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## Grant Will Further Quest For First-Ever High-**Resolution Imaging Of Live, Active Viruses**

VUMC

Vanderbilt University Medical Center

Piran assistant of chemical biomolecular engineering, his work was selected to has been awarded a grant receive funding through to further his research into the U.S. Department of capturing high-resolution Energy's Early Career images of live viruses Research Program. That in tissues. The three- program is designed year grant from Chan to provide support to Zuckerberg Initiative's exceptional researchers Frontiers of Imaging during the crucial early is one of 20 awarded career period, when many worldwide with the aim scientists conduct their of revolutionizing the most formative work. study of viruses, human health and vaccines.

"Visualizing viruses supported first time," Kidambi said.

would allow scientists to witness the physical changes to viruses in real time.

Kidambi's research is focused on understanding synthesis the of nanomaterials for health care, energy, electronic and catalytic applications. The success of this project could dramatically improve virology, vaccine development, oncology and human health.

The Frontiers of Imaging program aims to "visualize life's processes the molecular, at cellular system and level-in real time, in the living organism in а minimally and invasive manner," said

Cori Bargmann, Chan for Zuckerberg Initiative's former head of science.

Kidambi, high-profile support that professor Kidambi has earned for and his research. In June 2022,

Kidambi's application for the CZI grant was by Janice in the native state has Ascano and the team at been an elusive scientific the Vanderbilt office of challenge for several Research Development decades. Our research and Support, which offers aims to enable this for the development assistance for proposals to be pitched His project will work to private foundations to develop devices to and federally funded enable direct imaging opportunities. RDS of live viruses—which services include searches

sponsors. new coordination and team building for proposals This is just the latest in of any size, content development and draft review. RDS is in the Office of the Vice Provost for Research and Innovation. To learn more about RDS or to request services, email rds@vanderbilt.edu.

About the Chan Zuckerberg Initiative

The Chan Zuckerberg Initiative was founded in 2015 to help solve some of society's toughest challenges — from eradicating disease and improving education to addressing the needs communities. of our Through collaboration, providing resources and building technology, its mission is to help build a more inclusive, just and healthy future for everyone. For more information, please visit chanzuckerberg.com.



Piran Kidambi (Vanderbilt University)

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# **Some Benefits Of Frozen Fruits** And Veggies

Throughout human history, there have been many ways to preserve food, including pickling, canning and salting. Such efforts became easier with the invention of the refrigerator and freezer, which opened up a whole new way to shop for and stockpile foods.

Health, Mind and Body

It's difficult to imagine life without refrigerators or freezers. For example, frozen foods, which are a mainstay of the modern diet, are only possible thanks to modern refrigeration.

The American Academy of Nutrition and Dietetics savs that frozen foods are an affordable way for people to get their daily recommended doses of fruits and vegetables. But the benefits do not often more nutritionally stop with fruits and vegetables. Many other nutritious foods can be frozen and incorporated into recipes.

Despite their popularity, frozen foods are sometimes mistaken as being less worthy of consumption than frozen produce items contain no preservatives,

fresh alternatives. Food to fresh equivalents. producers Green Isle Nutrient levels were Foods indicates that very analyzed in samples of often frozen foods make the frozen produce and nutritious additions to a meal. Here are a few reasons why.

reliable than fresh items, as freezing prevents sensitive nutrients and vitamins from being lost during transportation. In a 2013 study sponsored by the University of Georgia, researchers compared private-label various

in the fresh equivalents upon being purchased and then again after the Frozen produce is fresh produce spent five Day-of-purchase fresh and frozen varieties were nutritionally similar. But after five days, the fresh produce lost vitamin especially content. vitamins A and C and folate.

Frozen foods typically

as freezing itself is a form of preservation.

Frozen foods enable people to choose from a variety of items even when they would normally be out of season.

Frozen foods may days in a refrigerator. help reduce food waste, as individually packaged items help people use only what they need.

Frozen seafood is often less expensive than fresh fish because the extended shelf life offers year-round price stability and product availability.

It is important to be

picky when buying frozen foods. According to nutrition experts at Tufts University, convenience meals are not always created equal. It is essential to read labels to ensure that healthy ingredients are included and to pay attention to portion sizes to keep fat and calories in check.

Individuals can customize many frozen foods to their needs and can rest assured that the meals they are creating are nutritionally diverse and wholesome.





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# Foot And Ankle Surgeon Looks **At Team Approach**

#### CRMC

Cookeville Regional Medical Center

Dr. Jonathon Srour Hospital. gained experience in a variety of fields while preservation completing his training at in foot and ankle surgery. of

Srour joins fellow Francisco foot and ankle surgeon Center's Neurosurgical Institute.

repaired," he said. "I Virginia. went on to participate in cross country and vascular surgery service, among other things."

