

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

Proverbs 18:10

DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

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

1 Corinthians 16:13

Imus kicks-off drive versus road obstructions

IMUS CITY, Cavite—The merit of the local government in ridding off roads and sidewalks of obstructions would be put to a test as actions have already started in the turf.

Mayor Emmanuel Leonardo Malina has distributed last August 14 to barangay captains the copies of the memorandum from Department of the Interior and Local Government (DILG) directing the removal of obstructions on roads/sidewalks.

The distribution was made by Malina during the meeting with barangay officials at the City Hall's Multi Purpose Room which deliberated, among others, the

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Traveling Science Centrum now in Cavite

The Department of Science and Technology Provincial Science and Technology Center in Cavite in collaboration with the Philippine Foundation for Science and Technology, Office of 2nd District Representative Strike Revilla and the LGU of Bacoor City brought the Traveling Science Centrum

a hands on interactive science exhibit, closer to Caviteños.

Valuing the principle "Science for the people," DOST-Cavite headed by Provincial Director Raul Castañeda together with the local government and the Department of Education Division of Bacoor worked hand in

hand for the successful launch of the traveling exhibit of Science Adventures last August 8 at the Conference Center of Barangay Molino III in Bacoor City which will run until September 30, 2019.

The Punong Barangay of Molino III, Ms. Apolinia Adreana Jr. welcomed

guests, teachers and students during the opening program for the very first Science Centrum in the province, expressing thanks to DOST-Calabarzon and Congressman Strike Revilla for the support that made the set-up of Science Centrum in their barangay possible.

Meanwhile, prior to the viewing of exhibits, a Memorandum of Agreement was signed by DOST-Calabarzon Regional Director Alexander Madrigal, PB executive Apolinario Adreana, Philippine Foundation for Science and Technology Division Executive Director May

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DIYARYO KABITENYO

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ABDULJO BARCO

Publisher - Editor

GENERAL BARCO

Operations Manager

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Papi

Publishers: Association of the Philippines, Inc.

New target found for disease of the heart's smallest blood vessels

When we take a walk, for example, part of our healthy heart muscle may want a little more blood and oxygen, so our tiniest blood vessels send a message upstream to the larger vessels to send more.

Now, researchers at the Medical College of Georgia at Augusta University have found that a chemical in our bodies known to help

blood vessels dilate also sends that signal to the larger blood vessels that more blood is needed.

They've also found that in diastolic heart failure, a condition where the left ventricle, the major pumping chamber of the heart, can't relax enough to fill adequately, the natural inhibitor of that chemical goes up and communication with upstream

blood vessels goes down. And, when they bring the inhibitor down, it reduces the heart dysfunction, they report in the journal *Circulation*.

What we are talking about here even many cardiologists cannot see," Dr. Zaoli Bagi, vascular biologist in the MCG Department of Physiology, says of the microvasculature that pervades our heart

muscle, aligning one on one with each individual heart cell.

One of the problems is there is not much that can be done to treat this type of tiny blood vessel disease if it is found, says Bagi, the study's corresponding author.

But Bagi and MCG PhD student Alec Devilla think they have found more reason to look.

(BUSINESS... from page 1)

community development plans and programs.

The DILG earlier called on the local government units (LGUs) to comply with the memorandum's provisions.

Obstructions refer to roadside stalls and small edifices and other structures that blocked roads/sidewalks and the illegally parked vehicles such as cars, jeepsneys and tricycles.

Removing obstructions in the city is indeed a gargantuan task for mayors and barangay captains considering the stalls with "lutaw" (less) collected from vendors particularly in market and "talipapa" (lea market).

Another problem

is the vehicles owned by residents with no garage, cars of employees or any individuals who use road sides as parking areas and the tricycles, jeepsneys and buses that also use the areas as terminals.

City Engineer Christian Mervin Sarino said that a task force was created by the mayor that will oversee the implementation of the memorandum against road/sidewalk obstructions.

The overseers and the implementing bodies were named as the mayor himself, other local officials, the barangay league, police, the local traffic management and disaster and risk reduction management offices, and engineering and planning

(TRAVELING... from page 1)

Pagunihin witnessed by Congressman Briseo Revilla, DOST-Cavite Provincial Director Raul Cantarola and the Head of Traveling Exhibitions Ms. Nelson Narwidad. The MOA clearly stated the objectives of the program and highlighted the responsibilities of each agency, as well as the monetary terms, exhibit operations and guidelines.

In a message, Congressman Briseo Revilla expressed much appreciation to DOST and Dep-Ed Bacoor for al-

ways extending assistance in helping him deliver quality education for all, hoping that someday the city would house a permanent Science Centrum to be available for thousands of Bacoorites and other Caviteño youth. The 2nd district representative also thought of building up a Science and Technology Center, plus a Science High School for scientific research and innovations in order to contribute to nation building.

On the other hand, Education Program Supervisor Ms. Helen Gutierrez of Dep-Ed Bacoor talked about how DOST projects and the commitment of the local government further help students engage more in science research and other academic activities. Given this, teachers become more productive while students excel in various fields.

Along with Congressman Revilla and other guests, Director Pagunihin who gave an overview on the trans-

ition being the province's capital. Officials in other cities and municipalities to upland and lowland districts have

also started their interest against obstruction in the first week of August after the DILG memorandum was issued on July 20 this year.

ing Science Centrum project, likewise led the balloon-popping and ribbon-cutting ceremony that formally opened the exhibit. Among the fun and exciting features of the Science Adventures are the hands-on interactive exhibits and challenging activities including Symmetry, Bicycle Wheel, Mission, Finger Tingle, Rainbow Curtain, Petal Generator, Plasma and Magnetic Sphere, Tiny Bobbies, and the Talk and Listen Task.

also started their interest against obstruction in the first week of August after the DILG memorandum was issued on July 20 this year.

**REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
FOURTH JUDICIAL REGION
DIVISION 12
TRINIDAD CITY**

**HOME DEVELOPMENT MUTUAL FUND,
Mortgagee**
FORECLOSURE CASE NO. F-04-19

**CARALINGO R. BERMAS
mortgagor is SOLEDAD M. BERMAS,
Mortgagee**

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 1111, as amended by Act 4118, filed by Mortgagee **HOME DEVELOPMENT MUTUAL FUND**, with business address at 127 Flawr, JLP Business Solutions Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagor, **CARALINGO R. BERMAS mortgagor is SOLEDAD M. BERMAS**, with residential and postal address of O. I. A, Lane October 26, Taguig Point, Cavite City to satisfy the mortgage indebtedness with an amount of **SEVEN HUNDRED THIRTEEN THOUSAND FOUR HUNDRED EIGHTY SEVEN PESOS AND 39/100 (P7,343,877.39)** Philippine Currency, including interest and penalty charges on or said debt and excluding litigation expenses and all other charges incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **October 8, 2019 at 2:00 o'clock in the afternoon** at the main office of the Government Law Office Building, located at the Provincial Capitol Compound, Trinidad Martires City, as the highest bidder for **CASH** and in Philippine Currency, the following property with all the improvements thereon, as with:

TRANSFER CERTIFICATE OF TITLE NO. T-79318

A parcel of land (Lot 6, Bld. 1 of the subdivision plan) Palda 019911, being a portion of Lot 179 Sub S. I. M Estate LRC Bld. No. 1, situated in the City of San Agustin, City of Trinidad Martires, Cavite, bounded on the NE, along Lot 1-2 by Lot 2, on the SE, along Lot 2-3 by Rd. Tera, 0.30 MI. Water, on the SW, along line 3-4 by Lot 3, 4, of the said plan; beginning at a pt. marked "I" on plan, a x 4, containing an area of **ONE HUNDRED (100) SQUARE METERS x 1 x 1**.

All said lots must be subjected to the undersigned on the above stated time and place.

In the event the public auction should not take place on the said date and time, it shall be held on **October 15, 2019** without further notice.

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

Trinidad Martires City, July 29, 2019

(Sgd.) **LECIO C. ALERO III**
Sheriff IV

Copy Furnished:

HOME DEVELOPMENT MUTUAL FUND
127 Flawr, JLP Business Solutions Center
No. 409 Shaw Boulevard, Mandaluyong City

CARALINGO and SOLEDAD M. BERMAS
O. I. A Lane Pacific St., Taguig Point, Cavite City

WARNING: It is absolutely prohibited to receive, declare or display this Notice of Extra-Judicial Sale on or before the date of sale.

Publication: **DIWARYO KARTENYO**
Dates: August 5, 12 & 19, 2019

**REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
FOURTH JUDICIAL REGION
TRINIDAD MARTIRES CITY**

**HOME DEVELOPMENT MUTUAL FUND,
Mortgagee**
FORECLOSURE CASE NO. F-04-19

**GABRIEL R. GADAZA
mortgagor is ANGELA J. GADAZA,
Mortgagee**

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 1111, as amended by Act 4118, filed by Mortgagee **HOME DEVELOPMENT MUTUAL FUND**, with business address at 127 Flawr, JLP Business Solutions Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagor, **GABRIEL R. GADAZA mortgagor is ANGELA J. GADAZA**, with residential and postal address at Lot 25, Block 4, Subd. 21, Capital Hills Executive Subdivision, Lapulapu, Trinidad Martires City, Cavite to satisfy the mortgage indebtedness with an amount of **SEVEN MILLION TWO HUNDRED SIXTY THOUSAND FOUR HUNDRED TWENTY SEVEN PESOS AND 39/100 (P7,206,412.39)** Philippine Currency, including interest and penalty charges on or said debt and excluding litigation expenses and all other charges incidental to this foreclosure and sale, the undersigned Sheriff will sell at public auction on **October 8, 2019 at 2:00 o'clock in the afternoon** at the main office of the Government Law Office Building, located at the Provincial Capitol Compound, Trinidad Martires City, to the highest bidder for **CASH** and in Philippine Currency, the following property with all the improvements thereon, as with:

TRANSFER CERTIFICATE OF TITLE NO. T-79481

A parcel of land (Lot 1) (Lot 1B, A) of the subdivision plan Palda 011218, being a portion of the lots of Lot 21 & 48 Bld. 1 of the estate (Bld. 3 & 11, 15, 16, 24, 26, 27, 28, 44, 47, 49, 52, 58, 59, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92 and 93) of the subdivision plan Palda 011218, situated in the City of Lapulapu, Municipality of Trinidad Martires, Province of Cavite, bounded on the NW, along line 1-2 by Road Lot 3 (Bld. 20), on the NE, along line 2-3 by Lot 3, Bld. 4, on the SE, along line 3-4 by Lot 7, Bld. 4 and on the SW, along line 4-1 by Lot 35, Bld. 4, all of the subdivision plan, beginning at a pt. marked "I" on plan, a x 4, containing an area of **THIRTY NINE (39) SQUARE METERS x 1 x 1**.

All said lots must be subjected to the undersigned on the above stated time and place.

In the event the public auction should not take place on the said date and time, it shall be held on **October 15, 2019** without further notice.

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

Trinidad Martires City, July 29, 2019

(Sgd.) **LECIO C. ALERO III**
Sheriff IV

Copy Furnished:

HOME DEVELOPMENT MUTUAL FUND
127 Flawr, JLP Business Solutions Center
No. 409 Shaw Boulevard, Mandaluyong City

GABRIEL and ANGELA J. GADAZA
Lot 25, Block 4, Subd. 21, Capital Hills Executive Subd., Lapulapu, Trinidad Martires City, Cavite

WARNING: It is absolutely prohibited to receive, declare or display this Notice of Extra-Judicial Sale on or before the date of sale.

Publication: **DIWARYO KARTENYO**
Dates: August 5, 12 & 19, 2019

Fast food availability linked with more heart attacks

Areas with a high number of fast-food restaurants have more heart attacks, according to research presented at CSANZ 2019. The study also found that for every additional fast-food outlet, there were four additional heart attacks per 100,000 people each year.

The 67th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand (CSANZ) takes place from 8 to 14 August in Adelaide, Australia. The European Society of Cardiology (ESC) and CSANZ are holding joint scientific sessions as part of the ESC Global Activities programme.

Study author Taunton said the researchers found that for every additional fast-food outlet, there were four additional heart attacks per 100,000 people each year. The researchers also found that for every additional fast-food outlet, there were four additional heart attacks per 100,000 people each year. The researchers also found that for every additional fast-food outlet, there were four additional heart attacks per 100,000 people each year.

pressure, smoking status, and diabetes. The results emphasize the importance of the food environment as a potential contributor towards health.

"Infectious heart disease, including heart attack, is one of the leading causes of death worldwide," continued Dr Saha. "It is known that eating fast foods is linked with a higher likelihood of fatal and nonfatal heart attacks. Despite this, there is equal growth in the purchase and availability of fast food. This highlights the need to explore the role of food availability in the probability of having a heart attack."

