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Oil in the age of coronavirus: a U.S. shale bust like no other



Inside C2

Southern DAILY

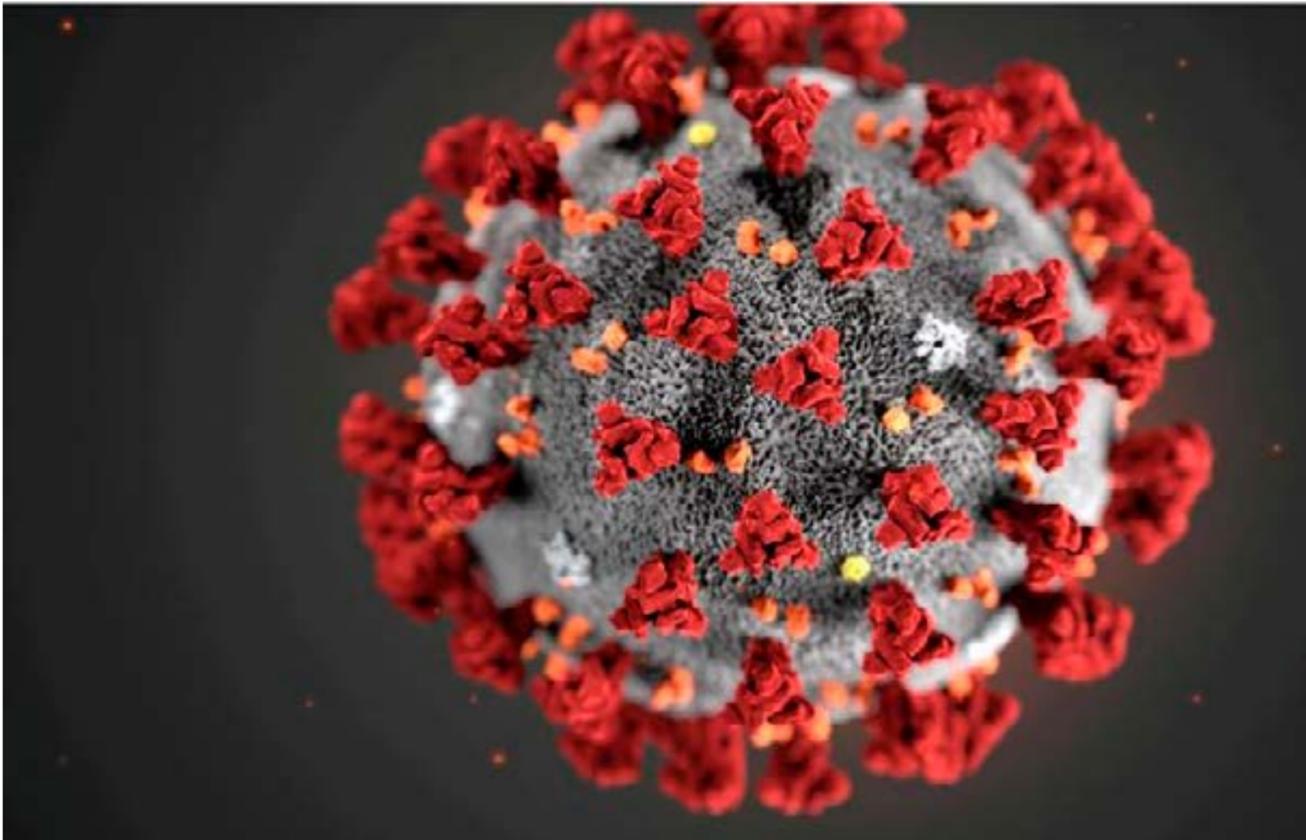
Make Today Different

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Scientists focus on how immune system T cells fight coronavirus in absence of antibodies



FILE PHOTO: The ultrastructural morphology exhibited by the 2019 Novel Coronavirus (2019-nCoV), which was identified as the cause of an outbreak of respiratory illness first detected in Wuhan, China, is seen in an illustration released by the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia, U.S. January 29, 2020. Alissa Eckert, MS; Dan Higgins, MAM/CDC/Handout via REUTERS

(Reuters) - As scientists question whether the presence, or absence, of antibodies to the novel coronavirus can reliably determine immunity, some are looking to a different component of the immune system, known as T cells, for their role in protecting people in the pandemic.

