

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

Developer delivers prime property investment in thriving Cavite

Cavite has evolved from being a bedroom community into an economic hub.

This province located south of Metro Manila has maintained itself as a preferred home for workers in the capital. On top of that, it has also industrialized, generating ways for residents to earn a living without having to move out. Accessible, livable and more progressive and competitive, Cavite has welcomed an era that might eclipse any other in the Philippines.

Property builder of the Lucio Land Inc., among the first developers to re-

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Noveleta's Long Beach Resort reopens

The old Long Beach, or Duan Chua, led the resort in Barangay San Rafael IV in Noveleta, Cavite, was reopened on Valentine's Day with new attractions.

Noveleta Mayor...

the pool and inflatable grounds - in... both local and foreign tourists to use... beach is preparation for summer season," Chua...

...and...

The beach is open... in the public line, but Chua reminded visitors to "please observe of your beach property, so that our beach will maintain its clean...

...and...

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DIYARYO KABITENYO

100% PAPER DAILY

ARSENULO BARCO

Publisher - Editor

GENERAL BARCO

Operations Manager

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Papi

Publishers Association of the Philippines, Inc.

Changing what heart cells eat could help them regenerate

Switching what the powerhouses of heart cells consume for energy could help the heart regenerate when cells die, a new study led by UT Southwestern researchers suggests. The finding, published in the Feb. 20, 2020, *Nature Metabolism*, could open whole new avenues for treating a variety of conditions in which heart muscle becomes damaged, including heart failure

caused by viruses, toxins, high blood pressure, or heart attacks. Current pharmaceutical treatments for heart failure — including ACE inhibitors and beta blockers — center on trying to stop a vicious cycle of heart muscle loss as strain further damages remaining heart muscle, causing more cells to die, explains UT Southwestern physician-researcher Hoban A.

Sadek, M.D., Ph.D., the Fred Schoellkopf, Jr. Chair in Cardiology. There are no existing treatments for rebuilding heart muscle. Nine years ago, Sadek and his colleagues discovered that mammalian hearts can regenerate if they're damaged in the first few days of life, spurred by the division of cardiomyocytes, the cells responsible for a heart's contractile force. How-

ever, this capacity is completely lost by 7 days old, an abrupt turning point in which division of these cells dramatically slows. Subsequent research has shown that this change in regenerative capacity appears to stem, at least in part, from damaging free radicals generated by organelles known as mitochondria which power cells. These free

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(DEVELOPER... from page 1)

potential of Cavite with various developments, stills and more that are an opening story in the Cavite stretch. Capitalizing on a market that possesses an elevated taste in homes. A revolutionary proposal addressing the needs, expectations and capabilities of a more diverse Cavite population is Aquatica Resort and Residences, a first-of-its-kind, full-service, complete development built around a water park. Aquatica is an address within the 400-hectare Saddle & Chair Leisure Park in Santa Cruz. Up the

grabs at the project are ends resort living. Given the location of the development, it offers residents a permanent invitation to watch the city as they wind down or to have fun as they take a dip in the pools. This area has the potential pull of the property. A home at Aquatica puts an owner in a perpetual vacation and Six Lane Land Inc. president Emigdio Bobbia. "Buying a unit at Aquatica is like buying into a different kind of lifestyle, one that is truly ideal especially in today's hot-paced world."

(NOVELETA'S... from page 1)

The swimming pool has a minimal entry fee of P100 for whole day and mid-night, while the inflatable park has an entry fee of P200 for two hours' use. Banana Boat and Flying Fish rides will remain open, before summer season starts. Long Beach Resort has been a sanctuary for marine turtles during breeding season from October to January. Last Jan. 8 and 15, hundreds of marine turtle hatchlings were released into the sea by officials of the local government and the Municipal Environment and Natural Resources. It is the kind of project that you will be offering; how will you make your project stand out given that all the developers already have presence here," Bobbia added, confident that Aquatica is a definite stand-out among projects in Cavite.

