

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

Proverbs 18:10

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

1 Corinthians 16:13

## Cavite cop chief expects outstanding police performance with new equipment

Forty new patrol cars including several other new equipment were turned over last Feb. 10 by Cavite Provincial Director, Police Col. Marlon Santos together with provincial staff as part of the Philippine National Police (PNP) Patrol Plan 2030.

Santos spearheaded the turnover of 40 Toyota Wigo patrol cars, 260 body-worn cameras, and 250 breathalyzers received by the chiefs of police and unit chiefs held at Camp Gen. Pantaleon Garcia in Imus City, Cavite.

Santos said that this is part of the PNP Patrol Plan 2030 to optimize logistical resources and modernization program



### Pictures of Dasmariñas University Arena go viral

The pictures of the Dasmariñas University Arena in Dasmariñas City, Cavite which construction is expected to be completed this year go viral.

In a Facebook post, the Hardcore Basketball PH said: "Inaasahang matatapos ngayong 2021 ang Dasmariñas

University Arena na may (5,000) limang libong matatapan."

"Ito ay matatagpuan sa Barangay Burok Main, Dasmariñas City, Cavite.

Bukas ang Syudad sa posibleng pagdaos dito ng laro ng malalaking liga gaya ng PBA," it added.



to achieve excellent performance in police service, basically patrolling.

"These patrol cars newly loaned from the provincial government will help ensure a peaceful and orderly province," he said.

He reminded the chiefs of police and unit chiefs to supervise the proper maintenance and cleanliness of the vehicles.

"Patrol cars will strengthen the police capabilities and overall anti-criminality campaigns of the PNP; body-worn cameras will be useful to observe the legality and transparency of police operation; and breathalyzers will help

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## DIYARYO KABITENYO

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ARNULFO BARCO

Publisher - Editor

GENER BARCO

Operations Manager

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### Papi

Publishers Association of the Philippines, Inc.

## Ionic liquid uniformly delivers chemotherapy to tumors while destroying cancerous tissue

A Mayo Clinic team, led by Rahmi Oklu, M.D., Ph.D., a vascular and interventional radiologist at Mayo Clinic, in collaboration with Samir Mitrugotri, Ph.D., of Harvard University, report the development of a new ionic liquid formulation that killed cancer cells and allowed uniform distribution of a chemotherapy drug into liver tumors and other solid tumors in the lab. This discovery

could solve a problem that has long plagued drug delivery to tumors and provide new hope to patients with liver cancer awaiting a liver transplant. The preclinical study results are published in Science Translational Medicine.

Dr. Oklu, study author and director of Mayo Clinic's Minimally Invasive Therapeutics Laboratory, says uniform drug delivery to tumors is often riddled with chal-

enges. It's an issue he and the research team are aiming to solve, particularly for patients with liver cancer who are awaiting a transplant.

Dr. Oklu says higher drug doses are often used to en-

courage drug delivery into the tumor, and these higher doses could lead to significant toxicity. "If the drug cannot penetrate the tumor and remain there, then it cannot do its job," he says.

## How a single gene alteration may have separated modern humans from predecessors

As a professor of Evolutionary Pediatrics and cellular and molecular medicine at University of California San Diego School of Medicine, Alysson R. Muotri, PhD, has long studied how the brain develops and what goes wrong in neurological disorders. For almost as long, he has also been curious about the evolution of the human brain — what changed that makes us so different from preceding Neanderthals and Denisovans, our closest evolutionary relatives, now extinct?

So Muotri decided to try stem cells, a tool not often applied in evolutionary reconstructions. Stem cells, the self-renewing precursors of other cell types, can be used to build brain organoids

— "mini brains" in a laboratory dish. Muotri and colleagues have pioneered the use of stem cells to compare humans to other primates, such as chimpanzees and bonobos, but until now a comparison with extinct species was not thought possible.

In a study published February 11, 2021 in Science, Muotri's team catalogued the differences between the genomes of diverse modern human populations and the Neanderthals and Denisovans, who lived during the Pleistocene

(CAVITE... from page 1)

determine the amount of alcoholic for law violators," he added.

He also expects an outstanding police performance and that these patrol cars should always be deployed on major thoroughfares and must be visible on streets.

Santos expressed gratitude and appreciation to Governor Jonvic Remulla for his generosity and continuous support to Cavite PNP.



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

**NATIONAL HOME MORTGAGE FINANCE CORP.**  
Mortgages.

- versus -

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

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

Mortgagees.

**NOTICE OF EXTRAJUDICIAL FORECLOSURE**

Upon Extra-judicial Petition for Sale under Act 3135 as Amended by Act 4118 filed by the mortgage-assignee, **NATIONAL HOME 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 Blk. 3, Bo. Halsey, 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 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, Blk. 3 of the subd. plan, Psa-04-018284, being a portion of Psa-18290, L.R.C. Rec. No. 3, situated in the Bo. of Halsey, Mun. of Bacoor, Province of Cavite. 3 x x containing an area of ONE HUNDRED TWENTY (120) SQUARE METERS."

"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 18, 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

(Sgt.) LAZA D. VICTA  
Clerk of Court VI

By: (Sgt.) ARTHUR T. SAN MIGUEL,  
Sheriff IV

Copy Furnished:

**ATTY. DANTE Q. RIZADA**  
5<sup>th</sup> Floor Filomena Bldg., 104 Amorsolo St.,  
Legaspi Village, Makati City

**MR. & MRS. CESAR F. FERUELO and  
HAYDEE R. FERUELO**  
Shapel Homes I, Lot 2 Blk. 3, Bo. Halsey, Bacoor, Cavite  
21 Bldgway St., Laloma, 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.