FILE PHOTO: The ultrastructural morphology exhibited by the 2019 Novel Coronavirus (2019-nCoV), which was identified as the cause of an outbreak of respiratory illness first detected in Wuhan, China, is seen in an illustration released by the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia, U.S. January 29, 2020. Alissa Eckert, MS; Dan Higgins, MAM/CDC/Handout via REUTERS

Recent studies show that some recovered patients who tested negative for coronavirus antibodies did develop T cells in response to their COVID-19 infection. While the studies are small and have yet to be reviewed by outside experts, some scientists now say that people who experience a mild illness, or no symptoms at all, from the new coronavirus, may be eliminating the infection through this T cell response.

The findings add to the evidence that an effective COVID-19 vaccine will need to prompt T cells to work in addition to producing antibodies, and may have implications for several treatments in development. They may also shed light on how immunity to new exposure to infection

could work.

"There is mounting evidence that people exposed to the virus have a transient (short-lived) antibody response, or have a T cell response in spite of a minor or absent antibody response," Dr Alessandro Sette, professor and member of the La Jolla Institute's Infectious Disease and Vaccine Center in California, told Reuters.

When a virus gets past the body's initial defenses - which include infection-fighting white blood cells - a more specific "adaptive" response kicks in, triggering production of cells that target the invader. These include antibodies that can recognize a virus and lock onto it, preventing its entry into a person's cells, as well as T cells that can kill both invaders and the cells they have infected.

Six months into a global COVID-19 pandemic that has infected more than 12 million people, questions remain about whether the antibody response to this virus is robust and lasts over time. That could mean T cells have a more important role in offering protection against the illness.

"T cells are often important in controlling viral infections. We are seeing evidence of that," John Wherry, director of the University of Pennsylvania's Institute for Immunology, told Reuters.

A recent small French study here not yet reviewed by experts,

found that six out of eight family members in close contact with relatives who had COVID-19 developed a T cell response, but did not test positive for antibodies.

A Swedish study here of 200 people found a strong T cell response in most individuals who had mild illness or no symptoms following coronavirus infection, regardless of whether they showed an antibody response. The finding suggests that coronavirus infection rates may be higher than what has been studied using antibody tests alone, the researchers said.

MEMORIES OF CORONAVIRUS

The focus on T cell responses could also shed light on the prospect for longer-term immunity.

There is some evidence that T cells developed after exposure to other coronaviruses that cause the common cold could help fight off the new virus, known as SARS-CoV-2.

A study led by the La Jolla Institute detected T cells that reacted to SARS-CoV-2 in about half of stored blood samples collected between 2015 and 2018, suggesting that the immune system cells developed after previous infection with circulating common cold coronaviruses, and that they might help protect against the new virus.

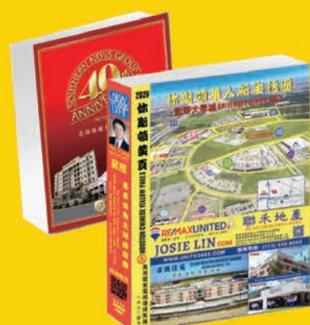
"It is a potentially encouraging piece of evidence," Wherry said.

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WEA LEE'S GLOBAL NOTES

07/10/2020

CORONAVIRUS DIARY

Mayor Turner We Support You

Houston Mayor Sylvester Turner in his news conference indicated that he would cancel the Texas Republican Party's in-person convention and event that was scheduled to be held in downtown Houston at the George R. Brown Convention Center on July 16.

The Mayor said, "Look, these are some very serious times and for the public safety of people attending the convention, their employees, their family members and the people of Houston, the public health concerns are first and foremost."

Republican Chair James Dickey criticized the mayor for what he said was a political calculation, rather than a safety measure.

Texas was the earliest state to open for business. We could have never imagined that the virus would come back and cause a more serious problem, especially in the city's poorer area.

This morning I was talking to Kenneth Li, Chairman of the Southwestern District which has been the hardest hit area. We



discussed what we can do for local residents and the many shopping centers and apartment complexes.

This is a very critical time we are facing now, and we urge all community leaders to come out and join hands with the City to encourage our residents to follow CDC guidelines to protect our people.

We really regret that so many of our

small businesses are still suffering big losses and some of them have already closed down. And many lives have been lost, but yet, we are still watching the political games being played on all levels all across the country.

Mayor Turner, we will support you. After all, we are in the same family.



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Stay Home!

BUSINESS

Wear Mask!

