

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

Proverbs 18:10

ISSN: 2691-821X

DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

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

1 Corinthians 16:13

Carmona conducts simulation for COVID-19 vaccine rollout

CARMONA. Cavite – The local government unit (LGU) here conducted last Jan. 29 a simulation for its coronavirus disease (COVID-19) vaccine rollout.

The municipal government designated the Carmona Community Center (C3) in Barangay Cabilang as its main COVID-19 vaccination site. The facility was divided into six sections: waiting area; registration area; pre-vaccination, counseling, and final consent area; screening area; vaccination area; and post-vaccination monitoring area.

Also established in the C3 is an Advocacy Center, a department

Turn to page 2



AyalaLand Logistics expanding industrial facilities in Naic

AyalaLand Logistics Holdings Corporation (ALLHC), a subsidiary of property giant Ayala Land Inc., has started construction of its Ready-Built Facilities within Cavite Technopark in Naic, Cavite.

Launched under its industrial leasing brand ALogis, the new

facilities will add 16,000 sqm gross leasable area to the existing 13,000 sqm area of the first phase.

The existing leasable area, which was launched in 2017, is currently occupied by manufacturing and assembly firms.

Turn to page 2



DIYARYO KABITENYO

ISSN: 2651-821X

ARNULFO BARCO

Publisher - Editor

GENE BARCO

Operations Manager

DIYARYO KABITENYO is published weekly and circulates throughout the province of Cavite. It has its editorial and business offices at Block 13, Lot 5, Linauway Homes Subdivision, Anabul-C, City of Imus, Cavite. It is registered at the Department of Trade and Industry-Region 4, P-IV-88-No. 05254. Our telephone number is 09173496918.

| | |
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Publishers Association of the Philippines, Inc.

(CARMONA... from page 1)

in charge of producing and distributing information, education, and communication (IEC) materials related to COVID-19 vaccination.

The Municipal Health Office has also prepared a cold storage facility for COVID-19 vaccines, located with-

(AYALA... from page 1)

Cavite, with its low labor costs and rich human resource, shows great potential as indicated by the sustained growth of thriving businesses in the province over the years.

This has allowed

in its premises. Last Jan. 28, the LGU kicked off its COVID-19 Vaccination Awareness Campaign with a public presentation at the Carmona Town Plaza about the municipal government's long-term plan to curb the spread of the virus.

ALLHC to support various industries including tobacco, toys, bags, and laser printing.

Likewise, the Ready-Built Facilities in the second phase are targeted to accommodate light to medi-

Trauma-focused psychotherapy is widely considered the best available treatment for posttraumatic stress disorder (PTSD). However, the ways in which this method affects the brain to promote recovery from PTSD are not well understood. In a new study published January 27, 2021 in *Biological Psychiatry*, researchers used neuroimaging to examine how the brain areas responsible for generating emotional responses to threats are changed by psychotherapy.

"We know that psychotherapy works.

But we don't have a lot of good data to explain how it works, how the brain is changed by going through this process," said Greg Fonzo, Ph.D., lead author of the study and an assistant professor in the Department of Psychiatry and Behavioral Sciences at Dell Medical School at The University of Texas at Austin. "That's what we sought to find out."

Posttraumatic stress disorder may occur in people who have experienced or witnessed a traumatic event such as war or combat, sexual assault, a natural disaster or

terrorist act. Symptoms can include flashbacks, nightmares and severe anxiety, as well as uncontrollable thoughts about the event.

Trauma-focused psychotherapy is a treatment that helps people recover from a traumatic event, using techniques such as "in vivo exposure," which involves directly facing a feared object, situation or activity in real life, and "imaginal exposure," which involves facing the trauma memory. A person who is afraid of crowds, for example, may be repeatedly exposed to large gatherings.

"At first, that patient will obviously experience fear or whatever negative emotion is triggered by being in a crowd," said Fonzo, who also holds a courtesy appointment in the Department of Psychology at UT Austin. "But it's like looking at a fire from behind a window. It appears to be a dangerous situation, but the person is actually quite safe. After a while, the fire will burn out, and the person recognizes there was no actual danger. And so that process eventually promotes new learning in the brain."

um enterprises starting December 2021. Shown (from left) at the groundbreaking are: ALLHC Deputy General Manager for Industrial Parks and Real Estate Logistics

Rona S. Sothen: ALLHC Head of Property Management for Industrial Parks and Real Estate Logistics
Justin V. David: ALLHC Head of ALogis
Blanca S. Tan: LTI

CFO Sherri C. Pascual; ALLHC President and CEO Rowena M. Tomaldan; ALLHC Head of Project Management and Technical Services for Industrial Parks and

Real Estate Logistics
Hexron C. Arandela; ALLHC CFO Francis M. Montojo; and ALLHC Head of Industrial Parks and Real Estate Logistics Patrick C. Avila.

EXTRAJUDICIAL SETTLEMENT OF ESTATE with Deed of Absolute Sale

NOTICE is hereby given that the estate of the deceased **VICTORINA L. CUSTODIO** who died intestate on February 26, 2015, married to **ELEAZAR J. CUSTODIO** who died intestate on September 10, 2009 and **ELEUTERIO L. CUSTODIO** who died intestate on February 21, 2006, consisting of two (2) parcels of land without any improvements found therein, situated at Heligan, Gen. Trias, Province of Cavite, more particularly described as follows:

A. Transfer Certificate of Title TCT No. T-271901 having a total area of TWO HUNDRED TWENTY (220) square meters, more or less, and

B. Transfer Certificate of Title TCT No. T-271902 having a total area of TWO HUNDRED TWENTY (220) square meters, more or less,

has been adjudicated and extrajudicially settled by and among their heirs,

and for and in consideration of the sum of FOUR HUNDRED FORTY THOUSAND PESOS (P440,000.00), they do SELL, CEDE, TRANSFER, and CONVEY and absolutely and unconditionally the parcel of land LOT A - covered by TCT No. T-271901 having a total area of TWO HUNDRED TWENTY (220) square meters, more or less, without any improvements found therein in favor of SPOUSES DENNIS AGUIRERA DE LUNA and JOSEPHINE CALATA DELUNA,

and for and in consideration of the sum of FOUR HUNDRED EIGHTEEN THOUSAND PESOS (P418,000.00), they do SELL, CEDE, TRANSFER, and CONVEY and absolutely and unconditionally the parcel of land LOT B - covered by TCT No. T-271902 having a total area of TWO HUNDRED TWENTY (220) square meters, more or less, in favor of CRISTINE AREGLO QUEJANO on December 9, 2020 at Cavite City, Philippines before Notary Public Atty. Sikat V. Aguiran and entered in her Notarial Register as Doc. No. 1361, Page No. 47, Book No. 1, Series of 2020.

