

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

Proverbs 18:10

DIYARYO KABITENYO

Nagmamaiasakit sa lalawigan

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

1 Corinthians 16:13

Duterte declares state of calamity in Calabarzon

President Duterte has declared a state of calamity in the Cavite, Laguna, Batangas, Rizal and Quezon (Calabarzon) region to help in the rehabilitation of areas affected by the recent eruption of Taal Volcano.

With the President's declaration, the Philippine government opens itself to assistance from the international community, which may want to extend aid to the affected areas for humanitarian purposes.

Proclamation No. 904 would also empower the government to take steps to prevent unnecessary hoarding of goods in the region.

"The declaration of a state of calamity will hasten the rescue, relief and rehabilita-

tion efforts of the government and the private sector, including any international humanitarian assistance, and will effectively control the

prices," Duterte said in his order.

Presidential spokesman Salvador Panelo expressed confidence that the proper protocols

would be followed in the request and granting of international humanitarian assistance. "There are established protocols for declared calamities," he

said at a press briefing last Feb. 27.

"There is nothing wrong to ask for assistance so that we can help more those who

are in need," Panelo added, when asked why the President had signified seeking assistance from abroad.

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Social Welfare Officer III Helyn L. Lapiaz enlightens the students of the Trece Martires City National High School against child pornography and gives tips on safer internet use as part of the provincial government celebration of the 27th Provincial Children's Month.

Cavite celebrates 27th Provincial Children's Month

TRECE MARTIRES CITY - A total of 150 junior high school students participated in the recent provincial celebration of the 27th Provincial Children's

Month held at Trece Martires City National High School. The event with the theme "Karapang Pambata: Pambayon Pabalagatan at Gam-

panan Tugso sa Maginging Kinabukasan" was initiated by the Provincial Government of Cavite led by Gov. Jansic Bantilla who delivered the State of the

Children's Report. Gov. Jansic stressed that, "the provincial government in partnership with different local and national agencies always

made every Caviteño child's survival, development, protection, and participation rights a priority through the advocacies and gov-

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DIYARYO KABITENYO

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ARNULFO BARCO

Publisher - Editor

GUNER BARCO

Operations Manager

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Distrust of past experience may underlie obsessive-compulsive symptoms

People with higher obsessive-compulsive symptoms may place less trust in their past experience, leading to increased uncertainty, indecisiveness, and exploratory behaviors, according to new research presented in PLOS Computational Biology by Isaac Fradkin of the

Hebrew University of Jerusalem, Israel, and colleagues. Obsessive-compulsive disorder (OCD) is characterized by intrusive thoughts, urges, or images that cause marked distress, and repetitive behavioral or mental rituals. For example, after turning off

the lights a person with OCD can easily become unsure whether the lights are off, and return repeatedly to check. Such behavior might reflect difficulty in trusting assigned experience, leading to an excessive need for gathering updated evidence. To test that hypoth-

esis, Fradkin and colleagues asked 58 people with varying levels of obsessive-compulsive symptoms to complete a decision-making task in which they had to balance the weight they assigned to prior experience with the weight given to more recent observations.

(DUTERTE... from page 1)

Duterte, however, has been turning down assistance even from allies, especially those critical of his human rights record. Panels and seeking international humanitarian help for disaster is a different matter.

Asked why it took quite long before the President declared the state of calamity, Pando said, "There can never be too late in any declaration with respect to calamities."

Pressed further on the apparent inaction of the House of Representatives to pass the P30-billion supplemental budget sought by Duterte for the Tacd rehabilitation, Pando expressed confidence that Congress would eventually approve it.

"The presumption is that they are doing their jobs, until such time that they don't, we will appeal to them," Pando said.

In January, Speaker Alan Peter Cayetano led a special session in Batangas barely two weeks after the eruption. During the out-of-town session, all representatives from Batangas' six districts spearheaded the filing of the bill allocating P30 billion as supplemental budget for the rehabilitation of the areas affected by the eruption.