A record 8,181 coronavirus patients were hospitalized Sunday in Texas, and officials in major cities warned that hospitals' intensive care capabilities could be overwhelmed within weeks, the Texas Tribune reports.

Texas Hospitals In Danger Of Being Overwhelmed As Coronavirus Surges

cases on Tuesday, according to Texas Health and Human Services. **Why it matters:** This is the first time the state reported more than 10,000 new cases in a single day since the start of the COVID-19 pandemic.

• Texas was one of the first states to reopen after its initial coronavirus lockdown. Texas Gov. Greg Abbott allowed the state's stay-at-home order to expire in late April.

By the numbers: Texas also reported more than 9,000 hospitalizations from the virus on Tuesday and set a daily record for deaths in a single day, hitting 60. **Of note:** A lag in testing results from the Fourth of July weekend partially contributed to the increase in reported cases on Tuesday.

The big picture: The state renewed a public mask mandate last week because of the surge in new cases, while Abbott issued a proclamation allowing mayors and county judges to restrict outdoor gatherings of more than 10 people.

• Only New York and Florida have also recorded more than 10,000 cases in one day. New York exceeded that milestone in April, while Florida reported 10,109 new cases last week. (Courtesy Texas Tribune)

Several Texas cities worry hospitals may run out of beds in two weeks or sooner

As local officials express concerns that their hospitals could be overloaded with coronavirus patients, some are urging Gov.



Health care workers move a patient in the COVID-19 unit at United Memorial Medical Center in Houston. (Photo/Mark Felix/AFP via Getty Images)

Compiled And Edited By John T. Robbins, Southern Daily Editor

Greg Abbott to empower local governments to issue stay-at-home orders.



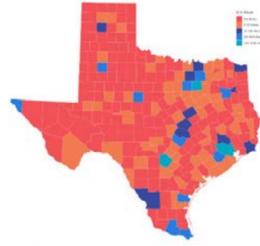
As Texas hit another record high Sunday, reporting 8,181 people hospitalized for the new coronavirus, local officials predicted cities like Houston could soon run out of space to care for the sickest patients. (Photo/ May-Ying Lam/the Texas Tribune)

Local officials and experts in Austin, San Antonio, Houston and Fort Worth have expressed concerns in recent days that increasing coronavirus hospitalizations could overwhelm their intensive care capacities, with some saying it could happen in less than two weeks. As Texas hit another record high Sunday, reporting 8,181 people hospitalized for the new coronavirus, local officials predicted cities could soon run out of space to care for the sickest patients. The state reported that there still are 13,307 available staffed hospital beds, including 1,203 available staffed ICU beds statewide, but hospital capacity varies greatly by region.

On Sunday, Austin Mayor Steve Adler told the Austin American-Statesman that hospitals there could be overwhelmed in the "next 10 days to two weeks" if

the amount of people admitted because of the coronavirus continues to increase, adding that 434 out of 1,500 Austin-area hospital beds for coronavirus patients are occupied. The San Antonio Express-News also reported that the city's hospitals could be overrun with patients in the next week or two, noting that the number of hospitalized coronavirus patients in that area's trauma service region rose by 55% in the past week.

The Fort Worth Star-Telegram reported Tuesday that Rajesh Nandy, an associate professor of biostatistics and epidemiology in the UNT Health Science Center's School of Public Health, warned that Tarrant County hospitals could reach capacity in about three weeks.



As of Saturday, 10 of 12 hospitals in Texas' Rio Grande Valley had already reached capacity as the number of people being hospitalized for the coronavirus more than doubled over the last two weeks. Ten of Texas' trauma service regions have more than 70% of their beds filled, with six of those regions reporting their beds are at least 80% filled, according to data from the Texas Department of State Health Services.

On Thursday, Gov. Greg Abbott ordered Texans in most counties to

wear masks in public. The mandate warns people living in counties with more than 20 active coronavirus cases that first-time violators will face a warning while repeat offenders could face a \$250 fine.

Adler and Harris County Judge Lina Hidalgo urged Abbott in television appearances Sunday to give cities the power to issue stay-at-home orders in order to fight the spread of the virus. "What I'm being told is that there's not the staffing to go along with the surge, and if this is happening in Austin, Dallas and Houston and San Antonio all at the same time, we're in trouble," Adler told CNN's "State of the Union" Sunday. Adler added that while he appreciates Abbott mandating the use of face masks, he believes the lack of a united messaging has put the state in danger and hopes the message "hasn't come too late."