(Sgd.) TERESITA CUSTODIO FERMA for herself and as Atty-in-Fact of CONSOLACION L. CUSTODIO, CLEMENTE C. CUSTODIO, JAIME L. CUSTODIO, RICARDO L. CUSTODIO, RIZALBA S. CUSTODIO for herself and as Atty-in-Fact of JAY JAY S. CUSTODIO, JOCELYN S. CUSTODIO, JOSELITO S. CUSTODIO, and JET S. CUSTODIO and DENNIS AGUIRERA DE LUNA and JOSEPHINE CALATA DELUNA, Vendees-Lot A and CRISTINE AREGLO QUEJANO, Vendee-Lot B

Publication - DIYARYO KABITENYO
Dates - January 18, 25 and February 1, 2021

Dietary adherence and the fight against obesity

While eating less and moving more are the basics of weight control and obesity treatment, finding ways to help people adhere to a weight-loss regimen is more complicated. Un-

EXTRAJUDICIAL SETTLEMENT OF ESTATE

NOTICE is hereby given that the estate of the late **LEONARDO CUSTODIO SALVADOR** and **MAGDALENA MAGSINO SALVADOR** who both died intestate on November 15, 2017 at Capt. Novales St., Cavite City and on January 2, 2021 at Capt. Vilbani St., Cavite City, respectively, consisting of a parcel of land with improvements found therein, situated at Cox. Capt. Novales and Santiago St., Brgy. 38 (Sampagana), Cavite City, covered by TCT No. T-10450, containing an area of SIX HUNDRED FORTY FIVE (645) SQUARE METERS, more or less, has been adjudicated and extrajudicially settled by and among their heirs equally on January 9, 2021 at Cavite City, Philippines before Notary Public Atty. Sikat V. Aguiran and entered in her Notarial Register as Doc. No. 4090, Page No. 79, Book No. 1, Series of 2021.

(Sgd.) All Heirs

Publication - DIYARYO KABITENYO
Dates - January 18, 25 and February 1, 2021

EXTRAJUDICIAL SETTLEMENT OF ESTATE

NOTICE is hereby given that the estate of the late **TERESITA SISAYAN GENOVA** who died intestate on April 5, 2011 at Cavite City, consisting of two (2) parcels of land with no improvements found therein, located at Brgy. Bural, Mun. of Dasmariñas, Cavite, covered by TCT-1054182, containing an area of Ninety Six (96) Square meters and TCT T-1028183, containing an area of One Hundred Forty (140) Square meters, has been adjudicated and extrajudicially settled by and between her heirs with waiver of rights and participation in the above-described property in favor of ALGEN SISAYAN GENOVA on December 21, 2020 at Cavite City, Cavite, Philippines before Notary Public Atty. Sikat V. Aguiran and entered in her Notarial Register as Doc. No. 1171, Page No. 49, Book No. 5, Series of 2020.

(Sgd.) Both Heirs

Publication - DIYARYO KABITENYO
Dates - January 18, 25 and February 1, 2021

Understanding what features make a diet easier or more challenging to follow can help optimize and tailor dietary approaches for obesity treatment.

A new paper from the University of Pennsylvania School of Nursing (Penn Nursing) analyzed different dietary approaches and clinical trials to better understand how to op-

timize adherence and subsequent weight reduction. The findings have been published in the *Journal of Clinical Investigation*.

"There is not convincing evidence that one diet is universally easier to adhere to than another for extended periods, a feature necessary for long-term weight management," says Ariana M. Chao,

Wirelessly rechargeable soft brain implant controls brain cells

A group of KAIST researchers and collaborators have engineered a tiny brain implant that can be wirelessly recharged from outside the body to control brain circuits for long periods of time without battery replacement.

The device is constructed of ultra-soft and bio-compliant polymers to help provide long-term compatibility with tissue. Geared with micrometer-sized LEDs (equivalent to the size of a grain of salt)

mounted on ultrathin probes (the thickness of a human hair), it can wirelessly manipulate

deep brain using light. This study, led by Professor Jae-Woong Park, is a step forward from the wireless head-mounted implant neural device developed in 2019. That previous version could indefinitely deliver multiple drugs and light stimulation treatment wirelessly by using a smartphone. For the new upgraded version, the research team came up with a fully implantable, soft optoelectronic system that can be remotely and selectively controlled by a smartphone.

PhD, CRNR, Assistant Professor of Nursing at Penn Nursing and lead investigator of the paper, "Progress in improving dietary adherence could result from greater efforts to examine mechanisms underlying interindividual

variability in responses to dietary approaches. The more we understand the characteristics of individuals who are trying to lose weight, the more able we may be to identify dietary interventions that facilitate their efforts."

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
TRECE MARTIRES CITY, CAVITE

BDO UNIBANK, INC.,
Mortgagee,

Foreclosure Case No. F-132-20

-versus-

SHIELA ELIGOVO TEJERESAS,
Mortgagor

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3135, as amended by Act 4118, filed by Mortgagee, **BDO UNIBANK, INC.**, with business address at BDO Corporate Center, 7899 Makati Avenue, Makati City against the Mortgagor, **SHIELA ELIGOVO TEJERESAS**, both of legal age, Filipinos, with residence and postal address at: 1.) No. 321-Int. 2 Boro Serrano Av., San Roque, Quezon City; and 2.) Blk. 1 Lot 59, Kensington 17, Navarre, Gen. Trias, Cavite to satisfy the mortgage indebtedness as of **31 December 2020 amounts to ONE MILLION NINE HUNDRED EIGHTY SIX THOUSAND NINE HUNDRED THIRTY FOUR PESOS and 46/100 (P1,986,934.46)**, Philippine Currency, including interest, penalties, and other charges as of said date but exclusive of all the other expenses incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **April 08, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Bldg. located at the Provincial Capitol Compound, Trece Martires City, to the highest bidder of CASH and in Philippine Currency, the following described property with all the improvements thereon, to wit:

TRANSFER CERTIFICATE OF TITLE No. 85-301988576

Lot No. **22** Block No. **1** Plan No: **PCS-04-028598**

PORTION OF: THE CONS. SUBD OF LOTS 1699, (RS-04-001799) LOT 1699, (RS-04-003884) LOT 1701 (RS-04-003313) ALL OF SAN FRANCISCO DE MALABON ESTATE & LOT 1726-A, LOT 1726-B, LOT 1726-C PSD-04-098877, DECREE NO. 4270, LRC REC. NO. 3994

LOCATION: BARANGAY OF NAVARRO, MUNICIPALITY OF GEN. TRIAS, PROVINCE OF CAVITE, ISLAND OF LUZON

BOUNDARIES:

| LINE | DIRECTION | ADJOINING LOT(S) |
|------|-----------|--------------------------------|
| 1-2 | SW | LOT 62, BLOCK 1, PCS-04-028598 |
| 2-3 | NW | LOT 60, BLOCK 1, PCS-04-028598 |
| 3-4 | NE | ROAD LOT 7, PCS-04-028598 |
| 4-1 | SE | LOT 58, BLOCK 1, PCS-04-028598 |

AREA: SIXTY FIVE SQUARE METERS (65), MORE OR LESS

All sealed 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 **April 15, 2021** without further notice.

Prospective bidders/buyers are hereby enjoined to investigate for themselves the title to the said property and encumbrances thereon, if any there be.

