The Lord is like a strong tower, where the righteous can go and be safe.
Proverbs 18:10

ISSN 2651-821X

DIYARYO KABITENYO
Nagmamalasakit sa lalawigan

Entered as FIRST CLASS MAIL at Imus Post Office with Business Mail Permit No. BC-19-06-249
Vol. 22 No. 47 January 13-19, 2020 P 10.00

Be alert, stand firm in the faith, be brave, be strong.
1 Corinthians 16:13

CvSU tops criminologist licensure exams

The Professional Regulation Commission (PRC) announced last Jan. 8 that 19,191 out of 43,512 passed the Criminologist Licensure Examination given last November.

Cavite State University (Don Severino Agricultural College) was the top-performing school after more than 98 percent of its takers passed the exams.

Fahadale Saripada Abbas of John Paul II College topped the exams with a 91.20 percent rating.

John Patrick Aguado Privado of Eulogio (Amang) Rodriguez Institute Of Science & Technology (90.75) and Aldrin Abate Aquino of University Of Cagayan Valley (90.50) ranked second and third place, respectively.

RANK	NAME	SCHOOL	RATING
1	[illegible]	JOHN PAUL II COLLEGE	[illegible]
2	[illegible]	[illegible]	[illegible]
3	[illegible]	UNIVERSITY OF CAGAYAN VALLEY [illegible]	[illegible]
4	[illegible]	UNIVERSITY OF [illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]

NOTHING FOLLOWS

WITH 50 OR MORE EXAMINEES AND WITH AT LEAST 80% PASSING PERCENTAGE

RANK	SCHOOL	TOTAL NO. OF EXAM	TOTAL NO. PASSED	PERCENTAGE PASSED
1	CAVITE STATE UNIVERSITY (DON SEVERINO AGRL. COLL.)	[illegible]	[illegible]	[illegible]
2	TARLAC STATE UNIVERSITY (TARLAC COLLEGE OF TECH.)	[illegible]	[illegible]	[illegible]
3	KING'S COLLEGE OF THE PHILIPPINES INC.-BENGUET [illegible]	[illegible]	[illegible]	[illegible]
4	UNIVERSITY OF THE CORDILLERAS [illegible]	[illegible]	[illegible]	[illegible]
5	LAGUNA STATE POLYTECHNIC UNIV. [illegible]	[illegible]	[illegible]	[illegible]
6	SOUTHERN LEYTE STATE UNIVERSITY [illegible]	[illegible]	[illegible]	[illegible]
7	UNIVERSITY OF BAGUIO	[illegible]	[illegible]	[illegible]
8	IFUGAO STATE UNIVERSITY [illegible]	[illegible]	[illegible]	[illegible]
9	UNIVERSITY OF [illegible]	[illegible]	[illegible]	[illegible]
10	DATA CENTER COLLEGE OF THE PHILIPPINES-LAOAG CITY	[illegible]	[illegible]	[illegible]

NOTHING FOLLOWS

Sangley to be launched as general aviation hub in Feb

The government will inaugurate Sangley Airport in Cavite on Feb. 15, positioning it as the main hub for general aviation to decongest Metro Manila's main gateway.

TUGADE

In his speech at the conference on the Institutionalized Leveraging of Infrastructure Program for Airport Development (iLIPAD) held in New Clark City last Jan. 8, Transportation Secretary Arthur P. Tugade said that the "formal inauguration" of the Sangley Airport will be on Feb. 15, with President Rodrigo R. Duterte in attendance.

Mr. Duterte ordered last year the immediate use of the facility for general aviation to reserve Ninoy Aquino International Airport (NAIA) for larger commercial aircraft.

According to the Civil Aviation Authority of the Philippines, an average of 3,000 general aviation flights depart NAIA every month. The DoTr has been developing Sangley to accommodate such flights.

General aviation includes charter, corporate, military and pilot training flights

Turn to page 2

DIYARYO KABITENYO

ISSN: 2651-821X

ARNULFO BARCO
Publisher - Editor

GENER BARCO
Operations Manager

DIYARYO KABITENYO is published weekly and circulated throughout the province of Cavite. It has its editorial and business offices at Block 13 Lot 1 Liwayway Homes Subdivision, Anabu I-C, City of Imus, Cavite. It is registered at the Department of Trade and Industry Region 4. Our cellphone number is [illegible]

Subscription Rate
1 month - P 40.00
3 months - 120.00
6 months - 240.00

Advertising Rate
Commercial - P200.00/col. cm
Legal - 180.00/col. cm

papi

Publishers Association of the Philippines, Inc.