In one of his visits to Batangas, Duterte also halted the entry and removal of local residents within the seven-kilometer radius from the

main center. The P30-billion will support the P16-billion allotment under the 2020 budget for disasters this year, which included P2.5 billion for the rehabilitation of Marawi City, and P5 billion for the communities affected by earthquakes last year in Mindanao.

The four regular sessions of Congress will adjourn from March 14 to May 3. It will resume again for a month from May 4 to June 5 before going on one day adjournment from June 6 to July 6. The President will be delivering his State of the Nation Address after the one day adjournment.

Under Proclamation No. 806, the President issued how the volcanic activity of Tacd

has caused widespread damage to properties and posed great danger to the health and safety of the local residents.

"This declaration will, among others, afford the National Government, as well as local government units, ample latitude to utilize appropriate funds for the rescue, recovery, relief and rehabilitation in accordance with pertinent operational plans and directives.

(CAVITE... from page 1)

ment program developed and implemented."

During the event, a cyber safety orientation dubbed as "Cyber Safety is My Responsibility: Orientation on Anti-Child Pornography Act and Tips on Safer Internet among Youth and Stakeholders" was conducted.

The discussion was facilitated by Ms. Henelyn L. Lapiaz, Social Welfare Officer III, that deliberated on topics like cyberbullying, online sex exploitation, child pornography as well as

several other relevant and timely topics.

"You should always be aware on the proper use of the internet and the social media to safeguard yourself from on-line predators," Ms. Lapiaz stressed.

The event was made possible through the

Provincial Council for the Protection of Children in cooperation with the Inter-agency Council Against Trafficking (IACAT IV-A) and the Department of Education and school officials of the Trece

Martres City National High School.

time to provide basic services, for affected population, in accordance with law" the proclamation read.

Duterte also directed all departments and other concerned government agencies to implement and execute social, recovery, relief and rehabilitation work in accordance with pertinent operational plans and directives.

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 National Office of Civil Registry
 Office of the City Registrar - Cebu
 City of Cebu, Cebu City, 6000, Philippines
 Tel. No. 332-1234, 332-5678, 332-9012, 332-3456

NOTICE TO THE PUBLIC
 In compliance with the publication requirement and pursuant to A.C.R. Memorandum Circular No. 2020-01, the Office of the City Registrar, Cebu, is hereby notified to the public that the following information is being published for the purpose of providing notice to the public:

ANGELICA BASTONG
 (Maiden Name: ANGELICA BASTONG)
 Date of Birth: 01/15/1985
 Sex: Female
 Civil Status: Single
 Date of Issuance: 02/10/2020
 Date of Expiration: 02/10/2025

ANGELICA BASTONG
 (Maiden Name: ANGELICA BASTONG)
 Date of Birth: 01/15/1985
 Sex: Female
 Civil Status: Single
 Date of Issuance: 02/10/2020
 Date of Expiration: 02/10/2025

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 City of Cebu, Cebu City, 6000, Philippines
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NOTICE TO THE PUBLIC
 Date: January 28, 2020

In compliance with the publication requirement and pursuant to A.C.R. Memorandum Circular No. 2020-01, the Office of the City Registrar, Cebu, is hereby notified to the public that the following information is being published for the purpose of providing notice to the public:

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NOTICE TO THE PUBLIC
 Date: January 30, 2020

In compliance with the publication requirement and pursuant to A.C.R. Memorandum Circular No. 2020-01, the Office of the City Registrar, Cebu, is hereby notified to the public that the following information is being published for the purpose of providing notice to the public:

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 (Maiden Name: ANGELICA BASTONG)
 Date of Birth: 01/15/1985
 Sex: Female
 Civil Status: Single
 Date of Issuance: 02/10/2020
 Date of Expiration: 02/10/2025

Skin and non-adhesive cells found to play pivotal role in formation of fingers

Scientists have discovered that skin and non-adhesive cells play a pivotal role in the formation of fingers. The study, published in the journal *Development*, shows that these cells are essential for the development of the digits. The researchers found that the absence of these cells leads to the formation of webbed fingers, a condition known as syndactyly. The study also identified the specific genes and signaling pathways involved in this process. The findings have implications for understanding the development of the human hand and for identifying the causes of congenital limb malformations.