Trece Martires City, **January 19, 2021.**

(Sgd.) **RICARDO A. TOLEDO**
Sheriff IV

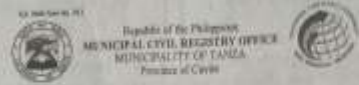
Copy Furnished

BDO UNIBANK, INC.,
RISK MANAGEMENT GROUP-REMEDIAL MANAGEMENT UNIT
11th Floor, BDO South Tower, BDO Corporate Tower
7899 Makati Avenue, Makati City 0226

SHIELA ELIGOVO TEJERESAS
1.) No. 321-Int. 2 Boro Serrano Av., San Roque, Quezon City
2.) Blk 1 Lot 59, Kensington 17, Navarre, Gen. Trias, Cavite

WARNING: IT IS ABSOLUTELY PROHIBITED TO REMOVE, DEFACE, OR DESTROY THIS NOTICE OF EXTRA-JUDICIAL SALE ON OR BEFORE THE DATE OF SALE.

Publication: **DIYARYO KABITENYO**
Date: **January 25, February 1 & 8, 2021**



NOTICE TO THE PUBLIC

21 January 2021

CFN-0001-2021
CCE-0002-2021 RA 10172

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1, Series of 2012 (IRR on R.A. 10172), Notice is hereby served to the public that **CYNTHIA PALINO SAN DIEGO** has filed with this Office, a petition for **CHANGE OF FIRST NAME** from "**Maria Cynthia Constancia**" to "**Cynthia**" and **CORRECTION OF CLERICAL ERROR** on **CHILD'S DATE OF BIRTH** from "**29 JANUARY 1954**" to "**28 JANUARY 1954**" in the Certificate of Live Birth of Ma. Cynthia Constancia M. Palino, who was born on 29 January 1954 at Tanza, Cavite and whose parents were Romeo F. Palino & Juliana Manzano.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **February 08, 2021**.

(Sgd.) **MA. THERESA L. CESA**
Municipal Civil Registrar

DIYARYO KABITENYO - January 25 and February 1, 2021

Genome-editing tool TALEN outperforms CRISPR-Cas9 in tightly packed DNA

Researchers used single-molecule imaging to compare the genome-editing tools CRISPR-Cas9 and TALEN. Their experiments revealed that TALEN is up to five times more efficient than CRISPR-Cas9 in parts of the genome, called heterochromatin, that are densely packed. Fragile X syndrome, sickle cell ane-

said Huimin Zhao, a professor of chemical and biomolecular engineering at the University of Illinois Urbana-Champaign who led the new research.

"CRISPR is a very powerful tool that led to a revolution in genetic engineering," Zhao said. "But it still has some limitations."

CRISPR is a bacterial molecule that detects invading viruses. It can carry one of several enzymes, such as Cas-9, that allow it to cut viral genomes at specific sites. TALEN also scans DNA to find and target specific genes. Both CRISPR and TALEN can be engineered to target specific genes to fight disease, improve crop plant characteristics or for other applications. Zhao and his colleagues used single-molecule fluorescence microscopy to directly observe how the two genome-editing tools performed in living mammalian cells.

Form 28 (Revised June 2014)

INTER-ASIA DEVELOPMENT BANK
Name of Bank

PUBLISHED BALANCED SHEET
(Head Office and Branches)
As of December 31, 2020

CONTROL PROOFLIST

| | Account Code | Current Quarter | Previous Quarter |
|--|---------------------------|-----------------------|-----------------------|
| Cash and Cash Items | 108000000000000000 | 14,322,111.82 | 4,350,094.98 |
| Due from Bangko Sentral ng Pilipinas | 105170000000000000 | 21,638,922.74 | 21,838,960.96 |
| Due from Other Banks | 105200000000000000 | 87,458,783.00 | 300,546,464.73 |
| Financial Assets at Fair Value through Profit or Loss | 112000000000000000 | 0.00 | 0.00 |
| Available-for-Sale Financial Assets-Net | 195200000000000000 | 0.00 | 0.00 |
| Held-to-Maturity (HTM) Financial Assets-Net | 195250000000000000 | 0.00 | 0.00 |
| Unquoted Debt Securities Classified as Loans-Net | 195300000000000000 | 0.00 | 0.00 |
| Investments in Non-Marketable Equity Security-Net | 195350000000000000 | 0.00 | 0.00 |
| Loans and Receivables - Net | 195400000000000000 | 583,442,743.88 | 499,791,989.54 |
| Other Financial Assets | 148000000000000000 | 16,771,153.28 | 14,569,411.61 |
| Equity Investment in Subsidiaries, Associates and Joint Ventures-Net | 195450000000000000 | 0.00 | 0.00 |
| Bank Premises, Furniture, Fixture and Equipment-Net | 195500000000000000 | 29,895,428.05 | 26,716,525.35 |
| Real and Other Properties Acquired-Net | 195550000000000000 | 14,228,137.72 | 15,345,905.50 |
| Non-Current Assets Held for Sale | 150150000000000000 | 0.00 | 0.00 |
| Other Assets-Net | 152000000000000000 | 13,644,924.78 | 11,877,089.68 |
| Net Due from Head Office/Branches/Agencies, if any (P/V, branch of a foreign bank) | 155250000000000000 | 0.00 | 0.00 |
| TOTAL ASSETS | 200000000000000000 | 771,401,705.07 | 694,871,842.46 |
| Financial Liabilities at Fair Value through Profit or Loss | 208000000000000000 | 0.00 | 0.00 |
| Deposit Liabilities | 215000000000000000 | 397,474,283.37 | 341,634,442.45 |
| Due to Other Banks | 220000000000000000 | 0.00 | 0.00 |
| Bills Payable | 220100000000000000 | 0.00 | 0.00 |
| Bonds Payable-Net | 295201000000000000 | 0.00 | 0.00 |
| Unsecured Subordinated Debt-Net | 295202000000000000 | 0.00 | 0.00 |
| Redeemable Preferred Shares | 220200000000000000 | 0.00 | 0.00 |
| Special Time Deposit | 220300000000000000 | 0.00 | 0.00 |
| Due to Bangko Sentral ng Pilipinas | 230390000000000000 | 0.00 | 0.00 |
| Other Financial Liabilities | 240050000000000000 | 16,607,088.20 | 9,263,667.07 |
| Other liabilities | 240100000000000000 | 244,659,513.94 | 241,960,558.55 |
| Net Due to Head Office/Branches/Agencies (Philippine branch of a foreign bank) | 230850000000000000 | 0.00 | 0.00 |
| TOTAL LIABILITIES | 200000000000000000 | 648,740,985.51 | 594,899,267.07 |
| TOTAL STOCKHOLDERS' EQUITY | 500000000000000000 | 112,460,769.86 | 100,092,078.04 |
| TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY | 500000000000000000 | 771,401,705.07 | 694,871,842.46 |
| TOTAL CONTINGENT ACCOUNTS | 400000000000000000 | 0.00 | 0.00 |
| ADDITIONAL INFORMATION | | | |
| Gross total loan portfolio (TLP) | 499020000000000000 | 628,187,567.88 | 531,542,290.25 |
| Specific allowance for credit losses on the TLP | 499300000000000000 | 31,986,174.57 | 28,735,008.89 |
| Non-Performing Loans (NPLs) | | | |
| a. Gross NPLs | 499100500000000000 | | |
| b. Ratio of gross NPLs to gross TLP (%) | 499150000000000000 | 5.14 | 5.42 |
| c. Net NPLs | 499101000000000000 | | |
| d. Ratio of Net NPLs to gross TLP (%) | 499151000000000000 | 4.91 | 5.28 |
| e. Ratio of total allowance for credit losses to gross NPLs (%) | 499151500000000000 | 4.91 | 5.28 |
| f. Ratio of specific allowance for credit losses on the gross TLP to gross NPLs (%) | 499152000000000000 | 4.91 | 5.28 |
| Capital Adequacy Ratio (CAR) on SIBs Banks, as prescribed under existing regulations | | 80.30% | 80.64% |
| a. Total CAR (%) | 499601000000000000 | 14.41 | 13.76 |
| b. Tier 1 Ratio (%) | 499602010000000000 | 13.56 | 13.35 |
| c. Common Tier 1 Ratio (%) ¹ | 499602015000000000 | 0.00 | 0.00 |

I hereby certify that all matters set forth in this Published Balance Sheet are true and correct, to the best of my knowledge and belief.

