

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

Proverbs 18:10

DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

Vol. 22 No. 12

May 13-19, 2019

P 10.00

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

1 Corinthians 16:13

P3.9-M set for student summer jobs in GenTri

GENERAL TRIAS CITY, Cavite — The city government has earmarked some P1P3.9 million as the local counterpart fund for the employment program with the Department of Labor and Employment (DOLE) for students during summer vacation.

Ariel Magol, Public Employment Service Office (PESO) manager, said last May 9 the amount will cover the 60 percent daily wage while DOLE will shoulder the remaining 40 percent of such student workers, or a total of P1P9,427.20 for 23 working days.

Magol said the city government has around 600 Special

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12.5K cops deployed for poll duty in Calabarzon

A total of 12,584 police personnel have already been deployed to strategic areas for poll duties in the provinces of Cavite, Laguna, Batangas, Rizal and Quezon (Calabarzon), five days left before the mid-term elections in

May 13. This imposing force will be further augmented by about 511 personnel from the Armed Forces of the Philippines (AFP), it was announced following the Area Joint Security Coordination

Center (JSCC) Conference of top military and police officials from Calabarzon, Mimarops and Bicol regions at the multi-purpose conference hall in Camp Gen. Vicente Lim, Calamba City last May 7.

Director of Police Regional Office 4-A (Calabarzon), Brig. Gen. Edward Carrenza, said the sole mandate of all government forces assigned to poll duties is to keep the peace while they're remaining apolitical

throughout the election process.

Carrenza reminded police personnel that as public servants they should know the policy of non-partisanship. "For those who have their own political

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DIYARYO KABITENYO

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ANSULFI BARCO

Publisher - Editor

GENER BARCO

Operations Manager

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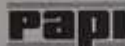
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(P.18M... from page 1)

Program for the Employment of Students (SPES) comprised of college and senior high school beneficiaries who will be employed at the different local government offices here.

This year's summer jobs include clerical, administrative and other general services scheduled for 200 students in three batches from April 8 to May 14; May 14 to June 17; and June 17 to July 17.

SPES is a government work program for the poor but deserving students aimed at augmenting their financial capabil-

ity and easing the burden among parents.

The program is also designed to provide students the learning and working environment so they could also appreciate the value of public service.

"Learning is imperative because good results are not far behind if students learn how to earn and practice what they have learned," Magel said.

He said SPES is a collaborative undertaking of the local government and DOLE to provide students the "learn and earn" opportunity every summer vacation.

Genetic therapy heals damage caused by heart attack

Researchers from King's College London have found that therapy that can induce heart cells to regenerate after a heart attack.

Myocardial infarction, more commonly known as a heart attack, caused by the sudden blocking of one of the cardiac coronary arteries, is the main cause of heart failure, a condition that now affects over 23 million population in the world, according to the World Health Organisation.

At present, when a

patient survives a heart attack, they are left with permanent structural damage to their heart through the formation of a scar, which can lead to heart failure in the future. In contrast to fish and salamander, which can regenerate the heart throughout life.

In this study, published in *Nature*, the team of investigators delivered a small piece of genetic material, called microRNA 199, to the heart of pigs, after a myocardial infarction

which resulted in the almost complete recovery of cardiac function at one month later.

Lead author Professor Mauro Giacca, from King's College London said, "It is a very exciting moment for the field. After so many unsuccessful attempts at regenerating the heart using stem cells, which all have failed so far, for the first time we see real cardiac repair in a large animal."

This is the first demonstration that cardiac regeneration can be

achieved by administering an effective genetic drug that stimulates cardiac regeneration in a large animal, with heart anatomy and physiology like that of humans.

"It will take some time before we can proceed to clinical trials" explained Professor Giacca.

"We still need to learn how to administer the RNA as a synthetic molecule in large animals and then in patients, but we already know this works well in mice."

(P.15K... from page 1)

cal affiliations and/or relatives running for certain seat(s) in the government, you must refrain from showing your support and patronage," he said.

Following closed-door ISGC conference last May 6, Carranza expressed confidence that the troops would carry on with their

mission in accordance with the Philippine National Police and AFP's "Implementation Plan Election 2019" to ensure a fair, honest, secure and peaceful election on May 13.

