

The Lord is like a strong tower, where the righteous can go and be safe.

Proverbs 18:10

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DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

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Be alert, stand firm in the faith, be brave, be strong.

1 Corinthians 16:13

Cadet dies of heat stroke at PNPA

A police cadet died of heat stroke at the Philippine National Police Academy (PNPA) in Alang, Cavite last July 8, the Philippine National Police (PNP) said last July 9.

"The Philippine National Police Academy, country's premier institution for police officers, is mourning the death of a young cadet due to heat stroke yesterday, July 8," PNP spokesman Brig. Gen. Bernard Batac said in a statement shared to reporters.

Initial probe showed that Cadet Fourth Class Kenneth Rose Alvarado suddenly collapsed during

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Families affected by the fire that razed a residential area in Barangay Sampaloc 1, Dasmariñas City, Cavite receive food packs and cash aid from the local government last July 18.

Republic of the Philippines
 REGIONAL TRIAL COURT
 Fourth Judicial Region
 Branch 109
 Caramoza, Cavite

NATIONAL HOME MORTGAGE FINANCE CORPORATION,
 Mortgagee,
 LIT-2020-07
 For: Extra-Judicial Finalization of Real Estate Mortgage under Act No. 1111, as amended by Act No. 4118

JOSELITO I. SANTOS,
 Mortgagor,
 X

NOTICE OF SHERIFF'S SALE

Upon Extra-Judicial process for sale under Act No. 1111, as amended by Act 4118 filed by the mortgagee, **NATIONAL HOME MORTGAGE FINANCE CORPORATION**, with postal address at 124 Aranzales St., Leganes Village, Makati City against the mortgagor, **JOSELITO I. SANTOS**, with postal address at Casa de Montevideo 948d, 17th Bldg. F, De Castro, Gen. Mariano Alvarez, Cavite, and for the satisfaction of the mortgage debt which as of August 31, 2017 amounts to **ONE MILLION EIGHTY FIVE THOUSAND SEVEN HUNDRED TWENTY FOUR PESOS AND 71/100 (P1,885,724.37)**, exclusive of all legal fees and expenses incidental to the foreclosure and sale, the undersigned on his duly authorized representative will sell, in public auction on **August 3, 2020** at 1:00 o'clock in the afternoon at the Court House of Branch 109, Regional Trial Court, 4th of Justice Building, Caramoza, Cavite to the highest bidder for CASH or MANAGER'S CHECK, in Philippine currency, for mortgage property (as with all the improvements thereon to wit):

TRANSFER CERTIFICATE OF TITLE NO. 729640

IT IS HEREBY CERTIFIED that certain land situated in the Municipality of Caramoza, Province of Cavite, bounded and described as follows:

"A PARCEL OF LAND (Lot 7 of the zone, north plan, PG-04-003705, being a portion of the lots of Lots 41, 42, 43, 47, 48, 51, 53 & 54 of Blk. 1, PG-04-009847, LRC No. 2189), situated in the Bar. of Kabiligan Baybay, Mun. of Caramoza, Prov. of Cavite, bounded on the W. by along lines 1-2-3-4 by Lot 30 BLK-2, PG-04-009847, on the N. along line 4-5 by Lot 4 of the zone, north plan, on the E. along line 5-6 by National Road, (12.80 m. wide), on the S. along line 6-7 by Lot 8 of the zone, north plan, beginning at a pt. marked "1" on plan, being 35.45 m. 347.902.13 m. from BLK 30 No. 14, Caramoza, Cavite, thence DUE NORTH 2-4 m. to pt. 2, thence DUE WEST 8.00 m. to pt. 3, thence DUE NORTH 2.57 m. to pt. 4, thence DUE EAST, 11.92 m. to pt. 5, thence DUE SOUTH 2.00 m. to pt. 6, thence DUE WEST 18.41 m. to the pt. of beginning, containing an area of **SEVENTY TWO (72) SQ. METERS**. All pts. referred to are indicated on the plan and are marked on the ground by 10 x 10 cm. concrete markers. Sale begins year date of original contract, April 14, 1968 (July 31, 1964) and date of the zone, north survey, March 12-13, 1968. Date approved March 29, 1968."