Research identifies changes in neural circuits underlying self-control during adolescence

The human brain is organized into circuits that develop from childhood through adulthood to support executive function — critical behaviors like self-control, decision making, and complex thought. These circuits are anchored by white matter pathways which coordinate the brain activity necessary for cognition. However, little research exists to explain how white matter matures to support activity that allows for improved executive function during adolescence — a period of rapid brain development.

Researchers from the Lifespan Brain Institute of the Perelman School of Medicine at the University of Pennsylvania and Children's Hospital of Philadelphia applied tools from network science to identify how anatomical connections in the brain develop to support neural activity underlying these key areas. The findings were published in the Proceedings of the National Academy of Sciences.

"By charting brain development across childhood and adolescence, we can better understand how the brain supports executive function and self-control in both healthy kids and those with different mental health experiences," said the study's senior author Theodore Satterthwaite, MD, an assistant professor of Psychiatry at Penn. "Since abnormalities in developing brain connectivity and deficits in executive function are often linked to the emergence of mental illness during youth, our findings may help identify biomarkers of brain development that predict cognitive and clinical outcomes later in life."

In this study, the researchers mapped structure-function coupling — the degree to which a brain region's pattern of anatomical connections supports synchronized neural activity. This could be thought of like a highway, where the anatomical connections are the road and the functional connections are the traffic flowing along those roads. Researchers mapped and analyzed multi-modal neuroimaging data from 727 participants ages 8 to 23 years, and three major findings emerged.

First, the team found that regional variability in structure-function coupling was inversely related to the complexity of the function a given brain area is responsible for. Higher structure-function coupling was found in parts of the brain that are specialized for processing simple sensory information, like the visual system.

Study finds dopamine, biological clock link to snacking, overeating and obesity

During the years 1976 through 1980, 15% of U.S. adults were obese. Today, about 40% of adults are obese. Another 33% are overweight.

Coinciding with this increase in weight are ever-rising rates of heart disease, diabetes, cancer and health complications caused by obesity, such as hypertension. Even Alzheimer's disease may be partly attributable to obesity and physical inactivity.

"The diet in the U.S. and other nations has changed dramatically in the last 50 years or so, with highly processed foods readily and cheaply available at any time of the day or night," Ali Güler, a professor of biology at the University of Virginia, said. "Many of these foods are high in sugars, carbohydrates and calories, which makes for an unhealthy diet when consumed regularly over many years."

In a study published January 2, 2020 in the journal Current Biology, Güler and his colleagues demonstrate that the pleasure center of the brain that produces the chemical dopamine, and the brain's separate biological clock that regulates daily physiological rhythms, are linked, and that high-calorie foods — which bring pleasure — disrupt normal feeding schedules, resulting in overconsumption.

(SANGLEY... from page 1)

ly using fighter aircraft.

The field at Sangley operated as Danilo Atienza Air Base. Its location on Sangley Point, a peninsula which has been a naval facility since Spanish times, means it is surrounded by navigable waters which will require extensive reclamation if it is to be expanded, making it expensive to redevelop as a bigger hub.

Department of Transportation (DoTr) officials said in October that the new airport will have "turbo-prop as the maximum aircraft that will operate in Sangley."

The airport's runway will serve as the "third runway" of Ninoy Aquino International Airport with a maximum capacity of 20 movements per hour, referring to both landings and take-offs, the DoTr said.

Republic of the Philippines
Fourth Judicial Region
REGIONAL TRIAL COURT
BRANCH 90
City of Dasmariñas, Cavite

IN THE MATTER OF CANCELLATION OF ANNOTATION OF LEGITIMATION AND THE REGISTERED AFFIDAVIT OF LEGITIMATION IN THE CERTIFICATE OF LIVE BIRTH OF KIMBERLY JOANNE DENOSTA,

SP. PROC. NO. DC-[illegible]-18

KIMBERLY JOANNE DENOSTA,
Petitioner.

x---x

ORDER

This verified petition for cancellation of the annotation of affidavit of legitimation [illegible] and the registered affidavit of legitimation in the Certificate of Live Birth of Kimberly Joanne Denosta was filed on July 2, 2018, by the above-named petitioner, through counsel, praying that, after due notice, publication and hearing, judgment be rendered directing the City Civil Registrar of Dasmariñas City, Cavite to cancel the annotation of legitimation and the registered affidavit of legitimation under Registry No. [illegible] inscribed at the Certificate of Live Birth of petitioner with Local Civil Registry No. 92-1512.