"This send-off ceremony for our troops who will be deployed for election duties is a proof of our earnest

aspiration for a secure, credible, and fair midterm elections through working together at a level of excellence to ensure that we will meet our desired outcome," said Lt. Gen. Gilbert I. Gapay, commanding general of the Southern Luzon Command who attended the security conference.

Also attending the send-off ceremony and joint security conference were Commission on Elections 4-A election director, lawyer Gloria Petalio, who commended both PRO 4-A and the AFP for their untiring support and assistance during preparations for the May 13 elections.

REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
& EX-OFFICIO SHERIFF
Davao City

HOME DEVELOPMENT MUTUAL FUND, (also known as PAG-IBIG FUND)
Mortgages
EXTRA-JUDICIAL PURCHASE OF REAL ESTATE MORTGAGE UNDER ACT 113 AS AMENDED BY ACT 4718
E.O. No. 18786-19
CARLETA BORNIDO CADUNGGOG
Mortgagee

NOTICE OF EXTRA-JUDICIAL SALE
These extra-judicial parties to sale under Act 1131 as amended by Act 4718 filed by **PAG-IBIG FUND OR HOME DEVELOPMENT MUTUAL FUND**, mortgagee/creditor, with principal place of business at 126 Flava, JELP Business Solution Center, No. 409 Shaw Blvd., Marikina City against **CARLETA BORNIDO CADUNGGOG**, Mortgagee, with principal place of business at Lot 11, Blk. 4, Sumner Plaza Country Homes, Pasig District 2, Issac Carillo to satisfy the mortgage indebtedness which on February 19, 2019 amounts to **SEVEN HUNDRED THIRTY TWO THOUSAND ONE HUNDRED EIGHTY SIX PESOS & 76/100 (P732,186.76)** Philippine Currency, including interest and penalties, but excluding attorney's fees, sheriff's fees and all other charges incidental to this foreclosure and sale the undersigned will sell in public auction on **JUNE 11, 2019 at 10:00 A.M.** or soon thereafter at the main entrance of the Office of the Clerk of Court, RTC, Multiple Site, Aguinid Highway, Iztac, Cavite, in the highest bidder, for cash and in Philippine Currency, the following property with all improvements thereon, to wit:
TRANSFER CERTIFICATE OF TITLE NO. 872-00388274

"A parcel of land (LOT 11, Blk. 4) of the sumner plaza country homes, Pasig District 2, Issac Carillo, bounded on the N.E. along line 7-79 Lot 11, Blk. 4, on the S.E. along line 7-79 by Lot 5, Blk. 4 on the P.W. along line 2-4 by Lot 10, Blk. 4 on the N.W. along line 2-4 by Road Lot 3 (0.30 sq. m.) of the sumner plaza country homes, containing an area of **THIRTY (30) SQUARE METERS**, s.s.c.

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

In the event the public auction should not take place on the said date, it shall be held on **JUNE 18, 2019 at 10:00 A.M.** unless further notice.

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

Davao, Cavite, April 10, 2019
(Sgd.) WENMAR M. DE VELLA
Sheriff IV

APPRENTICE
(Sgd.) REGALADO E. EUSEBO
Clerk of Court VI & Ex-Officio Sheriff

COPY FURNISHED:
HOME DEVELOPMENT MUTUAL FUND (also known as PAG-IBIG FUND)
126 Flava, JELP Business Solution Center, No. 409 Shaw Blvd., Marikina City
CARLETA BORNIDO CADUNGGOG
Lot 11, Blk. 4, Sumner Plaza Country Homes, Pasig District 2, Issac Carillo and Blk. 106 Ansonia Cavite City, Issac Carillo, Cavite
Publication: **DIWASYO KABUTAYAN**
Date: April 28, May 6 & 13, 2019