Publicans: DIYARYO KABITENYO
Date: February 1-7, 2021

ROMAN B. LEUS
Resident-CEO

Immune system mounts a lasting defense after recovery from COVID-19, researchers find

As the number of people who fought off SARS-CoV-2 climbs ever higher, a critical question has grown in importance: How long will their immunity to the novel coronavirus last? A new Rockefeller study offers an encouraging answer, suggesting that those who recover from COVID-19 are protected against the virus for at least six months, and likely much longer.

The findings, published in *Nature*, provide the strongest evidence yet that the immune system "remembers" the virus and, remarkably, continues to improve the quality of antibodies even after the infection has waned. Antibodies produced months after the infection showed

an increased ability to block SARS-CoV-2, as well as its mutated versions such as the South African variant. The researchers found that these improved antibodies are produced by immune cells that have kept evolving, apparently due to a continued exposure to the remnants of the virus hidden in the gut tissue.

Based on these findings, researchers suspect that when the recovered patient next encounters the virus, the response would be both faster and more effective, preventing re-infection.

"This is really exciting news. The type of immune response we see here could potentially provide protection for quite some time, by enabling the

body to mount a rapid and effective response to the virus upon re-exposure," says Michel C. Nussenzweig, the Zankovitch Professor and head of the Laboratory of Molecular Immunology, whose team has been tracking and characterizing antibody response in Covid-19 patients since the early days of the pandemic in New York.

Antibodies, which the body creates in response to infection, linger in the blood plasma for several weeks or months, but their levels significantly drop with time. The immune system has a more efficient way of dealing with pathogens: instead of producing antibodies all the time, it creates

memory B cells that fold and recognize the pathogen, and can quickly unleash a new round of antibodies when they encounter it a second time.

But how well this memory works depends on the pathogen. To understand the case with SARS-CoV-2, Nussenzweig and his colleagues studied the antibody responses of 87 individuals at two timepoints: one month after infection, and then again six months later. As expected, they found that although antibodies were still detectable by the six-month point, their numbers had markedly

decreased. Lab experiments showed that the ability of the participants' plasma samples to neutralize the virus was reduced by five-

fold. In contrast, the patients' memory B cells, specifically those that produce antibodies against SARS-CoV-2, did not decline in number, and even slightly increased in some cases. "The overall numbers of memory B cells that produced antibodies attacking the Achilles' heel of the virus, known as the receptor-binding domain, stayed the same," says Christian Gaebler, a physician and immunologist in Nussenzweig's lab. "That's good news because those are the ones that you need if you encounter the virus again."

A closer look at the memory B cells revealed something surprising: these cells had gone through

numerous rounds of mutation even after the infection resolved, and as a result the antibodies they produced were much more effective than the originals. Subsequent lab experiments showed this new set of antibodies were better able to latch on tightly to the virus and could recognize even mutated versions of it.

"We were surprised to see the memory B cells had kept evolving during this time," Nussenzweig says. "That often happens in chronic infections, like HIV or herpes, where the virus lingers in the body. But we weren't expecting to see it with SARS-CoV-2, which is thought to leave the body after infection has resolved."

Republic of the Philippines
Fourth Judicial Region
**REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT**
City of Bacoor

NATIONAL HOMES MORTGAGE FINANCE CORP.
Mortgagee

vs. vs. vs.
Foreclosure No. 2020-72
For: Extra-judicial Foreclosure of
Real Estate Mortgage

**SPS. CESAR F. FERUELO and
HAYDEE R. FERUELO,**
Mortgagors

NOTICE OF EXTRAJUDICIAL FORECLOSURE

Upon Extrajudicial for Sale under Act 3135 as Amended by Act 4118 filed by the mortgage-assignee, **NATIONAL HOMES MORTGAGE FINANCE CORP.**, of 104 Amorsolo St., Legaspi Village, Makati City, and against the mortgagor, **SPS. CESAR F. FERUELO and HAYDEE R. FERUELO**, of Shapel Homes I, Lot 2 Bk. 3, Bg. Habay, Bacoor, Cavite, to satisfy the mortgage indebtedness which as of March 31, 2020, amounts to TWO MILLION THREE HUNDRED SEVENTY FOUR THOUSAND THREE HUNDRED EIGHTY EIGHT PESOS & 13/100 (P2,374,388.13) Philippine Currency, exclusive of penalty charges, the undersigned or her duly authorized representative will sell at the public auction on **March 3, 2021 at 10:00 o'clock** in the morning or soon thereafter, at the main entrance of the Hall of Justice of Bacoor City, Cavite, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE NO. T-325223

"A parcel of Land (Lot 2, Bk. 3 of the subd. plan Pco-04-018284, being a portion of Pco-184290), L.R.C. Rec. No. 1, situated in the Bg. of Habay, Mun. of Bacoor, Province of Cavite. It is a, containing an area of ONE HUNDRED TWENTY (120) SQUARE METERS."

"All sealed bid 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, it shall be held on **March 10, 2021**, without further notice."

Prospective buyers or bidders are hereby enjoined to investigate for themselves the title to the said property and encumbrances, if any there be.

City of Bacoor, January 11, 2021

(Sgd.) LIZA D. VICTA
Clerk of Court VI

By: (Sgd.) ARTHUR E. SAN MIGUEL
Sheriff IV

Copy Furnished:
ATTY. DANTE Q. RIZADA
3rd Floor Filinvest Bldg., 104 Amorsolo St., Legaspi Village, Makati City

**MR. & MRS. CESAR F. FERUELO and
HAYDEE R. FERUELO**
Shapel Homes I, Lot 2 Bk. 3, Bg. Habay, Bacoor, Cavite
21 Bldgno St., Laluna, Quezon City

WARNING: It is absolutely prohibited to remove, deface or destroy this notice of Extra-judicial Sale on or before the date of sale