Finding the instant petition to be sufficient in form and substance, this Court hereby sets the hearing thereof at the Regional Trial Court, Branch 90, Dasmariñas Community Affairs (DASCA) Building, Congressional Road, Brgy. Burol I, Dasmariñas City, Cavite, on **January 23, 2020, at 2:00 o'clock in the afternoon**, whereby any interested persons may appear and show cause, if any, why the petition should not be granted.

Let this Order be published, at the expense of the petitioner in a newspaper of general circulation, which will be raffled by the Regional Trial Court, Branch 90, City of Dasmariñas, Cavite, among the duly accredited newspapers in the Province of Cavite, before the scheduled date of hearing, at least once a week for three (3) consecutive weeks.

The Notice of Appearance of the Office of the Solicitor General for herein case is NOTED.

Let the Office of the Solicitor General and the Local Civil Registrar of Dasmariñas City, Cavite be furnished with copies of this Order.

Notify all parties concerned.

SO ORDERED.

City of Dasmariñas, Cavite, November 20, 2019.

(Sgd.) **JOSELYN D. LARA-DE LUNA**
Assisting Judge

Cc:

Kimberly Joanne Denosta
Block 3, Lot 22, Mango Village
Salitran IV, Dasmariñas City, Cavite

Atty. Gerald C. Sergio
Counsel for the Petitioner
3rd Floor, Old Mill Bldg.
Gen.P. Campos Ave., Zone III
City of Dasmariñas, Cavite

Office of the Solicitor General
134 Amorsolo St., Legaspi Village, Makati City

The City Civil Registrar of Dasmariñas
City of Dasmariñas, Cavite

Civil Registrar General/Administrator
Philippine Statistics Authority

Publication : DIYARYO KABITENYO
Dates : December 30, 2019, January 6 & 13, 2020

DEED OF EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE LATE APOLINAR NAQUILA WITH SPECIAL POWER OF ATTORNEY

NOTICE is hereby given that the estate of the late **APOLINAR NAQUILA** who died intestate on December 28, 1988, consisting of the following property acquired from Pablo Bulala on July 7, 1977:

"A portion of a parcel of land containing 20 rice paddies duly designated which form part of that parcel of land described and bounded as follows:

"Situated at San Miguel, Dagohoy, Bohol, under Tax Dec. No. D-[illegible], bounded on the North, by [illegible] [illegible]; East, by Arroyo and Antonio Bulala; South, by Sergia Delangbaca and West, by Felix Obarvit."

now covered by Original Certificate of Title No. 42402, Free Patent No. (VII-2) 020492 issued on May 4, 1981 registered in the name of Pablo Bulala

has been adjudicated and extrajudicially settled by and among his heirs equally; the parties likewise agreed to name, appoint and constitute their mother MARIA BERNARDITA N. ELICOT, as their attorney in fact to do and perform the following acts and things:

1. To facilitate the processing of the annotation of the Adverse Claim at the back of OCT No. 42402, Free Patent No. (VII-2) 020492 with the Register of Deeds for the Province of Bohol.

2. To pay the required fees and taxes with the proper government entities, receive and safe keep the receipts and other documents issued in accordance therewith.

3. To execute and sign documents relative of the foregoing and to render an accounting of the amount received by her and the expenses incurred.

on November 12, 2019 at Imus City, Cavite before Notary Public Atty. Joel G. Gordola and entered in his Notarial Register as Doc. No. 121; Page No. 25; Book No. 703-B; Series of 2019.

(Sgd.) **Heirs**

Publication : DIYARYO KABITENYO
Dates : December 30, 2019, January 6 & 13, 2020

Republic of the Philippines
Local Civil Registry Office
Province: Cavite
City/Municipality: Rosario

NOTICE FOR PUBLICATION

In compliance with Section 5 of Republic Act No. 9048, a notice is hereby served to the public that **MENANDRO B. VIVO** has filed with this Office a petition for change of first name from **JOSE MENANDRO** to **MENANDRO** in the birth certificate of **JOSE MENANDRO BENERAW VIVO** who was born on **20 MAY 1969** at **ROSARIO, CAVITE** and whose parents are **OSCAR O. VIVO** and **JULITA B. BENERAW**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **28 JANUARY 2020**.

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

DIYARYO KABITENYO : January 6 & 13, 2020

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

PHILIPPINE SAVINGS BANK,
Mortgagee,

- versus -

Extra-Judicial Foreclosure of Real Estate Mortgage Under Act No. 3135, as Amended, Republic Act No. 4118

SPS. JEFFERSON BAUTISTA NITURAL AND NIEVA HABLADO NITURAL,
Mortgagors.