This retrospective cohort study included 3,070 patients admitted to hospital with a heart attack in the Hunter Region between 2011 to 2013. The database contained each patient's home postcode, allowing the researchers to analyze their surrounding fat food environment.

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

NOTICE OF PUBLICATION

In compliance with section 5 of R.A. 9048, a notice is hereby served to the public that **ELMERA CELESTINO** has filed with this Office a petition for change of first name from **JENNET** to **MARY JANE** in the birth certificate of **JENNET CRISTOBAL ISLAND** who was born on **July 25, 1964** at **Imbo, Cavite** and whose parents are **BENATO R. ISLAND** and **LEONORAM CRISTOBAL**.

Any person adversely affected by said petition may file his written opposition with this office not later than **August 27, 2019**.

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

DIYAKO KABUTENO - August 22 & 19, 2019

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

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

ABRAHAM BARCELA CONSTANTE

CEN-0013-2019

ABRAHAM B. CONSTANTE JR.
Petitioner

NOTICE OF PUBLICATION

There is a petition filed for the change of first name in Certificate of Live Birth (CECPA) of **ABRAHAM BARCELA CONSTANTE** from **"ABRAHAM"** to **"ABRAHAM JR."**

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

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

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

DIYAKO KABUTENO - August 22 & 19, 2019

Love, though
with a thousand
signs and signals,
will never be
real if it remains
unspoken.

-Arnold S. Barco

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

BDO UNIBANK, INC.
Mortgagee

File No. SC-C-02MA-2018-21

**EXTRA-JUDICIAL FORECLOSURE
OF REAL ESTATE MORTGAGE
UNDER ACT 3135, AS AMENDED
BY ACT 4114**

CALATA CORPORATION (Formerly: PLANTERS CHOICE AGRO PRODUCTS INC.), AYENTHA HOLDING CORPORATION, SPS. EUSEBIO & ISABEL CALATA, JOSEPH H. CALATA, GAUDIUM CUM PACE DEVELOPMENT CORPORATION,
Mortgagors

CALATA CORPORATION (Formerly: PLANTERS CHOICE AGRO PRODUCTS INC.),
Debtor

vs. x

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial petition for sale under Act 1533, as amended by Act 4114 filed by the mortgagee, **BDO UNIBANK, INC.**, with principal office address at BDO Corporate Center, 1599 Makati Avenue, Makati City against the mortgagors, **CALATA CORPORATION (Formerly: PLANTERS CHOICE AGRO PRODUCTS INC.)**, with office address at Marikina Highway, Banga 1st, Marikina, Bulacan; **AYENTHA HOLDING CORPORATION, SPS. EUSEBIO & ISABEL CALATA, JOSEPH H. CALATA, GAUDIUM CUM PACE DEVELOPMENT CORPORATION**, all with office address at No. 202 E. Garcia Street, Banga 1st, Marikina, Bulacan, and for the satisfaction of the mortgaged debt (Note: The mortgaged debt includes properties in Las Pallas City, Angono City, Province of Rizal, Province of Laguna, Province of Cavite, Province of Iloilo and Province of Batavia) which as of 05 October 2018 amounts to **SEVEN HUNDRED SIXTY SEVEN MILLION FIVE HUNDRED EIGHTY FOUR THOUSAND TWO HUNDRED SIXTY SIX & 96/100 PESOS (P= 767,584,266.96)** inclusive of penalties and interest as of the said date, exclusive of all legal fees and expenses incidental to this foreclosure and sale, the Clerk of Court & his Office Sheriff of Carmona, Cavite, with call at public auction on **13 SEPTEMBER 2019 at 10:00 a'clock** to the meeting or soon thereafter in the Court Room of Branch 104, Regional Trial Court, 27 Hall of Justice, Marikina, Carmona, Cavite to the highest bidder and by **CASH or CERTIFIED CHECK**, in Philippine Currency, the following described real property with all its improvements existing thereon, to wit:

TRANSFER CERTIFICATE OF TITLE NO. 3433579

*A PARCEL OF LAND (LOT 6, BLK. 15 OF THE CONS. SUBD. PLAN, PCS-042106-00206, BEING

A PORTION OF THE COMMONS OF LOTS 1-7, (LAC PCS-24439, 1-2 (LAC), PCS-0404-241, 43-42, 279A TO 290-1, 279B, 301-1, 342-A-5477, 373, 822-A-827-C, 912, 012-B, 112-C, 1018-A, 1018-B, 1019-A, 1019-B, 1094, 100, 1014 ALL OF TWO-00764-052, 0039, 2920-19075, 441, 1013 & 371-A ALL OF ANON-PIACAD & BLK. 7), PCS-042106-00206, I. R.C. REC. NO. 1, SITUATED IN THE REG. CARLINO BAYBAY, MUN. OF CARMONA, PROV. OF CAVITE, ISLAND OF LUZON, BOUNDED ON THE W. ALONG LINE 1-2 BY LOT 7, BLK. 75, ON THE S., ALONG LINE 5-1 BY ROAD LOT 26, ON THE E., ALONG LINE 3-4 BY LOT 5, E. ON THE SE., ALONG LINE 4-1 BY LOT 4, BOTH BLK. 15, ALL OF THE DONGI SUBD. PLAN, BEGINNING AT A PT. MARKED "1" ON PLAN BEING N. 24 DEG. 39'36", 121.79M. FROM BLS. NO. 1, CARLINO BAYBAY, CARMONA, CAVITE, THENCE N. 66 DEG. 0' E. 22.27 M. TO PT. 2; THENCE N. 80 DEG. 08', 23.00M. TO PT. 3; THENCE S. 80 DEG. 37', 17.33M. TO PL. A; THENCE S. 70 DEG. 44' W. 22.19M. TO THE PT. OF BEGINNING, CONTAINING AN AREA OF 97'51 HUNDRED 000/100 METERS, ALL PTS. REFERRED TO ARE INDICATED ON THE PLAN AND ARE MARKED ON THE GROUND BY P.C.Y.L. CONC. MOPS. (TYPICAL BEARING TREE DATE OF ORIG. SURVEY, R.NE 16-0, 1917, ALG. 16-26, 1917, AUG. 18, 1940 SURV. 11, 1941), AND THAT OF THE CONS. SUBD. SURVEY, ION. T-24PPE-24, 1995, AND WAS APPROVED ON JAN. 4, 1995.*

Prospective buyers and bidders are hereby required to investigate the description of the said real property and the conditions hereon, if there be any.

