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Various Discoveries of SARS-CoV-2 Depict Different Picture of Its Origin

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SARS-CoV-2 causing COVID-19 China. The online journal Medrxiv. pandemic was first discovered in Wu- org published this study and it sumhan, China on Dec. 8, 2019. The disease was fast isolated and identified tected in Barcelona sewage long beby Chinese scientists and informed fore the declaration of the first COV-WHO on Dec. 31, 2019. China ID-19 case, indicating that the infecshared the genetic sequence of NCV on January 12, 2020, which was of fore the first imported case was regreat importance for other countries to use in developing specific diagnostic kits. WHO declared a Public Health Emergency of International Concern in January 2020, and a pandemic in March 2020. As of 19 October 2020, 40.2 million cases have been reported across 189 countries and territories. It has killed 1.1 million people and more than 27.6 million have recovered., but the WHO estimates that around 800 million people in total may have been infected.

Science Magazine reported on last July 24 that researchers from Wuhan Institute of Virology and Huazhong Agricultural University didn't find NCV in samples from farmed animals and livestock taken around Wuhan and in other places in Hubei province. Many years of surveillance in Hubei have never turned up bat coronaviruses close to SARS-CoV-2, which suggested that the jump from animals to humans happened elsewhere.

Because pandemic can happen anywhere in the world, we need to investigate its origin and evolution scientifically. Though the NCV was first discovery in Wuhan, there were several afterwards evidences indicated that it was existed at other places earlier than Wuhan.

the wastewater samples of March 12, 2019

Reuters reported on June 27 that Spanish virologists have found traces of the NCV in a sample of Barcelona waste water collected in March 2019, nine months before the (Santa Catalina, Brazil) from late Oc-

The novel coronavirus (NCV), COVID-19 disease was identified in tober until the Brazil lockdown on a "skyrocketing temperature" after he marized that "SARS-CoV-2 was detion was present in the population beported. Sentinel surveillance of SARS-CoV-2 in wastewater would enable adoption of immediate measures in the event of future COV-ID-19 waves"

2. Japan tested its Auaust. 2019 blood samples **NCV** positive

Japan's Ministry of Health, Labour and Welfare released a report on May 15, 2020 that in order to evaluate the performance of the NCV test kits, the ministry tested 500 blood donation samples collected from January to March in 2019 in Japan's Kō shin'etsu region. Two out of the five hundreds firms showed positive results, indicating that two people were found to be infected by NCV.

3. France back traced its "Patient Zero" to Nov. 16,

Researchers in the city of Colmar in northeastern France recently announced that they identified two X-rays from November 16 and November 18, 2019, that show symptoms they say are consistent with the NCV. If the November cases are confirmed, it would mean the virus was spreading in Europe a full two months before France declared it had Covid–19 cases and even before Wu– han, China confirmed the outbreak.

4. Brazil found NCV in its 1. Spain detected NCV in November 2019 sewage sam-

Medrxiv.org published an article titled SARS-CoV-2 in human sewage in Santa Catalina, Brazil, November 2019. The authors analysed human sewage located in Florianopolis

early March. They detected SARS-CoV-2 in two samples collected independently on 27th November 2019 (5.49 \pm 0.02 log genome copies/L). Subsequent samplings were positive until 4th March 2020 (coinciding with the first COVID-19 case reported in Santa Catalina), with a SARS-CoV-2 RNA increase of one $\log (6.68 \pm 0.02 \log \text{ genome copies})$ L). These results \mathbf{show} SARS-CoV-2 has been circulating in Brazil since late November 2019, earlier than the first reported case in Wuhan.

5. Italy also detected NCV in sewage sample of December 18, 2019

Italian researchers examined 40 waste water samples from October 2019 to February 2020 and discovered genetic traces of SARS-CoV-2 in samples of waste water collected in Milan and Turin on December 18, 2019 and in Bologna on January 29, 2020, the ISS institute said in a statement seen by AFP on Friday. The results were confirmed in two different laboratories by two different methods, the presence SARS-CoV-2 in samples taken in Milan and Turin. The NCV was present in two large Italian cities in December, more than two months before the first case was detected. That suggests the virus appeared in Italy around the same time it was first reported in China.

6. Belleville Mayor declared his NCV infection to be in mid November, 2019

Mayor of Belleville, New Jersey, Michael Melham was tested positive for NCV antibodies on April 29, 2020. But he believes that he was sick with the virus in November 2019, more than a month before doctors in China first reported cases of NCV. Melham said he was sick toward the end of November and suf-

left the League of Municipalities Conference in Atlantic City which was held November 19–21, 2019. "It felt as if I was an addict going through withdrawal," Melham said in a press release. "I didn' t know what was happening to me. I never felt that I could be so sick."

7. CDC director admitted some NCV deaths have been found posthumously

CNN reported on March 11, 2020 that during the House Oversight Committee discussion on the NCV response, the CDC director, Dr. Robert Redfield said that some deaths from NCV have been discovered posthumously. Rep. Harley Rouda asked Redfield if it's possible that some flu patients may have been misdiagnosed and actually had coronavirus. "The standard practice is the first thing you do is test for influenza, so if they had influenza they would be positive, " Redfield said.