As it is surrounded by nature and built with well-thought-out amenities, hours and restaurants can truly find magic and will surely have the time of their lives here," noted Bobbia. For those who are looking for a luxurious investment, the property can be rented out to workers looking for an elevated lifestyle or come home to. Units can likewise be a conducive venue for company outings and team-building activities. "It's the kind of investment that would allow you to earn at it

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Republic of the Philippines
Fourth Judicial Region
Regional Trial Court III Cebu
Office of the Clerk of Court III - E-Office Street
5000 Jambon Hall, J.P. Rizal Avenue, Lapu-Lapu South, Lapu-Lapu City

STERLING BANK OF ASIA, INC. (ASAWING BANK)
Mortgagee

ARVIN R. CRUZ
Borrower

NOTICE OF EXTRA-JUDICIAL SALE

That Extra-judicial foreclosure sale under Act 151, as amended by Act 476, filed by Mortgagee, **STERLING BANK OF ASIA, INC. (ASAWING BANK)** (hereinafter referred to as "mortgagee") and carrying under the name of the Mortgagee with business address at Third Floor, Sterling Bank of Asia Corporate Center 5000 Jambon Avenue, Lapu-Lapu South City 6000, against Mortgagee, **ARVIN R. CRUZ**, with postal address at 21 Pangasinan Road, Malabon City, to satisfy the mortgage indebtedness wherein on November 17, 2013 a mortgage of **TWO HUNDRED FORTY EIGHT THOUSAND TWO HUNDRED THIRTY EIGHT PESOS & 45/100 (P48,205,287.40)** exclusive of interest, penalties and other charges, the mortgagee Clerk of Court III - E-Office Street of the Regional Trial Court III Cebu has by depute, Sheriff Raul Salido, Jr., duly notified in public auction on April 16, 2019 a **TRUCK** in the morning or even forenoon in the New Hall of Justice of Lapu-Lapu City, in the higher order, in such a manner as hereinafter set forth in the following property which is represented therein, to wit:

CONDOMINIUM CERTIFICATE OF TITLE NO. 976-101001042
Municipality of Davao del Sur, Davao City

IT IS HEREBY CERTIFIED that the said parcel is owned by the following:

UNIT NO. 17-A - 45.24 SQUARE METERS

In the Department of Agrarian Reform, the said parcel is represented by the name of the said individual, parcel identified as **TRANSFEE CERTIFICATE OF TITLE NO. 247740** which contains and describes the land located at **45.24 SQUARE METERS** with area of **TWO HUNDRED THIRTY EIGHT SQUARE METERS (31.13 SQUARE METERS)** is registered in the name of:

ARVIN R. CRUZ, SINGLE, OF LEGAL AGE, FILIPINO
Address: 21 Pangasinan Road, Malabon City

Therefore, notice on notice are hereby required to investigate and verify the documents of the **CONDOMINIUM CERTIFICATE OF TITLE NO. 976-101001042**, for consideration thereof, to wit:

All annual fees must be submitted to the mortgagee on the date herein set forth and date.

In the event the notice herein should not take place on the said date, it shall be held on April 15, 2019 without further notice.

Lapu-Lapu City, January 30, 2020

OFFICE OF THE CLERK OF COURT III - E-OFFICE STREET
Clerk of Court III - E-Office Street
OFFICE OF THE CLERK OF COURT III - E-OFFICE STREET
Clerk of Court III - E-Office Street

Copy furnished:
STERLING BANK OF ASIA, INC. (ASAWING BANK)
Third Floor, Sterling Bank of Asia Corporate Center
5000 Jambon Avenue, Lapu-Lapu South City
6000

ARVIN R. CRUZ
21 Pangasinan Road, Malabon City

WARNING: IT IS SOLEMNLY PROHIBITED TO REMOVE, REFACE OR DESTROY THIS NOTICE OF FORECLOSURE SALE, ON OR BEFORE THE DATE OF THE AUCTION SALE UNDER THE PENALTY OF LAW.

Publication: 101189914-00219910
Date: February 17, 20 and March 7, 2020

Republic of the Philippines
Province of Cebu
Municipality of Alabon

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

Date: February 22, 2020

CC-008-2019 R.A. 10172

In Compliance with the publication requirement and pursuant to OCRD Memorandum Circular No. 2013-1 Guidelines on the Implementation of the Administrative Order No. 1 Series of 2012 (OCR on R.A. 10172), Notice is hereby given to the public that **ILUMINADAMARIN GONZALEZ** has filed with this office a petition for correction of Date of Birth from: "December 29, 1959" to "NOVEMBER 28, 1959" in the certificate of live birth of **Baronada Margie G. Jayanan, Alabon, Cebu** and whose parents are **Rosendo Margie and Edna Erilo**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 2, 2020**.

OFFICE OF THE CIVIL REGISTRAR
Civil Registrar

DIARYO KABITENYO - February 17 & 24, 2020

Republic of the Philippines
OFFICE OF THE CITY CIVIL REGISTRAR
City of General Trias, Cebu
(044) 599-3614

NOTICE OF PUBLICATION

In compliance with Section 9 of R.A. 1096, notice is hereby given to the public that **ROSANNA SOGARCO RIVERA** has filed with this Office a petition for Change of First Name from **ROSANNA SALIDO RIVERA** to the first name of **MARIA SALIDO NICOLAS RIVERA** who was born on 27 August 1976 a General Trias, Cebu and whose parents are **Francisco Alvaro and Rosalinda Salido**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **March 2, 2020**.