FC NO. 16977-19

x---x

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial petition for sale under Act 3135 as amended by Act 4118 filed by **PHILIPPINES SAVINGS BANK**, with office address at PSBank Center, 777 Paseo de Roxas cor. Sedeño St., Makati City against **SPS. JEFFERSON BAUTISTA NITURAL AND NIEVA HABLADO NITURAL**, with residence addresses at Lot 17 Road Lot 41, Vallejo Place Ph 4, Pasong Buaya, Imus, Cavite/Blk. 4 Lot 17, St. Agustin St., [illegible] Tropical Homes II, Molino VI, Bacoor, Cavite to satisfy the mortgage indebtedness which as of November 11, 2019 amounts to **ONE MILLION FIVE THOUSAND SEVEN HUNDRED SEVENTY PESOS & 91/100 (Php1,005,770.91)** Philippine Currency, including interest and penalty charges, attorney's fees, sheriff's fees and all other charges incidental to this foreclosure and sale, the undersigned Sheriff IV will sell at Public Auction on **February 11, 2020 at 10:00 a.m.** or soon thereafter at the main entrance of the Office of the Clerk of Court, RTC Multiple Sala, Bulwagan ng Katarungan, Aguinaldo 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. 057-2018052928

A PARCEL OF LAND (LOT 17 OF THE CONSOLIDATION-SUBDIVISION PLAN (PCS-04-025811), BEING A PORTION OF THE CONSOLIDATION OF LOTS 1 TO 21, BLOCK 17, PCS-04-025811, LRC REC. NO. [illegible]), SITUATED IN THE BARANGAY OF PASONG BUAYA II, MUNICIPALITY OF IMUS, PROVINCE OF CAVITE, ISLAND OF LUZON. BOUNDED ON THE SE ALONG LINE 1-2 BY LOT 18 OF THE CONS. SUBD. PLAN; ON THE SW ALONG LINE 2-3 BY ROAD LOT 41 (8.00 M. WIDE), PCS-04-025811; ON THE NW ALONG LINE 3-4 BY LOT 15; ON THE NE ALONG LINE 4-1 BY LOT 16 BOTH OF THE CONS.-SUBD. PLAN. BEGINNING AT A POINT MARKED "1" x x x CONTAINING AN AREA OF **FIFTY FIVE (55) 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 **February 18, 2020 at 10:00 a.m.** without prior notice.

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

Imus, Cavite, Philippines, November 11, 2019.

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

Approved:

(Sgd.) **REGALADO E. EUSEBIO**
Clerk of Court VI
and Ex-Officio Sheriff

Copy Furnished:
PHILIPPINES SAVINGS BANK
PSBank Center, 777 Paseo de Roxas cor. Sedeño St., Makati City

SPS. JEFFERSON BAUTISTA NITURAL AND NIEVA HABLADO NITURAL
Lot 17, Road Lot 41, Vallejo Place Ph 4, Pasong Buaya, Imus, Cavite
Blk. 4 Lot 17, St. Agustin St., Tropical Homes II, Molino VI, Bacoor, Cavite

Publication : DIYARYO KABITENYO
Dates : January 13, 20 & 27, 2020

Republic of the Philippines
Province of Cavite
Municipality of Maragondon
-oOo-
Office of the Municipal Civil Registrar

NOTICE TO THE PUBLIC

CCE - 001 - 2019
CEN - 014 - 2019

Date: November 29, 2019

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 **CORRECTION OF GENDER** from **"FEMALE"** to **"MALE"** and **CHANGE OF FIRST NAME** from **"ADRIANA"** to **"ADRIANO"** in the certificate of live birth of **ADRIANO SISIT BELLO** who was born on **March 5, 1956** in **Maragondon, Cavite** and whose parents are CRESENCIANO BELLO and MARTA SISIT.

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

(Sgd.) **LEONORA V. LOYOLA**
Municipal Civil Registrar

DIYARYO KABITENYO - January 13 & 20, 2020

Republic of the Philippines
Province of Cavite
Municipality of Maragondon
-oOo-
Office of the Municipal Civil Registrar

NOTICE TO THE PUBLIC

CEN- 015 - 2019

Date: December 23, 2019

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 **"MARLENE"** to **"MARITES"**, in the certificate of live birth of **"MARLENE ANGLO EVANGELISTA** who was born on **March 28, 1972** in **Maragondon, Cavite** and whose parents are VICTORINO BALLUC III EVANGELISTA and SOCORRO ANGLO ANGLO.