All usual bids must be submitted to the undersigned on the above-stated time and date.

In the event the public auction should not take place on the said date and time, it shall be held on **27 SEPTEMBER 2019**, at the same time and place without further notice.

June 14, 2019, Carmona, Province of Cavite

(Sgd.) **BON GERARDO D. ANCAÑO**
Clerk of Court & Ex-Officio Sheriff

Cops. Attached:

- BDO UNIBANK, INC.**
BDO Corporate Center, 1599 Makati Avenue, Makati City
- CALATA CORPORATION (Formerly: PLANTERS CHOICE AGRO PRODUCTS INC.)**
Marikina Highway, Banga 1st, Marikina, Bulacan
- AYENTHA HOLDING CORPORATION**
SPS. EUSEBIO & ISABEL CALATA
JOSEPH H. CALATA
GAUDIUM CUM PACE DEVELOPMENT CORPORATION
No. 202 E. Garcia Street, Banga 1st, Marikina, Bulacan

Publication: DIYAKO KABUTENO
Dates: August 19, 20 and September 2, 2019

Republic of the Philippines
REGIONAL TRIAL COURT
Fourth Judicial Region
Branch 105 Carmona, Cavite

UNITED COCONUT PLANTERS BANK,
Mortgagee.

SC-0-034-2018-51
For: Extra-Judicial Foreclosure of Real
Estate Mortgage under ACT No.
103, as amended

MARISSA DELA CERNA MEHREZ and
VANER MORGAMED ZAKI MEHREZ,
Mortgagors.

X-----X

NOTICE OF SHERIFF'S SALE

Upon extra-judicial petition for sale under Act 155, as amended by Act 4118 filed by the mortgagee, UNITED COCONUT PLANTERS BANK, with postal address at UCPR Executive Building, Makati Avenue, Makati City against mortgagee MARISSA DELA CERNA MEHREZ and VANER MORGAMED ZAKI MEHREZ, with postal address at Cluster 6, Unit 3-L, Newport, Pines City and by the satisfaction of the mortgagee's debt which as of May 16, 2018 amounts to TWO MILLION SIX HUNDRED NINETY SEVEN THOUSAND FIVE HUNDRED EIGHTY EIGHT PESOS and 44/100 (P2,697,986.88), exclusive of all legal fees and expenses incidental to the foreclosure and sale, the undersigned Clerk of Court and ex-officio sheriff will sell at public auction on 11 OCTOBER 2019 at 10:00 o'clock in the morning or soon thereafter at the Court House of Branch 105, Regional Trial Court, 1st Floor at Justice, Sta. Elena, Carmona, Cavite to the highest bidder and for CASH or CERTIFIED CHECK, to Philippine Currency, the following described real property together with all the buildings and other improvements existing thereon, to-wit:

Deeds Certificate of Title
No. 077-200409418

IT IS HEREBY CERTIFIED that certain land situated in BARANGAY OF LANTIC, MUNICIPALITY OF CARMONA, PROVINCE OF CAVITE, ISLAND OF LUZON, bounded and described as follows:

A PARCEL OF LAND (LOT 16, BLOCK 1), OF THE SUBDIVISION PLAN (7914-04-0707, BEING) A PORTION OF BLOCK 22 BENCHLIFE AERIAL PHOTO (DATE) THE RECORD NO. _____ SITUATED IN THE BARANGAY OF LANTIC, MUNICIPALITY OF CARMONA, PROVINCE OF

CAVITE, ISLAND OF LUZON, BOUNDED ON THE NE, ALONG LINE 1.2 BY ROAD LOT 1, ALONG LINE 2.1 BY BLOCK 1, ON THE SE, ALONG LINE 1.4 BY BLOCK 1, ON THE SW, ALONG LINE 4.9 BY BLOCK 1, AND ON THE NW, ALONG LINE 3.1 BY BLOCK 1, ALL OF THE NEIRD PLAN, BEGINNING AT A PT. MARKED "1" ON PLAN, BEING S. 25 DEG. 17'W, 134.07 M. FROM BLM 50, TO CAYANO CARMONA, CADASTRE, THENCE S. 11 DEG. 39'W, 10.85 M. TO PT. 2, THENCE S. 34 DEG. 47'W, 14.01 M. TO PT. 3, THENCE S. 42 DEG. 31'W, 17.04 M. TO PT. 4, THENCE S. 11 DEG. 39'W, 10.85 M. TO PT. 3, THENCE N. 78 DEG. 27'E, 17.00 M. TO THE PT. OF BEGINNING, CONTAINING AN AREA OF ONE HUNDRED EIGHTY TWO (182) SQUARE METERS, ALL PTS. REFERRED TO ARE INDICATED ON THE PLAN AND ARE MARKED ON THE GROUND BY P.S. CY1, CONC. MONS. 15.00 CM. BEARING TRUE, DATE OF THIS SURVEY, AUGUST 1980, MAY 1981, AND THAT OF THE SAID SURVEY, RENE 11, 2008 AND WAS APPROVED ON AUGUST 1, 2008.

Prospective bidders and/or lenders are hereby requested to investigate for themselves the title of the said real property and the encumbrances thereon, if there be any.

All sealed bids must be submitted to the undersigned on the aforementioned time and date.

In the event the public auction should not take place on the said date and time, it shall be held on 25 OCTOBER 2019, at the same time and place unless further notice.

Carmona, Cavite, July 19, 2019.

(Sgd.) BON GERARD B. ANCAÑO
Clerk of Court VI

Copy furnished:

UNITED COCONUT PLANTERS BANK
UCPR Executive Building, Makati
Avenue, Makati City

MARISSA DELA CERNA MEHREZ and
VANER MORGAMED ZAKI MEHREZ
Cluster 6, Unit 3-L, Newport, Pines City
and/or

Lot 16, Block 01, Phase 2, Carmona Ranch,
San Lazaro Leisure Park, Reg. Lantic,
Carmona, Cavite

Publication: DIWARYO KARTOYO
Date: August 19, 20 and September 2, 2019

Evaluating blood flow is key to early diagnosis and treatment for people with critical limb ischemia

Non-invasive tech- ment from the Ameri- can Heart Association, assessing blood flow published in the Assoc- iation's flagship journal, *Circulation*. The statement provides a new scientific state- strength and limitations

of current imaging tech- niques, including the ankle-brachial index, toe-brachial index, toe systolic pressure, trans- cutaneous oximetry (TPO2) and skin per- fusion pressure (SPP). It

Republic of the Philippines
REGIONAL TRIAL COURT
Fourth Judicial Region
Branch 20
Imus, Cavite

REPUBLIC OF THE
PHILIPPINES, represented by
the Department of Public
Works and Highways
(DPWH),

Plaintiff,
- versus -
CIVIL CASE No. 0000-17
For: Expropriation
(Lot No. 177) under RCT No.
11-13001-02-0002

MELTOS TAPAWAN married
to FLORENA TAPAWAN,
NARCISCA TAPAWAN, and
AMBROSCA TAPAWAN,
Defendants.