Hidalgo expressed similar concerns on ABC's "This Week." "As long as we're doing as little as possible and hoping for the best, we're always going to be chasing this thing. We're always going to be behind, and the virus will always outrun us," she said. (Courtesy the Texas Tribune)

Texas reports more than 10,000 coronavirus cases



A person receives a coronavirus test on July 7 in Austin, Texas. (Photo/ Sergio Flores/Getty Images)

Texas reported a record 10,028 coronavirus



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Editor's Choice



A general view shows an intensive care unit bed with a special artificial respiration device where patients with the coronavirus disease (COVID-19) could be treated in Hanau



Picture shows a special artificial respiration device in an intensive care unit where patients with the coronavirus disease (COVID-19) could be treated in Hanau



A riot police officer extinguishes a fire during a demonstration against government plans to regulate street protests, in front of the parliament building in Athens, Greece. REUTERS/Alkis Konstantinidis



General view at the famous red-light district "Reeperbahn" during the outbreak of coronavirus disease (COVID-19) in Hamburg



The showcase of a souvenir-shop displays a protective gear at the famous red-light district "Reeperbahn" during the outbreak of coronavirus disease (COVID-19) in Hamburg



Residents line-up in their vehicles to be tested amid the global outbreak of the coronavirus in Houston, Texas. REUTERS/Adrees Latif



Medical staff assess for COVID-19 at public Victoria Health Unit, BC



Israeli forces fire a sound grenade at Palestinian demonstrators during a protest against Jewish settlements and Israel's planned annexation of parts of the Israeli-occupied West Bank, in the Palestinian town of Asira ash-Shamaliya. REUTERS/Raneen..

U.N. Warns Of Global Mental Health Crisis Due To COVID-19 Pandemic



Coronavirus could cause a global mental health crisis, the United Nations warns.

KEY POINTS

The United Nations has warned that coronavirus could cause a global mental health crisis.

The U.N. report highlighted those vulnerable to mental distress, including children and young people, and healthcare workers who see patients dying from COVID-19.

Compiled And Edited By John T. Robbins, Southern Daily Editor

LONDON (Reuters) - A mental illness crisis is looming as millions of people worldwide are surrounded by death and disease and forced into isolation, poverty and anxiety by the pandemic of COVID-19, United Nations health experts said on Thursday.

"The isolation, the fear, the uncertainty, the economic turmoil - they all cause or could cause psychological distress," said Devora Kestel, director of the World Health Organization's (WHO) mental health department. Presenting a U.N. report and policy guidance on COVID-19 and mental health, Kestel said an upsurge in the number and severity of mental illnesses is likely, and governments should put the issue "front and centre" of their responses.

"The mental health and wellbeing of whole societies have been severely impacted by this crisis and are a priority to

be addressed urgently," she told reporters at a briefing.



FILE PHOTO: "Grief holds her covered face against the shoulder of History and weeps in mourning" as depicted at the Peace Monument in front of the U.S. Capitol in Washington, U.S., March 23, 2020. (Photo/Reuters/File Photo)

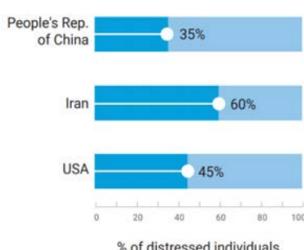
The report highlighted several regions and sections of societies as vulnerable to mental distress - including children and

young people isolated from friends and school, healthcare workers who are seeing thousands of patients infected with and dying from the new coronavirus. Emerging studies and surveys are already showing COVID-19's impact on mental health globally. Psychologists say children are anxious and increases in cases of depression and anxiety have been recorded in several countries. Domestic violence is rising, and health workers are reporting an increased need for psychological support.

Reuters last week reported from interviews with doctors and nurses in the United States who said either they or their colleagues had experienced a combination of panic, anxiety, grief, numbness, irritability, insomnia and nightmares.

FIGURE 1

National surveys in 2020 reveal high prevalence of distress in the population during COVID-19



Outside of the health sector, the WHO report said many people are distressed by the immediate health impacts and the consequences of physical isolation, while many others are afraid of infection, dying, and losing family members. Millions of people are facing economic turmoil, having lost or being at risk of losing their income and livelihoods, it added. And frequent misinformation and rumors about the pandemic and deep uncertainty about how long it will last are making people feel anxious and hopeless about the future.

It outlined action points for policy-makers to aim "to reduce immense suffering among hundreds of millions of people

and mitigate long-term social and economic costs to society".