SALE PROCEEDS FOLLOWING

Prospective buyers and/or bidders are hereby required to investigate for themselves the title of the land property and the mortgagee herein, if there be any.

All actual bids must be submitted to the undersigned on the above stated day and time.

In the event the public sale proceeds should not fully cover the said debt and costs, it shall be paid on **August 13, 2020** at the same time and place without further notice.

Caramoza, Cavite, **June 15, 2020.**

(Sgd.) **MUN GERARD B. ASCANO**
 Clerk of Court
 & Trial Officer (Judge)

Prepared by:
 (Sgd.) **JOSEPH B. BERNAS**
 Sheriff in Charge

Copy furnished:
NATIONAL HOME MORTGAGE FINANCE CORPORATION
 104 Aranzales St., Leganes Village
 Makati City

JOSELITO I. SANTOS
 Casa de Montevideo 1, 7th Bldg
 4104 Bldg. F, De Castro
 Gen. Mariano Alvarez, Cavite

Publication: **DIYARYO KABITENYO**
 Date: **June 29, July 6 & 13, 2020**

EXTRA-JUDICIAL SETTLEMENT OF ESTATE WITH PARTITION AND WITH ABSOLUTE SALE OF A PORTION OF LAND

NOTICE is hereby given that the estate of the late **ROBERTO LLAGAS LOYOLA** who died intestate on June 18, 2011, consisting of a real property situated in the Brgy. of Malawin, Mun. of Tama, Prov. of Cavite, covered by Transfer Certificate of Title No. T-1011139, containing an area of **ONE HUNDRED SEVENTY (170) SQ. METERS** has been adjudicated and extra-judicially settled by and among his heirs in equal shares pro-indiviso, selling, conveying and transferring the **THIRTY FIVE (35) SQUARE METERS** in portion left by the deceased by way of **EXTRA-JUDICIAL SETTLEMENT OF ESTATE WITH ABSOLUTE SALE OF A PORTION OF LAND** into spouses **HERNANDO C. ARAÑAS JR. and BABY R. ARAÑAS, DOB 1978**, single and unmarried to exercise all their rights, interests and participations over the above-mentioned parcel of land without impediment thereon in consideration of the sum of **FOUR HUNDRED EIGHTY THOUSAND PESOS (P400,000.00)**, Philippine Currency, on February 10, 2020 in Tama, Cavite, Philippines before Notary Public Atty. Jesus Almond F. De Guzman and entered in his Notarial Register at Doc. No. 87, Page No. 14, Book No. XXV, Series of 2020.

(Sgd.) **Heirs/Sellers and Buyers**

Publication: **DIYARYO KABITENYO**
 Date: **June 29, July 6 & 13, 2020**

EXTRA-JUDICIAL SETTLEMENT OF ESTATE

NOTICE is hereby given that the estate of the late **ROSELA ABARACAP BAUTISTA** who died intestate on February 28, 2020 at Divine Grace Medical Center, City of General Trias, Cavite, consisting of her one-half (1/2) share in the First Time Savings Account with the Bank of the Philippine Island (BPI), Tama, Cavite Branch with Account No. 08867-0320-28 with a total balance of Four Hundred Forty Five Thousand One Hundred Eighty Three Pesos and Thirty One Centavos (P445,183.11) has been adjudicated and extra-judicially settled by and between her heirs in equal shares pro-indiviso on June 9, 2020 in the Municipality of Tama, Province of Cavite, Philippines before Notary Public Atty. Jesus Almond F. De Guzman and entered in his Notarial Register at Doc. No. 248, Page No. 32, Book No. XXV, Series of 2020.