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layer of non-adhesive cells on the skin surface is required to prevent the fusion of adjacent digits.

"Our study identifies epidermal developmental processes required for digit separation that extend beyond the insufficient removal of connective tissue. These additional factors play an integral role in syndactyly and may be implicated in other complex syndromes, including Van der Woude syndrome," said Gladys Kagitani, Ph.D., a post-doctoral researcher in the USC School of Medicine Department of Biological Chemistry and her co-author on the paper titled, "Epithelial migration and non-adhesive particles are required for digit separation during mammalian development."

Van der Woude syndrome is characterized by club feet and club palms. In addition, seven to eight percent of Van der Woude patients have limb defects, most commonly webbed fingers, which suggests there is a shared developmental mechanism in webbed and digit separation.

The research shows that the *GREY1* gene is required for several digit separation.

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF DECEASED CLARO B. RESURRECCION WITH PARTITION AND UNILATERAL ABSOLUTE SALE

NOTICE is hereby given that the estate of the late **CLARO B. RESURRECCION** who died intestate on July 19, 2002 at Kavit, Cavite consisting his One-Half (1/2) Conjugal Share over share (1/2) three parcels of land particularly described as follows:

Transfer Certificate of Title No. T-1019626

Registry of Deeds for the Province of Cavite

A parcel of land situated in the Brgy. of Kaingit, Mun. of Kavit, Prov. of Cavite, containing an area of TWO THOUSAND EIGHT HUNDRED (2,800) SQUARE METERS.

Transfer Certificate of Title No. T-1019617

Registry of Deeds for the Province of Cavite

A parcel of land situated in the Brgy. of Kaingit, Mun. of Kavit, Prov. of Cavite, containing an area of ONE THIRTEEN THOUSAND FOUR HUNDRED (13,400) SQUARE METERS.

Transfer Certificate of Title No. T-1019608

Registry of Deeds for the Province of Cavite

A parcel of land situated in the Brgy. of Kaingit, Mun. of Kavit, Prov. of Cavite, containing an area of ONE THOUSAND FOUR HUNDRED (1,400) SQUARE METERS.

has been stipulated and extrajudicially settled by and among the parties as follows:

Lot 122-C-1 (2,800 sq.m.) covered by Transfer Certificate of Title No. T-1019626 - One-half (1/2) conjugal share of decedent or 1,400 sq.m. in favor of Marieta S. Resurreccion, Clara G. Resurreccion, Jr., and Carlo S. Resurreccion, share and share alike;

Lot 122-C-2 (13,400 sq.m.) covered by Transfer Certificate of Title No. T-1019617 - One-half (1/2) conjugal share of decedent or 6,700 sq.m. in favor of Marieta S. Resurreccion, Clara G. Resurreccion, Jr., and Carlo S. Resurreccion, share and share alike;

Lot 122-C-3 (1,400 sq.m.) covered by Transfer Certificate of Title No. T-1019608 - One-half (1/2) conjugal share of decedent or 700 sq.m. in favor of Marieta S. Resurreccion, Clara G. Resurreccion, Jr., and Carlo S. Resurreccion, share and share alike;

That in view of the foregoing, the shares of the parties in each of the lots are as follows:

Lot 122-C-1 (2,800 sq.m.) - Marieta S. Resurreccion - 4/9 portion, Clara G. Resurreccion - 1/9 portion, and Carlo G. Resurreccion - 1/9 portion;

Lot 122-C-2 (13,400 sq.m.) - Marieta S. Resurreccion - 4/9 portion, Clara G. Resurreccion - 1/9 portion, and Carlo G. Resurreccion - 1/9 portion;

Resurreccion - 1/9 portion;