REPUBLIC OF THE PHILIPPINES
EXTRA-JUDICIAL PURCHASE
REGIONAL TRIAL COURT
BRANCH 15, NAAC, CAVITE

HOME DEVELOPMENT MUTUAL FUND (PAG-IBIG FUND)
Mortgages/Promissory
PNC-2018-1724
For: Extra-Judicial Foreclosure of Real Estate Mortgage Under Act 1131, as Amended by Act 4718
ENRICO P. MANALANG mortgaged to
CLAIRE G. MANALANG
Mortgagee/Respondent

NOTICE OF EXTRA-JUDICIAL SALE
Upon Extra-judicial parties to sale under Act 1131, as amended by Act 4718 filed by **HOME DEVELOPMENT MUTUAL FUND (PAG-IBIG FUND)**, mortgagee/creditor, with office address at 126 Flava, JELP Business Solution Center, No. 409 Shaw Blvd., Marikina City against **ENRICO P. MANALANG** mortgaged to **CLAIRE G. MANALANG**, with principal address at LOT 27 BLOCK 30A, FIFTH DAGAG-DAGALAN, CALOOCAN CITY, METRO MANILA to satisfy the mortgage indebtedness which as of **SEPTEMBER 18, 2018** amounts to **ONE HUNDRED EIGHTY FIVE THOUSAND ONE HUNDRED ELEVEN PESOS & 84/100 (P181,141)** Philippine Currency, inclusive of interest, penalties, and other charges, the undersigned Sheriff will sell at public auction on **MAY 21, 2019 at 10:00 A.M.** at the opening of view of the title of the said property with all the improvements thereon, to wit:
TRANSFER CERTIFICATE OF TITLE NO. 7-148926

"A parcel of land (LOT 7 BLOCK 28 OF THE CONSOLIDATION SUBDIVISION PLAN PCS-06-021366, BEING A PORTION OF LOTS 2, 3 AND 6 PCS-06-021311 L.R.C. RECORD NO. 3 SITUATED IN BARANGAY TIMAJAN, MUNICIPALITY OF NAAC, PROVINCE OF CAVITE, ISLAND OF LUZON, BOUNDED ON THE N.W. ALONG LINE 1-2 BY LOT 14 AND BLOCK 28; ON THE N.E. ALONG LINE 2-3 BY LOT 6 BLOCK 28; ON THE S.E. ALONG LINE 2-4 BY FOOTPATH LOT 47; AND ON THE S.W. ALONG LINE 4-1 BY LOT 8 BLOCK 28, ALL OF THE CONSOLIDATION SUBDIVISION PLAN, BEGINNING AT A POINT MARKED '77' ON PLAN, BEING 5 45-00', 787.62 M. FROM MON. 17, NAAC ESTATE, THENCE 76.21' E. 4.00 M. TO POINT 2, S 18-39' E. 4.00 M. TO POINT 1, 130.21' W. 4.00 M. TO POINT 4, N 08-39' W. 4.00 M. TO POINT OF BEGINNING, CONTAINING AN AREA OF **THIRTY TWO (32) SQUARE METERS** more or less.

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

Prospective bidders or buyers are hereby required to investigate for themselves the title herein above-described and the encumbrances thereon, if any there be.

In case of the absence of any participating bidder on the above-stated date, said auction sale will be held and finally held on **May 28, 2019** at the same place and time above-mentioned.

Davao, Cavite, March 25, 2019
(Sgd.) MA. CAROLINA M. POTEXTE
Sheriff IV

COPY FURNISHED:
HOME DEVELOPMENT MUTUAL FUND (PAG-IBIG FUND)
126 Flava, JELP Business Solution Center, No. 409 Shaw Blvd., Marikina City
ENRICO P. MANALANG mortgaged to **CLAIRE G. MANALANG**
Lot 27 Block 30A, FIFTH DAGAG-DAGALAN, CALOOCAN CITY, Metro Manila
Publication: **DIWASYO KABUTAYAN**
Date: April 28, May 6 & 13, 2019