These included redressing historic under-investment in psychological services, providing "emergency mental health" via remote therapies such as tele-counseling for frontline health workers, and working proactively with people known to have depression and anxiety, and with those at high risk of domestic violence and acute impoverishment.



Domestic violence is rising, and health workers are reporting an increased need for psychological support.

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selling for frontline health workers, and working proactively with people known to have depression and anxiety, and with those at high risk of domestic violence and acute impoverishment. (Courtesy weforum.org)



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SC 副刊 Daily News

中国名花，五月花神，一开就惊艳全场

牡丹谢了，芍药开了。牡丹虽美，芍药也不逊色，芍药花姿绰约，花色艳丽，色香韵俱佳，为群芳之相，五月花神。

芍药之美，圆融，紧凑，大气，《本草释名》中记载，芍药，犹绰约也，此草花容绰约，故以为名。从名字里就能看出芍药芳姿不俗，另外一个字“药”，则体现了她的另一个属性——药理性。

芍药是少有的药用价值极大、同时也观赏性极强的开花植物，它的块根就是中药里的白芍，入药后具有镇痉、镇痛、通经的作用。这种功效对女子来说是极为重要的，它能够滋阴补血、益气安神、解痉止痛、镇静消炎，因而被称为“妇科之花”。

喜欢芍药的花友，不知道你们有没有听说过这样一个故事：

东汉末年，神医华佗为了方便研究药草，就在他的房屋后面圈了一个园子，开辟成药园，种了各种中药草，每味药草他都要亲自试过药性后才用到病人身上。

有个外地友人来访，见他这里没有芍药，就送了华佗几粒芍药籽，华佗就

把它随手种在了药园里，等芍药长叶开花后，他仔细研究了芍药的叶、茎、花，发现没什么特别的功效，就没再对芍药有过多关注。

一次，华佗坐在灯下看书，忽听有女子的哭声，推门走出去后，又不见人影，华佗颇感纳闷，他的妻子望着窗外的花草药草说到，这里的一花一草到你手里都成了良药，唯独芍药被你冷落一旁，她自然感到委屈了。华佗听罢笑道：我尝百草，对其药性无不辨得一清二楚，唯独芍药不能入药，怎能说委屈了她？

之后的某一天，华夫人血崩腹痛，用过好些药都不见好转，最后没办法了，想起芍药还没有用过，就瞒着丈夫把芍药的根煎水后服用了，结果不到半天腹痛就止住了，又服用了两日，病痛全无。

华佗赶紧把此事告诉了华佗，华佗才意识到自己忘记研究芍药的根了，果真是委屈了芍药。他对芍药的块根做了细致的研究和试验，发现用处颇多，功效很强，能镇痛安神、平肝益气、养血敛阴，此后，芍药就被广泛地使用了。

芍药不但是有名的中药材，她还是中国人的爱情之花。古代男女交往，别



离之时，多情女子总爱将芍药赠与心上郎君。芍药又因此而被称为“将离”。君将离去，我心悠悠。多情女子就是这样借芍药来表达心意的，微寒中透着些许心酸。

每一棵花草的背后，都有一个美丽的故事，花友们，你喜欢芍药吗？如果你也想养，那下面这关于芍药的常识可要了解哦~

芍药花期5-6月，比牡丹晚一个月左右，但是比牡丹更好养护，毕竟它是草花，管理起来简单省心，而且南方和北方都可以养。但是一定要搞清楚最适合的种植时间。

农谚：“七芍药八牡丹”，就是说芍药适合在农历七月份（阳历8月下旬~9月上旬）的时候种植，这个适合，中原地区的芍药就可以分株了，分下来的

块根可以移栽，南方地区温度高，要适时推迟。

中国名花，五月花神，一开就惊艳全场

芍药喜光照，耐旱耐寒，冬天最好在0度左右的环境中经历40天的春化，这样来年萌芽会很多，花芽在长日照下会发育开花，如果光照不足，就会只长叶子不开花哦~

怎么让自己家的狗狗比别人家的更听话

“子不教，父之过”。熊孩子捣乱，家长背锅；如果宠物不老实，那是铲屎官的责任。除了从幼犬开始训练外，训练狗狗的重要原则就是：对的表扬；错的不予理睬；避免怜悯导致的娇惯。

在训练狗狗的过程中，家庭成员应团结一致——设定一个规矩后，所有人都不能擅自打破规矩，否则狗狗会疑惑：你们想要的到底是啥？我这么做到底对不对？甚至去试探：我能不能再过分一点？所以，要训练，就要坚守规矩。