OFFICE OF THE CIVIL REGISTRAR
City Civil Registrar

DIARYO KABITENYO - February 17 & 24, 2020

dates. They used a robotic system specifically adapted for neurovascular procedures. Software and hardware adaptations enable it to accommodate microcatheters, guidewires and the other devices used for endovascular procedures in the brain. These modifications also provide the operator additional precise fine motor control compared to previous imaging modalities.

"This experience is the first step towards achieving our vision of remote intracranial procedures," said lead researcher **Walter Mendenhall, M.D., M.Sc.**, a neurosurgeon and neuro-radiologist at the Toronto Western Hospital and professor of medical imaging and surgery at the University of Toronto in Canada. "The ability to robotically perform intracranial aneurysm treatment is a major step forward in neuro-vascular intervention."

In the next case, a 64-year-old female patient presented with an

brain health. Robotic technology is used in surgery and cardiology, but not for neurovascular procedures. In this study, Canadian researchers report the results of the first robot-assisted brain vascular procedure.

February 11, 2020 at the

Surgeons successfully treat brain aneurysms using a robot

Using a robot to treat the improved precision according to live brain aneurysms is first when placing stents, according to live brain aneurysms presented February 11, 2020 at the

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Republic of the Philippines
OFFICE OF THE CITY CIVIL REGISTRAR
City of General Trias, Cavite
(046) 308-3014

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

Date: January 29, 2020

CCP-0025-2019 (RA No. 10172)

In compliance with the publication requirement and pursuant to OCGO Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (RR on R.A. 10172), Notice is hereby served to the public that **ANGELITA ERIMAN BUELO** has filed with this Office, a petition for correction of entry in her birth record from "MALE" to "FEMALE" in the Certificate of Live Birth of **ANGELICA ERIMAN BUELO** of General Trias, Cavite and whose parents are: **Martin C. Bae and Rosalia C. Erman**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **March 2, 2020**.

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

DIYARDO KABITENYO - February 17 & 24, 2020

Republic of the Philippines
OFFICE OF THE CITY CIVIL REGISTRAR
City of General Trias, Cavite
(046) 308-3014

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

Date: January 30, 2020

CCP-0025-2019 (RA No. 10172)

In compliance with the publication requirement and pursuant to OCGO Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (RR on R.A. 10172), Notice is hereby served to the public that **ALONSO HERIBAN DE VILLA** has filed with this Office, a petition for correction of entry in his birth record from "FEMALE" to "MALE" in the Certificate of Live Birth of **DON NICHOLAS DE VILLA VILLAR** of General Trias, Cavite and whose parents are: **Donato Casada and Alonzo J. De Villa**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **March 2, 2020**.

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

DIYARDO KABITENYO - February 17 & 24, 2020

(SURGEONS... from page 4)
unruptured aneurysm carefully used the retractor at the base of her skull. But to place a stent and The surgical team did, then, using the same

Republic of the Philippines
City Civil Registry Office
Province of Cavite
City of Imus

NOTICE OF PUBLICATION

In compliance with section 1 of R.A. 3048, a notice is hereby served to the public that **ELMER B. CAMACLANG** has filed with this Office a petition for change of first name from **ELIAZAR** to **ELMER** in the birth certificate of **ELIAZAR REYES CAMACLANG**, who was born on **March 11, 1961** in **Imus, Cavite** and whose parents are **BLEN VENTURAS CAMACLANG and APOLONIA REYES**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 1, 2020**.

(Sgd.) **VIOLETA P. SAÑEZ**
City Civil Registrar

DIYARDO KABITENYO - February 17 & 24, 2020

Republic of the Philippines
City Civil Registry Office
Province of Cavite
City of Imus

NOTICE OF PUBLICATION

In compliance with the publication requirement and pursuant to OCGO Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (RR on R.A. 10172), Notice is hereby served to the public that **LEA C. LEGASPI** filed with this Office, a petition for correction of entry in the date of birth from: **Nov. 2, 1988** to **December 2, 1988** in the Certificate of Live Birth of **LEA REYES CAMACLANG** of City of Imus, Cavite and whose parents are **BLEN VENTURAS CAMACLANG and APOLONIA REYES**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 2, 2020**.