Lot 122-C-3 (1,400 sq.m.) - Marieta S. Resurreccion - 4/9 portion, Clara G. Resurreccion - 1/9 portion, and Carlo G. Resurreccion - 1/9 portion;

That the parties have caused the subdivision of Lot 122-C-1 (2,800 sq.m.) into two (2) lots, to wit: (1) Lot 122-C-3-A containing an area of 700 sq.m., and Lot 122-C-3-B containing an area of 700 sq.m. (please see attached subdivision plan for approval)

That for and in consideration of the amount of SEVENTEEN MILLION FIVE HUNDRED THOUSAND PESOS (P75,300,000.00), Philippine Currency, they do hereby sell, convey, and convey, unto ANCHOR WEALTH PROPERTIES CORP., a corporation duly organized and existing under and by virtue of Philippine laws, with principal office address at 123 Linares St., San Nicolas, Manila, including its assets and immovables (to-wit: all their rights, share, interest and participation over the above mentioned one (1) parcel of land covered by TCT No. 3-019611 of RD-C, with containing an area of 1,400 sq.m., and Lot 122-C-3-B of the subdivided parcel of land covered by TCT No. T-1019618 of RD-Cavite containing an area of 700 sq.m. free from all liens and encumbrances.

That for and in consideration of the amount of EIGHT MILLION SEVEN HUNDRED FIFTY THOUSAND PESOS (P8,750,000.00) Philippine Currency, they do hereby sell, transfer and convey, unto BLUEBERRY REALTY & DEVELOPMENT CORPORATION, a corporation duly organized and existing under and by virtue of Philippine laws, with principal office address at 112 J. Francisco St., B3, Harmon, Brgy. 77, Pasig City, including its assets and immovables (to-wit: all their rights, share, interest and participation over the above mentioned Lot 122-C-3-A of the subdivided parcel of land covered by TCT No. T-1019613 of RD-Cavite containing an area of 700 sq.m., free from all liens and encumbrances.

That therefore, Lot 122-C-1 (2,800 sq.m.) shall belong and appertain to Marieta S. Resurreccion 4/9 portion, Clara G. Resurreccion - 1/9 portion, and Carlo G. Resurreccion - 1/9 portion, Lot 122-C-2 (13,400 sq.m.) and Lot 122-C-3-B of the subdivision Plan (700 sq.m.) shall belong and appertain to ANCHOR WEALTH PROPERTIES CORP., and Lot 122-C-3-A of the subdivision Plan (700 sq.m.) shall belong and appertain to BLUEBERRY REALTY & DEVELOPMENT CORPORATION, on January 11, 2020 at City of Imus, Cavite before Notary Public, Sr. Carlos Emmanuel C. Montoya and assisted by his Notarial Registrar at Book No. 422, Page No. 41, Book No. XXIV, Series of 2020.

(Sgd.) Marieta

Publication - DIYARYO KABITENYO
Date - February 17, 24 and March 2, 2020

DEED OF SOLE ABJUDICATION

NOTICE is hereby given that the estate of the deceased **ROMULA RETEX ALMONTE**, who died intestate at Dasmariñas City, Negros Oriental on September 10, 2011, the decedent left no unpaid debts or obligations whatsoever except the Loan and Mortgage Agreement in favor of DEVELOPMENT BANK OF THE PHILS. under Entry No. 6863 executed on December 2, 1994 (now under the NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMFC), consisting of her one-half (1/2) conjugal share over parcel of land with improvements situated in Brgy. of Malagaang I, Mun. of Imus, Prov. of Cavite, covered by Transfer Certificate of Title No. T-471412 of the Registry of Deeds for Cavite Province covering an area of SEVENTY SEVEN (75) SQUARE METERS & c. has been self-abjudicated by her sole heir **REX MONTECILLO ALMONTE**.

on February 03, 2020 at the City of Imus, Cavite before Notary Public, Sr. Carlos Emmanuel C. Montoya and assisted by his Notarial Registrar at Doc. No. 192, Page No. 79, Book No. XXV, Series of 2020.