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

(Sgd.) **LEONORA V. LOYOLA**
Municipal Civil Registrar

DIYARYO KABITENYO - January 13 & 20, 2020

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

NOTICE TO THE PUBLIC

10 January 2020

CEN-0001-2020
CCE-0004-2020 RA 10172

In compliance with the publication requirement and pursuant to DCRG 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 **ROCKY C. VELASCO** has filed with this Office, a petition for **CHANGE OF FIRST NAME** from **"MA. LUZVIMINDA"** to **"LUZVIMINDA"** and **CORRECTION OF CLERICAL ERROR** in **CHILD'S DATE OF BIRTH** from **"October 12, 1958"** to **"May 01, 1958"** in the Certificate of Live Birth of Ma. Luzviminda D. Aulina, who was born on October 12, 1958 at Tanza, Cavite and whose parents were Apolinario Aulina & Remedios Dones.

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

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

DIYARYO KABITENYO - January 13 & 20, 2020

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

NOTICE OF PUBLICATION

In compliance with Sec. 3 of R.A. 9048, a notice is hereby served to the public that (Petitioner) has filed with this Office a petition for Change of First Name from **ROLANDO** to **ROMEO** in the birth certificate of **ROLANDO VIRAY SANTIAGO**, born on **MAY 21, 1957** in **NAIC, CAVITE**, child of spouses **RODOLFO TRINIDAD SANTIAGO** and **MAXIMA BINABON VIRAY**.

Any person adversely affected by said petition, may file his written opposition to this Office not later than **January 27, 2020**.

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

DIYARYO KABITENYO - January 13 & 20, 2020

Republic of the Philippines
Province of Cavite
Municipality of Ternate
OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

RA Form NO. 11 (LCROs

NOTICE FOR PUBLICATION

In Compliance with Section 3 of RA 9048, a notice is hereby served to the public that **ELIZABETH RILLO ANIT - DIRDY** has filed in this office a petition for Change Of First Name from **"ISABELITA"** to **"ELIZABETH"** in the Certificate of Live Birth of **ISABELITA RILLO ANIT**, who was born on **November 05, 1963** in **Ternate, Cavite** and whose parents are **ABE ANGEL BAUTISTA ANIT** and **MARINA RAMOS RILLO**.

Any person adversely affected by said petition may file his written opposition with this office not later than **23 January 2020**.

(Sgd.) **MARIETA B. LOZANO**
Municipal Civil Registrar

DIYARYO KABITENYO - January 13 & 20, 2020

Pathways that extend lifespan by 500% identified

Scientists at the MDI Biological Laboratory, in collaboration with scientists from the Buck Institute for Research on Aging in Novato, Calif., and Nanjing University in China, have identified synergistic cellular pathways for longevity that amplify lifespan fivefold in C. elegans, a nematode worm used as a model in aging research.

The increase in lifespan would be the equivalent of a human living for 400 or 500 years, according to one of the scientists.

The research draws on the discovery of two major pathways governing aging in C. elegans, which is a popular model in aging research because it shares many of its genes with humans and because its short lifespan of only three to four weeks allows scientists to quickly assess the effects of genetic and environmental interventions to extend healthy lifespan.

Because these pathways are "conserved," meaning that they have been passed down to humans through evolution, they have been the subject of intensive research. A number of drugs that extend healthy lifespan by altering these pathways are now under development. The discovery of the synergistic effect opens the door to even more effective anti-aging therapies.

The new research uses a double mutant in which the insulin signaling (IIS) and TOR pathways have been genetically altered. Because alteration of the IIS pathways yields a 100 percent increase in lifespan and alteration of the TOR pathway yields a 30 percent increase, the double mutant would be expected to live 130 percent longer. But instead, its lifespan was amplified by 500 percent.