Publication : DIYARYO KABITENYO  
Dates : 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,**

Mortgage/Assignee

- versus -

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

F.C. No. 17087-20

**ROLANDO C. RAMIREZ,**

Mortgagor.

**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 Blk. 06 Bo. Tocleng, Kawit, Cavite and/or 2359 F. Manox, Singasing St., Malabon, 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 09/100 (Pp839,272.09)**, 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 3, 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, Aguinado 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, Blk. 6, of the com. subd. plan, Psa-042111-008660, being a portion of the com. of lots 1 & 2, Psa-246995, L.R.C. Rec. no. 3) in the Brgy. of Tocleng, Munic. 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, Blk. 6 both of the com. subd. plan, on the SE, along line 3-4 by Brigantine Canal (1.00 m. wide) (beyond) prop. of Gabriel Barona (Cad-042111-011094) on the SW, along line 4-5 by lot 7, Blk. 6 of the com. subd. plan. 3 x x containing an area of SIXTY SIX SQ. METERS & FIFTY SQ. DEC. (66.50) s x s"

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 enjoined to investigate for themselves the title to the said properties and encumbrances therein if any there be.

Imus, Cavite, Philippines, December 28, 2020.

(Sgt.) DWIGHT ALDWIN S. GERONIMO  
Sheriff IV

APPROVED:

(Sgt.) ARMIE 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 Blk. 06 Bo. Tocleng, Kawit, Cavite and/or  
2359 F. Manox, Singasing St., Malabon, Metro Manila

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

## Scientists identify how harmless gut bacteria 'turn bad'

An international team of scientists has determined how harmless *E. coli* gut bacteria in chickens can easily pick up the genes required to evolve to cause a life-threatening infection. Their study, published in *Nature Communications*, warns that such infections not only affect the poultry industry but could also potentially cross over to infect humans.

*E. coli* is a common bacterium that lives in the intestines of most animals, including humans. It is usually harmless when it stays in the gut, however it can become very dangerous if it invades the bloodstream, causing a systemic infection that can even lead to death.

**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 intestate on January 23, 1991 in Papua New Guinea, consisting of a parcel of land identified as Lot No. 1666, located in Nait, Cavite, covered by Transfer Certificate of Title No. T-37078, of the Registry of Deeds of Cavite, with a total area of SIXTY ONE 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 Tanza, Province of Cavite, Philippines before Notary Public Atty. Julius B. Arca and entered in his Notarial Register as Doc. No. 421; Page No. 85; Book No. XXXIX; Series of 2020.

(Sgd.) **CATALINA J. NAZARENO and LEO JOSEPH ROCSON NAZARENO**  
(for himself and as Attorney-in-fact of Cecille N. Nazareno, Ian Narciso J. Nazareno, Elaine Nazareno Gener and Cheryl Jal 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 Tanza, Cavite until the time of their death, consisting of a parcel of land without improvement erected thereon, identified as Lot No. 1088, located in Barangay Santol, Tanza, Cavite, covered by Transfer Certificate of Title No. T-64598, 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 Tanza, Cavite, Philippines before Notary Public Atty. Julius B. Arca and entered in his Notarial Register as Doc. No. 485; Page No. 97; 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 Theresia Yamsin Velasco-Basero and Erlisa Yvonne Velasco-Foster)

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Date : February 1, 8 & 15, 2021

**More deaths in England and Scotland may be due to obesity and excess body fat than smoking**

Obesity and excess body fat may have contributed to more deaths in England and Scotland than smoking since 2014, according to research published in the open access journal BMC Public Health.

Between 2003 and 2017 the percentage of

**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 intestate on June 22, 2019 at the Divine Grace Medical Center - Tejero, General Trias City, Cavite and on November 6, 2011 in Barangay Biwas, Tanza, Cavite, respectively, consisting of two (2) parcels of land both without improvement erected thereon and more particularly described as follows:

**Transfer Certificate of Title No. T-205336**

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

**Transfer Certificate of Title No. T-205334**

A parcel of land situated in the Barrio of Sanja Mayor (Before) Malawin (Now), Municipality of Tanza, 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 **ANASTI R. RIVAS, JOSE BUENIR R. RIVAS and DORENA K. GONZALES**, hereby CEDE, TRANSFER, and CONVEY, ABSOLUTELY and UNCONDITIONALLY by way of absolute sale, all their interests and rights of strict dominion over the above described parcels of land covered by Transfer Certificate of Title nos. T-205336 and T-205334 in favor of **SPOUSES JULIUS B. ARCA and SHERILYN V. PINPIN-ARCA** for and in consideration of FOUR MILLION PESOS (P4,000,000.00) Philippine Currency, on January 26, 2021 in General Trias, Cavite, Philippines before Notary Public Atty. Soledad R. Campbell Sugatan and entered in her Notarial Register as Doc. No. 0187; Page No. 84; Book No. XI Series of 2021.

(Sgd.) All Heirs

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

deaths attributable to smoking are calculated to have decreased from 23.1% to 19.4% while deaths attributable to obesity and excess body fat are calculated to have increased from 17.9% to 23.1%. The authors estimate that deaths attributable to obesity and excess body fat overtook those attributable to smoking in 2014. At the same time the

**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 intestate on April 11, 2017 at Makati Med. Medical Center, Manila, consisting of two (2) parcels of land together with the house and apartment erected thereon and more particularly described as follows:

**Transfer Certificate of Title No. T-254057 (With House and Apartment)**

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

**Transfer Certificate of Title No. T-822631 (With Apartment)**

A parcel of land situated in the Brgy. of Anabu 1, Mun. of Imus, 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 in equal shares, pro indiviso on January 27, 2021 at Imus, Cavite before Notary Public Atty. Gabriel B. Octavio and entered in his Notarial Register as Doc. No. 362; Page No. 73; Book No. II Series of 2021.

