



Lucy participates in COVID-19 detection trials at the University of Pennsylvania Veterinary school.

# Scent-detection dogs train to sniff out coronavirus cases

University of Pennsylvania launches COVID-19 Canine Scent Detection Study; dogs may begin screening people in July

**Martin Hackett**  
University of Pennsylvania

PHILADELPHIA – A pilot training program using scent detection dogs to discriminate between samples from COVID-19 positive and COVID-19 negative patients is the focus of a new research initiative at the University of Pennsylvania's School of Veterinary Medicine.

With up to 300 million smell receptors – compared to six million in humans – dogs are uniquely positioned to aid in disease detection.

This pioneering study sets the stage for dogs to be a force multiplier in the

mission to detect COVID-19, particularly among asymptomatic patients, or hospital or business environments where testing is most challenging. Preliminary screening of live humans by trained dogs could begin as early as July.

The study is backed in part by the new Penn Vet COVID-19 Research Innovation Fund.

The fund, provided with critical start-up support through a generous gift from Vernon and Shirley Hill, will bolster Penn Vet's rapidly expanding research and response program to fight the novel coronavirus.

Penn Vet will initially begin the study with eight

dogs to perform this precise detection work.

Over the course of three weeks through a process called odor imprinting, the dogs will be exposed to COVID-19 positive saliva and urine samples in a laboratory setting.

Once the dogs learn the odor, the investigators will document that the dogs can discriminate between COVID-19 positive and COVID-19 negative samples in a laboratory setting, establishing the platform for testing to determine if the dogs can identify COVID-19 infected people.

The U.S. Army Combat Capabilities Development Command Chemical Biological Center will be lending their expertise during the study as well.

Scent detection dogs

can accurately detect low concentrations of volatile organic compounds, otherwise known as VOCs, associated with various diseases such as ovarian cancer, bacterial infections, and nasal tumors.

"These VOCs are present in human blood, saliva, urine or breath," said Cynthia Otto, DVM, PhD, professor of Working Dog Sciences and Sports Medicine and director of Penn Vet's Working Dog Center.

"The potential impact of these dogs and their capacity to detect COVID-19 could be substantial," Otto said. "This study will harness the dog's extraordinary ability to support the nation's COVID-19 surveillance systems, with the goal of reducing community spread."

# Parenting amid pandemic requires some ingenuity

On March 16th, I woke up and realized I would soon become a completely different parent than the one I was the day before.

**OTHER VOICES**  
Chantay Jett



Since my children were 5 years old and 2 years old, I have held a full time position, in an office, surrounded by sharp thinkers with unmatched wit.

I defined myself as a "working mom" a busy mom that has a lot on her plate and feels competent in balancing the challenge of work life and home life. I like to dress for work. I enjoy the intellectual complexities work has to offer.

In addition, I enjoy the drive home from work, as I listen to my music before I jump in to that infamous phone booth to emerge in my suit of wife, mother, and "Chief Family Officer."

But, what was this? A new identity creeping in to view? An identity that was muddy, murky, with no well-defined pin stripes and block heeled pumps. An identity that might wreak havoc with my steadfast routines and parenting strategies. My head was spinning.

As I packed up my office and drove home and parked in front of my garage, I thought "this isn't going to be so bad, I'm always

longing for more time at home, I have a great relationship with my kids.... why am I so anxious?"

Then, the morning came. "Mom, I can't get on the WiFi." "Mom, would you make me breakfast?" (it was 9:45 a.m.). "Mom, want to see this game I just made up?" "Mom, we don't have any kale to feed my lizard." "Mom, mom, mom....."

The requests, the questions, the knocking, the talking, just kept coming and coming and coming. It was at this point that I realized my husband and my children were the exact same person.

A week, or maybe 10 days evaporated from my life. As I was trying to focus on work tasks for the day, I found myself tapping my fingers and looking out the window. I turned and caught a glance at my disheveled self in the mirror, no makeup on, black sweats and a hoodie; this had become my "new normal" and I was grumpy.

At that very moment I decided I would no longer be held hostage to these invaders of my workday! I would do what I do best, manage my way out of a challenging situation. I would take back control.

That control started with myself. No more sleeping in and blowing off my work out to a later time in the day. No more excuses for not following my daily work/life routine. No more interruptions.

I was going to have to don a teacher's cap and educate my children about the etiquette of work life and give them support in navigating their online distant learning life.

I made a sign on the door for office hours with a caveat at the bottom that read, "Please do not knock, if you truly need something that can't wait, please text or message me."

Shortly after the sign was hung, I discovered dogs can't read but, they surely figured out how to demand my attention and pull me away momentarily.

We posted their school hours and discussed how all of us need to get up, stretch, take a walk outside around the house, anything to break up our day of endless screen time.

We talked about self-care and the importance of routine, good food, and lots of water.

The best laid plans of mice and men often go awry or in our case, transitioned into some intense arguments. What I realized is that we had some decent plans but no rules to go with those plans. What was I thinking? Wasn't that Management 101? Rules of engagement, we needed to devise some boundaries that we could all agree to, where we all had a little bit of control.