(Sgd.) Rex Rex

Publication - DIYARYO KABITENYO
Date - February 17, 24 and March 2, 2020

diabetes and metabol- controlled from: age
ic syndrome. Caloric 18 months through 27
restriction has been months (in human,
shown in animal mod- this would be roughly
els to be one of the most equivalent to someone
effective interventions following a calorie re-
against these age-re- stricted diet from age 50
lated diseases. And through 70.)

although, researchers At both the start and
know that individu- the conclusion of the
al cells undergo many diet, Belmonte's team
changes as an organ- isolated and analyzed
ism ages, they have a total of 168,700 cells
not known how caloric from 40 cell types in the
restriction might influ- 56 yrs. The cells came
ence these changes. from fat tissues, li-
ve, kidney, aorta, skin,

In the new paper, Belmonte and his col-
laborators — including three alumni of his Salk lab who are now profes-
sors running their own research programs in China — compared rats who ate 30 per-
cent fewer calories with rats on normal diets. The animals diets were
not known how caloric from 40 cell types in the
restriction might influ- 56 yrs. The cells came
ence these changes. from fat tissues, li-
ve, kidney, aorta, skin,
bone marrow, brain and
muscle. In each isolat-
ed cell, the researcher
used single-cell gene-
tic sequencing technol-
ogy to measure the acti-
vity levels of genes. They
also looked at the over-
all composition of cell
types within any given
issue.

How caloric restriction prevents negative effects of aging in cells

If you want to reduce of the cellular effects of
levels of inflammation a calorie-restricted diet
throughout your body in rats. While the bene-
delay the onset of age- fits of caloric restriction
related diseases, and live have long been known,
longer — at least food, the new results show
That's the conclusion of how this restriction can
a new study by scientists protect against aging in
from the US and China cellular pathways, as de-
that provides the most tailed in Cell on Febru-
detailed report to date ary 27, 2020.

"We already knew Laboratory and hold-
that caloric restriction er of the Roger Galle-
increases life span, but min Chair. "This gives
now we've shown all the us targets that we may
changes that occur at a eventually be able to act
single cell level to cause ion with drugs to treat
that," says lead Car- aging in humans."
los Iparrisa Belmonte, Aging is the highest
a senior author of the risk factor for many hu-
new paper, professor in man diseases, includ-
Salk's Gene Expression ing cancer, dementia,

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

Publication Notice
S.A. 10172

NOTICE TO THE PUBLIC

CLL-0014-2020

In compliance with the publication requirement and provided to ODRG Memorandum Circular No. 2013-1 (Guidelines in the Implementation of the Administrative Order No. 1 Series of 2017 (DR on R.A. 10172), Notice is hereby served to the public that **BENATO R. CUBILLA** has filed with this Office, a petition for correction of entry in the date of birth from **October 26, 1967 to September 26, 1967** in the Certificate of Live Birth of **BENATO CUBILLA** at Iloilo, Cebu and whose parents are **Victor Cubilla and Apolinario Baga**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **March 5, 2020**.

Dr. O. MERCIA CHAVEZ
Municipal Civil Registrar

DIARYO KABITENO: February 27 and March 2, 2020

AFFIDAVIT OF SELF-ADJUDICATION
ANSOLO BEER

NOTICE is hereby given that the estate of the late **MACARIA MONTANO JOYO** who died intestate on March 17, 2019 at San Pedro de, Bantayan Subdivision II, Municipality of Talon, Province of Cebu, consisting of Five (5) Savings Account described as follows:

BOOK NUMBER	MOVING ACCOUNT NUMBER	BALANCE
1. METROBANK, Talon, Cebu	480-0-0002300-1	P 29,171.26
2. BICOL, Talon, Cebu	9025-009713	P 10,079.06
3. SML, Talon, Cebu	24470010460	P 20,011.36
4. Bangko Malayan, Talon, Cebu	11-00045-7	P 23,891.89
5. Bangko Malayan, Talon, Cebu	11-00210-5	P 21,127.42

has been self-adjudicated by her sole heir, **THELMA J. ARAYATA**, on March 20, 2019 in Municipality of Talon, Province of Cebu, Philippines before Notary Public Atty. Marissa S. Reyes-Ara and entered in the National Register on Dec. No. 41, Page No. 17, Book No. XXX, Series of 2019.