(Sgd.) Surviving Spouse and Surviving Children

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prevalence of obesity in England and Scotland has increased. Our research indicates that, since 2014, obesity and excess body fat may have contributed to more deaths in England and Scotland than smoking.\*

To examine changes in the prevalence of smoking, obesity and excess body fat in adults, the authors analysed data collected between 2003 and 2017 as part of the Health Surveys for England, and Scottish Health Surveys, on 192,239 adults across England and Scotland, who were 50 years old on average. Participants reported whether they had ever regularly smoked and their height and weight were measured by trained interviewers or nurses. The researchers combined their data with estimates of the risk of dying from smoking (17 studies) or obesity and excess body fat (198 studies), to calculate the number of deaths that could be attributed to smoking and obesity and excess body fat.



**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 testate on March 18, 2011 at Our Lady of the Pillar, Medical Center, Iloilo, Cavite, consisting of several parcels of land, more particularly described as follows:

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

A parcel of land situated in the **Bo. of Alapan, Mun. of Iloilo, Prov. of Cavite, Luzon**, containing an area of **TWO HUNDRED EIGHTY FOUR SQUARE METERS AND FIFTY SQ DECIMETERS (294.50)** more or less;

A residential house with floor area of 90 sq. meters, covered by **Tax Declaration No. 09-0005-08534**.

**Transfer Certificate of Title No. T-110667-Iloilo (With Improvement)**

A parcel of land situated in the **Barrio of Anaba, Pinarosa, Mun. of Iloilo, Prov. of Cavite, Luzon**, containing an area of **TWO HUNDRED FORTY NINE (249) SQUARE METERS**, more or less.

Commercial Bldg. with Floor Area of 97-16/9.30 sq. meters and covered by **Tax Declaration No. 239-0007-17958**.

**Transfer Certificate of Title No. T-57183-Iloilo (With Improvement)**

A parcel of land situated in the **Barrio of Anaba, Mun. of Iloilo, 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. 09-0007-08171**;  
House IV with Floor Area of 42 sq. meters and covered by **Tax Declaration No. 09-0007-08172**;

House IV with Floor Area of 13 sq. meters and covered by **Tax Declaration No. 09-0007-08173**;

Apartment House (4 Doors)/Apt. House (8Doors) 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-Iloilo (With Improvement)**

A parcel of land situated in the **Brgy. Bayan Luma, Mun. of Iloilo, Prov. of Cavite, Is. of Luzon**, containing an area of

**SEVENTY (70) SQUARE METERS**, more or less.

House III-C w/ 4 Unit Units with Floor Area of 400 sq. meters and covered by **Tax Declaration No. 09-0008-07816**;

**Transfer Certificate of Title No. T-487610-Iloilo (With Improvement)**

A parcel of land situated in the **Bo. of Anaba, Mun. of Iloilo, 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. 09-0008-08509**;

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

A parcel of land situated in the **Barrio of Anaba 2<sup>nd</sup>, Mun. of Iloilo, 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-117180-Iloilo (With Improvement)**

A parcel of land situated in the **Barrio of Anaba 2<sup>nd</sup>, Mun. of Iloilo, 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-Iloilo (With Improvement)**

A parcel of land situated in the **Barrio of Anaba 2<sup>nd</sup>, Mun. of Iloilo, 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-Iloilo (With Improvement)**

A parcel of land situated in the **Barrio of Anaba 2<sup>nd</sup>, Mun. of Iloilo, 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-Iloilo (With Improvement)**

A parcel of land situated in the **Brgy. of Anaba, Mun. of Iloilo, Prov. of Cavite**, containing an area of **TWO HUNDRED SEVENTY THREE (273) SQUARE METERS AND FIFTY SQUARE DECIMETERS (273.50)** more or less.

Residential house with Floor Area of 138 and 74 and covered by **Tax Declaration No. 239-0007-17956**;

**Transfer Certificate of Title No. T-532585-Dasmariñas (Land Only)**

A parcel of land situated in the **Bo. of Palipatan, 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-280999-Dasmariñas (With Improvement)**

A parcel of land situated in the **Bo. of Salinas, 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 18/155-68 and covered by **Tax Declaration No. 2378025004013**;

**Transfer Certificate of Title No. T-217713-Bacoor (With Improvement)**

A parcel of land situated in the **Barrio of Salinas, Mun. of Bacoor, Prov. of Cavite**, containing 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. 03-0019-04298**.

**Transfer Certificate of Title No. T-642018-Bacoor (With Improvement)**

A parcel of land situated in the **Bo. of Anaba, 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-512558-Bacoor (Land Only)**

A parcel of land situated in the **Bo. of Malinao, 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 indiviso, Whereas, **ANTONINA M. ORCULLO** waiving, renouncing and donating all her rights, interests and participations over the estate in favor of her **CHILDREN** namely **ROSEMARIE O. BERNARDEZ, ANTHONY M. ORCULLO, RUBYROSE M. ORCULLO AND NOEL M. ORCULLO** on January 21, 2021 at Makati City before Notary Public **Atty. Antonio M. Dinicola** and entered in his Notarial Register as Doc. No. 495-Page No. 100; Book No. 6, Series of 2021.