DEED OF EXTRAJUDICIAL SETTLEMENT OF ESTATE WITH WAIVER OF RIGHT
NOTICE is hereby given that the estate of the deceased **ALEJANDRO V. OBELLO** who died intestate on December 21, 2018 at Texas Family General Hospital and Pharmacy located in Sherridge Diving Avenue II, Texas Cavite, consisting of two (2) parcels of land one (1) with an area of 234 square meters and another with an area of 340 square meters both with improvement located therein both located in Texas, Cavite and endorsed by Sheriff Certificate of Title No. T-897-2 and Transfer Certificate of Title No. T-101-21 has been adjudicated and extrajudicially settled by and between his heirs with waiver of rights, interests, and participation in those of **NOEL JOSE M. OBELLO** on September 1, 2018 at Texas, Cavite before Honary Public Atry Julia B. Aron and entered in the Provincial Register on Dec. No. 426, Page No. 36, Book No. XXXXX, Series of 2018.
(Sgd.) Both Sides
Publication: **DIWASYO KABUTAYAN**
Date: April 28, May 6 & 13, 2019

DEED OF EXTRAJUDICIAL SETTLEMENT OF ESTATE WITH WAIVER OF RIGHT
NOTICE is hereby given that the estate of the deceased **ALEJANDRO V. OBELLO** who died intestate on December 21, 2018 at Texas Family General Hospital and Pharmacy located in Sherridge Diving Avenue II, Texas Cavite, consisting of substantial deposit with Bank of the Philippine Islands (BPI) under account no. 000003-0019-30 in the amount of **FIFTY EIGHT THOUSAND TWO HUNDRED SEVENTEEN PESOS 14/100 (P58,217.56)**, Philippine currency and Class "A" Common Shares of Seaboard with Manila Insurance Company (MERALCO) Securities amounting to wit:
STOCK CERT. NO. NO. OF SHARES
DGA080220 200
DGA080224 100
DGA081888 128
DGA081758 222
DGA0811542 124
DGA0828778 164
DGA0809617 422
DGA080918 160
DGA0809278 110
MER0804056 204
3,378

has been adjudicated and extrajudicially settled by and between his heirs with waiver of rights, interests, and participation in those of the above-described bank account and share of stocks in favor of **NOEL JOSE M. OBELLO** on November 6, 2018 in Texas Cavite before Honary Public Atry Julia B. Aron and entered in the Provincial Register on Dec. No. 444, Page No. 34, Book No. XXXXX, Series of 2018.
(Sgd.) Both Sides

Publication: **DIWASYO KABUTAYAN**
Date: April 28, May 6 & 13, 2019
Love, though with a thousand signs and signals, will never be real if it remains unspoken.
- Arnold Barco

AFFIDAVIT OF SELF-ADJUDICATION WITH DEED OF ABSOLUTE SALE OF REAL PROPERTY

NOTICE is hereby given that the estate of the late **LEONCIA P. DEL PILAR** who died intestate on May 30, 2012 in Tanna, Cebu, consisting of a certain parcel of land with improvements thereon situated in the lot of **Sanja Mayor** (before) **Makulon** (now) Makulon, Precinct of Causa, Island of Luzon, province by and through its Transfer Certificate of Title No. T-120003 of the Registry of Deeds for the Province of Cavite, consisting an area of **THREE HUNDRED-FIFTY (350) SQUARE METERS**, more or less, has been self-adjudicated by her sole heir, **JILLIAN F. DEL PILAR**, with Deed of Absolute Sale in favor of **SPOUSES JULIUS B. ARCA and SHERILY V. PINDING-ARCA**, their heirs, assigns or successors, for a consideration of **FOUR MILLION PESOS (P4,000,000.00)** Philippine Currency, **NET OF ALL EXPENSES and TAXES** due or payable, which shall be for the sole account of the **BUYERS** (readers), which shall be for the sole account of the **BUYERS** (readers) on October 14, 2018 in General Trias City, Province of Cavite before Notary Public Atty. **Soledad E. Campbell-Sugano** and entered in her Notarial Register as Doc. No. 292, Page No. 22, Book No. VII, Series of 2018.