(Sgd.) **Both Heirs (Niece Zylene Aracaway Bautista represented by Teresita Debes System Aracaway, guardian ad litem)**

Publication: **DIYARYO KABITENYO**
 Date: **June 29, July 6 & 13, 2020**

Researchers find rise in broken heart syndrome during COVID-19 pandemic

Cleveland Clinic researchers have found a significant increase in post-stroke cardiomyopathy, also known as broken heart syndrome, during the COVID-19 pandemic. The study, published in the *Journal of the American College of Cardiology*, found that patients with COVID-19 who survived had a higher risk of developing post-stroke cardiomyopathy compared to those who did not survive. The researchers also found that patients with COVID-19 who survived had a higher risk of developing heart failure compared to those who did not survive.

dysfunction or failure in the heart muscle. Patients typically experience symptoms similar to a heart attack, such as chest pain and shortness of breath, but usually do not have acutely blocked coronary arteries. The left ventricle of the heart, however, may show enlargement. Other symptoms include irregular heartbeat, fainting, low blood pressure and cardiogenic shock (an inability of the heart to pump enough blood to meet the body's demands due to the impact of stress hormones on the cells of the heart).

"The COVID-19 pandemic has brought about multiple levels of stress in people's lives across the country and world. People are not only worried about themselves or their families becoming ill, they are dealing with economic and emotional issues, societal problems, and potential loneliness and isolation," said Ankur Kataria, M.D., a Cleveland Clinic cardiologist in the Sections of Invasive and Interventional Cardiology and Regional Cardiovascular Medicine, who led the study.

Republic of the Philippines
REGIONAL TRIAL COURT
Fourth Judicial Region
Branch 189
Carmona, Cavite

HOME DEVELOPMENT MUTUAL FUND,
Mortgagee.

vs.

ED-2020-48
For: Extra-Judicial Foreclosure of Real Estate Mortgage under Act No. 3153, as amended by Act No. 4118.

ROMMEL A. DAPITON married to
JOCY B. DAPITON,

Mortgagee.

vs. X
NOTICE OF SHERIFF'S SALE

Upon Extra-Judicial petition for sale under Act 3153, as amended by Act 4118 filed by the mortgagee, HOME DEVELOPMENT MUTUAL FUND (hereinafter known as Pag-IBIG Fund), with postal address at 17th Floor JELP Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City against the mortgagees, ROMMEL A. DAPITON married to JOCY B. DAPITON, with postal address at No. 8 Palisano Street, Lower Horizon, Tagtag City, and for the satisfaction of the mortgage debt which as of January 17, 2020 amounts to FIVE HUNDRED THIRTY FOUR THOUSAND FORTY TWO PESOS & 20/100 (PHP 534,642.20), exclusive of all legal fees and expenses incidental to this foreclosure and sale, the undersigned or his duly authorized representative will sell in public auction on August 12, 2020 at 1:00 o'clock in the afternoon at the Court Room of Branch 189, Regional Trial Court, 4th of Justice Building, Cavite to the highest bidder for CASH or MANAGER'S CHECK, in Philippine currency, the mortgaged property with all the improvements thereon to wit:

TRANSFER CERTIFICATE OF TITLE NO. 057-201067219

IT IS HEREBY CERTIFIED that certain land situated at BOROY, OF LANTIC, MUN. OF CARMONA, PROV. OF CAVITE, ISLAND OF LUZON, bounded and described as follows:

"A PARCEL OF LAND 0.0276 BLK. 3, OF THE CONS. AND SUBD. PLAN, PCS-84-02456, BEING A PORTION OF THE CONS. OF PLAN S. 780-1041, s.a. 930-0167 & LOT 1, BLK. 12, PCS-04-02396, L.R.C. 84-C, NO. 7-25852 & 45751, SITUATED IN THE BOROY OF LANTIC, MUN. OF CARMONA, PROV. OF CAVITE, ISLAND OF LUZON, BOUNDED ON THE NE, ALONG LINE 1-2 BY LOT 35, BLK. 3, ON THE SE, ALONG LINE 2-3 BY LOT 78 BY BLK. 3, ON THE SW, ALONG LINE 3-4 BY ROAD LOT 37, AND ON THE NW, ALONG LINE 4-1 BY LOT 74 BLK. 3, ALL OF THE CONS. AND SUBD. PLAN BEGINNING AT A PT. MARKED "A" ON PLAN, BEING S. 22 DEG. 30' E., 231.18 M. FROM BLK. 3 NO. 2, CAD. 285, CARMONA CADASTRE, THENCE S. 04 DEG. 23' E., 4.50 M. TO PT. 2, THENCE S. 81 DEG. 27' W., 8.89 M. TO PT. 1, THENCE N. 04 DEG. 23' W., 4.50 M. TO PT. 4, THENCE N. 35 DEG. 37' E., 4.80 M. TO THE PT. OF BEGINNING, ETC. REFERRED TO ARE INDICATED ON THE PLAN AND ARE MARKED ON THE GROUND BY 98. C.V.L. CONC. 30MS. 15X60 CM. BEARINGS TRUE, DATE OF THE ORIG. SURVEY JULY 28, 1961 AND THAT OF THE SUBD. SURVEY OCTOBER 11, 1967 & WAS APPROVED ON SEPT. 22, 2004."

MADE THIS FOLLOWING:

Prosecutive buyers and/or bidders are hereby required to investigate for themselves the title of the said property and the circumstances thereon, if there be any.

All second bids must be submitted to the undersigned on the above-stated time and date.

In the event the public auction should not take place on the said date and time, it shall be held on August 20, 2020, at the same time and place without further notice.

Carmona, Cavite, June 16, 2020.

(Sgd.) DON GERARD B. ASCAÑO
Clerk of Court VI
& Ex-Officio Sheriff

Prepared by:
(Sgd.) JOSEPH B. DOKNO
Sheriff in-Charge

City Foreclosed

HOME DEVELOPMENT MUTUAL FUND
17th Floor JELP Business Solution Center
No. 409 Shaw Boulevard, Mandaluyong City

ATEX RAYMUNDO R. ACHING
ANCHER COLLECTION SERVICES, INC.
8th Fl. Malabon Ave. Managed by
Bldg. Properties, Quezon City

ROMMEL A. DAPITON 8066 JILY B. DAPITON
No. 8 Palisano Street, Lower Horizon
Tagtag City

Attorney: DIYARIO KABITENYO
Date: July 6, 13 & 20, 2020



Republic of the Philippines
OFFICE OF THE CITY
CIVIL REGISTRAR
City of General Trias, Cavite
(046) 591-5014

NOTICE OF PUBLICATION

In compliance with Section 5 of R.A. 9048, notice is hereby served to the public that MA. REXY PRUDENTE ZACARIAS has filed with this Office a petition for Change of First Name from REXY to MA. REXY in the birth certificate of REXY LINGGAY PRUDENTE who was born on 07 September 1984 at General Trias, Cavite and whose parents are Oscar S. Prudente and Amelia E. Langano.

Any person adversely affected by said petition may file his/her written opposition to this Office not later than **July 20, 2020**.

(Sgd.) ARLENE E. BUGTONG
City Civil Registrar

DIYARIO KABITENYO - July 6 & 13, 2020

Women who deliver by C-section are less likely to conceive subsequent children

Women who deliver their first child by cesarean section (C-section) are less likely to conceive a second child than those who deliver vaginally, despite being just as likely to plan a subsequent pregnancy, according to Penn State College of Medicine researchers. The team followed more than 2,000 women for three years after they delivered their first child.

Kristen Kjerfve, professor of public health sciences, said that although previous studies showed that women who delivered by C-section

were less likely to bear subsequent children, it was unclear to researchers whether this was due to maternal choice or a lower rate of conception.

The researchers followed women from before the birth of their first child and interviewed them every six months until three years after their first delivery. During each interview, they asked women to report how often they had unprotected intercourse in each of the previous six months.

Kjerfve and colleagues analyzed data

from 2,021 women between the ages of 18 and 35 who provided data on unprotected intercourse and resulting conceptions for three years after their first birth. Nearly 500 of those women delivered their first child by C-section and those women were more likely to be older, overweight and obese, shorter, and more likely to have sought fertility advice, testing or treatment.