(Sgd.) **VIOLETA P. SAÑEZ**
City Civil Registrar

DIYARDO KABITENYO - February 17 & 24, 2020

microcatheter, entered various devices such as the aneurysm sac and flow-diverting stents, secured the aneurysm. "The expectation by placing various coils is that future robotic All intracranial steps systems will be able to were performed with be controlled remotely. the robotic arm. Since For example, I could this first case, the team be at my hospital and has successfully per- deliver therapy to a pa- formed five additional first hundreds or even aneurysm treatments thousands of kilome- using the robot, which ters away," Mendes included deploying Perreira said. "The

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

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

MARIA CARMEN G. ALEGRE CPN-0001-2009

CARDENA A. BATILES
Jurisconsult

NOTICE OF PUBLICATION

There is a petition filed for the change of first name in Civil Registry Form No. 1 (ARCPA) of **MARIA CARMEN G. ALEGRE** from "MARIA CARMEN" to "CARMEN"

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

Let this NOTICE be published 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. 3048.

(Sgd.) **MERCELA CRAVEZ**
Municipal Civil Registrar

DIYARDO KABITENYO - February 17 & 24, 2020

Republic of the Philippines
Province of Cavite
Municipality of Marikina

OFFICE OF THE LOCAL CIVIL REGISTRAR

NOTICE TO THE PUBLIC

DATE: February 04, 2020
CCP-0004-2020 RA 10172

In compliance with the publication requirement and pursuant to OCGO Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (RR on RA 10172), Notice is hereby served to the public that **RAQUEL W. BUTTE** has filed with this Office, a petition for Correction of Civil Entry to Gender from **MALE** to **FEMALE** in the Certificate of Live Birth of **RAQUEL W. DE LA CRUZ** of Marikina, Cavite and whose parents are **ARMANDO G. DE LA CRUZ and YRETIACION M. GARCIA**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 2, 2020**.

(Sgd.) **REYNALDO E. BACOS**
Municipal Civil Registrar

DIYARDO KABITENYO - February 17 & 24, 2020

ability to deliver rapid growing patient out- care through remote comes and allow us to robotics for time-crit- deliver cutting-edge cal procedures such care to patients every- as stroke could have where, regardless of a huge impact on im- gregrepts"

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BAGUIO CITY, CAVITE

HOME DEVELOPMENT MUTUAL FUND
(otherwise known as Pag-IBIG Fund)
Petitioner/Mortgagee

Title No. TC-DC-820-18
**EXTRA JUDICIAL FORECLOSURE
OF REAL ESTATE MORTGAGE
UNDER ACT NO. 45 AMENDED
BY ACT 418**

Ms. MELBA P. MADRIN
Respondent/Mortgagee

NOTICE OF SHERIFF'S SALE

Upon extra-judicial petition for sale under Act 418, as amended by Act 418 filed by petitioner mortgagee **HOME DEVELOPMENT MUTUAL FUND** (otherwise known as Pag-IBIG Fund), a government financial institution duly organized and existing under the laws of Republic Act No. 9678, with main address at 177 Plaza SCLP Business Subdivision Center No. 499 Third Boulevard, Mandaluyong City against the respondent mortgagee, **Ms. MELBA P. MADRIN**, with postal address at Block 2, Lot 1 (Dashed Village, West Side), San Mateo, Quezon City, Province of Cavite under No. 77-C-18099-18, and for the satisfaction of the mortgaged debt which as of April 22, 2020 amounts to **EIGHT HUNDRED TWENTY THOUSAND SIX HUNDRED THIRTY THREE PESOS & 88/100 (P820,333.88)**, declared in all legal due and unpaid installment by the Respondent and who, the undersigned Sheriff will sell at public auction on **April 22, 2020 at 10:00 o'clock in the morning** in open Bidding in the Court Room of Branch 99, Regional Trial Court, Quezon City, Division Office, Quezon City, Philippines (Bldg. 22A/C Building, Congressional Road, District 1, Quezon City, Province of Cavite) to the highest bidder and for **CASH or CERTIFIED CHECK**, in Philippine Currency, the following described real property together with all the buildings and other improvements existing thereon, to-wit:

Transfer Certificate of Title No. 127942

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

A parcel of land Lot 1, Block 2 of the same subdivision, Pco-842136-898116, being a portion of the same, Lot 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 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Republic of the Philippines
OFFICE OF THE MUNICIPAL
CIVIL REGISTRAR
Iloilo, Cavite

Publication Number
R.A. 10177

NOTICE TO THE PUBLIC

CC-0815-2019

In compliance with the publication requirements and provisions of OCRG Memorandum Circular No. 2015-1 (Amendment to the Implementation of the Administrative Order No. 1 Series of 2011) and R.A. 10177, having a copy served to the public that **RENATO S. CURELLA** filed with the Office, a petition for **annulment of marriage** in the date of **April 29, 1965** to **September 10, 1965** in the Certificate of Marriage of **RENATO CURELLA** of Iloilo, Cavite and whose partner was **Victor Corbido** and **Agustina Raga**.