(Sgd.) Sole heir
Publication: **DIYARYO KABITENYO**
Date: **April 29, May 6 & 13, 2019**

EXTRAJUDICIAL SETTLEMENT WITH WAIVER OF RIGHTS

NOTICE is hereby given that the estate of the deceased **HENRIADO B. WARREN** who died intestate on July 8, 2007 in Cavite City, Philippines, consisting of a parcel of land situated in the **Bay of Laganan, Makulon**, Precinct of Causa, covered and reduced by Transfer Certificate of Title Number **1-667889**, consisting an area of **FIFTY FIVE (55) SQUARE METERS**, more or less, has been adjudicated and extrajudicially settled by and among his heirs with waiver of rights, interests, and participation in the above-described real property in favor of **MA. CAMILLE R. WARREN** on April 26, 2019 in Tanna, Cavite, Philippines before Notary Public Atty. **Julius B. Arca** and entered in his Notarial Register as Doc. No. 179, Page No. 34, Book No. XXXVII, Series of 2019.

(Sgd.) All heirs
Publication: **DIYARYO KABITENYO**
Date: **April 29, May 6 & 13, 2019**

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

NOTICE OF PUBLICATION
In compliance with section 5 of R.A. 9941, a notice is hereby served to the public that **MA. CRISTINA S. TAPANAN** has filed with this Office a petition for change of first name from **MARIA CRISTINA** to **MA. CRISTINA** in the birth certificate of **MARIA CRISTINA CEROJANO SAGUILALAN**, who was born on **MARCH 23, 1964** in **Imus, Cavite** and whose parents are **TERENAS R. SAGUILALAN and ANERFINA M. CEROJANO**.
Any person adversely affected by said petition may file his written opposition with this office not later than **May 28, 2019**.
(Sgd.) **VIOLETA P. SAÑEZ**
City Civil Registrar I

DIYARYO KABITENYO - May 6 & 13, 2019

EXTRA-JUDICIAL SETTLEMENT OF ESTATE WITH WAIVER OF RIGHTS

NOTICE is hereby given that the estate of the late **BILLMAR JACOB STEFF** who died intestate on February 19, 2008 at Resonance Hospital located at No. 11082 Alford Avenue RD, Garden Grove, County of Orange, California, consisting of a parcel of land with improvements situated in Cavite City, consisting of **ONE HUNDRED-TWENTY (120) SQUARE METERS** covered by Transfer Certificate of Title No. T-1-44911 of the Registry of Deeds for the Province of Cavite has been adjudicated and extrajudicially settled by and among his heirs with waiver of rights, interests and participation over the above-described property consisting of **ONE HUNDRED-TWENTY (120) SQUARE METERS** in favor of **PATRICIA B. STEFF**, her heirs, assigns and successors-in-interest on April 25, 2019 in Tanna, Cavite, Philippines before Notary Public Atty. **Sharilyn V. Pinding-Arca** and entered in her Notarial Register as Doc. No. 141, Page No. 23, Book No. XXX, Series of 2019.

(Sgd.) All heirs
Publication: **DIYARYO KABITENYO**
Date: **April 29, May 6 & 13, 2019**

AFFIDAVIT OF SELF-ADJUDICATION

NOTICE is hereby given that the estate of the late **GERALDO MEDINA**, who died intestate and was the possessor of Lot No. 542, Inas Pinar Laredo Estate, situated at Barangay Mangro IV, City of Imus, Province of Cavite, consisting an area of **Thirty Four Thousand Four Hundred Thirty Three (34,433) Square Meters**, more or less, has been self adjudicated by his sole heir **RUEL MEDINA**, on April 22, 2019 at City of Manila before Notary Public Atty. **Pedro D. Conata** and entered in his Notarial Register as Doc. No. 119, Page No. 42, Book No. XIII, Series of 2019.

(Sgd.) Sole heir
Publication: **DIYARYO KABITENYO**
Date: **April 29, May 6 & 13, 2019**

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

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

MARIA FELINA E. NOVERO

FE N. DIMERO
Petitioner

NOTICE OF PUBLICATION
There is a petition filed for the change of first name in Civil Registry Form No. 1A (SECLA) of **MARIA FELINA E. NOVERO** from **"MARIA FELINA"** to **"FE"**.

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

Let this NOTICE be published at least once a week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 7 of Republic Act No. 9645.