Approximately 69% of women who delivered by C-section conceived after unprotected intercourse compared to approximately 78% of women who delivered vaginally. Women who delivered by C-section also had a reduced likelihood of a live birth. The association remained after researchers accounted for maternal age, pre-pregnancy body mass index, time to conception of the first child, gestational weight gain, prior induced abortions, diabetes, hypertension, hospitalization during pregnancy and other factors.

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Republic of the Philippines
**OFFICE OF THE MUNICIPAL
 CIVIL REGISTRAR**
 Iloilo, Cebu

Publication Notice
 S.A. No. 10772

NOTICE TO THE PUBLIC

CVE-0624-2020

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2019-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2017 (OAR no. R.A. 10772), Notice is hereby served to the public that **ABRAHAM DELIBAN** has filed with this Office, a petition for correction of entry in the state of death from **ABRILA, ISLA** to **ABRILA, LIZIE** in the Certificate of Live Birth of **ADELADARIVINATY SERRA** in Iloilo, Cebu and whose parents are Captain **Serra** and **Adelaida Serra**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 27, 2020**.

(Sgd.) **MURCIA A. CHAVEZ**
 Municipal Civil Registrar

DIYARIO KABUTENO - July 13 & 20, 2020

Republic of the Philippines
**OFFICE OF THE MUNICIPAL
 CIVIL REGISTRAR**
 Iloilo, Cebu

In the name of Change of First Name in the Certificate of Live Birth (CEFLB) of **FREDY TORILTO IBAR TEJORA** No. "RECTOLITO" to "LITO"

FREDY TORILTO IBAR TEJORA
 CYN-0443-2020

CIVIL TEJORA
 Petitioner

NOTICE OF PUBLICATION

There is a petition filed for the change of first name in Certificate of Live Birth (CEFLB) of **FREDY TORILTO IBAR TEJORA** No. "RECTOLITO" to "LITO"

NOTICE IS HEREBY GIVEN that any interested person is urged to notify this office and show cause why the same should not be granted.

Let this NOTICE be published in every week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 7 of Republic Act No. 3938.

(Sgd.) **MURCIA A. CHAVEZ**
 Municipal Civil Registrar

DIYARIO KABUTENO - July 13 & 20, 2020

**EXTRAJUDICIAL SETTLEMENT OF ESTATE
 EMILIO FERRE DE COVER**

NOTICE is hereby given that the estate of the deceased **EMILIO FERRE DE COVER** who died testate on February 24, 2020 in Ateneo, Cebu, consisting of the following properties:

1. 7-storey apartment building located in Bonifacio Tr., Poblacion V, Alibates, Cebu and presently owned by Tax Declaration No. 01-1000-0000.
2. 2014 Toyota Fortuner with Plate No. AAB-4238 registered at P00-000-000 and
3. One (1) 122,000.00 in Savings Account No. 000771-1000-18 with BPI Tagaytay Branch with a balance of P6,500,000.76 as of December 17, 2019.

has been judicially and extra-judicially settled by and among his heirs in equal shares, pro-indiviso. To-wit: they jointly **SELL, TRANSFER** and **CONVEY** by way of absolute sale to **MA. GLAYNA MISOLA DE LIZON** the Toyota Fortuner for and in consideration of the amount of P500,000.00.

On March 18, 2020 in Iloilo, Cebu before Hon. Judge Hon. Daisy C. Alcala and entered in the Provincial Register at Dec. No. 442, Page No. 91, Book No. 13, Series of 2020.