(Sp4) Surviving Spouse and Surviving Children

Publication: **DIYAKYO KABITENYO**  
Date: February 1, 8 & 15, 2021

**Metabolism: Light shed on structure of huge enzyme complex**

A new method, Luther University Halle-Wittenberg (MLU) and TU Berlin have published their findings on the structure of particularly large and complex enzymes to be revealed in the journal Cell Reports. Scientists at Martin

a multi-enzyme complex that plays an essential role in metabolism and have discovered that it functions differently than previously thought. This will help scientists better understand certain diseases. Enzymes are a cell's biocatalysts. They accel-

erate chemical reactions in metabolism. Individual enzymes frequently form a complex with many subunits, as in the case of the pyruvate dehydrogenase complex. even take place at all. As a result, they play an extremely important role.

**EXTRA JUDICIAL SETTLEMENT OF ESTATE OF DECEASED "SEVERA SALES MALLILAY"**

NOTICE is hereby given that the estate of the deceased **SEVERA SALES MALLILAY** who died intestate on November 17, 2020 in Manggahan, City of General Trias, Cavite, consisting of certain personal properties and bank deposits as follows to wit:

**Rizal Commercial Banking Corporation (RCBC)**  
Savings Account No. 8379  
Amount of deposit: more or less ₱246,630.45  
(Two Hundred Eighty-Six Thousand Six Hundred Thirty and Forty-Five Hundredths)

**Rizal Commercial Banking Corporation (RCBC)**  
Dollar Account No. 0179  
Amount of deposit: more or less \$5,059.62  
(Five thousand fifty-nine and Sixty-two Hundredths)

**EASTWEST BANK**  
Savings Account No.  
Amount of deposit: more or less ₱33,790  
(Thirty-Three Thousand Seven Hundred)

**UNION BANK**  
Savings Account No. 10959991830  
Amount of deposit: (unknown)

**TRANSFER CERTIFICATE OF TITLE NO. T-128585**

"A parcel of land situated in the Brgy. Of Manggahan, Mun. of Gen. Trias, Prov. of Cavite, Island of Luzon, consisting an area of FORTY FIVE (45) SQUARE METERS

**TRANSFER CERTIFICATE OF TITLE No. OP-6173**  
Lot 4, Co-04-006279-D  
Containing an area of NINE HUNDRED THIRTY SEVEN (937) SQUARE METERS

has been adjudicated and extra-judicially settled by and among her heirs on January 29, 2021 at City of General Trias, Cavite before Notary Public/Atty. Christopher P. Colares and entered in the Notarial Register as Doc. No. 479, Page No. 97, Book No. 26, Series of 2021.

(Sgd.) All Heirs

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Date: February 1, 8 & 15, 2021



Republic of the Philippines  
**OFFICE OF THE CITY CIVIL REGISTRAR**  
City of General Trias, Cavite  
(046) 509-5014

**NOTICE OF PUBLICATION**

In compliance with Section 5 of R.A. 9048, notice is hereby served to the public that **MARIBETA CLAMOR BAUTISTA** has filed with this Office a petition for Change of First Name from **LIZA to MARIBETA** in the birth certificate of **Zita Clamor Bautista** who was born on 27 April 1963 at General Trias, Cavite and whose parents are **Domingo K. Bautista and Rosalita A. Clamor**.

Any person adversely affected by said petition may file his/her written opposition to this Office not later than **February 22, 2021**.

(Sgd.) **ARLENE E. BUGTONG**  
City Civil Registrar

**DIYARYO KABITENYO** - February 8 & 15, 2021



Republic of the Philippines  
**OFFICE OF THE CITY CIVIL REGISTRAR**  
City of General Trias, Cavite  
(046) 509-5014

**NOTICE OF PUBLICATION**

In compliance with Section 5 of R.A. 9048, notice is hereby served to the public that **VICTORINA PUGEDA CASTIGADOR** has filed with this Office a petition for Change of First Name from **MARIA VICTORINA TRINIDAD to VICTORINA** in the birth certificate of **Marla Victoria Trinidad Pagoda** who was born on 23 May 1950 at General Trias, Cavite and whose parents are **Tedillo F. Pagoda and Marciana Naran**.

Any person adversely affected by said petition may file his/her written opposition to this Office not later than **February 22, 2021**.

(Sgd.) **ARLENE E. BUGTONG**  
City Civil Registrar

**DIYARYO KABITENYO** - February 8 & 15, 2021

Republic of the Philippines  
**OFFICE OF THE MUNICIPAL CIVIL REGISTRAR**  
Isidag, Cavite

In the matter of Change of First Name in the Certificate of Live Birth (SECPA) of

**EDUARDO JECIEL ROMEN**

CPN-0001-2021

**DOMINADOR J. ROMEN**  
Petitioner

**NOTICE OF PUBLICATION**

There is a petition filed for the change of first name in Certificate of Live Birth (SECPA) of **EDUARDO JECIEL ROMEN** from "EDUARDO" to "DOMINADOR"

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

Let this NOTICE be published at least once a week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 5 of Republic Act No. 9048.

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

**DIYARYO KABITENYO** - February 8 & 15, 2021

No guy has a magic.  
Magic is in the heart of the girl  
loving the guy who can send  
her whole being up in 'Cloud  
Nine' even with the mere touch  
on her fingertips.

-Arnold S. Barco

REPUBLIC OF THE PHILIPPINES  
Regional Trial Court  
Fourth Judicial Region  
Branch 20  
Imus, Cavite

**NATIONAL HOME MORTGAGE FINANCE CORPORATION,**

Mortgagee/Assignee.