(Sgd.) **MERCE A. CHAVEZ**
Municipal Civil Registrar
DIYARYO KABITENYO - May 6 & 13, 2019

Avocados, as a substitution for carbohydrates, can suppress hunger without adding calories

A new study substitutes for refined carbohydrates can significantly suppress hunger Technology suggests and increase meal satisfaction that include

and obese adults. At rates of obesity in the United States continue to rise, the findings from Illinois Tech suggest that simple dietary changes can have an important impact on managing hunger and aiding metabolic control. The new research, published in the peer-reviewed journal *Nutrients*, assessed the underlying physiological effects of including whole and half fresh Hass avocados on hunger, fullness, and how satisfied subjects felt over a six-hour period. Researchers evaluated these effects in 31 overweight and obese adults in a randomized three-arm crossover clinical trial. These dietary changes were also shown to limit insulin and blood glucose excursions, further reducing the risk of diabetes and cardiovascular disease by adding healthy fats and fibers into a regular daily diet. For years, fats have been targeted as

the main cause of obesity, and now carbohydrates have come under scrutiny for their role in appetite regulation and weight control," said Britt Hanson-Freeman, Ph.D., director of the Center for Nutrition Research at Illinois Tech. "There is no one size fits all solution when it comes to optimal meal composition for managing appetite. However, understanding the relationship between food chemistry and its physiological effects in different populations can reveal opportunities for addressing appetite control and reducing rates of obesity, putting us a step closer to personalized dietary recommendations."

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

NOTICE OF PUBLICATION

In compliance with Sec. 2 of R.A. 9048, a notice is hereby served to the public that (petitioner) has filed with this Office a petition for Change of First Name. From **JOHN BASCO FERRINANO to FERRINANO** to the birth certificate of **JOHN BASCO FERRINANO RECORDERA** born on **FEBRUARY 21, 1988** at NAIC, CAVITE, child of spouses **ARLINDO L. HERBERA** and **ERLINDA OCAMPO**.

Any person adversely affected by said petition, may file his written opposition to this Office not later than **May 16, 2019**.

(Sgt.) **GLORIA P. BAGU**
Municipal Civil Registrar

DIVARYO KABITENYO - May 9 & 13, 2019

Republic of the Philippines
Local Civil Registry Office
Province: **CAVITE**
City/Municipality: **NAIC**

Publication Notice
RA, 10171

NOTICE TO THE PUBLIC

Date: **April 29, 2019**

CCE-0070-2019

In compliance with the publication requirement and pursuant to DCRG Memorandum Circular No. **2011-1** Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (RR as RA, 10172), Notice is hereby served to the public that **MA. LILIBETH G. ROBLES** has filed with this Office, a petition for correction of entry in her book of "**MALE**" to "**FEMALE**" in the certificate of live birth of **MA. LILIBETH CUPINO GAMBER** of **Rosario, Cavite** and whose parents are **SILVINO D. GAMBER** and **TRINIDAD S. CUPINO**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **29 May 2019**.

(Sgt.) **MARIA ROSARIO C. SOBRIANO**
Municipal Civil Registrar

DIVARYO KABITENYO - May 9 & 13, 2019

REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
FOURTH JUDICIAL REGION
BRANCH 13
TREC'S MARTINEZ CITY

IN RE: PETITION FOR THE CANCELLATION OF ADVERSE CLAIM IN TCT NO. T-117338

LBC CASE NO. 0032-055-16

ELAMAR REALTY DEVELOPMENT CORPORATION,
Respondent,

vs.

DECISION

This is a certified Petition (Annex "A") for an Order directing the Registry of Deeds for the Province of Cavite to cancel the immediate cancellation of the adverse claim inscribed on Transfer Certificate of Title No. T-117338 (subject title, for brevity) pursuant to Section 70 of P.D. No. 1529.

In its order dated March 22, 2017 (Exhibit "B"), the court set the hearing of the petition and ordered the posting (Exhibit "E") of this order, copy furnished the Register of Deeds for the Province of Cavite, Land Registration Authority, Office of the Solicitor General, petitioner, adverse claimant Ricardo S. De Leon and his counsel. On June 1, 2017, the court granted petitioner's prayer for the service of summons to Ricardo S. De Leon through publication in a newspaper of general circulation. Hence, summons by publication (Exhibit "C") was issued and the petition was published in a newspaper of general circulation dated October 16-22, 2017 (Exhibit "G") and October 23-29, 2017 (Exhibit "F") and an affidavit of publication (Exhibit "H") was issued by the Divaryo Kabitenyo to prove the said publications.