(Sgd.) **ARHON**

Publication - **DIYARIO KABUTENO**
 Date - July 13, 20 & 27, 2020

**EXTRAJUDICIAL SETTLEMENT OF ESTATE
 OF PAULINA VARIAS FERRE**

NOTICE is hereby given that the estate of the deceased **PAULINA VARIAS FERRE** who died testate on May 11, 2006 in Ateneo, Cebu, consisting of the following properties:

1. A residential lot measuring 447 sq. m. located in Bonifacio Tr., Poblacion V, Alibates, Cebu covered by Tax Dec. No. 01-0000-0027 and extra-judicially described under Original Certificate of Title No. 0-2325 (PP No. 174-411086).
2. A residential house located in the above mentioned residential lot and covered by Tax Declaration No. 01-0000-0027.

has been judicially and extra-judicially settled by and among her heirs in equal shares, pro-indiviso, on March 18, 2020 in Iloilo, Cebu before Hon. Judge Hon. Daisy C. Alcala and entered in the Provincial Register at Dec. No. 441, Page No. 91, Book No. 13, Series of 2020.

(Sgd.) **ARHON**

Publication - **DIYARIO KABUTENO**
 Date - July 13, 20 & 27, 2020

**EXTRAJUDICIAL SETTLEMENT OF ESTATE OF
 JUANA VARIAS FERRE**

NOTICE is hereby given that the estate of the deceased **JUANA VARIAS FERRE** who died testate on August 17, 1977 in Ateneo, Cebu, consisting of a parcel of residential lot without improvements, measuring 2,800 sq.m., more or less, located in Alibates, Alibates, Cebu, covered Tax Dec. No. 01-0000-0042 and extra-judicially described in TCT No. 0-442 has been judicially and extra-judicially settled by and among her heirs in equal shares, pro-indiviso, on March 18, 2020 in Iloilo, Cebu before Hon. Judge Hon. Daisy C. Alcala and entered in the Provincial Register at Dec. No. 441, Page No. 91, Book No. 13, Series of 2020.

(Sgd.) **ARHON**

Publication - **DIYARIO KABUTENO**
 Date - July 13, 20 & 27, 2020

Brain benefits of exercise can be gained with a single protein

A little studied live people who are unable or protein may be exercise due to physical limitations. Exercise is one of the best studied and most powerful ways of protecting the brain from age-related cognitive decline and has been shown to improve cognition in individuals at risk of neurodegenerative disease such as Alzheimer's disease and frontotemporal dementia - even those with rare genetic variants.

The new study, published July 8, 2020 in *Science*, showed that after nine weeks, the UCSF Memory and Aging Center found their brains were a bit different. The study also found that the protein called **αB-crystallin** elevated in the blood of elderly humans who exercise regularly.

that inevitably lead to disabilities, and neurodegenerative diseases have long sought therapies that could enable some adults are not able to exercise regularly due to physical limitations that benefits in people

with low physical activity. The blood correspond to improved cognitive function in aged mice. The new study, published July 8, 2020 in *Science*, showed that after nine weeks, the UCSF Memory and Aging Center found their brains were a bit different. The study also found that the protein called **αB-crystallin** elevated in the blood of elderly humans who exercise regularly.

AUCTION SALE

On 14-20 July 2020, 2000 kg of available and fresh produce in single or lots of 100 kg or more to be auctioned on single.

SINGLE PRODUCE AUCTION SALE

- 1. Kani, 17 Kani, Agapito Highway, Tuguegarao City, Cagayan (1000 kg)
- 2. Kani, 17 Kani, Agapito Highway, Tuguegarao City, Cagayan (1000 kg)
- 3. Kani, 17 Kani, Agapito Highway, Tuguegarao City, Cagayan (1000 kg)
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Antioxidants in corn line could aid human IBD protection, therapy

Flavonoids from a specific line of corn act as anti-inflammatory agents in the guts of mice with an inflammatory bowel disease-like condition,

according to a team of researchers who said flavonoid-rich corn should be studied to determine its potential to provide a protective effect on human health.

The researchers used a novel line of corn at Penn State's Russell E. Larson Agricultural Research Center to produce compounds called flavan-4-ols. The team then conducted an experiment with mice to judge the effect of these powerful antioxidant compounds on

induced inflammation and effective preventive strategies. Naturally occurring flavonoid compounds are promising therapeutic candidates against IBD due to their great antioxidant potential and ability to reduce inflammation and leaky gut syndrome.