Publisher: **DIYARYO KABITENYO**
Date: February 1, 8 & 15, 2021

REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
FOURTH JUDICIAL REGION
BRANCH 121
CITY OF IMUS, CAVITE

**NATIONAL HOME MORTGAGE
FINANCE CORPORATION,**
Mortgagee/Assignee

vs. vs. vs.
EXTRA-JUDICIAL FORECLOSURE OF
REAL ESTATE MORTGAGE UNDER
ACT 3135 AS AMENDED BY ACT 4118

ROLANDO C. RAMIREZ,
Mortgagor

K.C. No. 17087-20

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial petition for sale under Act 3135 as amended by Act 4118 filed by **NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMFC)**, mortgagee, with principal place of business at 104 Amorsolo St., Legaspi Village, Makati City against **ROLANDO C. RAMIREZ**, mortgagor, with residence and postal address at Lakesfield Subd., Lot 08 Bk. 06 Bo. Tocleng, Kawit, Cavite and/or 2159 F. Manor, Singalong St., Malate, Metro Manila, to satisfy the mortgage indebtedness which as of July 31, 2020 amounts to **EIGHT HUNDRED THIRTY NINE THOUSAND TWO HUNDRED SEVENTY TWO PESOS AND 85/100 (P839,272.89)**, Philippine Currency, excluding interest, penalties, attorney's fees, sheriff's fees and all other charges incidental to this foreclosure and sale, the undersigned will sell at public auction on **March 2, 2021 at 10:00 o'clock** in the morning or soon thereafter at the main entrance of the Office of the Clerk of Court, Hall of Justice, LTO Compound, Aguinaldo Highway, Imus City, Cavite to the highest bidder, for CASH and in Philippine Currency, the following property with all improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE No. T-524338

"A parcel of Land (Lot 8, Bk. 6, of the cons. subd. plan, Pco-047111-008660), being a portion of the cons. of Lots 1 & 2, Pco-246995, L.R.C. Rec. No. 346, in the Bgy. of Tocleng, Mun. of Kawit, Prov. of Cavite. Bounded on the NE, along line 1-2 by Rd. lot 4; on the NE, along line 2-3 by lot 9, Bk. 6 both of the cons. subd. plan, on the SE, along line 3-4 by (Irregular Canal (1.00 m. wide) beyond prop. of Gabriel Barona (Cd-042111-011494) on the SW, along line 4-1 by lot 7, Bk. 6 of the cons. subd. plan. xxx containing an area of SIXTY SIX SQ. METERS & FIFTY SQ. DEC. (66.50) x xx"

All sealed 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, it shall be held on **March 9, 2021 at 10:00 o'clock** in the morning without further notice.

Prospective bidders/buyers are hereby requested to investigate for themselves the title to the said properties and encumbrances therein if any there be.

Imus, Cavite, Philippines, December 28, 2020.

(Sgd.) DWIGHT ALDWIN S. GERONIMO
Sheriff IV

APPROVED:

(Sgd.) **ARNIE A. FRANCISCO**
Clerk of Court V
Officer-in-Charge

COPY FURNISHED:
**NATIONAL HOME MORTGAGE
FINANCE CORPORATION**
104 Amorsolo St., Legaspi Village, Makati City

ROLANDO C. RAMIREZ
Lakesfield Subd., Lot 08 Bk. 06 Bo. Tocleng, Kawit, Cavite and/or
2159 F. Manor, Singalong St., Malate, Metro Manila

Publisher: **DIYARYO KABITENYO**
Date: February 1, 8 & 15, 2021

**Biologists
unravel full
sequence
of DNA
repair
mechanism**

Every living organism has DNA, and every living organism engages in DNA replication, the process by which DNA makes an exact copy of itself during cell division. While it's a tried-and-true process, problems can arise.

Break-induced replication (BIR) is a way to solve those problems. In humans, it is employed chiefly to repair breaks in DNA that cannot be fixed otherwise. Yet BIR itself, through its repairs to DNA and how it conducts those repairs, can introduce or cause genomic rearrangements and mutations contributing to cancer development.

"It's kind of a double-edged sword," says Anna Malkova, professor in the Department of Biology at the University of Iowa, who has studied BIR since 1995. "The basic ability to repair is a good thing, and some DNA breaks can't be repaired by other methods.

So, the idea is very good. But the outcomes can be bad."

REPUBLIC OF THE PHILIPPINES
LOCAL CIVIL REGISTRY OFFICE
PROVINCE OF CAVITE
MUNICIPALITY OF NAIC

NOTICE OF PUBLICATION

In compliance with Section 5 of R.A. 9048, a notice is hereby served to the public that **PECTORER** has filed with this Office a petition for Change of First Name from **RICO to ENRICO** in the birth certificate of **RICO SARNE SARINAS** born on **JULY 5, 1961** to **NAIC CAYTE**, child of spouses **MAXIMINO SARINAS** and **TELISA SARNE**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **February 15, 2021**.

(Sgd.) **GLORIA P. BAGO**
Municipal Civil Registrar

DIYARYO KABITENYO - February 1 & 8, 2021

DEED OF EXTRAJUDICIAL SETTLEMENT OF
ESTATE OF THE LATE TOMAS BLOG NAZARENO

NOTICE is hereby given that the estate of the deceased **TOMAS BLOG NAZARENO** who died testate on January 23, 1991 in Papua New Guinea, consisting of a parcel of land identified as Lot No. 2499, located in Naic, Cavite, covered by Transfer Certificate of Title No. T-37078, of the Registry of Deeds of Cavite, with a total area of SIXTYONE THOUSAND THREE HUNDRED FORTY (61,340) SQUARE METERS, more or less, has been adjudicated and extrajudicially settled by and among his heirs in equal shares, pro indiviso on November 5, 2020 in the Municipality of TARA, Province of Cavite, Philippines before Notary Public Atty. Julian B. Arca and entered in the Notarial Register in Doc. No. 421, Page No. 85, Book No. XXXIX, Series of 2020.

(Sgd.) **CATALINA J. NAZARENO** and **LEO JONEPH JOCSON NAZARENO**
(for himself and as attorney-in-fact of **Cecilia N. Nazareno, Jan Narciso J. Nazareno, Elaine Nazareno Gener and Cheryl-Jai Nazareno**)

PUBLICATION - DIYARYO KABITENYO
Date - February 1, 8 & 15, 2021

EXTRAJUDICIAL SETTLEMENT OF ESTATE
OF SPOUSES EPIMACO A. VELASCO
and YOLANDA YMSON

NOTICE is hereby given that the estate of the late **SPOUSES EPIMACO A. VELASCO** and **YOLANDA YMSON** who both died intestate on January 27, 2014 and on March 10, 2014 respectively, both residents of Tanna, Cavite, and the time of their death consisting of a parcel of land without improvement created thereon, identified as Lot No. 1088, located in Barangay Santa, Tanna, Cavite, covered by Transfer Certificate of Title No. T-64568, of the Registry of Deeds of Cavite, with a total area of FORTY FIVE THOUSAND EIGHT HUNDRED FIFTY FIVE SQUARE METERS (45,855), more or less, has been adjudicated and extrajudicially settled by and among their heirs on December 7, 2020 in Tanna, Cavite, Philippines before Notary Public Atty. Julian B. Arca and entered in the Notarial Register in Doc. No. 443, Page No. 47, Book No. XXXIX, Series of 2020.