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

Off: **MERCIA CHAVEZ**
Municipal Civil Registrar

DIARYO KABITERYO | February 24 & March 1, 2020

AFFIDAVIT OF SELF-DECLARATION AS SOLID HEIR

NOTICE is hereby given that the estate of the late **MAGARIN MONTANO JENA** who died intestate on March 17, 2019 at San Pedro St., Barangay Poblacion III, Municipality of Tama, Province of Cavite, consisting of Five (5) Savings Accounts identified as follows:

BANK/BRANCH	SAVING ACCOUNT NUMBER	BALANCE
1. METROBANK, Tama, Cavite	4867449223853	P 208,571.20
2. BICR, Tama, Cavite	9815 84903 3	P 102,879.00
3. PNB, Tama, Cavite	24475810860	P 104,011.36
4. Bangko Malabon, Tama, Cavite	31-00001 7	P 138,991.89
5. Bangko Malabon, Tama, Cavite	31-00011 8	P 271,267.82

has been self-declared by her sole heir, **EMILIO J. BRAYTES**, on March 20, 2019 in Municipality of Tama, Province of Cavite, Philippines before Notary Public Atty. Basilio S. Puyos-Ara and entered in her Notarial Register at Doc. No. 81, Page No. 17, Book No. XXX, Series of 2019.

Publication: **DIARYO KABITERYO**
Date: February 24, March 1 & 9, 2020

Antibiotics discovered that kill bacteria in a new way

A new group of antibiotics with a unique approach to attacking bacteria has been discovered, making it a promising clinical candidate in the fight against antimicrobial resistance.

The newly-found compounds and the lower-toxicity, simpler molecules have a novel feature: they can kill bacteria, which is achieved by blocking the function of the bacterial cell wall. The discovery comes from a family of antibiotics called glycopeptides that are produced by soil bacteria.

The researchers also demonstrated in mice that these new antibiotics can block infections caused by the drug-resistant *Staphylococcus aureus* which is a group of bacteria that can cause many serious infections.

The findings were published in *Nature* on February 12, 2020.

"Bacteria have a wall around the outside of their cells that gives them shape and is a source of strength," said study first author Beth Cole, a PhD candidate in biochemistry and biomedical sciences at McMaster.

"Antibiotics like penicillin kill bacteria by preventing building of the wall, but the antibiotics that we found actually work by doing the opposite – they prevent the wall from being broken down. This is critical for cell to divide.

"To order for a cell to grow, it has to divide and expand. If you completely block the breakdown of the wall, it is like it is trapped in a prison, and can't expand or grow."

Looking at the family tree of known members of the glycopeptides, researchers studied the genes of these locking known resistance mechanisms, with the idea they might be an antibiotic demonstrating a different way to attack bacteria.

"We hypothesized that if the genes that made these antibiotic were different, maybe the way they killed the bacteria was also different," said Cole.

The group tinkered with *Vibrio* and *Escherichia coli* to see how the bacterial wall was the site of action.

EXTRAJUDICIAL SETTLEMENT OF ESTATE AMONG HEIRS

NOTICE is hereby given that the estate of the deceased spouse, **BENJAMIN S. SARTO** and **TERESA L. NATO** who both died intestate on October 03, 1968 at a hospital in Manila and on July 23, 1989 in another hospital in Marikina City, Cavite, respectively, consisting of two (2) unimproved real properties both situated in Iloilo City, Cavite, covered by Transfer Certificate of Title No. 11-1962 RP-1238, containing an area of Five Hundred Forty Square Meters (540) more or less and Transfer Certificate of Title No. 567756, containing an area of Twenty Two Thousand Five Hundred and Thirty one (22,531) more or less, respectively, has been adjudicated and extrajudicially settled by and among their heirs on October 3, 2019 at Malabon City before Notary Public Atty. Justino P. Lopez and entered in his Notarial Register at Doc. No. 442, Page No. 90, Book No. 245, Series of 2019.