ORDER

Before this Court is a Motion for Locus of Court to Serve Summons by Publication filed by plaintiff Republic of the Philippines represented by the Department of Public Works and Highways (DPWH), through the Office of the Solicitor General (OSG).

Plaintiff alleges that as per Process Server's Return dated March 25, 2018, complainant was partially served the defendants; refusal to acknowledge receipt of defendant's summons and return set out of the country.

The Rules of Court in Sec. 14 of Rule 14 provide that when the defendant's whereabouts are unknown and cannot be ascertained despite diligent inquiry, service of summons may, by leave of court, be effected upon him by publication in a newspaper of general circulation and in such places and for such time as the court may order.

The Court finds the Motion for Locus of Court to Serve Summons by Publication to be proper and hereby GRANTS the same.

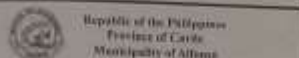
IT IS VIEW THEREOF, let summons by publication be issued in accordance with Sec. 14 Rule 14 of the Rules of Court.

SO ORDERED

Imus City, Cavite, 19 April 2019.
(Sgd.) RENEFINA E. MENCAR
Acting Presiding Judge

Publication: DIWARYO KARTOYO
Date: August 19, 20 and September 2, 2019

and treatment) in treatment. Women are more likely to experience emergency hospitalization, have differences in blood flow, and higher disability and death rates. The authors noted sex and ethnic differences in how critical limb ischemia is diagnosed, coexisting conditions and disparities in detection



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

NOTICE FOR PUBLICATION

In compliance with Section 7 of R.A. No. 9048, a notice is hereby served to the public that **GARRY V. ALVAREZ** has filed with this office a petition for change of first name from **FELIX G. GARRY** to the birth certificate of **FELIX VARRAS ALVAREZ JR.** who was born on **April 21, 1968** at **Marabas, Alifan, Cavite** and whose parents are **Felix Rosendo Alvarez and Dolores Javier Vasquez**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **September 2, 2019**.

(Sgd.) **TERESITA A. GALANG**
Civil Registrar

DIARYO KABITENYO - August 19 & 20, 2019

Synthetic azetidines could help simplify drug design for neurological diseases

Rice University chemists want to make a point: Nitrogen atoms are for squares.

The nitrogens are the point. The squares are the frames that carry them. These molecules are called azetidines, and they can be used as building blocks in drug design.

The Rice lab of chemist László Kürti introduced its azetidines in an Angewandte Chemie paper. The lab's goal is to establish a library of scaffolds for pharmaceutical design through the simple synthesis of a class of molecules that were previously hard to

make in nature and very hard to copy. Azetidines already appear in several drugs and are promising components in the development of treatments for neurological diseases like Parkinson's disease.

Tourette's syndrome and attention deficit disorder, according to the researchers.

So there's value in making a fast, inexpensive synthetic route to azetidines with unprotected nitrogen atoms called NH-azetidines – NH for nitrogen and hydrogen – that were first found in several kinds of Pacific sea sponges and

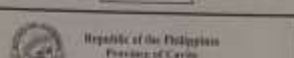
have more recently been made in arduous labors in very processes.

Rice graduate students Nicole Behlke and Kaitlyn Lovato, for the authors of the paper, quickly learned why there are so few

references to synthetic NH-azetidines in the scientific literature.

It required more than 200 experiments for the students to optimize their process, which takes about 24 hours, including prod-

uct purification. Azetidines molecules come in many configurations, but they all share the square motif, a four-of-one "ring" that contains



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

NOTICE TO THE PUBLIC

Publisher/Owner
R.A. 1972

On: August 12, 2019

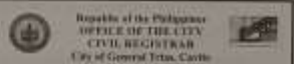
CPN - 810 - 2019
CCN-880-2019 R.A. 1972.

In compliance with the publication requirements and provided to OCRD, Manila under Circular No. 2017-57 (AM) issued in the Department of the Administrative Order No. 1 Series of 2012 (DECR) on R.A. 10723, notice is hereby served to the public that **MARITA R. BONTILLANOSA** has filed with this office, a petition for change of first name from **SOCASIA MARITA R. MARITA**, and correction of date of Day of Birth from **NOV. 2, 1948** to **OCTOBER 12, 1948** is the certificate of live birth of **SOCASIA MARITA ROSANES** at **FOR. AJA ORSIO, CAVITE** and whose parents are **RICHIE ROSANES and JERUSALEM LEBRON**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **September 2, 2019**.

(Sgd.) **TERESITA A. GALANG**
Civil Registrar

DIARYO KABITENYO - August 19 & 20, 2019



Republic of the Philippines
OFFICE OF THE CITY CIVIL REGISTRAR
City of General Trias, Cavite
4401 549-5014

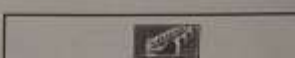
NOTICE OF PUBLICATION

In compliance with Section 7 of R.A. 9048, notice is hereby served to the public that **EDRILINA EVANGELISTA MOYA** has filed with this office a petition for change of first name from **DADY** to **EDRILINA**, is the birth certificate of **RAISY EVANGELISTA MOYA** who was born on **29 June 1999** at **General Trias, Cavite** and whose parents are **Aracelis D. Moya and Antonio L. Evangelista**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **September 2, 2019**.

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

DIARYO KABITENYO - August 19 & 20, 2019



Republic of the Philippines
Province of Cavite
Municipality of Marikina

OFFICE OF THE LOCAL CIVIL REGISTRAR

In the nature of Change of First Name
Certificate of Live Birth of **ANTHONY L. MANALO**

ANTONIO L. MANALO
Petitioner

NOTICE OF PUBLICATION

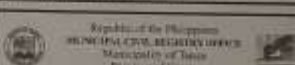
There is a petition for the Change of First Name of **ANTHONY L. MANALO** from **ANTHONY** to **ANTONIO** who was born on **JANUARY 17, 1961** at **MEUNQUEZ, CAVITE** and whose parents are **ANTONIO E. MANALO and PABILITA R. BAGAN**.