In the Order dated April 23, 2018, it was declared that the petitioners were able to establish the jurisdiction of this Court over the instant petition. And after the petition was read aloud in open court, there was no opposition thereto. Thus, as prayed for by the petitioners, their presentation of *ex parte* evidence was set before the Clerk of Court sitting as a Commissioner.

Evidence shows that petitioner is the registered owner of a parcel of land covered by the Transfer Certificate of Title No. T-117338 (Exhibit "D"). Petitioner as represented by its director Roland C. Ponce executed a Judicial Affidavit to attest the same. A certification issued by the Register of Deeds for the Province of Cavite was presented by petitioner to prove that the affidavit of adverse claim is not available from the above-mentioned office records and was included among the records that were burned during the fire that raged in the office on May 25, 2005.

The subject title shows the recordation of encumbrances and the encumbrance which is sought to be cancelled has been annotated on ENTRY No. 0333 on September 3, 1999 or clearly more than the Thirty (30) day efficiency period from the date of registration and has already signed.

Paragraph in Section 70 of P.D. No. 1529, "The adverse claim shall be effective for a period of thirty days from the date of registration. After the lapse of said period, the presentation of adverse claim may be cancelled upon filing of a certified petition therefore by the party in interest."

TCT No. T-117338 is a transfer from Transfer of Certificate Title No. T-0127704734 as noted in the said title. Further it can be ascertained from the subject title that the said acquisition was copied from TCT No. T-032577, Book No. 4764, DACC No. 77, fileno. from the first the Affidavit of Adverse Claim which was recorded on September 3, 1999 in TCT No. T-032277 and the title for same was cancelled and issued a new title which is TCT No. T-117338, respondent Ricardo S. De Leon did not make any action to further his claim or interest over the said property.

After a careful consideration of the evidence adduced, the Court is convinced and so holds that the petition to cancel the annotation of encumbrance inscribed as Transfer Certificate of Title No. T-117338 relating to section 70 of P.D. No. 1529 is a *fructus bonae fidei*.

WHEREFORE, the Register of Deeds for the Province of Cavite, is hereby ordered to cancel the annotation on Transfer Certificate of Title No. T-117338, which reads-

"ENTRY NO. 0333 - AFFIDAVIT OF ADVERSE CLAIM - Executed by RICARDO S. DE LEON - Covering the parcel of and described in this cert., of title as per Affidavit of Adverse Claim, filed, and sworn to before the Notary Public for Ricardo T. De Leon Jr., under Dec. No. 30, Page No. 10, Book No. 1, Series of 1999; a copy is on file in this registry. Date of Instrument: Sept. 6, 1999. Date of inscription: Sept. 8, 1999 at 1:00 p.m."

(Sgt.) **REYNALDO S. AQUINO**
Atty. Register of Deeds

SO ORDERED.

Trec's Martinez City, Cavite, October 11, 2018.

(Sgt.) **BONIFACIO S. PASCUA**
Assistant Judge

Publication: **DIVARTO KABITENYO**
Date: **May 13, 20 & 27, 2019**

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

-Arnold S. Barco

Train your brain with computer game to eat less sugar

More than half of American adults consume excess added sugars, according to the U.S. Department of Health and Human Services. Major dietary guidelines recommend limiting foods high in added sugars. A recent study led by Evan Forman, PhD, a psychology professor in Drexel University's College of Arts and Sciences, shows that a computer game can be used to train its players to eat less sugar, as way of reducing their weight and improving their health.

"Added sugar is one of the biggest culprits of excess calories and is also associated with several health risks including cancer," said For-

man, who also leads the Center for Weight, Eating and Lifestyle Science (WELL Center) at Drexel. "For these reasons, eliminating added sugar from a person's diet results in weight loss and reduced risk of disease."