Off: **Merly**

Publication: **DIARYO KABITERYO**
Date: February 24, March 1 & 9, 2020

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE LATE SALVADOR REYES SAMPINGO (WITH DEED OF SALE & DONATION)

NOTICE is hereby given that the estate of the late **SALVADOR REYES SAMPINGO** who died intestate on March 27, 2004 at Iloilo, Cavite, consisting of a parcel of land located in Iloilo, Cavite and covered by TCE No. 1-76174 of the Registry of Deeds of the Province of Cavite, covered by Tax Dec. No. 99-0024-0904, containing an area of ONE (01) HECTARE FIFTY NINE (159.80) METERS with improvements covered by Tax Dec. No. 99-0025-0902 has been adjudicated and extrajudicially settled by and among the heirs on the following manner:

- **LORD EDGAR F. SAMPINGO** assumed as Heir; then Edmar Segura as VENDOR, the heirs **NEEL, TRANQUIL, ANTONIO** their rights and interests over the said parcel and heirs of **EDGAR F. SAMPINGO** (deceased) to **Victor Espinoza**, as VENUEE, in the amount of ONE (01) HECTARE FIFTY NINE (159.80) METERS (TCE No. 1-76174)
- **EDGAR F. SAMPINGO** assumed as Heir; then Edmar Segura as VENDOR, the heirs **NEEL, TRANQUIL, ANTONIO** their rights and interests over the said parcel and heirs of **EDGAR F. SAMPINGO** (deceased) to **Victor Espinoza**, as VENUEE, in the amount of ONE (01) HECTARE FIFTY NINE (159.80) METERS (TCE No. 1-76174)
- **EDGAR F. SAMPINGO** assumed as Heir; then Edmar Segura as VENDOR, the heirs **NEEL, TRANQUIL, ANTONIO** their rights and interests over the said parcel and heirs of **EDGAR F. SAMPINGO** (deceased) to **Victor Espinoza**, as VENUEE, in the amount of ONE (01) HECTARE FIFTY NINE (159.80) METERS (TCE No. 1-76174)

Publication: **DIARYO KABITERYO**
Date: February 24, March 1 & 9, 2020

Origins of immune system mapped, opening doors for new cancer immunotherapies

A first cell atlas of the human thymus gland could lead to new immune therapies to treat cancer and autoimmune diseases. Researchers from the Wellcome Sanger Institute, Newcastle University and Ghent University, Belgium, mapped thymus tissue through the human lifespan to understand how it develops and makes vital immune cells called T cells. In the future, this information could help researchers to generate an artificial thymus and engineer improved therapeutic T cells.

Published in *PNAS*, the first author on the study from the Wellcome Sanger Institute said: "We have produced a first human thymus cell atlas to understand what is happening in the healthy thymus across our lifespan, from development to adulthood. While

opment such as severe combined immunodeficiency (SCID), and adds to the Human Cell Atlas initiative which is creating a Google map of the entire human body.

The thymus gland is located in the chest and produces T cells, key white blood cells that fight infection and disease. These T cells then leave the thymus to enter the blood and other parts of the body to mature further. T cells seek out and destroy invading bacteria and viruses, and also recognise cancer cells and kill them.

Problems in thymus development causes defective T cell generation. This can result in severe immune deficiencies, such as SCID, leaving people susceptible to infections. Alternatively, it can affect T cell regulation resulting in autoimmune diseases such as Type 1 diabetes. While

mature T cells have been well studied, the development of the human thymus and T cells within it is not fully understood.

Researchers used single cell technology to isolate and analyse around 200,000 individual cells from the developing thymus and child and adult thymus tissue. They looked at which genes were active in each individual cell to identify the cells, discovering new cell types, and used these genes as tags to map each cell to its exact location in the thymus.

Dr Joergan Park, the first author on the study from the Wellcome Sanger Institute, said: "We have produced a first human thymus cell atlas to understand what is happening in the healthy thymus across our lifespan, from development to adulthood.

and how it provides the ideal environment to support the formation of T cells. This openly available resource will allow researchers worldwide to understand how the immune system develops to protect our body."

Therapeutic T cells are currently being used in the clinic to treat B-cell lymphoma and leukemia cancers, however a major drawback to these treatments is creating the right subtype of T cells.

Professor Muzlifah Haniffa, a senior author of the study from Newcastle University and Senior Clinical Fellow at the Wellcome Sanger Institute, said: "With this thymus cell atlas, we are unravelling the cellular signals of the developing thymus, and revealing which genes need to be switched on to convert early immune precursor

cells into specific T cells. This is really exciting as in the future, this atlas could be used as a reference map to engineer T cells outside the body with exactly the right properties to attack and kill a specific cancer – creating tailored treatments for tumours."

Professor Tom Daghem, a senior author of the study from Ghent University, Belgium, said: "We now have a very detailed understanding of how T cells form in healthy tissue.

We have been able to identify a similar population of precursor cells in the developing thymus and liver, and we believe that these precursors are important for initiating T cell development in the fetus, and for the establishment of a fully competent thymus organ. This is helping us put significant pieces together to get a

bigger picture of how immunity develops."