Medicine in completed residency in problems." Washington, DC, and

physician at Medstar While at a conference, Washington Hospital Center and Medstar Georgetown University

He was a limb fellow the University California San Medical division Dr. Christopher Juels at of vascular surgery Tier 1 Orthopedic and and then went on to complete a fellowship in "I experienced an reconstruction, revision excellent ankle injury when I was and limb preservation younger and had a great surgery of the foot and outcome in getting it ankle in Richmond,

"As part of Medstar's now, Irish step dancing, there were plastic, general and podiatric He earned his doctor surgeons," he said. "I of podiatric medicine got to deal with surgical degree from the New wounds, which gave me YorkCollegeofPodiatric a new perspective on 2017, treating ankle and foot

He had the completed fellowships in opportunity to train Virginia and California. with his mentor, Dr. While in Washington, Laurence Rubin, in his DC, he was a resident private clinic in Virginia.

he connected with Dr. Chris Juels, foot and ankle surgeon at Tier 1.

۴T mentioned T was looking around Nashville at job opportunities." Srour said. "He spoke about Cookeville and how great it is." Joining the team at Tier 1 is a dream job, he said.

"Tier 1 is an orthopedic and neurosurgical group with a strong desire for excellence and delivering the best patient care," he said. "This field requires a team approach and good communication with others to get the best outcome." Srour is accepting new patients. Call 931-526-9518 to set up an appointment.

#### **Question And** Answer With Dr. Srour

What is your favorite place to travel? I have to say, Israel is amazing.

What are your hobbies? Play music, Irish step-dancing and distance running. I toured the U.S., Canada. Taiwan and Israel with Michael Flately's Lord of the Dance and currently a dancer/musician with Hammerstep – Indigo Grey, an innovative fusion dance septet that took America's Got Talent by storm leading to a viral YouTube video with 250,000 views in three weeks. Hammerstep aims to elevate dance to a new level, to act as a platform for personal and collective empowerment and to spark social progression in the process.

Family members? My fiancée is the director of a music school outside of Nashville where we currently live. My parents are still in Pennsylvania, and I have two brothers.



**Dr. Jonathon Srour** 







## Health, Mind and Body **Use February To Create A Healthy Plan For Your Heart**

UT MEDICAL CENTER

During the month of February, hearts are very popular. February is most commonly known as a month to celebrate loved ones during Valen- compasses many differtine's Day, but it's also reserved for American Heart Month, a time to educate the public about heart disease. Killing approximately 2,300 people per day, and ranked tors for heart disease of death of Americans, it high cholesterol and heart disease is preventable by making healthy have at least one of these life choices.

Dr. Anne Kassira, a

cardiologist at The University of Tennessee Medical Center, shares some important tips on how to lower your risk for developing heart disease.

"Heart disease enent heart conditions including coronary artery disease. arrhythmias, angina, heart attack and stroke," said Kassira. "Some of the risk facas the number one cause are high blood pressure, is important to note that smoking, and almost half of all Americans three risk factors."

According to Kas-

sira, other medical con- ary 5, 2021, and is an ditions and lifestyle initiative created by the choices that can put you American Heart Asat risk for heart disease include diabetes, obesity, poor diet, physical inactivity and excessive alcohol use.

are adversely affected heart attack, which can by heart disease.

"One in five women die from heart disease." said Kassira. "Nearly 80 percent of cardiac events can be prevented, yet cardiovascular dis- in one or both arms, the eases continue to be a woman's greatest health ach; threat."

Kassira explains that National Wear Red Day takes place on Febru-



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sociation to increase women's heart health cholesterol, high blood awareness.

Kassira says men and women can experience Additionally, women similar symptoms of a include the following:

Uncomfortable pressure, squeezing and pain in the center of the chest:

Pain or discomfort back, neck jaw or stom-

Shortness of breath. "Heart disease is preventable through simple lifestyle changes that anyone can implement, as well as taking charge of any existing medical conditions," said Kassira.

Choosing healthy foods and drinks, maintaining a healthy weight, exercising regularly and not smoking are some simple, yet effective choices you can make to

decrease your chances of developing heart disease.

"If you have high pressure or diabetes, vou can lower your risk for heart disease by regularly checking your cholesterol and blood pressure. monitoring your blood sugar and taking your medications as directed," said Kassira

Heart disease is something you can prevent, emphasizes Kassira

"Take time to make an appointment with your physician to talk about any potential risk factors you may have," said Kassira. "With guidance from your physician, create a proactive plan aimed at decreasing your chances of developing heart disease and make a commitment to put it to action."