(Sgd.) **EILEEN YVONNE VELASCO-SANTOS** (for herself and as Attorney-in-fact of her siblings namely: **Eric Y. Velasco, Maria Theres Velasco-Bautista and Erlisa Yvonne Velasco-Pastor**)

PUBLICATION - DIYARYO KABITENYO
Date - February 1, 8 & 15, 2021

Republic of the Philippines
Local Civil Registry Office
Province: **CAVITE**
City/Municipality: **RODAS**

NOTICE FOR PUBLICATION

In compliance with Section 5 of Republic Act No. 9048, a notice is hereby served to the public that **WILFREDO Y. ECHENOLE** has filed with this Office a petition for change of first name from **DOLY** to **WILFREDO** in the birth certificate of **DOLY VERDAR ECHENOLE** who was born on **23 JANUARY 1961** to **ROSARIO CAYTE** and whose parents are **DOMENADOR ENRIQUEZ ECHENOLE** and **LEONOR VERDAR**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **15 February 2021**.

(Sgd.) **MARIA ROSARIO C. SOBIANO**
Municipal Civil Registrar

DIYARYO KABITENYO - February 1 & 8, 2021

Gut microbiota reveals whether drug therapies work in inflammatory bowel diseases

The prevalence of inflammatory bowel diseases has significantly increased both in Finland and globally. These disorders cannot be entirely

on anti-inflammatory drugs are ineffective, the diseases can be treated using infliximab, a biological TNF- α blocker that administered intravenously. Infliximab is an antibody that prevents TNF- α , a pro-inflammatory factor, from binding with inflammatory cells in the intestine. It is effective in reducing inflammation and improving the patient's condition, while also controlling the disease well. Although infliximab therapy is often effective, roughly 30-40% of patients either do not respond to the treatment or lose response over time. So

far, no reliable tests predicting treatment response are available. "A test for predicting responses would help to choose drug therapies and avoid unnecessary drug use, which would reduce potential adverse effects and save on drug expenses in the health-care system," postdoctoral researcher Elja Nissilä says. In a collaborative project, the University of Helsinki and the Department of Gastroenterology at the Helsinki University Hospital investigated whether any predictors associated with infliximab therapy could be identified in the gut microbiota. The results were published in the Journal of Crohn's and Colitis. The study revealed that already before treatment the gut microbiota of certain bacteria found in the intestine predicted a good response to infliximab therapy. Based on the results, gut bacteria and fungi could potentially be used as indicators when assessing whether to initiate treatment or not. "Such a predictive test would make it possible to choose the appropriate therapy, providing savings in drug therapy costs in health-care," Nissilä notes.

DEED OF EXTRAJUDICIAL SETTLEMENT OF THE ESTATE OF ANTONIO M. ORCULLO WITH WAIVER OF RIGHTS

NOTICE is hereby given that the estate of the deceased **ANTONIO M. ORCULLO** who died intestate on March 18, 2011 at Our Lady of the Pillar, Medical Center, Imus, Cavite, consisting of several parcels of land, more particularly described as follows:

Transfer Certificate of Title No. T-445017-Imus (With Improvement)

A parcel of land situated in the Bar. of Alapón, Mun. of Imus, Prov. of Cavite, containing an area of TWO HUNDRED EIGHTY FOUR SQUARE METERS AND FIFTY SQ. DECIMETERS (284.50) more or less;

A residential house with floor area of 90 sq. meters, covered by Tax Declaration No. 09-0005-09534;

Transfer Certificate of Title No. T-118667-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu, Pinarco, Mun. of Imus, Prov. of Cavite, containing an area of TWO HUNDRED FORTY NINE (249) SQUARE METERS, more or less;

Commercial Bldg. with Floor Area of 97.167931 sq. meters and covered by Tax Declaration No. 139-0007-17958;

Transfer Certificate of Title No. T-57503-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of NINE HUNDRED FIFTY ONE (951) SQUARE METERS, more or less;

Apartment House III-C (2 Doors) with Floor Area of 74 sq. meters and covered by Tax Declaration No. 09-0007-08176;

House IV with Floor Area of 62 sq. meters and covered by Tax Declaration No. 09-0007-08172;

House IV with Floor Area of 33 sq. meters and covered by Tax Declaration No. 09-0007-08173;

Apartment House (4 Doors) Apt. House (4 Doors) III-B and covered by Tax Declaration No. 09-0007-08174;

House IV with Floor Area of 33 sq. meters and covered by Tax Declaration No. 09-0007-08175;

Apartment House (4 Doors) III-D with Floor Area of 109 sq. meters and covered by Tax Declaration No. 09-0007-08176;

Transfer Certificate of Title No. T-773568-Imus (With Improvement)

A parcel of land situated in the Brgy. Bayan Lupa, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of

SEVENTY (70) SQUARE METERS, more or less;

House III-C w/ 4 Unit Bldg with Floor Area of 409 sq. meters and covered by Tax Declaration No. 09-0009-07816;

Transfer Certificate of Title No. T-487618-Imus (With Improvement)

A parcel of land situated in the Bar. of Anabu, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of TWO HUNDRED FIFTY (250) SQUARE METERS, more or less;

House IV with Floor Area of 80 sq. meters and covered by Tax Declaration No. 09-0008-08589;

Transfer Certificate of Title No. T-117179-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu 2^o, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of TWO HUNDRED SIXTY EIGHT (268) SQUARE METERS, more or less;

Transfer Certificate of Title No. T-117188-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu 2^o, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of TWO HUNDRED THIRTY EIGHT (238) SQUARE METERS, more or less;

Transfer Certificate of Title No. T-117181-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu 2^o, Mun. of Imus, Prov. of Cavite, Island of Luzon, containing an area of TWO HUNDRED SEVENTY (270) SQUARE METERS, more or less;

Transfer Certificate of Title No. T-117182-Imus (With Improvement)

A parcel of land situated in the Barrio of Anabu 2^o, Mun. of Imus, Prov. of Cavite, Is. of Luzon, containing an area of TWO HUNDRED FORTY (240) SQUARE METERS, more or less;

Commercial Apartment erected on Lots 1,2,3 & 4 with Floor Area of 160-158 and covered by Tax Declaration No. 09-0007-08169;

Transfer Certificate of Title No. T-789260-Imus (With Improvement)

A parcel of land situated in the Brgy. of Anabu, Mun. of Imus, Prov. of Cavite, containing an area of TWO HUNDRED SEVENTY THREE SQUARE METERS AND FIFTY SQUARE DECIMETERS (273.50) more or less;

Residential house with Floor Area of 130 and 74 and covered by Tax Declaration No. 139-0007-17956;

Transfer Certificate of Title No. T-512555-Dasmariñas (Land Only)

A parcel of land situated in the Bar. of Paligaran, Mun. of Dasmariñas, Prov. of Cavite, Is. of Luzon, containing an area of THREE HUNDRED (300) SQUARE METERS, more or less;

Transfer Certificate of Title No. T-200999-Dasmariñas (With Improvement)

A parcel of land situated in the Bar. of Salitan, Mun. of Dasmariñas, Prov. of Cavite, containing an area of THREE HUNDRED SIXTY (360) SQUARE METERS, more or less;

Commercial Apartment with floor area of 16785-08 and covered by Tax Declaration No. 2378025060013;

Transfer Certificate of Title No. T-217715-Bacoor (With Improvement)

A parcel of land situated in the Barrio of Salitan, Mun. of Bacoor, Prov. of Cavite, consisting an area of ONE THOUSAND FIVE HUNDRED NINETY ONE (1,591) SQUARE METERS, more or less;

A residential house with floor area of 239 sq. meters, covered by Tax Declaration No. 05-0019-04296;

