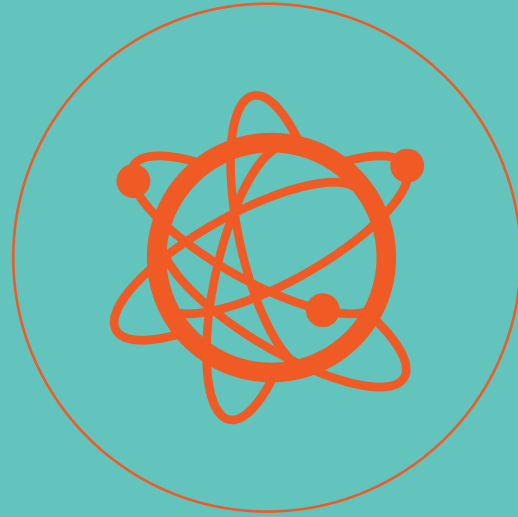
Through the one health concept,
How could Human be in harmony with
marine parasites

Group PITO

Team leader: Zou Yuntong

Team members: Zou Zongyou;
Wang Shengke; Jiang Huixin;
Zhu Linglu; Jiang Ying; Du Jiani

Logo



Offline promotion

Southern Sea Otters



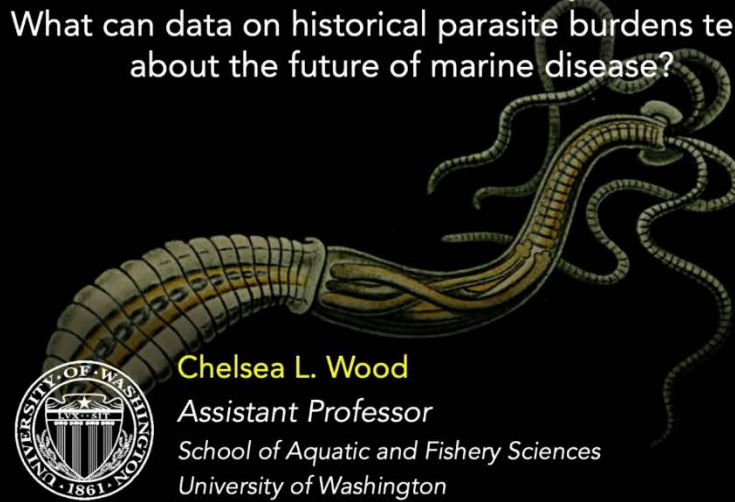
- Occur in nearshore habitats
- Land use AND other anthropogenic factors influence disease
- Cyanobacteria and microcystins
- *Toxoplasma gondii*



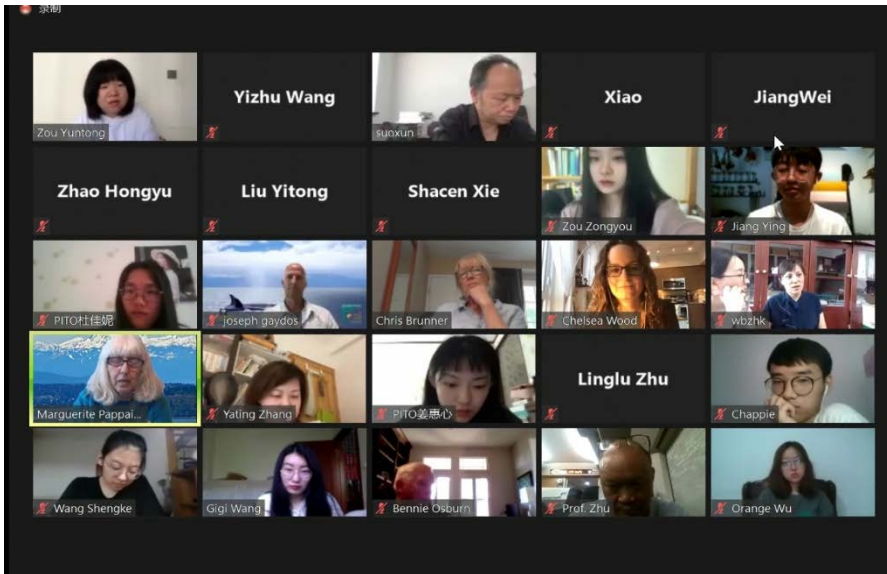
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Ghosts of oceans past:

What can data on historical parasite burdens tell us about the future of marine disease?