Kassira encourages that if you or a loved one need medical care,

including preventative heart screenings or heart care, do not delay coming to the medical center or other facilities within UT Medical Center's health care system.

"Despite COVID-19, our facilities are safe for patients to come in for a visit, and we offer telehealth services when possible," said Kassira.

For reliable information on taking care of your health or a loved one's health. contact UT Medical Center's Health Information Center at 865.305.9525 or online at www.utmedicalcenter.org/hic. Staffed by medical librarians and certified health information specialists, the Health Information Center offers an extensive health library, digital and printed resources, walk-in assistance, and help with the research on specific health conditions – all free of charge and available to the public.



Health, Mind and Body Livingston Enter

# **Common Symptoms Of Eating Disorders**

significant problem across the globe. Studies published in the American Journal of Clinical Nutrition and in the journal Current Opinion in Psychiatry estimate that eating disorders affect at least 9 percent of the population worldwide. Though such numbers are troubling, the National Eating Disorders Association notes that eating disorders are treatable.

Chances for recovery from eating disorders increases the earlier a disorder is detected. That underlearning to recognize some of the common symptoms of eating disorders. The NEDA breaks such symptoms down into two categories: emotional/behavioral and physical. While familiarizing oneself with these categories and the symptoms within them is a use- eating around others; ful first step toward learning about eating disorders, the NEDA points out that the list should not be mistaken for a checklist. Warning signs vary depending

Eating disorders are a on the disorder, and some chew excessively. Oth- and siblings, learn to rec- reveal anemia, low thyroid brittle nails; symptoms may not fit neat- ers may not allow foods to ly into either category. In addition, people with eating disorders generally do not ing small portions of food have all of these symptoms at regular meals; at once.

#### **Emotional and** behavioral

Emotional and behavioral symptoms of eating disorders are generally behaviors and attitudes that indicate that weight loss, dieting and control of food are becoming primary concerns. Such behaviors and attitudes may include:

scores the importance of weight, food, calories, carbohydrates, fat grams, and dieting;

> Refusal to eat certain tain foods may progress to restrictions against whole categories of foods, such as carbohydrates;

food rituals: For example,

touch:

Skipping meals or tak-

tices with food or fad diets, including cutting out entire food groups (no sugar, no carbs, no dairy, vegetarianism/veganism);

Withdrawal from usual friends and activities;

Frequent dieting; Extreme concern with body size and shape;

Frequent checking in A preoccupation with the mirror for perceived flaws in appearance and

Extreme mood swings

#### Physical

Some physical sympfoods: A refusal to eat cer- toms of eating disorders may be hard for loved ones to recognize. For example, NEDA notes fluctuations in weight, both up and down, Appears uncomfortable are a physical symptom of eating disorders. However, Adherence to certain someone with an eating disorder may begin wearsomeone with an eating ing clothing to cover up disorder may eat only a par- such fluctuations. That's ticular food or food group, why it's so important that including condiments, or loved ones, such as parents

ognize the other physical and hormone levels, low symptoms of eating disor- potassium, or low white ders, some of which may be and red blood cell counts; subtle.

Stomach cramps or oth-Adherence to new prac- er non-specific gastrointestinal complaints: For example, someone with an eating disorder may complain about being constipated or indicate they're experiencing acid reflux;

> Menstrual irregularities: Adolescents and women may miss periods or only have a period while on hormonal contraceptives (the NEDA notes this is not considered a "true" period);

Difficulties concentrating;

Abnormal findings: Blood tests during and tooth sensitivity; doctor's appointments may

Dizziness, especially upon standing;

Fainting spells or syncope, a condition marked by a temporary loss of consciousness caused by a fall in blood pressure.

Feeling cold all the time:

#### Sleep problems;

Cuts and calluses across and the top of finger joints: These cuts and calluses suggest a person is inducing vomiting, a behavior associated with the eating disorder bulimia;

Dental problems, such laboratory as enamel erosion, cavities,

Dry skin and hair, and

Swelling around area of salivary glands;

Fine hair on body;

Cavities, or discoloration of teeth, typically resulting from vomiting;

Muscle weakness:

Yellow skin (in context of eating large amounts of carrots);

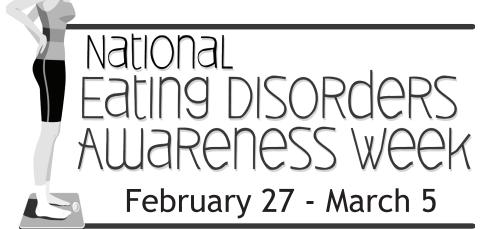
Cold, mottled hands and feet or swelling of feet;

Wounds that heal poorly

Impaired immune functioning

Eating disorders affect people from all walks of life. Learning to recognize the symptoms of eating disorders can be an important first step toward seeking treatment for yourself or a loved one.