EXTRAJUDICIAL SETTLEMENT OF THE ESTATE OF MANUEL VELAZCO MEDINA

NOTICE is hereby given that the estate of the late **MANUEL VELAZCO MEDINA** who died intestate on January 5, 2019 in Mandaluyong City, consisting of the following properties:

1. 1/3 share ([illegible] sq. m.) in a lot measuring 1,[illegible] sq. m. located in Sabutan, Silang, Cavite covered by TCT No. T-[illegible]

2. 1/3 share ([illegible] sq. m.) in a lot measuring [illegible] sq. m. located in Sabutan, Silang, Cavite covered by TCT No. T-[illegible]

3. 1/3 share (137.[illegible] sq. m.) in a lot measuring 412.[illegible] sq. m. located in Tagaytay City covered by TCT No. T-[illegible]

4. 1/3 share (78 sq. m.) in a lot measuring 234 sq. m. located in [illegible], Silang, Cavite and covered by TCT No. 076-2017007912

5. 1/3 share ([illegible] sq. m.) on a parcel of land measuring 2,400 sq. m. located in [illegible], Silang, Cavite covered by TD No. 18-0022-00109

6. 1/2 share ([illegible] sq. m.) on a lot measuring 279 sq. m. located in Sabutan, Silang, Cavite, covered by TCT No. T-[illegible]

7. A lot measuring 268 sq. m. located in Sabutan, Silang, Cavite, covered by TCT No. T-[illegible]

8. A residential house located in Poblacion 1, Silang Cavite, measuring [illegible] sq. m. and covered by TD No. 18 0001 [illegible]

9. A one-storey structure measuring 23 sq. m. located in Poblacion 1, Silang, Cavite covered by TD No. 18 0001 [illegible]

10. ALFM Money Market Fund, Inc. (BPI Investment Management, Inc.) in the amount of P735,830.72 as of November 4, 2019

11. Toyota Camry more particularly described under COR No. [illegible] with plate No. [illegible] appraised at P300,000.00

12. Toyota Fortuner more particularly described under COR No. [illegible] with plate No. [illegible] appraised at P[illegible]

has been adjudicated and extrajudicially settled by and between his heirs unto themselves the following properties in equal shares, per [illegible]:

TCT No. T-[illegible] (No. 1 above)
TCT No. T-[illegible] (No. 2 above)
TCT No. T-[illegible] (No. 3 above)
TCT No. 076-2017007912 (No. 4 above)
TD No. 18-0022-00109 (No. 5 above)
TCT No. T-[illegible] (No. 7 above)
ALFM Money Market Fund (No. 10 above)
Toyota Camry (No. 11 above)

That ROLAND V. MEDINA, waives and renounces his share, rights and participation in the following properties:

Residential house - TD 18 0001 [illegible] (No. 8 above)
1-storey structure - TD No. 18 0001 [illegible] (No. 9 above)
Toyota Fortuner (No. 12 above)

That XAVIER VELAZCO MEDINA waives and renounces his share, rights and participation in TCT No. T-[illegible] (No. 6 above)

on December 21, 2019 at Silang, Cavite before Notary Public Atty. Grace M. [illegible] and entered in her Notarial Register as Doc. No. 418, Page No. 85; Book No. 1, Series of 2019.

(Sgd.) **ROLAND VELAZCO MEDINA**
for himself and as Attorney-in-Fact of **XAVIER VELAZCO MEDINA**

Publication : DIYARYO KABITENYO
Dates : January 13, 20 & 27, 2020

ERRATUM

As per Notice of Extra-Judicial Foreclosure of Real Estate Mortgage filed by **HOME DEVELOPMENT MUTUAL FUND (HDMF/Pag-IBIG)** in **FC-DC-[illegible]-16** published in the three (3) consecutive issues of **DIYARYO KABITENYO** dated May 9-15, 2016; May 16-22, 2016 and May 23-29, 2016, the name of the Debtor/Mortgagor should have read: **AIDA A. MOKAMAD, for herself and as Atty-in-Fact of her husband, ADAPEN MOKAMAD.** – *The Editor*

How US sewage plants can remove medicines from wastewater

A study of seven wastewater treatment plants in the Eastern United States reveals a mixed record when it comes to removing medicines such as antibiotics and antidepressants.

The research points to two treatment methods – granular activated carbon and ozonation – as being particularly promising. Each technique reduced the concentration of a number of pharmaceuticals, including certain antidepressants and antibiotics, in water by more than 95%, the scientists' analysis found.

Activated sludge, a common treatment process that uses microorganisms to break down organic contaminants, serves an important purpose in wastewater treatment but was much less effective at destroying persistent drugs such as antidepressants and antibiotics.

"The take-home message here is that we could actually remove most of the pharmaceuticals we studied.

That's the good news. If you really want clean water, there are multiple ways to do it," says Diana Aga, PhD, Henry M. Woodburn Professor of Chemistry in the University at Buffalo College of Arts and Sciences.

"However, for plants that rely on activated sludge only, more advanced treatment like granular activated carbon and/or ozonation may be needed," Aga adds. "Some cities are already doing this, but it can be expensive."