Chelsea L. Wood
Assistant Professor
School of Aquatic and Fishery Sciences
University of Washington



Part 1. International workshop

Preparations



PRIMARY RESEARCH ARTICLE

It's a wormy world: Meta-analysis reveals several decades of change in the global abundance of the parasitic nematodes *Anisakis* spp. and *Pseudoterranova* spp. in marine fishes and invertebrates

Evan A. Florenza, Catrin A. Wendt, Katie A. Dobkowski, Teri L. King, Marguerite Pappaionou, Peter Rabinowitz, Jameal F. Samhour, **Chelsea L. Wood**

First published: 19 March 2020 | <https://doi.org/10.1111/gcb.15048>



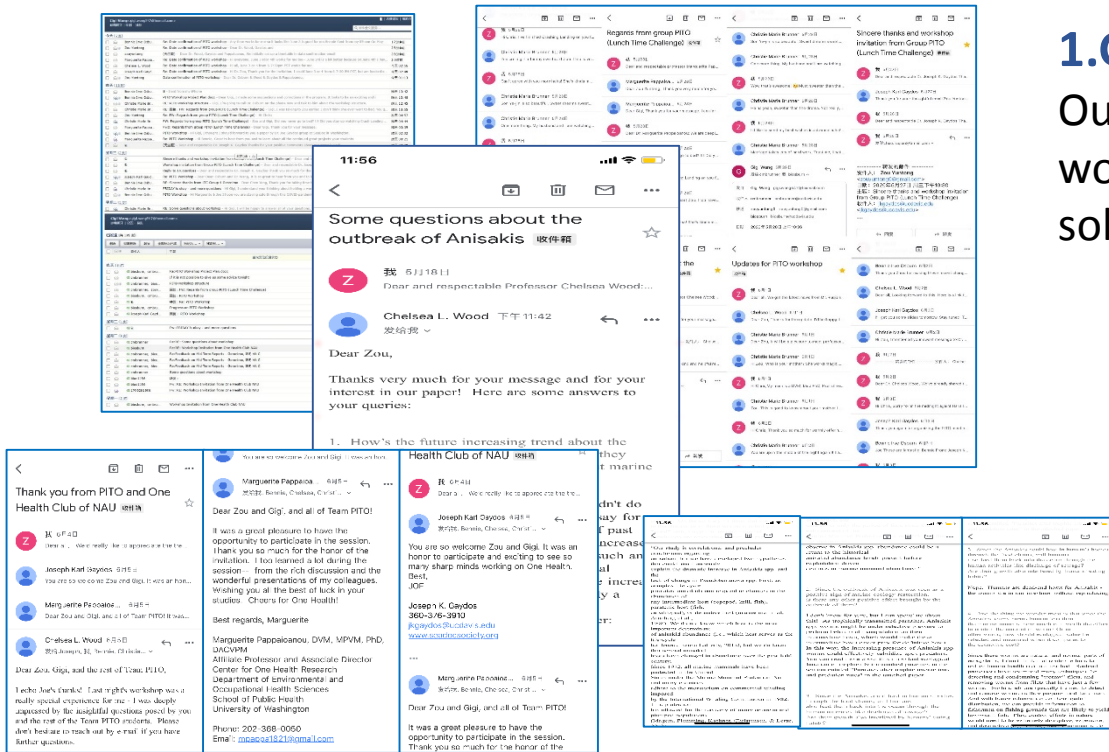
Dear and respectable Professor **Chelsea Wood:**

This is a letter of consulting some questions about the paper *It's a wormy world: Meta - analysis reveals several decades on Wiley Online Library.*

My name is Zou Yuntong, a sophomore student from Nanjing Agricultural University and majoring in veterinary medicine, I've always quite interested in marine ecology and zoonosis. Recently we are doing the Lunch Time Challenge with the University of California, Davis, which aims to solve some daily problems by interdisciplinary team

1. Got in touch with the paper corresponding author
Our core document of mid-term presentation is "It's a wormy world", we successfully contacted the author who helps a lot to solved our problems.

2. Preparation for the workshop
During a whole week hard working and with the kind help of One Health Club NAU and UC, Davis, we finally invited the professors from both abroad and dominant.