NOTICE IS HEREBY GIVEN that any interested person is urged to notify this office and advise same 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 7 of Republic Act No. 9048.

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

DIARYO KABITENYO - August 19 & 20, 2019



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

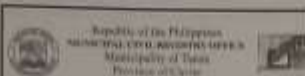
NOTICE OF PUBLICATION

In compliance with Sec. 7 of Rep. Act No. 9048, a notice is hereby served to the public that **MA. NIKA C. BLANCO** has filed with this office a petition for CHANGE OF FIRST NAME from **"NIKA"** to **"MA. NIKA C."** as the **CERTIFICATE OF LIVE BIRTH** of one **NIKA C. BLANCO**, who was born on **FEBRUARY 28, 1998** at **Talisay, Cavite** and parents were **Narciso C. Blasco & Juliana C. Cera**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **September 2, 2019**.

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

DIARYO KABITENYO - August 19 & 20, 2019



Publication Status:
R.A. 10753

NOTICE TO THE PUBLIC

CCJ-0073-2019

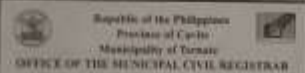
Date: August 15, 2019

In compliance with the publication requirement and pursuant to CCJGO Administrative Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1, Series of 2012 (R.A. No. 10753), Notice is hereby served to the public that **LILIBETH P. BADEA** has filed with this Office a petition for CANCELLATION OF ENTRY IN CHILD'S BOOK from "MALE" to "FEMALE" in the Certificate of Live Birth of **LILIBETH ROMERO PEREZ**, who was born on March 3, 1961 at Tawa, Cavite, of parents **FELIXON C. PEREZ & ARICENA F. BONGIO**.

Any person adversely affected by said petition may file his/her written opposition with this Office on or after **September 2, 2019**.

Filed by: **MA. THERESA J. CESA**
Municipal Civil Registrar

DIWARYO KASINTENYO - August 15 & 26, 2019



R.A. Form No. 11 / (L.M.)

NOTICE FOR PUBLICATION

In compliance with Section 7 of R.A. 9165, a notice is hereby served to the public that **MERVINA RINGLAS ANDANAR YLANSO** has filed in this Office a petition for Change of First Name from "GLORIA" to "SERVINA" in the Certificate of Live Birth of **GLORIA RINGLAS ANDANAR** who was born on **NOVEMBER 24, 1988** at **Sanjos, Cavite** and whose parents are **IBRIDO LINDO ANDANAR** and **SARICHA CASTRO RINGLAS**.

Any person adversely affected by said petition may file his/her written opposition with this office on or after **September 2, 2019**.

Filed by: **MARHETA R. LOZANO**
Municipal Civil Registrar

DIWARYO KASINTENYO - August 18 & 26, 2019

Bowel preparation for colon surgery unnecessary, study suggests

In recent decades, not been routinely subjected to what is known as bowel preparation, where the bowel is emptied at the colon, have

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE DECEASED DORINBA ERANI SARANGIDLO

NOTICE is hereby given that the estate of the deceased **DORINBA ERANI SARANGIDLO** who died testate at Marikina City, Cavite on April 15, 2019 consisting of bank account and PNB SAVINGS BANK-Davao City Branch (ACCOUNT NO. 027190207) with a balance of ₱992,532.97 as of June 29, 2019 has been administered and acceptably settled by and among her heirs and by and in consideration of the said extrajudicial settlement of said dead, that, they, the heirs above-mentioned, hereby expressly and irrevocably accept, release and discharge the **PILLAYBORROMAN**, as administrators and assigns and/or any of its officers or employees from any and all claims, debts, actions or causes of action, which they, their successors or assigns may have, if in the future they have against the said Bank or institution with and demands and they hereby further obligate themselves jointly and severally, to indemnify the said Bank, its administrators and assigns and/or its officers or employees for any loss or damage which they may sustain arising out of any claim, suit or proceedings initiated by any third person or entity, whether present or governmental (including, but not limited to, claims for excluded bene of its claim by the government on July 24, 2019 at Quez City, Cavite before Hon. Judge Pablo Aray, Cavite International C. Mueveja and entered in the National Register on Dec. 24, 1997 Page No. 76, Book No. 10, Series 172018.

Filed by: **ALLIEN (ELAINE JOVE) SARANGIDLO**, minor 19 years old, Represented by Natural Father, **BOLANDO S. SARANGIDLO**

Publication: **DIWARYO KASINTENYO**
Date: August 19, 24 and September 2, 2019

In the United States, on the other hand, cleansing the bowel is relatively common

Several extensive retrospective studies conducted in the United States were published a few years ago indicating that bowel preparation combined with the pre-operative oral administration of antibiotics appeared to significantly reduce surgical site infections. Based on these results, American surgical associations ended up recommending bowel preparation before colectomies. In Finland, the attitude in this prac-

tice has so far remained somewhat reserved due to the absence of randomized studies.

"Bowel preparation is a stressful procedure for the patient, so conducting it is only justified when it genuinely benefits the patient. However, not a single randomized follow-up study had been conducted on the topic, so we decided to carry one out ourselves," says MD Lasse Koskenvuo, gastrointestinal surgeon and Ph.D. at the Helsinki University Hospital.

The study, published in the distinguished journal *The*

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE DECEASED SPOUSES CIPRIANO GARCIA CAMERINO and MELLY RODRIGUEZ CAMERINO WITH WAIVER OF RIGHTS

NOTICE is hereby given that the estate of the late **CIPRIANO GARCIA CAMERINO and MELLY RODRIGUEZ CAMERINO** who both died testate on June 22, 2019 and on November 6, 2019 both in Iloilo, Cavite, respectively, consisting of two (2) parcels of land described as follows:

Transfer Certificate of Title No. T-321668
Registry of Deeds for the Province of Cavite

A parcel of land situated in the Barrio of Pampang, Municipality of Iloilo, Province of Cavite, containing an area of **222 HUNDRED (222) SQ. METERS**.

Transfer Certificate of Title No. T-151668
Registry of Deeds for the Province of Cavite

A parcel of land situated in the City of Anilao, Municipality of Iloilo, Province of Cavite, containing an area of **20 HUNDRED (20) SQUARE METERS**.