The findings are important because any drugs discharged from treatment plants can enter the environment.

Persistence of gut microbial strains in twins, living apart after cohabitating for decades

Your fingerprints stay the same all your life. But what about the "fingerprint" of microbial strains that are shared in the guts of childhood twins?

Using a genomics strain-tracking bioinformatics tool developed at the University of Alabama at Birmingham, researchers investigated whether those shared bacterial strains remain stable and resilient to changes in diet or environment after adult twins – who had lived together for decades – began to live apart.

The UAB study, published in the journal PLOS ONE, analyzed two metagenomic sequencing databases from pairs of twins — one for children who were still living together and the other from adult twins, ages 36 to 80, who then lived apart for periods from one to 50 years.

"Adult twins, ages 36 to 80 years old, showed that a certain strain or strains between a pair of twins was shared post-separation," said Casey Morrow, Ph.D., professor emeritus in UAB's Department of Cell, Developmental and Integrative Biology. "While we do not know the origin of these shared microbes in the twins, these results suggest the possibility of strains shared between non-cohabitating twins for decades. As a corollary to these studies, our studies establish a timeline for stability of microbial strains in the human gut."

The study used a strain-tracking bioinformatics tool previously developed by UAB, called WineSNP-based. Similarity Single-nucleotide variant, or WSS. Hyunmin Koo, Ph.D., UAB Department of Genetics and Genomics Core, led the informatics analysis. The research generated about six terabytes of data, which was analyzed with the help of the Cheaha UABgrid supercomputer and the UAB Information Technology's Research Computing group.

Morrow and colleagues have used this microbe fingerprint tool in several previous strain-tracking studies. In 2017, they found that fecal donor microbes — used to treat patients with recurrent Clostridium difficile infections — remained in recipients for months or years after fecal transplants. In 2018, they showed that changes in the upper gastrointestinal tract through obesity surgery led to the emergence of new strains of microbes, and in 2019, they analyzed the stability of new strains in individuals after antibiotic treatments.

The current study used metagenomic sequencing databases from fecal samples of eight twin child individuals and 50 twin adult individuals.

The UAB researchers found significantly more shared strain pairs in child-aged twins who still lived together, as compared with adult twins after living apart for periods of time. Among the adult twins, those who had lived apart less than 10 years shared significantly more related strain pairs than twins living apart for longer periods, from 10 to 60 years.

Specifically, 80-year-old twins who had lived together for 79 years then were apart for 1 year showed the highest number of related strain pairs. The next highest numbers of related strain pairs were found in 56-year-old twins who had lived together for 51 years then apart for five years, in 73-year-old twins who lived together for 66 years and then apart for seven years, and in 36-year-old twins separated for 19 years.

Single shared strains were seen in three twin sets who had lived apart between 22 to 54 years, but these sporadic shared strains did not show a correlation with the length of living apart.

"While certain gut microbial strains can be stable in people, in some cases for decades, changes in the host environmental conditions over time can impact the stability landscape of the gut microbial community," Morrow said. "This might result in the appearance of new strains that could potentially impact the microbial interactions that are essential for function in human health."

New study reveals the origin of complex malaria infections

New technology employing single cell genome sequencing of the parasite that causes malaria has yielded some surprising results and helps pave the way for possible new intervention strategies for this deadly infectious disease, according to Texas Biomedical Research Institute Assistant Professor Ian Cheeseman, Ph.D. Dr. Cheeseman was Principal Investigator of a three-year study published in the January 2020 edition of Cell Host & Microbe, a high-impact peer-reviewed publication.

Malaria is caused by Plasmodium parasites spread to people by the bite of infected Anopheles mosquitoes.

"We don't know what is inside malaria infections," Dr. Cheeseman said. "We don't know how many different genetically distinct strains of parasites there are. We don't know how related they are to each other. We don't know how many mosquitoes they came from."

To help answer these questions, Dr. Cheeseman and his collaborators turned to single cell genome sequencing. Using this technology, individual malaria parasite cells are isolated and their genome amplified before being analyzed by a genome sequencer. Single cell sequencing allows researchers to capture the genetic mutations present in a single cell, and has been adopted by cancer researchers to understand how tumors evolve. This is the first time the technology was used to study malaria transmission.

Dr. Cheeseman and his international team studied single malaria-infected cells from malaria patients in Malawi, a country heavily burdened by this infectious disease. Malaria patients, who donated malaria-infected blood samples used in this study reside in Chikhwawa, a region with a large mosquito population. In this region, people may be bitten by a malaria-infected mosquito every 48 hours.