说起狗狗的坏毛病，主要有四点：扒餐桌、扑人、乱叫、随地大小便。所以我们针对这四乱来讲训练技巧。什么握手、打滚、跳绳、后空翻之类的，就自行搜索吧。

一、扒桌子
狗扒桌子，主要是由于它在幼年时期吃到了太多“餐桌食物”。有些人在吃饭的时候就习惯餐桌上的食物直接丢给狗狗，以至于狗狗形成了一个错误的

意识：餐桌上的食物就是我的食物。

餐桌食物给狗狗，这个行为存在两个主要问题：第一，人类的吃的东西对狗狗来说口味较重，且可能存在营养不均衡的情况，容易使其出现各种健康隐患，并产生挑食的习惯。

第二，等狗狗长大之后，它们有可能会直接爬上桌子，特别是大型犬，届时所有的主人反而会觉得自己受到了冒犯而处罚狗狗，这将引起狗狗的困惑，并产生更多的问题。

要避免这个问题，首先所有人应达成共识——狗狗只能吃狗粮或犬类零食，任何人、任何时间都不可以给狗狗任何餐桌食物。但是如果狗狗在主人一家吃饭的时候蹲守在桌旁乞食怎么办呢？这时所有人唯一需要做的就是无视它。请相信，只要铲屎官坚持，狗狗就不再坚持。这种“冷漠”不会持续太久，狗狗就能明白：乞食只是白费力气。铲屎官也可以在给狗狗准备狗粮的时候提醒

它：“来吃豆豆啦！”以后每当狗狗想扒餐桌就告诉它：“去吃你的豆豆去~”时间久了，狗狗也能明白“狗粮就是我的食物”这个道理。

二、扑人
“扑人”在某些时候是汪星人在表达兴奋以及对人类的喜爱，它们想要人类的“抱抱”。但是作为大型犬，“求抱抱”的行为就会变得非常危险，尤其是面对小孩子或者身材娇小的人时，甚至有可能把对方扑倒。

扑人的行为通常都是狗狗在幼犬时期养成的习惯，此时狗狗体型较小，主人也就忽略了潜在的威胁。汪星能够记住人类的“鼓励”行为，如果它们在扑人的时候，人们就迎合它，给它爱抚或拥抱，那么汪星人就会认为“扑人有爱抚、有抱抱”。正确的做法是，如果狗狗过来扒自己的裤腿，不要弯腰下去抚摸，而是应该无视，然后转身。等狗狗从裤腿上下来，并坐下的时候，再对

它进行奖励。这样你就会得到一只见到人就会乖乖坐下的好狗狗。此时可以配合语言如“坐”，加深狗狗对“坐”这个行为的理解。

三、犬吠
犬吠中含有多种信号，其中一部分是警戒、通知其他家庭成员、害怕等因素。我们主要讨论上述情况的解决方案。

首先是之前很多品种介绍都提到的让狗狗在幼犬时期尽可能多地参与社交活动。如果狗狗在刚出生的时候没有与大多数陌生人接触过，那么它长大之后不免对陌生人产生一点点紧张的情绪，有时候这种情绪会通过吠叫表达出来。

主人最好在家里一进门的位置准备好小零食，只要家里来客人，就邀请客人拿一点小零食喂给狗狗，这样做的好处有两个：首先让狗狗对陌生人不再感到紧张，而是将他与好吃的联系在一起；其次，可以与前文的第二点结合训练

，在陌生人的帮助下，强化狗狗见到人就坐下的好习惯。

四、大小便
刚到家的小狗还没有定点排泄的意识，即使马上开始训练，也会有一段时间的适应期。在这期间，如果发现狗狗没有定点排泄，切记不要对此进行处罚，不要让狗狗对排泄这件事以及家庭成员产生压力。铲屎官只需要悄悄地移除这个地点的排泄物，确保不留有气味。唯一需要对狗狗进行奖励的就是它在指定地点排泄的行为——这个原则可以套用在狗狗的任何行为上，假如你认为狗狗的某个行为很讨厌，那就无视它；如果你喜欢狗狗的做法，那就奖励它并跟它互动。

这里我们讨论的仅限于“憋尿”时定让它点排泄的情况。但有一种特殊时期会导致狗狗不遵循规矩——狗狗的发情期。母犬发情时，有可能在任何地方“散播气味”。