# **Alzheimer's Research Initiative Launched At UT Medical Center**

UT MEDICAL CENTER

Alzheimer's disease research on the campus of The University of Tennessee Center, former Regal Entertainment Group CEO Amy Miles has agreed to chair a major fundraising initiative to support research at The Pat Summitt Clinic. The announcement comes as the medical center celebrates The Summitt Clinic's one year anniversary. The Alzheimer's Research Initiative represents the evolution of the clinic as organization's mission

education and discovery, toward and grows In an effort to expand becoming a nationally recognized Alzheimer's disease center.

Legendary basketball Medical coach and teamwork expert, Pat Summitt envisioned a place in East Tennessee where patients. families, caregivers, and leading medical experts would work collaboratively to improve care and support, educate future physicians Pat and clinicians. and conduct ground-breaking research in the field of Alzheimer's disease and other dementias.

Inspired by coach it continues to fulfill the Summitt's vision, The Pat Summitt Clinic opened to serve through healing, its doors in January 2017,

from The Pat Summitt carry on her mission. I'm Foundation. Alzheimer's patients to Summitt Clinic to work in the region. Today the disease." clinic, the first and only of its kind in the region, University of Tennessee serves approximately 3,500 patients in East Tennessee. That number is expected to increase to approximately 6,000 Initiative because she within the next five years. The initiative Miles is leading will directly support the research focus at the clinic.

"Manv employees have been personally touched by Pat's legacy on and off the

supported in part by a grant left us with a charge to allowing proud to partner with The the medical center to University of Tennessee increase the capacity of Medical Center's Pat address the growing need to eradicate this terrible moves closer to becoming

> Miles, a graduate of the and longtime admirer of coach Summitt, added that she signed on to the Alzheimer's Research recognized the impact of the disease throughout the nation.

There are currently an estimated 5 million cases Regal of Alzheimer's disease in the nation. That number is expected to more than triple, to 16 million, by court," said Miles. "She the year 2050. According to Dr. Roberto Fernandez. medical director of The Pat Summitt Clinic, the fundraising initiative will provide for significant expansion of the multidisciplinary research being conducted at the facility, with a focus on

the structure, function, behavior, and pathology of the brain as well as how each is impacted by Alzheimer's disease.

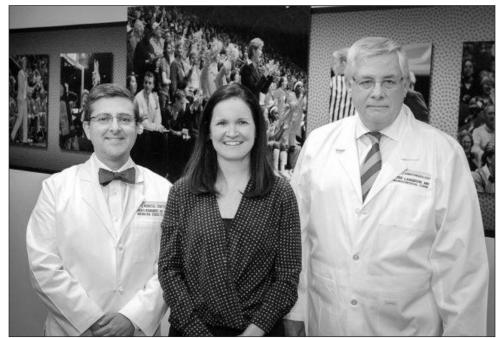
"As Alzheimer's an epidemic in our country, it is imperative that we increase our research initiatives to ultimately seek a cure for this disease," Fernandez said. "We greatly appreciate the passion that Amy Miles brings to the Alzheimer's Research Initiative on behalf of all those impacted by Alzheimer's disease and other dementias. She does so also in memory of Pat Summitt and demonstrates much of that same powerful and positive spirit that the coach brought in working to defeat Alzheimer's disease."

The Alzheimer's Research Initiative will culminate with the 2019 An Evening In Orange, a signature fundraising

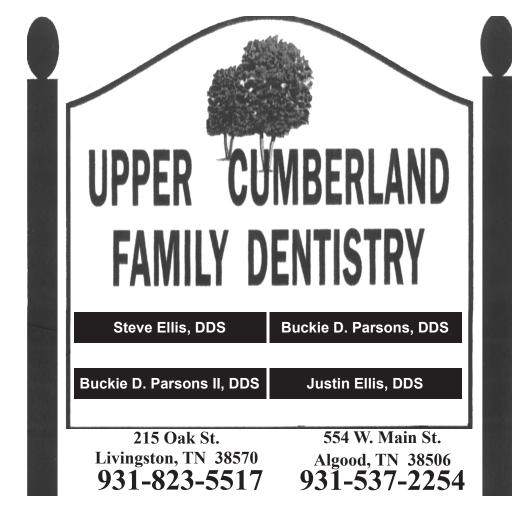
event of the medical center.