Transfer Certificate of Title No. T-443018-Bacoor (With Improvement)

A parcel of land situated in the Bar. of Anaban, Mun. of Bacoor, Prov. of Cavite, containing an area of ONE HUNDRED FIFTY (150) SQUARE METERS, more or less;

A residential house with floor area of 70 sq. meters, covered by Tax Declaration No. 03-0003-02718;

Transfer Certificate of Title No. T-532558-Bacoor (Land Only)

A parcel of land situated in the Bar. of Malina, Mun. of Bacoor, Prov. of Cavite, containing an area of THREE HUNDRED THIRTY THREE (333) SQUARE METERS, more or less;

has been adjudicated and extrajudicially settled by and among his heirs in equal shares, pro indicio. Whereas, ANTONINA M. ORCULLO, waiving, renouncing and donating all her rights, interests and participation over the estates in favor of her CHILDREN namely: ROSEMARIE O. BERMUDEZ, ANTHONY M. ORCULLO, RUBYROSE M. ORCULLO AND NGEL M. ORCULLO on January 21, 2021 at Makati City before Notary Public Amy Aarons M. Doreo and entered in his Notarial Register as Doc. No. 485, Page No. 100, Book No. 1, Series of 2021.

(Sig.) Surviving Spouse and Surviving Children

Publication: DIVARYO KABITENYO
Date: February 1, 8 & 15, 2021

Protein anchors as a newly discovered key molecule in cancer spread and epilepsy

Certain anchor disorders. Scientists Europe-wide research proteins inhibit a key from the German network, discovered metabolic driver that Cancer Research Cen- this molecular mech- plays an important ter (DKFZ) and the antism, which could role in cancer and University of Inns- open up new oppor- developmental brain bruck, together with a tunities for person-

alized therapies for cancer and neuronal diseases. They published their results in the journal Cell. The signaling pro-

tein MTOR (Mecha- trients are available, nistic Target of Rapa- MTOR boosts me- mycin) is a sensor for tabolism and ensures nutrients such as ami- that sufficient energy no acids and sugars, and cellular building blocks are available. When sufficient nu-

DEED OF EXTRAJUDICIAL SETTLEMENT OF ESTATE WITH SALE

NOTICE is hereby given that the estate of the late SPOUSES JOSE B. RIVAS and CELIA R. RIVAS who both died testate on June 22, 2018 at the Divine Grace Medical Center - Tagay, General Trias City, Cavite and on November 4, 2011 at Shangguy Bioso, Tama, Cavite, respectively, consisting of two (2) parcels of land both without improvements situated thereon and more particularly described as follows:

Transfer Certificate of Title No. T-285139

A parcel of land situated in the Barrio of Santa Mayor (Before) Malasin (Now), Municipality of Tama, Province of Cavite, Island of Luzon, containing an area of THREE HUNDRED FORTY FIVE (345) SQUARE METERS.

Transfer Certificate of Title No. T-285554

A parcel of land situated in the Barrio of Santa Mayor (Before) Malasin (Now), Municipality of Tama, Province of Cavite, Island of Luzon, containing an area of FOUR HUNDRED FIFTY NINE (459) SQUARE METERS.

has been adjudicated and extrajudicially settled by and among their heirs in equal shares, pro indiviso, and that ANANI R. RIVAS, JOSE BUENSI R. RIVAS and DOBENA R. GONZALES, hereby CEDE, TRANSFER, and CONVEY, ABSOLUTELY and UNCONDITIONALLY by way of absolute sale, all their interest and rights of strict dominion over the above described parcels of land covered by Transfer Certificate of Title nos. T-201136 and T-205114 to favor of SPOUSES JULIUS B. ARCA and SHERILYN V. PIMPIN, ARCA for good consideration of FOUR MILLION PESOS (P4,000,000.00) Philippine Currency, on January 26, 2021 in General Trias, Cavite, Philippines before Notary Public Atty. Solstad B. Campbell Siquitan and entered in her Notarial Register as Doc. No. 10167, Page No. 84, Book No. XI, Series of 2021.

(Spl.) All Heirs

Publication: DIYARYO KABITENYO
Date: February 1, 8 & 15, 2021

DEED OF EXTRAJUDICIAL SETTLEMENT, PARTITION AND ADJUDICATION OF THE ESTATES OF NORBERTO R. PAKINGAN

NOTICE is hereby given that the estate of the deceased NORBERTO R. PAKINGAN who died testate on April 16, 2017 at Makati Med-Medical Center, Manila, consisting of two (2) parcels of land together with the house and apartment situated thereon and more particularly described as follows:

Transfer Certificate of Title No. T-25405* (With House and Apartment)

A parcel of land situated in the Barrio of Anaba, 1st, Mar. of Tama, Prov. of Cavite, containing an area of FOUR HUNDRED FORTY NINE (449) SQUARE METERS, more or less.

Transfer Certificate of Title No. T-82263 (With Apartment)

A parcel of land situated in the Brgy. of Anaba 1, Mar. of Tama, Prov. of Cavite, Is. of Luzon, containing an area of ONE HUNDRED NINETEEN (119) SQ. METERS, more or less. has been adjudicated and extrajudicially settled by and among his heirs except share, pro-rata on January 27, 2021 at Tama, Cavite before Notary Public Atty. Gabriel B. Ocasio and entered in his Notarial Register as Doc. No. 362, Page No. 75, Book No. B, Series of 2021.

(Spl.) Surviving Spouse and Surviving Children

Publication: DIYARYO KABITENYO
Date: February 1, 8 & 15, 2021

One approach, complications, such as which was approved by potentially disrupting the Environmental Protection Agency in May, research study at the will release more than 750 million genetically modified mosquitoes into the Florida Keys in 2021 and 2022. These 'suicide mosquitoes' are genetically altered to produce offspring that die before emerging into adults and therefore cannot bite humans and spread disease.

However, wiping out future generations of mosquitoes may cause environmental problems, such as potentially disrupting food chains. A new research study at the University of Missouri offers another option: genetically modifying mosquitoes to be resistant to Zika virus altogether. Alexander Franz, an associate professor in the MU College of Veterinary Medicine, collaborated with researchers at Colorado State University by using CRISPR gene-editing technology to produce mosquitoes that are unable to replicate

EXTRA JUDICIAL SETTLEMENT OF ESTATE OF DECEASED "SEVERASALES MALJAY"

NOTICE is hereby given that the estate of the deceased SEVERASALES MALJAY who died testate on November 17, 2020 at Marigaban, City of General Trias, Cavite, consisting of certain personal properties and bank deposits as follows to wit:

Rial Commercial Banking Corporation (RCBC)
Savings Account No. 8379
Amount of Deposit: more or less P188,630.43
(One Hundred Eighty-Six Thousand Six Hundred Thirty and Forty-Five Hundredths)

Rial Commercial Banking Corporation (RCBC)
Dollar Account No. 0379
Amount of deposit: more or less \$5,039.62
(Five thousand fifty-nine and sixty-two hundredths)

EASTWEST BANK
Savings Account No.
Amount of deposit: more or less P13,790
(Thirteen Thousand Seven Hundred)

UNION BANK
Savings Account No. 10958091630
Amount of deposit: (cashless)

TRANSFER CERTIFICATE OF TITLE NO. T-126558

"A parcel of land situated in the Brgy. Of Mangahan, Mar. of Gen. Trias, Prov. of Cavite, Island of Luzon"

TRANSFER CERTIFICATE OF TITLE No. OP-4173

Lot 4, Co-04-00279-D
Containing an area of NINE HUNDRED THIRTY SEVEN (937) SQUARE METERS
on January 29, 2021 at City of General Trias, Cavite before Notary Public Atty. Christopher E. Cabrera and entered in his Notarial Register as Doc. No. 479, Page No. 97, Book No. 24, Series of 2021.