-VERSUS-

Extra-Judicial Foreclosure of Real Estate Mortgage Under Act No. 3133, as Amended, Republic Act No. 4118

EC NO. 16956-20

**ZOSIMAR R. GAYON,**

Mortgagor.

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon extra-judicial petition for sale under Act 3133 as amended by Act 4118 filed by **NATIONAL HOME MORTGAGE FINANCE CORPORATION**, mortgagee/assignee, with principal office address at 104 Amorsolo St., Legaspi Village, Makati City against **ZOSIMAR R. GAYON**, mortgagor with residence and postal address at 2737 Paulino St., Tambo, Parañaque City/ Lakeside Subd., Lot 80 Bk. 7, Tocleng, Kawit, Cavite, to satisfy the mortgage indebtedness which as of September 30, 2019 amounts to **SIX HUNDRED TWENTY TWO THOUSAND SEVEN HUNDRED TWENTY FIVE PESOS & 27/100 (₱622,725.27)**, Philippine Currency, including interest and penalty charges and excluding attorney's fees, sheriff's fees and all other charges incidental to this foreclosure and sale, the undesignated Sheriff IV will sell at Public Auction on **March 16, 2021 at 10:00 a.m.** or soon thereafter at the main entrance of the Office of the Clerk of Court, RTC Imus, Bulwagan Ng Katarungan, Apurro Highway, Imus, Cavite, to the highest bidder for cash and in Philippine Currency, the following property with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE No. T-459516**

A parcel of land (Lot 80 Bk. 7, of the consolidated subd. plan, Psa-007111-00066), being a portion of the consol. of Lots 1 & 2, Psa-246995, LRC Case, No. ), sit. in the Brgy. of Tocleng, Mun. of Kawit, Prov. of Cavite, bounded on the SE, along line E-2 by Lot 79, Bk. 7 of the consol. subd. plan, on the SW, along line 3-3 by the Property of Leticia Oquias (Psa-247242), on the NW, along line 3-4 by Lot 81, blk. 7 on the 4-1 by Ref. Lot 17, both of the consolidation/subd. plan, a 3 x 3 containing an area of **THIRTY SIX (36) SQ. METERS x x x**

All sealed bid must be submitted to the undersigned on the stated time and date.

In the event the public auction should not take place on the said date, it shall be held on **March 23, 2021 at 10:00 a.m.** without prior notice.

Prospective bidders/buyers are hereby to investigate for themselves the title to the said property and circumstances hereon if any there be.

Imus, Cavite, Philippines, January 20, 2021.

(Sgd.) **ANSELMO P. PAGUNSAN, JR.**  
Sheriff IV

APPROVED:

(Sgd.) **ANMIEA FRANCISCO**  
Clerk of Court V  
Office-in-Charge

Copy Furnished:

**NATIONAL HOME MORTGAGE FINANCE CORPORATION**  
#104 Amorsolo St., Legaspi Village, Makati City

**ZOSIMAR R. GAYON**  
2737 Paulino St., Tambo, Parañaque City  
Lakeside Subd., Lot 80 Bk. 7, Tocleng, Kawit, Cavite

Publisher: **DIYARYO KABITENYO**  
Date: February 15, 22 and March 1, 2021



REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARITES CITY

BDO UNIBANK, INC.,  
Mortgagee

Foreclosure Case No. F-044-20

JUNREY REVILLA DASIG, AS REPRESENTED  
BY HIS ATTORNEY-IN-FACT, ELIZABETH  
REVILLA DASIG,

Mortgagee

**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 Mortgagees, JUNREY REVILLA DASIG, AS REPRESENTED BY HIS ATTORNEY-IN-FACT, ELIZABETH REVILLA DASIG, with residence and postal address at (1) Lot 38 Block 1, Kensington 7, Lancaster New City, Brgy. Navarro, Gen. Trias, Cavite, (2) Lot 37, Block 1, Kensington 7, Brgy. Navarro, Gen. Trias, Cavite; and (3) No. 338-B, Island Homes 1, Subd. Med., Imus, 4103 Cavite, to satisfy the mortgage indebtedness as of 31 January 2020, amount to ONE MILLION EIGHT HUNDRED SEVENTY NINE THOUSAND FOUR HUNDRED SEVENTY TWO PESOS & 37/100 (P1,879,472.37), 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 22, 2021** at 11:00 o'clock in the morning at the main entrance of the Government Center Bldg. located at the Provincial Capitol Compound, Trice Marites 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. 957-291681639**

LOT NO. 38 BLOCK NO.: 1 PLAN NO: PCS-04-028223  
PORTION OF: BLK 14, PSD-04-225691 AND LOT 1686, SFDMC (FRS-04-065311)  
LOCATION: BARANGAY OF NAVARRO, MUNICIPALITY OF GENERAL TRIAS, PROVINCE OF CAVITE, ISLAND OF LUZON  
BOUNDARIES:  
LINE DIRECTION ADJOINING LOT(S)  
1-2 NW ROAD LOT 8, PCS-04-028223  
2-3 NE LOT 37, BLOCK 1, PCS-04-028223  
3-4 SE LOT 38, BLOCK 1 PCS-04-028223  
4-1 SW LOT 39, BLOCK 1, PCS-04-028223

AREA : FORTY ONE SQUARE METERS (41), MORE OR LESS

**TRANSFER CERTIFICATE OF TITLE No. 957-2916864284**

LOT NO. 17 BLOCK NO.: 1 PLAN NO: PCS-04-028223  
PORTION OF: BLK 14, PSD-04-225691 AND LOT 1686, SFDMC (FRS-04-065311)  
LOCATION: BARANGAY OF NAVARRO, MUNICIPALITY OF GENERAL TRIAS, PROVINCE OF CAVITE, ISLAND OF LUZON  
BOUNDARIES:  
LINE DIRECTION ADJOINING LOT(S)  
1-2 NE LOT 36, BLOCK 1, PCS-04-028223  
2-3 SE LOT 38, BLOCK 1, PCS-04-028223  
3-4 SW LOT 38, BLOCK 1 PCS-04-028223  
4-1 NW ROAD LOT 8, PCS-04-028223  
AREA : FORTY ONE SQUARE METERS (41), 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 28, 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.