Rouda then asked Redfield if they are doing posthumous testing. Redfield said there has been "a surveillance system of deaths from pneumonia, that the CDC has; it's not in every city, every state, every hospi-

Rouda followed up and asked, 'So we could have some people in the United States dying for what appears to be influenza when in fact it could be the coronavirus?" Redfield replied that "some cases have actually been diagnosed that way in the United States today." This hearing was also video recorded.

8. UCLA unveils that COV-ID-19 was spreading silently in Los Angeles last December

UCLA published a study that COVID-19 was spreading silently in Los Angeles last December. Researchers from UCLA and their colleagues at the University of Washington documented an unmistakable upfered from chills, hallucinations and tick in patients seeking treatment for

coughs. The increase began the week of Dec. 22, 2019, and persisted through the end of February.

"A significantly higher number of patients with respiratory complaints and diseases starting in late December 2019 and continuing through February 2020 suggests community spread of SARS-CoV-2 prior to established clinical awareness and testing capabilities," wrote the team led by Dr. Joann Elmore, who is both an internist and professor of health policy and management at UCLA.

Hence, the NCV may have been silently spreading in California as early as last December — more than a month before the first US case was detected, a local official claims. The theory helps explain why California started getting so many cases of so-called community spread. "That means the virus is in the community already — not, as was suspected by the CDC, as only in China and being spread from contact with China."

Conclusion

Owing to the high vigilance of Chinese doctors and effectiveness of Chinese early warning mechanism against infectious diseases, NCV was first discovered in Wuhan, which is the good luck for human being in misfortune. China also demonstrated effectiveness of its combating measures to contain the NCV. However, the above-mentioned eight evidences of NCV origin-related discoveries showed definitely that NCV was not originated in Wuhan. We don't know the exact origin of NCV yet. The global scientific community have a urgent task to work together to find out the real origin of NCV, so that human being will be able to avoid the same misfortune. In this regard, as Science Magazine expressed that Trump and US government owe Chinese an apology.

稿件来源:北美华协网 http: //www.cmaona.org

新冠病毒的各种发现描绘了其起源的不同图景

2019年12月8日,引起新冠肺炎大 冠病毒阳性 流行的新型冠状病毒(新冠病毒)在武汉 被首次发现,即SARS-CoV-2。中国科学 家快速分离和鉴定该疾病,并于2019年 12月31日通报给世卫组织。中国于 2020年1月12日共享了新冠病毒的基因 序列,这对其他国家针对该病毒开发特 定的诊断工具具有重要意义。世卫组织 于2020年1月宣布国际关注的公共卫生 紧急状态,并于2020年3月宣布大流 行。截至2020年10月19日,189个国家 和地区报告了4020万例病例。它已经造 成110万人死亡,超过2760万人已经康 复。但据世界卫生组织估计,总共约有 8亿人受到感染。

《科学》杂志今年7月24日报道,武 汉病毒学研究所和华中农业大学的研究 人员在武汉周边和湖北省其他地方采集 的养殖畜禽样本中没有发现新冠病毒。 湖北多年的监测从未发现过接近 SARS-CoV-2的蝙蝠冠状病毒,这表明新

由于大流行可能发生在世界任何地 方,我们需要科学地研究它的起源和演 变。尽管新冠病毒是在武汉首次发现 在其他地方存在。

1、西班牙在 2019 年 3 月 12 日的废 水样本中检测出新冠病毒

路透社6月27日报道,西班牙病毒 学家在2019年3月收集的巴塞罗那废水 样本中发现了新冠病毒的踪迹,而这一 样本是在中国发现新冠肺炎疾病前9个 月收集的。在线杂志 Medrxiv.org 网站发 表了这项研究,并总结说"早在宣布第一 例新冠肺炎病例之前,就在巴塞罗那污 水中检测到了SARS-CoV-2,这表明在报 告第一例输入性病例之前,人群中就存 在这种感染。对废水中的SARS-CoV-2 进行哨点监测,可在未来出现新冠肺炎 流行时立即采取措施"

日本厚生劳动省于2020年5月15日 发布报告称,为评估新冠病毒检测试剂 盒的性能,该省对2019年1月至3月在 日本甲信越地区采集的500份献血样本 进行了检测。500样本中有2个显示阳 性结果,表明发现有2人感染了新冠病

3、法国将"零号病人"追溯到 2019 年 11 月 16 日

法国东北部科尔马市的研究人员最 近宣布,他们确定了2019年11月16日和 11月18日的两次 X 光片, 显示出他们所 说的与新冠病毒一致的症状。如果11 月的病例得到证实,这意味着病毒在欧 洲传播了整整两个月后,法国才宣布它 的新冠肺炎感染病例,这个时间甚至在 中国武汉证实有疫情之前。