Publication: **DIARYO KABITENO**
Date: February 24, March 2 & 9, 2020

SNIPRs take aim at disease-related mutations

A typo appearing in the draft of a novel coronavirus calamity has, however, in other less beginning of stress. A change in just one letter of the genetic code can

poor mutations. They can result in mild abnormalities like color blindness as well as serious diseases, including neurodegeneration, sickle-cell anemia, certain forms of cancer and Tay-Sachs disease. Mutations can also produce disease variants that are resistant to conventional treatment.

Researchers would like to detect these point mutations to better assess vulnerabilities in human health, provide accurate early diagnosis

In a new study, lead author Alex Green,

a researcher at the Rensselaer Center for Molecular Design and Biomimetics and his colleagues describe a new method for detecting point mutations. The technique can be applied in living cells, offering a rapid, highly accurate and inexpensive means of identifying mutations relevant to human health.

The method can be used in conjunction with paper-based diagnostic tests (developed by Green and his colleagues), capable of pinpointing mutations and displaying a color-based readout in reactions powered by human body heat.

"What we've done with our technology is to develop a new, portable way to detect very minute sequence differences between RNAs you're trying to detect," Green says. "With these sensors, which we call

SNIPRs (the Single-Nucleotide Specific Programmable Ribonucleotides), we have the capacity to identify any RNA sequence based on

its and guide appropriate therapy. Until now, however, engineering subtle alterations like point mutations occurring within living cells has been challenging.

EXTRAJUDICIAL SETTLEMENT OF ESTATE AMONG HEIRS

NOTICE is hereby given that the estate of the deceased spouse **BENJAMIN S. SARTÉ** and **PETRA L. NATO** who both died intestate on October 01, 1998 at a hospital in Manila and on July 20, 1998 in another hospital in Zamboanga City, Cebu, respectively, consisting of two (2) original but improper lots situated in Tirona City, Cebu, covered by Transfer Certificate of Title No. (T-0992) RC-024, containing an area of Five Hundred Forty Square Meters (540) more or less and Transfer Certificate of Title No. T-0234, containing an area of Twenty Two Thousand Five Hundred and Thirty Five (22,335) Square Meters, more or less, respectively, has been adjudicated and extrajudicially settled by and among their heirs on October 3, 2019 at Manila City before Notary Public ROLANDO P. LARON and entered in the National Register on Dec. No. 442, Page No. 30, Book No. 249, Series of 2019.

(1pt) / None

Publication: **DIARYO KABITENO**
Date: February 24, March 2 & 9, 2020

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE LATE SALVADOR REYES SAPPINONG (WITH GED OF PALE & DONATIONS)

NOTICE is hereby given that the estate of the late **SALVADOR REYES SAPPINONG** who died intestate on March 27, 2019 in Iloilo, Cebu, consisting of a parcel of land located in Iloilo, Cebu and covered by T-3 No. E-34174 of the Registry of Deeds of the Province of Cebu, covered by Tax Dec. No. 00-020-0993, containing an area of ONE HUNDRED FIFTY NINE (159) SQ. METERS with improvements covered by Tax Dec. No. 04-025-0992 has been adjudicated and extrajudicially settled by and among his heirs in the following manner:

• **LODOL YSAAC E. SAPPINONG** married to Maria Ysabel Olim Sagudo de YENDORIS, de hereby SELL, TRANSFER, AND CHARGE his right and interests over the said lands and interests of **JOSEVIC ADOR E. SAPPINONG** married to Nilda Sagudo de VERDEZ, in the amount of ONE HUNDRED FIFTY THOUSAND PEGOS (P150,000.00).