Trice Marites City, **February 05, 2021.**

(Sgt.) REYNALDO T. SALOMA  
Sheriff IV

Copy Furnished:

BDO UNIBANK, INC.,  
RISK MANAGEMENT GROUP-REMEDIAL MANAGEMENT UNIT  
11<sup>th</sup> Floor, BDO South Tower, BDO Corporate Tower  
7899 Makati Avenue, Makati City 0726

JUNREY REVILLA DASIG and ELIZABETH REVILLA DASIG  
(1) Lot 38 Block 1, Kensington 7, Lancaster New City, Brgy. Navarro, Gen. Trias, Cavite  
(2) Lot 37 Block 1, Kensington 7, Brgy. Navarro, Gen. Trias, Cavite  
(3) No. 338-B, Island Homes 1, Subd. Med., Imus, 4103 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 : February 15, 22 and March 1, 2021

**Age shall not weary them when it comes to discus and javelin**

American athlete Tom Brady has done the seemingly impossible, winning his seventh Super Bowl at the age of 43 in spectacular fashion. He's joined by Serena Williams who won 23 grand slams, one of them while pregnant. The reasons for age-defying athletic performances are dependent on numerous factors, including diet, but a new study by Iranian and University of South Australia researchers shows that when it comes to track

and field events, the age when athletes peak often depends on the sport.

Discus and javelin throwers as well as marathon runners and race walkers are likely to achieve their best performances at a later age than sprinters, hur-

dlers and middle-distance runners. Why? It comes down to muscle fibres and technique.

UniSA Executive Dean of Allied Health and Human Performance, Professor Roger Eston, says that the number, type (fast twitch or slow twitch

muscle fibre) and size of muscles required for different sports is one of the main biological reasons for these differences.

In a paper published in the European Journal of Sport Science, Prof Eston says that pace, endurance,

power and strength are affected by age to a different extent.

"Legs experience maximum growth before the trunk, hands, neck and head, so sprinters and jumpers are more likely to peak at a younger age than throwers," he says.

Republic of the Philippines  
Province of Cavite  
Municipality of Alibon

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

NOTICE FOR PUBLICATION

In compliance with Section 5 of R.A. No. 9048, a notice is hereby served the public that **RENATO AVISTADO DIMACUBA** has filed with this office a petition for change of first name from **NERATO** to **RENATO** in the birth certificate of **NERATO A. DIMACUBA** who was born on **October 2, 1956** at **Sinalin, Alibon, Cavite**, and whose parents are **Conrado E. Dimacuba and Soledad V. Avistado**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 1, 2021**.

(Sgt.) TERESITA A. GALANG  
Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

Republic of the Philippines  
Province of Cavite  
Municipality of Alibon

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

NOTICE FOR PUBLICATION

In compliance with Section 5 of R.A. No. 9048, a notice is hereby served the public that **WILFREDO A. PEJI** has filed with this office a petition for change of first name from **BUENAVENTURA** to **WILFREDO** in the birth certificate of **BUENAVENTURA ALEGRE PEJE** who was born on **July 14, 1961** at **Caytitinga, Alibon, Cavite**, and whose parents are **Victorino Rogacion Peje and Nely Aure Alegre**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 1, 2021**.

(Sgt.) TERESITA A. GALANG  
Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

**Why portraying humans as healthy machines can backfire**

Researchers from consumers – specifically their eating behavior and health. The study, forthcoming in the Journal of Marketing that examines explores how "Portraying Humans as human-as-machine Machines to Promote Health. Unintended

Republic of the Philippines  
Province of Cavite  
Municipality of Alibon

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

Publication Notice  
R.A. 10172

NOTICE TO THE PUBLIC

Date: February 9, 2021

CCE-0007-2021 R.A. 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 **MARIBEL JAVIER PEREDA** has filed with this office, a petition for correction of Date of Birth from **"March 23, 1958"** to **"MARCH 29, 1958"** in the certificate of live birth of **Maribel Javier Pereda (OCRG Copy) / Maribel J. Pereda (LCRO Copy)** at **Maraban, Alibon, Cavite** and whose parents are **Serafin Cruz Pereda (OCRG Copy) Serafin Cruz Pereda (LCRO Copy)** and **Jovita Umal Javier (OCRG Copy) / Jovita U. Javier (LCRO Copy)**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 1, 2021**.

(Sgt.) TERESITA A. GALANG  
Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

Republic of the Philippines  
Province of Cavite  
Municipality of Maragondon

Office of the Municipal Civil Registrar

NOTICE TO THE PUBLIC

CEN-001-2021 Date: February 2, 2021

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 the Name of Document Owner has filed with this Office, a petition for CHANGE OF FIRST NAME from **"ENORIO"** to **"HONORIO"**, in the certificate of live birth of **ENORIO CABOG TANAG** who was born on **January 11, 1962** at **Maragondon, Cavite** and whose parents are **EVARISTO O. TABAG and CONCEPCION T. CABOG**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 1, 2021**.