4. 巴西在 2019 年 11 月 的 污水样本 中发现了新冠病毒

Medrxiv.org 网站,发表了一篇题为 冠病毒从动物到人类的跳跃发生在其他 2019年11月在巴西圣塔卡塔琳娜发现 SARS-CoV-2"的文章。作者分析了1019 年10月底至今年3月初巴西封锁期间弗 洛里亚诺波利斯(巴西圣塔卡塔琳娜)的 人类污水。他们在2019年11月27日独 的,但后来的一些证据表明它早于武汉 立 采 集 的 两 份 样 本 中 检 测 到 SARS-CoV-2,随后的采样在报告巴西第 一例的新冠肺炎感染的2020年3月4日 之前都呈阳性(与圣塔卡塔琳娜报告的 第一例新冠肺炎病例一致),而且废水中 SARS-CoV-2的含量一直在增加。这些 结果表明,自2019年11月下旬起, SARS-CoV-2就在巴西传播,早于武汉的 第一例报告病例。

水样本中也检测到了新冠病毒

国际特殊技能研究所周五在法新社 发表的一份声明中说,意大利研究人员 从 2019 年 10 月至 2020 年 2 月 对 40 个废 水样本进行了检测,并在2019年12月18 日米兰和都灵以及2020年1月29日在博

SARS-CoV-2的基因痕迹。该结果在两 个不同的实验室用两种不同的方法进行 去年 12 月 的样本中存在 SARS-CoV-2。 因此,在发现第一个例病例的两个多月 前,新冠病毒已经出现在意大利的两个 大城市。这表明,该病毒在意大利出现 的时间与中国首次报道的时间大致相

6、贝尔维尔市长宣布他的新冠病毒 感染发生在2019年11月中旬

尔·梅勒姆于2020年4月29日被检测出 新冠病毒抗体阳性。但他相信,他是在 2019年11月染上这种病毒的,比中国医 生首次报告新冠病毒病例早了一个多 月。梅勒姆说,他在2019年11月19日至 21日在大西洋城举行的市政联盟会议后 离开时,病得发冷,产生幻觉,体温骤 升。梅勒姆在一份新闻稿中说:"感觉我 就像是一个戒毒的瘾君子,我不知道发 生了什么事,我从来没觉得自己会病得 这么厉害。"

7、疾病预防控制中心主任承认,死 后尸体检测发现了一些新冠病毒死亡病

美国有线电视新闻网(CNN)在2020 年3月11日报道说,在众议院监督委员 会关于新冠病毒应对的讨论中,CDC主 任罗伯特·雷德菲尔德博士说,已经发现 了一些死于新冠病毒的死亡病例。众议 员哈雷·鲁达问雷德菲尔德,"是否有可 能有些流感患者被误诊,实际上感染了 冠状病毒。"雷德菲尔德说:"标准做法 是,你要做的第一件事就是检测流感,所 5、意大利在2019年12月18日的污 以如果他们感染了流感,他们就会呈阳 性。"。

> 做死后尸体测试。雷德菲尔德说,CDC 新冠病毒的确切来源,全球科学界迫切 已经建立了"肺炎死亡监测系统;这并不 是每个城市、每个州、每个医院都有。

鲁达接着问:"那么有可能美国的一

于冠状病毒"?雷德菲尔德回答说:"今 天在美国,有些病例确实是这样诊断出 了确认,结果显示在米兰和都灵采集的 来了"。这次听证会也被录像记录了下

8、加州大学洛杉矶分校公布新冠肺 炎去年 12 月在洛杉矶悄无声息地传播

加州大学洛杉矶分校发表了一项研 究结果,称去年12月新冠肺炎在洛杉矶 悄然传播。加州大学洛杉矶分校的研究 人员和他们在华盛顿大学的同事们记录 了寻求治疗咳嗽的病人明显增加。这种 美国新泽西州贝尔维尔市市长迈克 增长始于2019年12月22日的一周,一直 持续到今年2月底。

乔安·埃尔莫尔博士领导的研究小 组写道:"从2019年12月下旬开始,一直 持续到2020年2月,患有呼吸道症状和 疾病的患者数量显著增加,这表明在建 立好新冠病毒临床认知和检测能力之 前,SARS-CoV-2已经在社区内传播。埃 尔莫尔博士是加州大学洛杉矶分校的内 科医师和卫生政策与管理教授。

因此,新冠病毒可能早在去年12月 就在加州悄然传播。一位当地官员称, 这比美国公开的首例被侦测到的新冠病 毒个案早一个多月。这个理论有助于解 释为什么加州开始出现这么多所谓的社 区传播病例。"这意味着病毒已经在社区 传播了,而不是像疾控中心怀疑的那样, 只在中国传播,而且是通过与中国接触 才传播的。'

结论

得益于中国医生的高度警惕性和中 国传染病预警机制的有效性,新冠病毒 首次在武汉被发现,这是人类遭遇不幸 时的万幸。中国还展示了遏制新冠病毒 的有效打击措施。然而,上述8个与新 冠病毒起源有关的发现证据明确表明新 鲁达接着问雷德菲尔德他们是否在 冠病毒并非起源于武汉。我们还不知道 需要共同努力,找出新冠病毒的真正起 源,使人类能够避免同样的不幸。在这 方面,正如《科学》杂志所说,特朗普和美