• **JOSEVIC ADOR E. SAPPINONG** married to Nilda E. Sagudo have given back her, one and a half share to Erwin E. Sappinong.

• **MORZUELO, ELIZABETH F. SAPPINONG**, widow, de DONOR, hereby without her right and interests over the said lands and her interest of **JOSEVIC ADOR E. SAPPINONG** married to Nilda Sagudo, which they do not possess as DONORS on February 18, 2020 at Iloilo City, Cebu before Notary Public Atty. James W. Limoco and entered in the National Register on Dec. No. 200, Page No. 41, Book No. XXX, Series of 2020.

(1pt) / None

Publication: **DIARYO KABITENO**
Date: February 24, March 2 & 9, 2020

a single nucleotide modification to generate sequences that can recognize gene expression without changing the identity of individual amino acid chemical bases.

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE DECEASED SPS. DOMINADOR CRUZ GUMAPAS & JOVITA TORRES DE GUMAPAN

SCIENCE is finally given the the estate of the late DOMINADOR CRUZ GUMAPAS who died intestate on April 9, 2019 at Sta. Rita, Marikina City with JOVITA TORRES DE GUMAPAN died intestate on October 5, 2012 at Sta. Rita, Marikina City, intestate of the following property which is his exclusive property (being inherited from his deceased parents, Vito Gumapas and Magdalena Guzman).

A Jointed and final account in the Regio of Davao, City of Zamboanga, issued by the Regio Court of Probate of this Regio, No. 1878641 of the Registry of Deeds for the Province of Davao, containing an act of DNO in (MORAL TORRES) DENNY/VALMORABE MATEO.

THE DECLARATOR: NG ALDO/ALBINO - HOUSEHOLD.

Has been approved and comprehensively settled by and among the abovesaid and only surviving and compulsory heirs of the deceased DOMINADOR CRUZ GUMAPAS with source of rights and interests in favor of ANGELO D. C. on 04/09/2019 on December 9, 2019 at City of Zamboanga, Davao del Norte Province, Philippines. Leticia Fernandez, attorney and counsel in the National Register to Doc. No. 217, Page No. 47, Book No. XXXI, Series of 2019.

Publication: DIWAGOK KASITENO

Date: March 2, 8, 10, 2020

Page: 10/10

How enzymes build 'sugar trees'

Many of the human cell organelles, such as mitochondria, are decorated with complex sugar trees called glycans. In addition to being extremely diverse, these sugar trees serve as a way to identify the respective organism, a cell type or its stage of maturity. For instance, the various blood groups in humans feature different glycans.

Complex sugars that are attached to lipids form a special class of glycans. In biology, these are known as lipid-linked oligosaccharides, or LLOs. LLOs are made up of a fat molecule attached to the cell membrane and a sugar structure that extends either into the extracellularly.

Researchers from ETH Zurich, the University of Chicago have now elucidated the structure of one of the enzymes responsible for the formation of LLOs. Their study has just been published in the latest issue of the journal Nature.

The enzyme in question, known as ALG1, belongs to a superfamily of enzymes that the researchers call glycosyl transferases of the category C. Embedded in cell membranes, these link simple sugar molecules with other sugars in order to build sugar trees.

Huntington's disease-causing DNA repeat mutations reversed in the lab

Neurodegenerative diseases, like Huntington's disease and spinocerebellar ataxia, are often referred to as DNA repeat diseases, named because of long repeated sequences in the DNA of patients. Increasing repeat expansion length in the affected tissues contribute to earlier age of disease onset and worsen the progression and severity of the disease over time.

In an international study published in the February 14 online edition of Nature Genetics, scientists from The Hospital for Sick Children (SickKids), Canada, along with research teams from Osaka University, Japan, reveal the ability to reverse this repeat mutation length in the brains of a mouse model of Huntington's disease. The team discovered a compound that targets the crucial DNA structure and

was shown to reverse repeat expansions with undetectable off-target effects.