The thymus is unusual in that it is largest and most active in childhood and shrinks after puberty. The thymus has been called the 'paradox of life' and by age 35 has almost disappeared. Understanding how the thymus develops and then withers could cast light on aging and how the immune system changes through life.

Dr Sarah Teichmann, a senior author from the Wellcome Sanger Institute and co-chair of the Human Cell Atlas Organising Committee, said: "The map of the thymus is an important part of the Human Cell Atlas mission to chart every cell type in the human body. It is helping us learn about developmental pathways within the body, and the age-associated decline of the immune system.

Drug cocktail holds promise for spinal injuries

The early-stage research in rats, by a group of scientists led by Imperial College London, revealed two existing medications can boost the body's own repair machinery, by triggering the release of stem cells from the bone marrow.

The scientists published their research in the journal *npj Regenerative Medicine*.

The team say the two drugs (currently used for bone marrow transplants and bladder control) could be used for different types of bone fractures, including to the spine, hip and leg, to aid healing after surgery or fractures.

When a person has a dislocation or an injury, the bone marrow (the spongy tissue within bones) mobilises different types of stem

cells to help repair and regenerate tissue. The new research, involving scientists from Beaumont Health in the U.S, suggests it may be possible to boost the body's ability to repair itself and speed repair, by using new drug combinations to put the bone marrow into a state of 'red alert' and send specific kinds of stem cells into action.

In the new study, funded by Wellcome, the researchers used drugs to trigger the bone marrow of healthy rats to release mesenchymal stem cells, a type of adult stem cell that can turn into bone, and help repair bone fractures.

Professor Sara Rankin, corresponding author of the study from the National Heart and Lung Institute at Imperial

College London, said: "The body repairs itself all the time. We know that when bones break they will heal, and this requires the activation of stem cells in the bone. However, when the damage is severe, there are limits to what the body can do on its own accord. We hope that by using these existing medications to mobilise stem cells, as we were able

to do in rats in our new study, we could potentially call up extra numbers of these stem cells, in order to boost our bodies own ability to mend itself and accelerate the repair process. Further down the line, our work could lead to new treatments to repair all types of bone fractures."

The two treatments used in the research were a CXCR4 antagonist, used for bone

marrow transplants, and a beta-3 adrenergic agonist, that is used for bladder control.

The rats were given a single treatment with the two drugs, which triggered enhanced healing of the bone injury, speeding bone formation and healing.

The researchers stress they did not analyse restoration of movement in the bone, or repair to additional tissue such as nerves.

One of the drugs used in the study was found to trigger fat cells in the bone marrow to release endocannabinoids, which suggest they may have a role in mobilising the stem cells and thereby promoting healing.

However, the researchers add that phyto-cannabinoids (such as cannabis) would not have the same effect, as they act on the brain rather than the bone marrow.

The researchers say the drug combinations now need to be tested in humans.

Dr Tariq Fellous, first author of the research from Imperial's National Heart and Lung Institute (NHLI) said: "We first need to see if these medications release the stem cells in healthy volunteers, before we can then test them in patients with fractures.

We have the drugs and know they are safe to use in humans – we just need the funding for the human trials."

Dr Anshu Redpath, co-first author from the NHLI, added that

repurposing existing medications that help the body heal itself – so called Regenerative Pharmacology – could have great potential as an efficient and cost-effective approach for a range of diseases. "Rather than devising new stem cell treatments from scratch that involve lengthy and expensive trials, our approach harnesses the power of the body's own stem cells, using existing drugs. We already know the treatments in our study are safe, it's now just a matter of exploring further if they help our bodies heal."

This work was funded by Wellcome, further support was provided by the National Heart and Lung Institute, Foundation and the Lumbar Spine Research Society.

Think all BPA-free products are safe? Not so fast, scientists warn

Using "BPA-free" bottles — and other plastic products could bring them "BPA-free," but are harmful to human health — including a developing brain — as these chemical alternatives, such as bisphenol A (BPA), still aren't safe for people to use.

In the study, Rosenfeld and her colleagues found an example in the Proceedings of the National Academy of Sciences.

For decades, scientists have studied BPA exposure in animal models with results indicating the chemical plays a role in early pregnancy loss, placental diseases and various negative health outcomes after birth. As these adverse health effects have become more widely known, consumers have turned to using alternative chemicals in developing products — namely water bottles and food con-

suming products, including their emotions and physical activities such as sleeping, eating and digesting food.