(Sgt.) LEONORA V. LOYOLA  
Municipal Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

Risks, Mechanisms, Chi Huang. To combat obesity, governments, marketers, and consumer

Republic of the Philippines  
Province of Cavite  
Municipality of Maragondon

Office of the Municipal Civil Registrar

NOTICE TO THE PUBLIC

CEN-003-2021 Date: February 2, 2021

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 the Name of Document Owner has filed with this Office, a petition for the CORRECTION OF DATE OF BIRTH from **"AUGUST 9, 1976"** to **"JULY 9, 1976"**, in the certificate of live birth of **ANALYN POLITICO ANGUE** who was born on **AUGUST 9, 1976** at **Maragondon, Cavite** and whose parents are **CORNELIO LOYOLA ANGUE and ISABEL CAMAT POLITICO**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 1, 2021**.

(Sgt.) LEONORA V. LOYOLA  
Municipal Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

Republic of the Philippines  
MUNICIPAL CIVIL REGISTRAR OFFICE  
Municipality of Tanza  
Province of Cavite

NOTICE OF PUBLICATION

In compliance with Sec. 5 of Rep. Act No. 9048, a notice is hereby served to the public that **EDWINGO O. BALAGAS** has filed with this office a petition for CHANGE OF FIRST NAME (OCRG & LCRO Copy) from **"HERMAN"** to **"EDWINGO"** in the CERTIFICATE OF LIVE BIRTH of our **HERMAN BALAGAS**, who was born on **JULY 30, 1987** at **Tanza, Cavite** and parents were **PEDRO BALAGAS & NATIVIDAD ORIC**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 1, 2021**.

(Sgt.) MA. THERESA CESA  
Municipal Civil Registrar

DIYARYO KABITENYO - February 15 & 22, 2021

welfare organizations leverage people's existing associations about machines – that machines make decisions more rationally. One strategy to help them approach food in a machine-like manner, with the goal of encouraging healthier choices.





# Climate change may have driven the emergence of SARS-CoV-2

Global greenhouse gas emissions over the last century have made southern China a hotspot for bat-borne coronaviruses, by driving growth of forest habitat favoured by bats.

A new study published February 5, 2021 in the journal *Science* of the Total Environment provides the first evidence of a mechanism by which climate change could have played a direct role in the emergence of SARS-CoV-2, the virus that caused the COVID-19 pandemic.

The study has revealed large-scale changes in the type of vegetation in southern Chinese Yunnan province, and adjacent regions in Myanmar and Laos,

over the last century. Climatic changes including increases in temperature, sunlight and atmospheric carbon dioxide -- which affect the growth of plants and trees -- have changed natural habitats from tropical shrubland to tropical savannah and deciduous woodland. This created a suitable environment for many bat species that predominantly live in forests.

The number of coronaviruses in an area is closely linked to the number of different bat species present. The study found that an additional 40 bat species have moved into the southern Chinese Yunnan province in the past century, harbouring around 100 more types of bat-borne coronavirus.

This "global hotspot" is the region where genetic data suggests SARS-CoV-2 may have arisen.

"Climate change over the last century has made the habitat in the southern Chinese Yunnan province suitable for more bat species," said Dr Robert Beyer, a researcher in the University of Cambridge's Department of Zoology and first author of the study, who has recently taken up a European research fellowship at the Potsdam Institute for Climate Impact Research, Germany.

He added: "Understanding how the global distribution of bat species has shifted as a result of climate change may be an important step in reconstructing the origin of

the COVID-19 outbreak."

To get their results, the researchers created a map of the world's vegetation as it was a century ago, using records of temperature, precipitation, and cloud cover. Then they used information on the vegetation require-

ments of the world's bat species to work out the global distribution of each species in the early 1900s. Comparing this to current distributions allowed them to see how bat 'species richness', the number of different species, has changed across the globe over the last century due to climate change.

"As climate change altered habitats, species left some areas and moved into others -- taking their vi-

ruses with them. This not only altered the regions where viruses are present, but most likely allowed for new interactions between animals and viruses, causing more harmful viruses to be transmitted or evolve," said Beyer.

The world's bat population carries around 3,000 different types of coronavirus, with each bat species harbouring an average of 2.7 coronaviruses -- most without showing symptoms. An increase in the number of bat species in a particular region, driven by climate change, may increase the likelihood that a coronavirus harmful to humans is present, transmitted, or evolves there.

Most coronaviruses carried by bats can-

not jump into humans. But several coronaviruses known to infect humans are very likely to have originated in bats, including three that can cause human fatalities: Middle East Respiratory Syndrome (MERS) CoV, and Severe Acute Respiratory Syndrome (SARS) CoV-1 and CoV-2.

The region identified by the study as a hotspot for a climate-driven increase in bat species richness is also home to pangolins, which are suggested to have acted as intermediate hosts to SARS-CoV-2. The virus is likely to have jumped from bats to these animals, which were then sold at a wildlife market in Wuhan -- where the initial human outbreak occurred.



# 'Gamechanger' drug for treating obesity cuts body weight by 20 percent

One third (35%) of people who took a new drug for treating obesity lost more than one-fifth (greater than or equal to 20%) of their total body weight, according to a major global study involving UCL researchers.

The findings from the large-scale international trial, published February 11, 2021 in the *New England Journal for Medicine*, are being hailed as a "gamechanger" for improving the health of people with obesity and could play a major part in helping the UK to reduce the impact of diseases, such as COVID-19.

The drug, semaglutide, works by hijacking the body's own appetite regulating system in the brain leading to reduced hunger and

calorie intake. Rachel Batterham, Professor of Obesity, Diabetes and Endocrinology, who leads the Centre for Obesity Research at UCL and the UCLH Centre for Weight Management, is one of the principal authors on the paper which involved almost 2,000 people in 16 countries.