Huntington's disease is one of more than 40 neurodegenerative diseases caused by DNA repeat expansion mutations in specific genes. The unusual DNA structures, called slipped DNAs, are formed by the repeats, and levels of slipped DNAs are greater in affected tissues that have longer repeat expansions, causing more severe mutations.

The study found evidence that the molecule compound called Naphthylidine-Asparaginolimus (NA) can recognize slipped-DNAs and reverse the mutation — essentially causing a contraction of the expansion. In the lab, the research team was able to successfully reduce the repeat expansion in the brain of a Huntington's disease mouse model, as well

as in cells extracted from tissues of individuals affected by Huntington's disease.

"We found that targeting the unusual slipped DNA structures, which are critical to ongoing mutations in patient tissues, allowed us to reverse the size of repeat expansion mutations. Since larger expansion over time are directly associated with more severe disease, our findings offer hope for the ability to delay the onset of Huntington's and slow its progression," says Dr. Christopher E. Pearson, SickKids Senior Scientist in Genetics & Genome Biology and principal investigator of the study.

This is the first evidence for a small molecule that can induce contractions of disease-causing expansions *in vivo* in an affected brain region," says Dr. Masayuki Nakamura, Assistant Professor, Osaka University Graduate School of Medicine.

The findings suggest that NA could be a possible drug therapy for individuals who inherit the disease from a parent. Applying this compound to cells or tissues with repeat expansions could both block the expansion and kick start contractions of the mutant genes.

"Consider the gene as a sentence that reads, THE CAT ATE THE FAT FAT RAT. In repeat-associated diseases, the mutation would be THE CAT ATE THE FAT FAT FAT FAT FAT FAT FAT FAT. More FAT runs lead to more severe disease."

A common gut microbe secretes a carcinogen

Cancer mutations can be caused by common gut bacteria carried by many people. This was demonstrated by researchers from the Helmholtz Institute (IKAW) and Princeton-Miami Center in Utrecht, the Netherlands. By exposing cultured human intestines to a particular strain of *Escherichia coli* bacteria, they discovered that these bacteria induce a unique pattern of mutations in the DNA of human cells. This mutation pattern was also found in the DNA of colon rectum, implying that these mutations were induced by the 'bad' bacteria. It is the first time that

researchers establish a direct link between the microbes inhabiting our bodies and the genetic alterations that drive cancer development. This finding may pave the way to prevention of colorectal cancer by pursuing the eradication of harmful bacteria. The results of this research were published in *Nature* on the 27th of February.

Our body contains at least as many bacterial as human cells. Most of these microbes contribute to a healthy life, while others may cause diseases. Among the bacteria with potentially harmful consequences is a strain of the best-known gut

bacterium, *Escherichia coli* (E. coli). This particular E. coli strain is 'genotoxic' - it produces a small chemical, called 'colibactin,' which can damage the DNA of human cells. It has therefore long been suspected that the genotoxic E. coli, which live in the intestines of 1 out of 5 adults, could be harmful to their human hosts.

"They are probiotics currently on the market that contain genetic strains of E. coli. Some of these probiotics are also used in clinical trials as we speak" explains Hans Clever (Helmholtz Institute). "These E. coli strains should be critically re-evaluated in the lab."

How door-to-door canvassing slowed an epidemic

Liberia was the epicenter of a high-profile Ebola outbreak in 2014-15, which led to more than 10,000 deaths in West Africa. But for all the devastation the illness caused, it could have been worse without an innovative, volunteer-based outreach program Liberia's government deployed at late 2014.

Now, a study co-authored by an MIT pro-

fessor shows how much that program, consisting of door-to-door canvassing by community volunteers, spread valuable information and changed public practices during the epidemic. The findings also demonstrate how countries with minimal resources can both fight back against epidemics and gain public trust in difficult circumstances.

"Mediated [volunteer-based] government outreach had a positive impact on all of the [health] outcomes we measured," says Lily Tsai, a professor of political science at MIT and co-author of a new paper detailing the study's findings. "People knew more [about Ebola], had a more factual understanding of the epidemic."

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