"The placenta responds to both natural chemicals as well as synthetic chemicals that the body misinterprets as natural chemicals, but the body doesn't have the ability to mitigate the detrimental effects of such industrial-made chemicals," Rosenfeld said. "More importantly, these chemicals have the ability to lower the placenta's serotonin production. Lower levels of serotonin can compromise fetal brain development in both mice and humans, because the placenta has a similar structure in both mice and humans."

Rosenfeld adds that the placenta serves as a primary source of serotonin for fetal brain development in both mice and humans, because the placenta has a similar structure in both mice and humans. "More importantly, these chemicals have the ability to lower the placenta's serotonin production. Lower levels of serotonin can compromise fetal brain development in both mice and humans, because the placenta has a similar structure in both mice and humans."

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Rosenfeld, a professor of biomedical sciences in the College of Veterinary Medicine, investigates in the Bond Life Sciences Center, and research faculty member for the Thompson Center for Autism and Neurobehavioral Disorders at MU. "That mouse model is the best model we have now to simulate the possible effects of BPA during human pregnancy, because the placenta has a similar structure in both mice and humans."

can lead to long-term health consequences." Rosenfeld's research is an example of an early step in translational medicine, or research that aims to improve human health by determining the relevance of animal science discoveries to people. This research can provide the foundation for precision medicine, or personalized human health care.

Precision medicine will be a key component of the NewGen Precision Health Initiative — the University of Missouri System's top priority — by helping to accelerate medical breakthroughs for both patients in Missouri and beyond.

The study, "Bisphenol A and bisphenol S disrupts of the serotonin placenta and prenatal effects on the placenta brain area," was pub-

lished in the journal Proceedings of the National Academy of Sciences. Co-corresponding authors include R. Michael Roberts at MU and Genia Tatesios at Iowa State University. Other authors include Dr. Mei-Suei Tsai, Barbara Hammer, Zhen-Yan Lei, Lloyd Hamm and Nathan Flores at MU, Ashish Jain at Iowa State University, and Nancy Demaree, Mohammad Zaman, Nasir, Hui Chen, Tingting Wang, Ning Zhu and Ju Koh at University of Florida.

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Reproductive genome from the laboratory

The field of synthetic biology does not only observe and describe processes of life but also attempt to create a mimicry of them. A key characteristic of life is the ability for replication, which means the maintenance of a chemical system. Scientists at the Max Planck Institute of Biochemistry in Munich generated a system, which is able to generate parts of its own DNA and protein building blocks.

In the field of synthetic biology, researchers investigate so-called "bottom-up" processes, which means the generation of life mimicking systems from inanimate building blocks. One of the most fundamental characteristics of all living organisms is the ability to conserve and re-

produce itself as distinct entities. However, the "bottom-up" approach to create a system, which is able to replicate itself, is a great experimental challenge. For the first time, scientists have succeeded in overcoming this hurdle and synthesizing such a system.

Hannes Mutschler, head of the research group "Synthetic Systems" at the Max Planck Institute for Biochemistry, and his team are dedicated to restore the replication of genomes and protein synthesis with a "bottom-up" approach. Both processes are fundamental for the self-preservation and production of biological systems. The researchers have succeeded in producing an in vitro

system, in which both processes could take place simultaneously. "Our system is able to regenerate a significant proportion of its molecular components itself," explains Mutschler.

In order to start this process, the researchers needed a construction manual as well as various molecular "machines" and nutrients. Translated into biological terms, this means the construction manual is DNA, which contains the information to produce proteins. Proteins are often referred to as "molecular machines" because they often act as catalysts, which accelerate biochemical reactions in organisms. The basic building blocks of DNA are the so-called nucleotides.

Research team tackles superbug infections with novel therapy

There may be a solution on the horizon to combating superbug infections resistant to antibiotics. The tenacious bacteria and fungi sicken more than 2.8 million people and lead to more than 35,000 deaths in the United States each year.

An international team of researchers has found that a combination of ingredients (acidified saize and ethylenediaminetetraacetic acid known as AR569

and developed by a University of Cincinnati scientist kills a bacteria (*Pseudomonas aeruginosa*), one of the most serious pathogens that exhibits multidrug resistance and virulence.

Their findings are available online in the journal of the Proceedings of the National Academy of Sciences.

"AR569 kills these pathogenic bacteria by targeting their DNA, RNA and protein biosynthesis as well as energy and iron metabolism at concentrations that do not harm human cells," explains Daniel Hassen, a professor in the UC Department of Molecular Genetics, Biochemistry and Microbiology. "These were tested in laboratory mice with humanized cells. Our data implicate that AR569 is a safe and effective means that could be applied to eradicate these superbugs."

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