(Spl.) All Heirs

Publication: DIYARYO KABITENYO
Date: February 1, 8 & 15, 2021

Genetically-modified mosquitoes key to stopping Zika virus spread

In 2016, the World Health Organization called the Zika virus epidemic a "public health emergency of international concern" due to the virus causing birth defects for pregnant women in addition to mosquito bites.

Zika virus and therefore cannot infect a human through biting. "We genetically manipulated these mosquitoes by inserting an artificial gene into their genome that triggers one of the immune pathways in the midgut to recognize and destroy the RNA genome of Zika virus," Franz said. "By developing these mosquitoes that are resistant to the virus, the disease cycle is interrupted so transmission to humans can no longer take place." Franz added that the genetic modification is inheritable, so future generations of the altered mosquitoes would be resistant to Zika virus as well.

Competition among human females likely contributed to concealed ovulation

Human females rely on aids like charting, test strips or wearable tech to identify periods of fertility. Some animals, like baboons, undergo obvious physical changes during ovulation. How did fertility become so hard to detect in humans?

For nearly half a century, the evolution of concealed ovulation in human females has been explained as useful for securing male partners to help raise and support children. A study published on January 25 in *Nature Human Behaviour* casts doubt on this long-standing idea. Using agent-based computational models, a team of evolutionary scientists has shown that concealed ovulation might have actually evolved to allow

females to hide their fertility status from other females.

The study of human evolution has tended to look at things from a male perspective, and even adaptations specific to females -- like their social behavior and concealed ovulation -- are have been viewed in terms of how males shape them. This study challenges the idea that the role of female sociality is to better secure male partners and their resources; our computational model shows female sociality is about much more than securing male investment," said Athena Aktipis, associate professor of psychology at Arizona State University and senior author on the paper.

The idea that females evolved to conceal ovulation from males to encourage them to help with children, called the male investment hypothesis, was proposed as a way of understanding why human females do not advertise ovulation. This hypothesis has been the predominant explanation for female sociality and concealed ovulation for decades, though it has undergone few empirical tests and has not been formally modeled until now.

But females do not just interact with males. They interact with each other, sometimes cooperating and other times engaging in conflict.

"I have been puzzling over the male investment hypothesis

for years, and because you cannot argue with a verbal hypothesis, I started work on how to test it," Aktipis said. "At the same time, I was working on female sociality and it struck me that females could have been aggressing against other females showing ovulatory cues, which then would create a benefit to concealing ovulation."

The team of evolutionary scientists tested the idea that female conflict might have driven the evolution of concealed ovulation, which they call the female rivalry hypothesis, using an agent-based computational model. Evolutionary adaptations in humans happen on the timescale of many generations, which makes it hard to test wheth-

er or how traits might evolve. Computational modeling allows researchers to test ideas that would be hard to test in the real world.

In agent-based computational models, an agent represents an individual whose behavior can be programmed and analyzed. Each agent follows a specific set of rules and can interact with other agents and with the environment. In the model developed to test the female rivalry hypothesis, male and female agents followed rules governing their movement, reproductive behavior and attractiveness.

The male agents varied in terms of their promiscuity. Promiscuous males did not partner with females to help raise subse-

quent children, while male agents that were not promiscuous stuck around to share resources and support future children.

Female agents either had physical cues indicating when they were ovulating or ovulation was concealed. The female agents could also aggress against each other.

The female and male agents interacted with each other and had opportunities to procreate and form parenting partnerships. The model supported the female rivalry hypothesis by showing that females who concealed ovulation fared better. They had more children, avoided female-female aggression and succeeded in forming parenting relationships with males.

Study reveals precarious employment on the rise long before COVID-19

A study led by a University of Illinois Chicago researcher uses a new approach to measure precarious or low-quality employment in the United States. And, according to those findings, precarious employment has increased 9% between 1988 and 2016.

Precarious employment, or P.E., is defined as low-quality employment, which is often characterized by low wages, job insecurity and irregular hours, making employment risky and stressful for the worker.

In her study, researcher Vanessa Oddo, assistant professor in UIC's School of Applied Health Sciences, sought to create a multidimensional and continuous measure of P.E. in the U.S. She also set out to describe changes in precarious employment over time, both overall and within subgroups. The paper is published in the Scandinavian Journal of Work, Environment & Health.

A better understanding of long-term trends is a critical first step for informing future policies aimed at improving P.E. and population health in the U.S., Oddo said.

Previously, the focus for measuring P.E. was on wages, hours and union membership. For this longitudinal study, she expanded the measurement criteria to add P.E. indicators including:

Material rewards — the wage and non-wage benefits afforded by employment.

Can large fluid-filled spaces in the brain help identify those at risk of dementia?

People with enlarged perivascular spaces in both areas of the brain were nearly three times more likely to develop dementia during the study than people with fewer or no enlarged spaces. A total of 97 people, or 24%, were diagnosed with dementia during the study. Of the 31 people with severe cases, were compared to those with fewer or no enlarged spaces. "Severe perivascular space disease may be a marker for an increased risk of cognitive decline and dementia," said study author Matthew Paradise, MB.Ch.B., M.Sc., of the University of New South Wales in Sydney, Australia. "More research is needed to understand how these enlarged spaces develop, as they could be an important potential biomarker to help with early diagnosis of dementia." Researchers found that people with the largest number of enlarged perivascular

spaces in two key areas of the brain at the start of the study and then every two years for eight years. The top quarter of the people with the largest number of enlarged perivascular spaces, according to a new study published in the January 27, 2021, online issue of *Neurology*, the medical journal of the American Academy of Neurology.

The study involved 414 people with an average age of 80. Participants took cognitive tests of thinking and memory skills and were assessed for the presence of dementia at the beginning of the study and every two years for eight years. The participants had MRI brain scans to check for enlarged perivascular spaces in both areas of the brain at three times more likely to develop dementia during the study than people with fewer or no enlarged spaces. A total of 97 people, or 24%, were diagnosed with dementia during the study. Of the 31 people with severe cases, were compared to those with fewer or no enlarged spaces. "Severe perivascular space disease may be a marker for an increased risk of cognitive decline and dementia," said study author Matthew Paradise, MB.Ch.B., M.Sc., of the University of New South Wales in Sydney, Australia. "More research is needed to understand how these enlarged spaces develop, as they could be an important potential biomarker to help with early diagnosis of dementia." Researchers found that people with the largest number of enlarged perivascular spaces in both areas of the brain were also more likely to have greater decline four years later on their overall scores of cognition than the people with mild or absent enlargement of spaces. The results persisted after researchers adjusted for other factors that could affect either scores on tests or the development of dementia, such as age, high blood pressure and diabetes.