HOUSE-TAX DECLARATION NO. 19-0018-0208 has been equitably and extrajudicially settled by and among their heirs in the following manner:

1. **TCT No. T-321668**, solely and exclusively by **WILFREDO R. CAMERINO and RAFAEL C. CARAAN, FELIX R. CAMERINO and RAQUEL C. BASA**, waiving all their rights and interests over the said property.

2. **TCT No. T-151668** - shall belong to **MARIBETH C. CARAAN, FELIX R. CAMERINO and RAQUEL C. BASA** and **WILFREDO R. CAMERINO** waiving all their rights and interests over the said property.

on July 20, 2019 at City of Iloilo, Cavite before Hon. Judge Pablo Aray, Cavite International C. Mueveja and entered in the National Register on Dec. 24, Page No. 2, Book No. 3292, Series of 2019.

Publication: **DIWARYO KASINTENYO**
Date: August 19, 24 and September 2, 2019

ing with a drinkable cleansing liquid and the other half into a group in which no such preparations were made.

"According to our findings, there were no differences in treatment outcomes between the groups. Bowel preparation did not reduce surgical site infections or the total number or severity of surgical complications.

Low-income, black neighborhoods still hit hard by air pollution

Disease-causing demographics of the air pollution remains high in pockets of America — particularly those where many low-income and African American people live, a disparity highlighted in research presented at the annual meeting of the American Sociological Association in New York.

The nation's air on the whole has become cleaner in the past 70 years, but those benefits are seen primarily in whiter, higher-income areas, said Kerry Ard, an associate professor of environmental sociology at The Ohio State University, who will present her research Aug. 10, 2019.

Ard used a variety of detailed data sources to examine air pollution and the

with the highest level of unequal distribution of air toxins between whites and African Americans.

In the four years included in her analysis, Ard found persistent air pollution hot spots that did not improve.

"We're seeing that these pollution hot spots are the same, year after year, and every time they are in low-income communities — often communities of color. This has implications for a wide array of health disparities — from preterm births and infant mortality to developmental delays in childhood, to heart and lung disease later in life," Ard said.

The six-state area analyzed in the Ohio State study, home to many aging and shuttered industrial plants, includes Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin. These states make up the U.S. Environmental Protection Agency region

the executive order, many of the older, more-harmful plants have closed, others remain open and are often grandfathered into older regulatory standards that aren't as strict as those imposed on newer companies, she said.

In fact, we found that for every 1 percent increase in low-income African Americans living in an area, the odds that an area would become a hot spot grew significantly. This was also true, but to a lesser extent, for increases in low-income white populations."

Previous research has shown that despite widespread reductions in air pollution, blacks are still experiencing twice the health risk from air pollution than whites.

This isn't particularly surprising given that many blacks moved north toward industry — and jobs — during the Great Migration of African Americans from southern rural states, Ard said. Though

more-harmful plants have closed, others remain open and are often grandfathered into older regulatory standards that aren't as strict as those imposed on newer companies, she said.

Air pollution is known to cause an array of health problems, but even those links aren't as well understood as they should be because most efforts focus generically on fine particulate matter or on single toxins, rather than combinations that have the potential to inflict more harm, Ard said. Fine particulate matter refers to small, lightweight particles in the air that easily make their way into the lungs and sometimes the bloodstream and are known to trigger and worsen a host of diseases. But what, specifically, is in this matter is significant, and should be analyzed to see policies aimed at protecting human health, Ard said.

Ard said that efforts to control pollution aren't going far enough to begin to eliminate the air quality disparities and the health inequities in which they contribute, she said.

Ard, who is part of Ohio State's Institute for Population Research, recently published a textbook chapter focusing on this work.

"We really need to look at older industrial plants and how they are being regulated and how enforcement is happening in these

Psychology can help prevent deadly childhood accidents

Infants have overtaken infectious disease as the leading cause of death for children worldwide, and psychologists have the research needed to help predict and prevent deadly childhood mishaps, according to a presentation at the annual convention of the American Psychological Association.

"Many different factors contribute to unintentional injuries, so if we are able to stop just one of these risk factors, the injury could be prevented," said David C. Schwedel, PhD, of the University of Alabama Birmingham, who presented at the meeting. "By using novel behavioral strategies, we can possibly prevent injuries that have previously been seen as unavoidable accidents."

Injuries were responsible for the deaths of over 11,000 and emergency room visits by more than 8.7 mil-

lion American children in 2017, according to the Centers for Disease Control and Prevention. The Global Burden of Disease project estimates that more than 2 million children under age 19 worldwide died as a result of injuries in 2017. While these numbers represent all injuries, the presentation focused on only unintentional injuries (i.e., accidents) instead of intentional injuries such as suicide, homicide and abuse.

Schwedel outlined a model that psychologists could use to reduce accidental injuries in children. The model groups risk factors in three categories: environment-based, caregiver-based and child-based factors. Each category contributes in some form to almost every incident, according to Schwedel, and preventing just one risk factor could stop an injury from occurring.

Environment-based factors can include many different aspects of the environment with which children interact. For example, children could choke on toys if they are not designed well or be harmed in a car accident due to an incorrectly installed car seat.

Schwedel described one case where he and his colleagues reduced an environmental risk by comparing the look and shape of bottles containing either juice or torch fuel. Children were shown many bottles, some with torch fuel and others with juice, and were asked if they would drink them or not. Children tended to identify liquids in clear plastic bottles as drinks and those in opaque containers as not drinks. After the findings were published, there were evident changes in the torch fuel industry as fuel began to be sold in dark opaque bottles.

Caregiver-based factors can involve anyone who is supervising a child, including parents, teachers, babysitters or even linguists. According to Schwedel, preschool teachers can often be underpaid and fatigued from the intense work of supervising children all day and sometimes use outdoor playground time as a break for themselves, allowing children to run free, even though the majority of injuries at preschools occur on playgrounds.

"To solve this problem, we developed the Stamp in Safety Program where children wear a nametag, and teachers have stamps to reward the children on their nametags for engaging in safe behavior," he said. "While on the surface this seems to focus on rewarding children for safe behavior, its primary goal is to get teachers engaged and paying attention."

