Peking University Bioaerosol Laboratory Bulletin (PKU-BLB)
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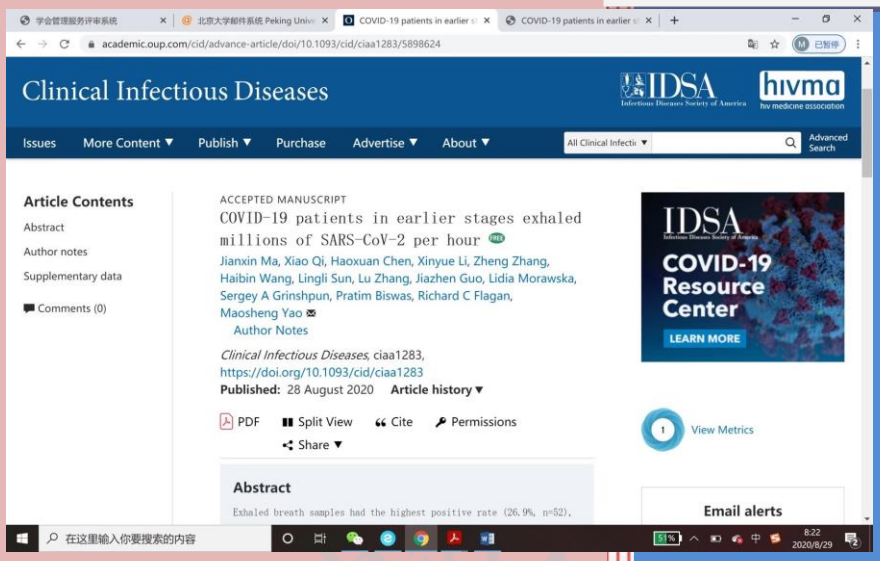
August 2020

Our work discovered that COVID-19 patients in their earlier stages exhaled millions of SARS-CoV-2 per hour!



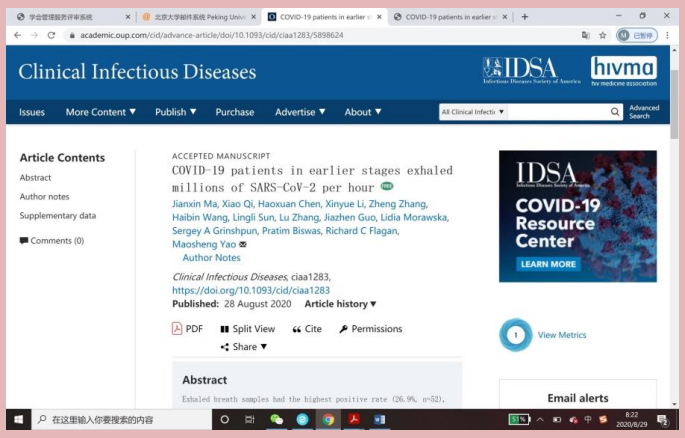
Our laboratory has developed a test-breath-now (TBN) system that is able to rapid screen COVID-19 patients!

北京大学生物气溶胶实验室

Beijing, China

Scientific Publications

1. Our work showed that COVID-19 patients in their earlier stages exhaled millions of SARS-CoV-2 per hour, and published in Clinical Infectious Diseases. The work has been featured by many prestigious media outlets.



2. Our study has shown that air pollution causes health effects through downregulating specific microRNA such as mi-RNA-125b and miRNA-21. The study was published in Environ Sci & Technol (2020).

3.Our study has shown that plant flowers during the Spring time could transmit biological agents through the air, including viruses, bacteria and fungi.

4.Our work "Microbial emission levels and diversities from different land use types" by Li Xinyue et al 2020 was published in Environ Intl.


Environment International
Volume 143, October 2020, 105988

Microbial emission levels and diversities from different land use types

Xinyue Li [1] ... Maosheng Yao

Show more

https://doi.org/10.1016/j.envint.2020.105988

5. Our patent regarding rapid onsite screening human pathogens is issued a National Invention Patent.


证书号第3632556号

发明专利证书

发明名称：一种现场快速检测空气与呼吸道病原微生物的方法

发明人：要茂盛;郑云昊

专利号：ZL 2016 1 0857255.9

专利申请日：2016年09月27日

专利权人：北京大学

6. Our application regarding use of cold-plasma generated water for DNA extraction was issued a National Invention Patient.


证书号第3460373号

发明专利证书

发明名称：一种快速提取细菌基因组DNA的方法

发明人：要茂盛;郑云昊

专利号：ZL 2016 1 0854824.4

专利申请日：2016年09月27日

专利权人：北京大学

地址：100871 北京市海淀区颐和园路5号

7. Dr. Yao co-authored a publication regarding how to minimize indoor airborne transmission of COVID-19.


ScienceDirect

Environment International

How can airborne transmission of COVID-19 indoors be minimised?

Abstract

Other Selected Scientific Activities

1. Dr. Yao was one of 239 experts globally for advocating the airborne transmission of COVID-19, and the claim was featured by New York Times.


nytimes.com

The New York Times

The Coronavirus Outbreak ›

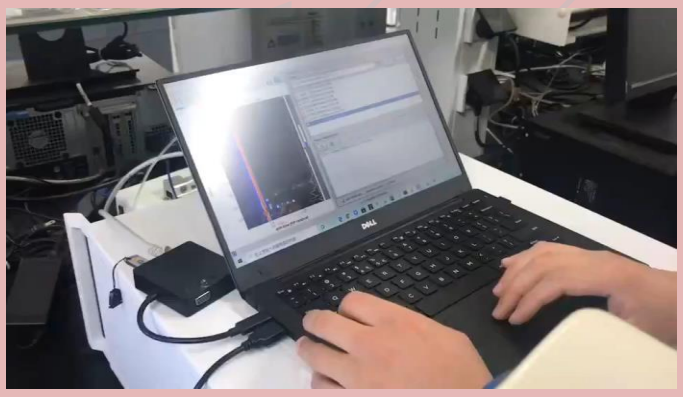
LIVE Latest Updates Maps and Cases

239 Experts With 1 Big Claim: The Coronavirus Is Airborne

The W.H.O. has resisted mounting evidence that viral particles floating indoors are infectious, some scientists say. The agency maintains the research is still inconclusive.

2. Dr. Yao's work on the breath-borne SARS-CoV-2 transmission was published in *Clin Infect Dis* and featured by Peking University.

3. Our lab has developed a COVID-19 screening system named as TBN, which is able to screen the COVID-19 patients within 5 minutes.



TBN system for Screening COVID-19

Students Activities

1. Haoxuan Chen and Ting Zhang successfully passed their PhD dissertation defense， and were awarded the PhD degree from Peking University.

Dr. Haoxuan Chen's PhD defense day

Dr. Ting Zhang's PhD graduation Ceremony-☺2020

2. Haoxuan Chen (Dr. Chen) has won the Beijing Municipality and Peking University Outstanding Graduate Awards.

Our next issue is expected to be in December 2020 & we look forward to exciting news from our group. For other information, please visit our laboratory web site: www.yaopkulab.com. All contents contained in this document are copyrighted and explained by PKU Bioaerosol Laboratory.