"In this study, we utilized two corn lines -- one containing flavan-4-ols and one lacking flavan-4-ols -- to investigate the anti-inflammatory property of that flavonoid," said Surinder Chopra, professor of maize genetics in the College of Agricultural Sciences, Penn State. "They are near isogenic lines, meaning that their genetic makeup are identical except for a few specific genetic loci that are responsible for generation of the flavonoids."

According to the researchers, inflammatory bowel disease, often referred to as IBD, is a chronic intestinal inflammatory condition that awaits safe and effective preventive standard drugs.

In the study, researchers obtained seeds for an inbred corn line from the National Seed Storage Laboratory at Fort Collins, Colorado, and for a corn genetic stock containing genes required for the flavonoid pathway. After back crossing the plants, the resulting hybrid possesses a higher antioxidant capacity -- a promising trait that could be introduced into elite cultivars to increase dietary benefits, according to Chopra.

Mice in the study with the induced IBD syndrome were divided into four groups. One group was fed a control, or standard, diet,

flavonoids are safer than standard drugs.

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New study supports remdesivir as COVID-19 treatment

The news about through clinical trials remdesivir, the investi- sional anti-viral drug. In April, a preliminary report from the multicenter Adaptive COVID-19 Treatment Trial (which included VUMC) suggested that patients who received the drug recovered more quickly.

Last week researchers at Vanderbilt University Medical Center (VUMC), the University of North Carolina at Chapel Hill and Gilliland Sciences reported that remdesivir potentially inhibited SARS-CoV-2, the virus which causes COVID-19, in human lung cell cultures and that it improved lung function in mice infected with the virus.

These preclinical findings help explain the clinical effect the drug has had in treating COVID-19 patients. Remdesivir has been given to patients hospitalized with COVID-19 and a comprehensive review was published late January and

since February. In April, a preliminary report from the UNC-Chapel Hill,

Denison, the E.C. Stahlman Professor of Pediatrics at VUMC, directs the Division of Pediatric Infectious Diseases. He and Ralph Baric, PhD, the William R. Kenan, Jr. Distinguished Professor of Epidemiology at UNC-Chapel Hill, and colleagues have been studying remdesivir since 2014.

"All of the results with remdesivir have been very encouraging, even more so than we would have hoped, but it is still investigational, so it was important to directly demonstrate its activity against SARS-CoV-2 in the lab and in an animal model of disease," said VUMC's Andrew Pruijssers, PhD, assistant professor of Pediatrics at VUMC and lead antiviral scientist in the laboratory of Mark Denison, MD, is the paper's co-corresponding author with Timothy Shenhan,

PhD, assistant professor of Epidemiology at UNC-Chapel Hill, Denison, the E.C. Stahlman Professor of Pediatrics at VUMC, directs the Division of Pediatric Infectious Diseases. He and Ralph Baric, PhD, the William R. Kenan, Jr. Distinguished Professor of Epidemiology at UNC-Chapel Hill, and colleagues have been studying remdesivir since 2014.

They were the first to perform detailed studies to demonstrate that the drug, which was developed by Gilliland Sciences to combat hepatitis C and respiratory syncytial virus, and later the Ebola virus, also showed broad and highly potent activity against coronaviruses in laboratory tests.

The current findings, reported last week in the journal Cell Re-

ports, provide the first rigorous demonstration of potent inhibition of SARS-CoV-2 in continuous and primary human lung cultures. The study is also the first to suggest that remdesivir can block the virus in a mouse model.

Ongoing clinical trials will determine precisely how much it benefits patients in different stages of COVID-19 disease.

Meanwhile in the laboratory, Pruijssers said, "We also are focusing on how to use remdesivir and other drugs in combinations to increase their effectiveness during COVID-19 and to be able to treat at different times of infection."

COVID-19, which to date has infected more than 12 million people and killed nearly 600,000 worldwide, is at least the third in-

stance since 2003 in which a coronavirus originally transmitted from bats has caused serious illness in humans.