"It's so fitting to have Amy Miles, who is such an influence not only in our Knoxville community but also nationally, chair this initiative as we honor the legacy of Pat Summitt, one of the greatest figures in the history of sports," said Kathy Boyd, chief development officer at UT Medical Center. "Our Alzheimer's Research Initiative elevates the work of our physicians, researchers and scientists, and allows our community, the region and others from across the country the opportunity to support this important cause."

For more information about the Alzheimer's Research Initiative, contact The University of Tennessee Medical Center Development Office at (865) 305-6611 or via email at development@utmck. edu.



From left, Dr. Roberto Fernandez, Amy Miles and Dr. Russ Langdon



# **Quitting Smoking For Good Is Possible**

Disease Control and Prevention say more than 480,000 deaths States. Smoking also cause more deaths each year than alcohol use, illegal drug use, human resists motor vehicle injuries, step closer to quitting works for them. and incidents Statistics indicates that around from aids, according to Doing so creates a sense 100 Canadians die of smoking-related illnesses each day.

Despite knowledge that both people who try this route and thinking also can cigarette smoking and maintain the momentum. be necessary. The Mayo products such as pipes, However, cigars, e-cigarettes, and published in 2010 in triggers vaping pens have serious the Cochrane Database previously stimulated a health risks, many people of Systematic Reviews, desire to smoke. Some

Smoking is a deadly feel powerless to quit. which compared abrupt common triggers include Many habit. The Centers for Ouitting smoking can quitting to methods being at parties or bars, chewing gum, sucking on hobby or craft can divert reduce the risk for heart designed to gradually stressful situations, post- a straw or munching on attention away from that and lung diseases, reduce quite, found that neither meal smoking sessions, carrots helps. A variety smoking - especially if cigarette smoking causes the chances for low birth method was necessarily or commutes. Changing of nicotine replacement these activities are not weight babies and sudden more successful than the routines can help break products also may help part of one's normal each year in the United infant death syndrome other. Individuals who the habit of smoking. and improve one's life are attempting to quit expectancy.

а firearm-related smoking. Around 90% combined. of those who try to quit in your efforts might Canada do so without any help be a smart approach. WebMD. But going cold of accountability and turkey may not be the best ensures a support network path to success, as only is always there. the around 5 to 7 percent of

Involving others

Changes in behavior research Clinic suggests avoiding that have

Replacement products,

people people quit.

Staying busy and may need to go through whether they contain distracting the mind can to quit smoking can be Each time a person some trial and error nicotine or not, can give keep a person away from successful, even if they tobacco before ultimately finding the mouth something to cigarettes. Enrolling in experience a little trial immunodeficiency virus, craving, he or she is one the cessation method that do and stave off cravings. fitness classes, starting and error on their way to

find a club or engaging in a routine.

> People who want



# What You Should Know About Canned Food

Canned food convenient. it possible to whip up last-minute meals. And than fresh items, making Inspection Service, them a part of your pantry for shoppers' bottom lines as well as the planet, as the Food and Agriculture remain preserved. Always Nations notes that roughly produced in the world for or serve it. human consumption every year gets lost or wasted.

is fresh foods, but home especially certain high- your best to keep storage Never keep canned foods such areas tend to be damp Pantries cooks should still follow acid foods, such as conditions mild. that include a variety a few simple pointers to tomatoes, have natural safe to eat.

have longer shelf lives The Food Safety and division of the United their nutritional value. can reduce food waste. States Department of If the can is corroded or That's a significant benefit Agriculture, notes that the foods' appearance is there are limits to how long canned foods will Organization of the United adhere to the expiration foods at high temperatures. date on the can. If an item According to the FSIS, one-third of the food has expired, do not eat it the risk of spoilage

with high-acid canned Temperatures 100° F Canned foods may foods. The FSIS notes and above are harmful be more convenient than that canned foods, and to canned goods, so do

Don't presume that time. This can cause and taste of the foods, and a may even adversely affect abnormal, do not eat or serve it.

Avoid storing canned increases sharply as the Be especially careful storage temperatures rise.

beneath a sink or beside and often experience Store items in dry a stove. Extra storage in extreme of canned foods make ensure canned items are chemicals that can react places. In addition to garages or basements may changes between seasons. with the container over storing canned foods in seem like great places Both of those conditions cool places, make sure to store canned items can compromise canned because canned foods canned foods last forever. changes in the texture they're stored in dry areas. purchased in bulk, but foods.

temperature



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