What I also realized is that although the package looks different I still work full time, in an office, surrounded by sharp thinkers with unmatched wit. COVID-19 has taught me to slow down and be grateful for what is in front of me.

My normal may not look like your normal, each of us needs to find out what works best for you and yours and be confident that whatever it looks like, it's ok.

Sometimes the path of least resistance is the right path to take. Now that is Management 101.

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1	2	3	4	5	6	7	8	9	10	11	12	13
14			15					16				
17			18					19				
20							21	22				
23				24	25	26			27		28	29
			30	31					32			
33	34	35		36					37			
38			39				40	41				
42							43				44	
45				46	47				48			
49				50					51	52	53	54
		55		56					57			
58	59					60	61	62	63			
64						65					66	
67						68					69	

**CLUES ACROSS**

- Cream of Wheat cooker
- Warship-related
- Uses a stopwatch
- Wall St. debut
- Remark to an audience
- Caught on, as a nickname
- \*Not react to something (note each starred answer's "initials!")
- "Same here"
- Speak to an audience
- Spaghetti \_\_\_\_\_ (thin dress support)
- Powdery mineral
- A seller may counter one
- Twilight time
- \*Well-wisher's words
- Clumsy character
- Like a film about a film
- Couldn't help but
- In the dark
- "Tell me already!"
- Ancient Peruvian
- Was shy
- Brian of ambient music
- \*Simple drink mix direction
- Came to earth
- Sty cries
- "I goofed!"
- Coffee \_\_\_\_\_ (break room appliance)
- Bird on Mexico's flag
- Friend, in Panama
- \*Take off after a quick meal
- Cotton-compressing machine
- Guitarist's combo
- Lion's tail?
- Pungent salad green
- Old boom boxes played them
- \_\_\_\_ sells seashells ...

**CLUES DOWN**

- Amelia Earhart, e.g.
- Performance often viewed through special glasses
- Complete
- Statistician Silver
- Egyptian snake
- By way of
- Magazine revenue sources
- Diminish
- Bygone Russian bigwig
- "You're on!"
- Small, dirty pool
- Environmental prefix
- Type of winter boot
- Tough-to-ignore feeling
- Quadri- minus one
- End of a walkie-talkie message
- Big bash
- Org. that regulates airports
- Luxurious sheet fabric
- City whose name anagrams to "Tokyo"
- Refrigerator brand
- Say "No, no, no!" to
- Spiritual board
- Make void
- Word that "fax" derives from
- Lightbulb figures
- Love letter acronym
- Cats and dogs
- "Mind your \_\_\_\_\_ business!"
- Buck's mate
- Lead in a movie?
- Part of a city grid
- Shrek and the like
- Like some soft toys
- Word after "common" or "sixth"
- Fashion designer Michael
- Finish lines, e.g.
- "Mixed-ish" network
- Damage
- "I solved the mystery!"
- Bunk that may require a ladder
- "How \_\_\_\_\_ you?"

## Church Directory

**Joseph United Methodist Church**  
3rd & Lake St. • Joseph  
Pastor Cherie Dearth  
Phone: 541-432-3102  
  
Worship Online at JosephUMC.org

**Grace Lutheran Church**  
409 West Main - Enterprise  
  
**SUNDAY WORSHIP at 9am**  
  
phone (message): 541-426-4633  
web: gracelutheranenterprise.com

**Enterprise Christian Church**  
85035 Joseph Hwy • (541) 426-3449  
Parking Lot Radio Worship 9:00 & 11:00 a.m.  
95.1 FM - only heard in our parking lot!  
Facebook Live Broadcast @ 9:00 "Enterprise Christian Church, Enterprise, OR"  
"Loving God & One Another" David Bruce, Sr. - Minister

**St. Patrick's Episcopal Church**  
100 NE 3rd St, Enterprise NE 3rd & Main St  
541-426-3439  
Worship Service Sunday 9:30am

**Lostine Presbyterian Church**  
Discussion Group 9:30 AM  
Worship Service 11:00 AM  
Childrens program during service  
Blog: dancingforth.blogspot.com  
541.398.0597  
Hwy 82, Lostine  
Stephen Klawer, Minister

**Summit Church**  
Gospel Centered Community  
Service time: 10:30 am  
Cloverleaf Hall in Enterprise  
541-426-2150  
Pastor: David Pendleton  
www.summitchurchoregon.org

**Wallowa Assembly of God**  
702 West Hwy 82  
Wallowa, Oregon  
541-886-8445  
Sunday School • 9:am  
Worship Service • 10:am  
Pastor Tim Barton  
Visit us on f

**Christ Covenant Church**  
Pastor Terry Tollefson  
Church Office: 541-263-0505  
  
Family Prayer 9 a.m.  
Sunday School 9:30 a.m.  
Worship Service 10:30 a.m.  
723 College Street, Lostine

**Seventh-Day Adventist Church & School**  
305 Wagner (near the Cemetery)  
P.O. Box N, Enterprise, OR 97828  
541-426-3751 Church  
541-426-8339 School  
Worship Services  
Sabbath School 9:30 - 10:45 a.m.  
Worship Hour 11:00 a.m. - Noon

**Enterprise Community Congregational Church**  
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