Professor Batterham (UCL Medicine) said: "The findings of this study represent a major breakthrough for improving the health of people with obesity. Three-quarters (75%) of people who received semaglutide 2.4mg lost more than 10% of their body weight and more than one-third lost more than 20%.

No other drug has come close to produc-

ing this level of weight loss — this really is a gamechanger. For the first time, people can achieve through drugs what was only possible through weight-loss surgery."

Professor Batterham added: "The impact of obesity on health has been brought into sharp focus by COVID-19 where obesity markedly increases the risk of dying from the virus, as well as increasing the risk of many life-limiting serious diseases including heart disease, type 2 diabetes, liver disease and certain types of cancers. This drug could have major implications for UK health policy for years to come."

The average participant in the trial lost 15.3kg (nearly 3 stone);

this was accompanied by reductions in risk factors for heart disease and diabetes, such as waist circumference, blood fats, blood sugar and blood pressure and reported improvements in their overall quality of life.

The trial's UK Chief Investigator, Professor John Wilding (University of Liverpool) said: "This is a significant advance in the treatment of obesity. Semaglutide is already approved and used clinically at a lower dose for treatment of diabetes, so as doctors we are already familiar with its use. For me this is particularly exciting as I was involved in very early studies of GLP1 (when I worked at the Hammersmith Hospital in the 1990s we

were the first to show in laboratory studies that GLP1 affected appetite), so it is good to see this translated into an effective treatment for people with obesity."

With evidence from this trial, semaglutide has been submitted for regulatory approval as a treatment for obesity to the National Institute of Clinical Excellence (NICE), the European Medicines Agency (EMA) and the US Food and Drug Administration (FDA).

The Phase III STEP<sup>®</sup> randomised controlled trial involved 1,961 adults who were either overweight or had obesity (average weight 105kg/16.5 stone; body mass index 38kg/m<sup>2</sup>), and took place at 129 sites in 16

countries across Asia, Europe, North America, and South America.

Participants took a 2.4mg dose of semaglutide (or matching placebo) weekly via subcutaneously (under the skin) injection; similar to the way people with diabetes inject insulin. Overall, 94.3% of participants completed the 68-week study, which started in autumn 2018.

Those taking part also received individual face-to-face or phone counselling sessions from registered dietitians every four weeks to help them adhere to the reduced-calorie diet and increased physical activity, providing guidance, behavioural strategies and motivation.

# DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

Vol. 23 No. 52

February 15-21, 2021

P 10.00

## Novel protein could reverse severe muscle wasting in disease, aging and trauma

When we tear a muscle, stem cells within it repair the problem. We can see this occurring only in severe wasting diseases such as muscular dystrophy and in war veterans who survive catastrophic limb injuries, but also in our day to day lives when we pull a muscle.

Also when we age and become frail we lose much of our muscle and our stem cells don't seem to be able to work as well as we age.

These muscle stem cells are invisible engines that drive the tis-

sue's growth and repair after such injuries. But growing these cells in the lab and then using them to therapeutically replace damaged muscle has been frustratingly difficult.

Researchers at the Australian Regenerative Medicine Institute at Monash University in Melbourne, Australia have discovered a factor that triggers these muscle stem cells to proliferate and heal. In a mouse model of severe muscle damage, injections of this naturally occurring protein led to the complete regeneration of muscle and the re-

turn of normal movement after severe muscle trauma. The research led by Professor Peter Currie, Director of Monash University's Australian Regenerative Medicine Institute, is published February 10, 2021 in Nature.

The scientists studied the regeneration of skeletal muscle in zebrafish, fast becoming the go-to animal model for the study of stem cell regeneration because but fish are quick to reproduce, easier to experimentally manipulate, and share at least 70 percent of its genes with humans.

## How SARS-CoV-2 mutates to escape antibody binding

In a recurring pattern of evolution, SARS-CoV-2 evades immune responses by selectively deleting small bits of its genetic sequence, according to new research from the University of Pittsburgh School of Medicine. Since these deletions happen in a part of the sequence that encodes for the shape of the spike protein, the formerly neutralizing antibody can't grab hold of the virus, the researchers report February 3, 2021 in Science. And because the molecular "proof-reader" that usually catches errors during SARS-CoV-2 replication is "blind" to fixing deletions, they become cemented into the variant's genetic material.

"You can't fix what's not there," said study senior author Paul Duprex, Ph.D., director of the Center for Vaccine Research at the University of Pittsburgh. "Once it's gone, it's gone, and if it's gone in an important part of the virus that the antibody 'sees,' then it's gone for good." Ever since the paper was first submitted as a preprint in November, the researchers watched this pattern play out, as several variants of concern rapidly spread across the globe. The variants first identified in the United Kingdom and South Africa have these sequence deletions.

Duprex's group first came across these neutralization-resistant deletions in a sample from an immunocompromised patient, who was infected with SARS-CoV-2 for 74 days before ultimately dying from COVID-19. That's a long time

for the virus and immune system to play "cat and mouse," and gives ample opportunity to initiate the coevolutionary dance that results in these worrisome mutations in the viral genome that are occurring all over the world.

Then, Duprex enlisted the help of lead author Kevin McCarthy, Ph.D., assistant professor of molecular biology and molecular genetics at Pitt and an expert on influenza virus — a master of immune evasion — to see whether the deletions present in the viral sequences of this one patient might be part of a larger trend.

McCarthy and colleagues pored through the database of SARS-CoV-2 sequences collected across the world since the virus first spilled over into humans.