Workshop Quality



Chinese Academy of Agricultural Science

Lanzhou Veterinary Institute

China Agricultural University

University of California, Davis

Nanjing Agricultural University

University of Washington



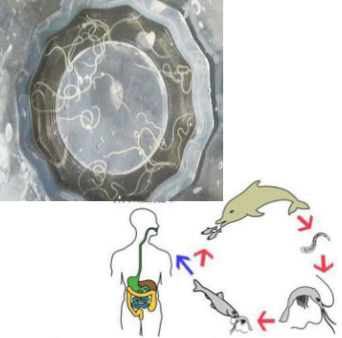
It is our great honor to invite professors from domestic and abroad to participate in this workshop. We benefit a lot from the blending of Chinese and Western thoughts.

Influence & Effect


PITO
Ying Jiang

My mission to propose some feasible measures to solve the problems.


By referring to the literature and combining my own knowledge, I understood the relevant laws and regulations of marine parasites, and I am basically aware that the prevention and control of market management needs to be improved, in that case we can prevent parasitic diseases from the source.




PITO
Linglu Zhu




Environment



Some measures to protect the water environment are already put into use, but the situation is still severe.



Animal




As we know, the parasite is bad for people's health, there are few research on the harm of parasites to animals

Mid-term presentation

After the workshop



PITO
Linglu Zhu

 **?** Does it exactly mean we need to vanish them?




Support

- reduce rates of human mortality and disability
- improve our life qualities
- benefit livestock production and wildlife conservation

Oppose

- parasites will influence host immunity
- parasites affect the rate of host population growth and total population size
- Parasites alter the cycling of energy and nutrients and the across-ecosystem subsidies

PITO
Linglu Zhu

- 1** Firstly, parasites will influence host immunity.
The absence of parasites would impair the host's immune system. Hosts that initially lost their immunity would later be susceptible to re-infection by newly evolved parasites. 
- 2** Secondly, many parasites affect the rate of host population growth and total population size.
According to the "enemy release hypothesis", when a species is introduced into a region to which it is not native, it experiences weaker population regulation by natural enemies than it would in its native range. 
- 3** Thirdly, parasites are far more numerous than their hosts.
Parasites alter the cycling of energy and nutrients and the across-ecosystem subsidies. In many cases, parasites' manipulation of their hosts to move from habitat preferred by the host to habitat suitable for the parasite can result in a transfer of energy and nutrients from one ecosystem to another. 

Final presentation

We learned to solve problems more dialectically and believed that a better understanding of how parasites contribute to the communities and ecosystems in which they are embedded is a critical need as we consider how to make the world less wormy.

Part.2 Subsequent Seminar For The Whole University

The screenshot displays a WeChat meeting interface. The main content is a presentation slide titled "万物健康OneHealth" (One Health). The slide features a central graphic of a cow composed of many small icons, surrounded by text in Chinese and English. The text discusses the concept of One Health, its importance, and the role of various stakeholders. A large red arrow points from the text "275 participants!" to the meeting interface. The interface includes a top navigation bar with icons for mute, video, screen sharing, and chat. The bottom bar shows the meeting controls, including a "结束会议" (End Meeting) button. The time displayed is 下午 4:22.56 to 下午 11:11.30. The text "习素材的副本" (Copy of习素材) is visible in the bottom right corner.

275 participants!

1.Promotion through WeChat official account

(200+views in total)

Workshop preview

Workshop|舌尖上的“虫”——究竟是人类的营养宝藏还是健康灾难?

万物健康OneHealth 6天前



IBF&PITO

注意！前方高能疑问句预警！

你想知道昆虫除了油炸还有什么食用方法吗？

你想知道食用昆虫有哪些优点吗？

你吃的寿司和生鱼片还是安全的吗？

你想知道舌尖上的虫背后都包含着什么秘密吗？

Promotion before activity



Workshop|舌尖上的“虫”——究竟是人类的营养宝藏还是健康灾难?

当提到舌尖上的“虫”，你会谈其色变吗？

Promotion after activity



精彩回放|舌尖上的“虫”——究竟是人类的营养宝藏还是健康灾难?

线上workshop,为你带来不一样的认知碰撞!

Workshop review

精彩回放|舌尖上的“虫”——究竟是人类的营养宝藏还是健康灾难?

万物健康OneHealth 前天



奇怪的知识增加了!

在6月7日晚的分享会中，相信小伙伴们都学到了很多知识吧？

可能你们中不少人惊叹：

啊，原来我喜欢的寿司里可能有寄生虫？！

啊，原来虫子还能做成能量棒吃掉，还是鸡肉味嘎嘣脆？！

啊，原来One Health社团有这么多宝藏学长学姐？！和加州大学戴维斯分校有着千丝万缕的联系？！

2.Promotion through QQ official account zone (700+views in total)



Thanks for your listening!