The single cell sequencing approach applied in this study provides a fresh picture of how often bites from an infected mosquito lead to a malaria infection. What researchers discovered went against conventional wisdom. Nearly all the infections they studied likely came from one mosquito bite.

"We found that complex malaria infections are predominantly caused by a single mosquito bite transmitting many genetically diverse but related parasites into the blood stream of a patient," Dr. Standwell Nkhoma, lead author on the study and a Malawian national, stated.

Knowing this enables scientists to design more effective interventions to block mosquitoes from spreading malaria and build more sophisticated models to predict the spread of antimalarial drug resistance and malaria transmission patterns. The rise of antimalarial drug resistance is a major threat to malaria control globally as resistance to the antimalarial drugs artemisinin and piperaquine continues to spread.

Hundreds of novel viruses discovered in insects

New viruses which cause diseases often come from animals. Well-known examples of this are the Zika virus transmitted by mosquitoes, bird flu viruses, as well as the MERS virus which is associated with camels. In order to identify new viral diseases quickly and prevent possible epidemics, DZIF scientists at Charité – Universitätsmedizin Berlin are targeting their search at viruses in animals. In a current study, they have now discovered hundreds of novel viruses in insects. The results have been published in PLOS Pathogens.

"Every new virus we find could be a cause of illnesses that was previously unknown, both in humans and in livestock," explains Prof. Dr. Christian Drosten, Director of the Institute of Virology on Campus Charité Mitte. The scientist is a specialist for virus diagnostics and a member of the German Center for Infection Research (DZIF). For example, his team has defined the international standard approach for diagnosing MERS. He is currently focusing on rare virus diagnostics using new sequencing techniques. "The more viruses we identify and add to our database, the easier it is for us to recognize the cause of new and unusual illnesses," says Prof. Drosten.

DIYARYO KABITENYO
Nagmamalasakit sa lalawigan
Vol. 22 No. 47 January 13-19, 2020 P 10.00

A molecular switch for stomach disease

Infectious diseases triggered by bacteria and other microbes are the most frequent cause of human mortality across the globe. Roughly half of the world's population carry the bacteria Helicobacter pylori (H. Pylori) in their stomach, known to be the most significant risk factor for ulcers, MALT lymphoma and adenocarcinoma in the stomach. The rapid spread of pathogens resistant to medication such as antibiotics is making it increasingly difficult to treat infections such as these using antimicrobial therapies. A research team from Friedrich-Alexander-Universitat Erlangen-Nürnberg (FAU) has now revealed a new mechanism which controls the causes of infection with H. Pylori, triggering the development of stomach diseases. It is hoped that these findings will lead in time to new therapies. The study was published in the journal Nature Communications.

A team of national and international scientists led by Prof. Dr. Steffen Backert from the Chair of Microbiology at FAU has investigated how the bacteria manipulate the host's immune system in order to ensure their long-term survival in the stomach. A chronic inflammation is the most common cause for stomach illnesses such as these. The researchers have identified a molecular switch which uses a previously unknown mechanism to regulate the inflammation reaction in the stomach. The interaction between H. Pylori and stomach cells activates a syringe-like pilus structure referred to as a type IV secretion system. A protein, CagL, is presented at the surface of this structure which allows the bacterial toxin known as CagA protein to be delivered into the stomach cells. The injected CagA then re-programmes the host cell so that stomach cancer can develop. It now appears that CagL also has another important function, however. The protein is recognised by the immune system via the receptor TLR5. Experiments on mouse models have demonstrated that TLR5 controls the infection efficiently.

Findings on education, malnutrition 'deeply disturbing'

Despite progress toward global education targets, a new study reveals that 1 in 10 women ages 20-24 in low- and middle-income countries had zero years of schooling in 2017, and 1 in 6 had not completed primary school.

For the first time, researchers have mapped years of education and child malnutrition across all low- and middle-income countries at the level of individual districts. The findings include precision maps illuminating disparities within countries and regions often obscured by national-level analyses.

Nations with districts where high proportions of women had zero years of education in 2017 included Afghanistan, Niger, and the Gambia.

The research showed that gender inequality in education persists in many regions, with men achieving more years of education than women overall. A gap of more than three years between men and women was observed in nearly 140 districts in Yemen, Sudan, South Sudan, Nigeria, Kenya, the Democratic Republic of the Congo, Angola, and Afghanistan.