Thus there is an urgent need to identify and evaluate broadly efficacious and robust therapies that can limit and prevent coronavirus infections.

"Broad-spectrum antiviral drugs, antibodies, and vaccines are needed to combat the current pandemic and those that will emerge in the future," the researchers said.

In addition to SARS-CoV-2, studies in the Denison and Baric labs have shown that remdesivir is effective against a variety of coronaviruses, including other bat viruses that could emerge in the future in humans.

"We hope that will never happen, but just

as we were working to characterize remdesivir over the past six years to be ready for a virus like SARS-CoV-2, we are working and investing now to prepare for any future coronavirus," Denison said. "We want remdesivir and other drugs to be useful both now and in the future."

Others VUMC co-authors were Amelia George, MS, Maria Agostini, PhD, Laura Stevens, MS, James Chappell, MD, PhD, Xiaotao Lu, MS, and Tim Hughes, MS.

The study was supported by National Institutes of Health grants AI142750, AI132128 and AI132178-03A1, AI081197 and AI007131, the Delaney-Parkes COVID-19 Research Fund and the Elizabeth B. Lamb Center for Pediatric Research at Vanderbilt University Medical Center. Pruijssers and Shenhan are co-corresponding authors with Timothy Shenhan, PhD, assistant professor of Epidemiology at UNC-Chapel Hill, Denison, the E.C. Stahlman Professor of Pediatrics at VUMC, directs the Division of Pediatric Infectious Diseases. He and Ralph Baric, PhD, the William R. Kenan, Jr. Distinguished Professor of Epidemiology at UNC-Chapel Hill, and colleagues have been studying remdesivir since 2014.

Safer CRISPR gene editing with fewer off-target hits

The CRISPR system is a powerful tool for the targeted editing of genomes, with significant therapeutic potential, but runs the risk of inappropriately editing "off-target" sites. However, a new study published July 8, 2020 in the open-access journal *PLoS Biology* by Feng Gu of Weizhou Medical University, China, and colleagues, shows that mutating the enzyme at the heart of the CRISPR gene editing system can improve its fidelity. The results may provide a therapeutically safe strategy for gene editing than using the standard enzyme system.

The CRISPR system employs an enzyme called Cas9 to cleave DNA. Cas9 will cut almost any DNA sequence. Its specificity comes from its interaction with a "guide RNA" (gRNA) whose sequence allows it to bind with the target DNA through base-pair matching. Once it does, the enzyme is activated and the DNA is cut. The CRISPR system is found in multiple bacterial species, among them, *Streptococcus pneumoniae*. Unlike some others, its gene is small enough to be made a research and

harmless gene therapy vector called adenos-associated virus, making it attractive for therapeutic purposes. A key limitation of any of the CRISPR systems, including that from *S. aureus*, is off-target cleavage of DNA. A guide RNA may bind weakly to a site whose sequence is a close but imperfect match, depending on how closely the match is and how tightly the enzyme interacts with the paired gRNA-DNA complex. The enzyme may become activated and cut the DNA strongly, with potentially harmful consequences.

5G wireless networks have few health impacts, finds study using zebrafish model

Findings from an Oregon State University study into the effects of radiofrequency radiation generated by the wireless technology that will soon be the standard for cell phones suggest few health impacts. Fifth generation or 5G wireless technology, which began being deployed worldwide in 2019, provides faster connectivity and bandwidth, meaning higher download

speeds. But because the technology is so new, little is known about the potential health effects from its radiofrequency radiation, which is higher than the current industry standard 4G. The Oregon State study begins to change that. "Based on our study, we don't think 5G radiation is that harmful," said Subham Dasgupta, a postdoctoral fellow working in the lab of

Robyn Tangwar at Oregon State. "It's predominantly benign." Researchers conducted the research using embryonic zebrafish, a model organism often used to discover interactions between environmental stressors and biological systems. Zebrafish and humans have similar developmental processes and are similar on a genomic level, meaning zebrafish research can easily be applied to humans.

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