Child-based factors include motor skills, how children perceive their environment and how they interact with others. These skills vary greatly by age, so different approaches are needed when confronting risks. For example, 7-year-olds struggle more with the cognitive demands of crossing the street than 14-year-olds. Interventions for child-based factors can include reinforcing common parenting practices such as teaching children how to cross the street safely or showing them how to interact with stray dogs.

How the specific situations targeted for interventions are chosen can be a mixed bag, said Schwedel. For example, the idea for a program on drowning prevention came after Schwedel observed linguists while his own kids were playing at a pool. Other intervention ideas are drawn from the per-

sonal experiences and ideas brought to him by his students, such as the Stamp in Safety program.

And while psychological researchers are essential, this work will require collaboration across a variety of disciplines, said Schwedel. Throughout his research, Schwedel has worked with computer scientists, visual artists, electrical engineers, biostatisticians, physicians, epidemiologists and others.

"Globally, we are amid an unprecedented decrease in health burden from communicable and infectious diseases. As the world develops, health risks change," said Schwedel. "Psychologists have the expertise, the needed behavioral theory, and the needed methodologies to understand and take steps to prevent the significant health burden of unintentional injuries."

More than just jaundice: Mouse study shows bilirubin may protect the brain

In studies in mice, Johns Hopkins Medicine researchers report they have found that bilirubin, a bile pigment most commonly known for yellowing the skin of people with jaundice, may play an unexpected role in protecting brain cells from damage from oxidative stress.

Bilirubin is commonly measured in lab tests as a marker for liver or blood health, and high levels may indicate disease. However, whether it has a role in healthy people has remained unclear.

The Johns Hopkins Medicine team says its interest in the compound's function in the brain arose from testing which tissues in the mouse body produced bilirubin.

Surprisingly, the researchers found "exceptional levels" of the stuff in mouse brains — five to 10 times higher production than in rodents' livers.

"Bilirubin is normally considered a waste product, but this level of production takes a lot of metabolic energy, and it seemed bizarre for bilirubin to not have a function," says Biudu Paul, Ph.D., faculty research instructor at the Johns Hopkins University School of Medicine's Solomon H. Snyder Department of Neuroscience, and a member of the research team.

The new study, described in a report published July 25 in *Cell Chemical Biology*, set out to find the purpose for harbor-

ing so much bilirubin in the brain. The team noted that past studies proposed that bilirubin might be an important antioxidant. Since the brain is so metabolically active and vulnerable to oxidative damage, the research group considered the possibility that bilirubin might be particularly important to protecting the brain against oxidative stress.

For their experiments, the team used mouse neurons grown in the laboratory that were genetically engineered to not produce bilirubin. As the cells grew, the researchers exposed them to various sources of oxidative stress by introducing reactive molecules to their environment.

When compared with normal mouse brain cells, the researchers found that the genetically modified mouse neurons were far more vulnerable to these stressors — particularly at the hand of a harmful form of oxygen called superoxide.

Chirag Vasavda, an M.D./Ph.D. student in Solomon Snyder's laboratory and first author on the study, notes that superoxide is an important chemical cell messenger linked to learning, memory and development in the brain.

However, excessive brain cell activity can lead to uncontrolled superoxide levels, which can trigger oxidative stress and initiate a series of harmful reactions that cause damage to the

brain. "Our initial experiments hinted to us that bilirubin might play an important role in controlling the levels of superoxide in the brain," says Vasavda.

The research team suspected that bilirubin's ability to regulate superoxide originated in its chemical structure, which allows it to grab on to and neutralize the harmful molecule in a way that other antioxidants, such as glutathione and cysteine, cannot.

To test this, the researchers stimulated excessive brain cell activity in normal brains and brains engineered to lack bilirubin. They found that brains lacking the bilirubin-production gene accumulated excessive superoxide. Then they stimulated brain activity in normal mice and mice lacking bilirubin to test whether removing bilirubin worsens brain damage or cell death.

The researchers found that mice that lacked bilirubin had about two to three times more brain damage as their normal counterparts, suggesting that bilirubin protected normal brains against harmful superoxide reactions.

This discovery, the investigators say, advances scientific understanding of bilirubin's role in the brain and elsewhere and could lead to novel treatments for neurodegenerative diseases such as Huntington's and Parkinson's that are marked by excessive superoxide levels and oxidative stress.

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Novel dual stem cell therapy improving cardiac regeneration

As a medical intervention for all patients

gony caused by severe cardiovascular disease. Myocardial infarction (MI) can inflict permanent and life-threatening damage to the heart. A joint research team comprising scientists from City University of Hong Kong (CityU) has recently developed a multi-targeted approach for concurrently rejuvenating both the muscle cells and vascular systems of the heart by utilizing two types of stem cells. The findings give hope to develop a new treatment for repairing MI heart, as an alternative to the existing complex and risky heart transplant for serious

MI is a fatal disorder caused by a shortage of coronary blood supply in the myocardium. It leads to permanent loss of heart muscle cells (cardiomyocytes, CMs), and scar tissue formation, resulting in irreversible damage to cardiac function or even heart failure. With limited therapeutic options for severe MI and advanced heart failure, a heart transplant is the last resort. But it is very risky, costly and subject to limited available donors. Therefore, stem cell-based therapy has emerged as a promising therapeutic option.

Dr. Bao Kawan, a stem cell biologist from Department of Biomedical Sciences at CityU, has been focusing on developing novel stem cell-based treatments for cardiac regeneration. "Heart is an organ composed of cardiac muscles and blood vessels, where vessels are essential to supply oxygen and energy to the muscles. Since both cardiac muscles and vasculature would be severely damaged following MI, the therapeutic strategies should focus on comprehensive repair of both at the same time.

Reduced carbohydrate intake improves type 2 diabetics' ability to regulate blood sugar

Patients with type 2 diabetes improve their ability to regulate blood sugar levels if they eat food with a reduced carbohydrate content and an increased share of protein and fat. This is shown by a recent study conducted at Bapstberg Hospital in collaboration with, among others, partners Aarhus University and the De-

partment of Nutrition, Exercise and Sports at the University of Copenhagen. The findings are contrary to the conventional dietary recommendations for type 2 diabetics. Nutritional therapy is important to treat the type 2 diabetes optimally, but the recommendations are not clear. According to the

by up to 45% of newly diagnosed patients with type 2 diabetes are overweight, and they are typically advised to follow a diet focused on weight loss containing less calories than they burn, low fat content and a high content of carbohydrates with a low glycemic index (which indicates how quickly a food affects blood sugar levels).



Q & A on Consumer Rights

Q:

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A:

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