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 18
CAVITE CITY

IN RE: PETITION FOR THE
DECLARATION OF PRESUMPTIVE
DEATH OF CHRISTINE G.
VILLARREAL

SP. PROC. NO. 9-9847

OLYSSÉS S. ARRIOLA,

Petitioner

ORDER

A verified Petition dated February 17, 2019, was filed by petitioner Olyssés S. Arriola, through counsel, praying that Christine Villarreal be declared presumptively dead for purposes of entering into a contract in his name and to enable him to validly enter into another marriage. In said petition, petitioner alleges that, on June 30, 2006, he and Christine Villarreal were married at the office of the Metropolitan Trial Court of Mandaluyog, Branch 59, but they forget two (2) children namely, Ylva Villarreal Arriola who was born on April 21, 2006, thereafter their marriage they celebrated at various places, the last of which was at June 15, 2006, that marriage in June 2006, Christine Villarreal simply disappeared, that she left their couple home and never returned up to the present, that her whereabouts up to this date is unknown to him, their children and acquaintances, that he does not know what has become of her since she has not communicated in any way to him and their children since that time she left the couple home up to the present; that he had to find off by himself the daily subsistence of their children and be the mother and father of their children; that during their marriage, she always goes out with her friends and does of the following day and this caused their frequent quarrels, that she has the habit of going and god leaving their children with their maid, that since her disappearance it was he, with a lot of help from his relatives, who support and send their two (2) children to school; that he and their two (2) children made numerous attempts to find her and ascertain her whereabouts, such as asking her own relatives and other acquaintances, both here and abroad and by surfing through the internet, that all of those proved futile since her present condition and whereabouts, especially whether or not she is still living, remain unknown to them; that he likewise, looked for her everywhere and asked her

friends if they know where she is, however, they cannot give him any information; that he generously financed and paid for her to be around her family where she used to frequent, but he even went to make doctors to know her whereabouts, but still this day he does not know where she is, that in view of the foregoing and considering the long lapse of time since he had personal contact with her, he begs this action if only to spare her and their children from the uncertainties that attend a person's disappearance; that to enable him to do himself and those who would otherwise need the consent of a wife, such as success and disposition of properties and, that more specifically, to file this Petition under Article 41 of the Family Code to enable him to enter into another marriage.

WHEREFORE, finding the Petition sufficient in form and in substance, the court is given due course, for the hearing of this case on **June 28, 2019 at 8:30 in the morning**, on which date and time, any interested person may appear and show cause, if any, why the Petition should not be granted.

Let this Order be furnished once a week for three (3) consecutive weeks, in a newspaper of general circulation in the Province of Cavite at least twenty (20) before the hearing, to be selected by raffish papers to PD 1075, at the expense of the petitioner. Let also copies of this Order be posted at the offices of (1) Cavite City Justice Hall, (2) Cavite City Hall and (3) Local Civil Registrar of Cavite City, at least twenty (20) days prior to the scheduled hearing.

Let copies of this Order be furnished to Christine G. Villarreal at her last known address, at No. 211 Valencia Court, Leticiana Drive, Yambou Ave., Barangay Caba, Oropesa City, the petitioner at No. 771 A, del Rosario Street, San Antonio, Cavite City, the Office of the Local Civil Registrar of Cavite City, The Regional General of the Philippine Statistics Authority (formerly National Statistics Office), and the Office of the City Prosecutor, Cavite City. The petitioner is directed to furnish the said offices with a copy of this Order and its annexes within five (5) days from receipt of this Order and its annexes to this Court in compliance herewith.

SO ORDERED.

Cavite City, May 10, 2019.

(Sgd.) ROSE L. BAUTISTA, JR.
Acting Presiding Judge

Publication : DIARYO KABITENYO
Date : May 13, 20 & 27, 2019

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

NOTICE OF PUBLICATION

In compliance with section 3 of R.A. 9948, a notice is hereby served to the public that **MA. TERESA G. BABLAN** has filed with this Office a petition for change of first name from **MARIA TERESA G. TERESA GERMING** who was born on **JAN. 15, 1961** in the birth certificate of **MARIA TERESA VIBATA** in the City of Cavite and whose parents are **EDUARDO J. GERMING** and **JOSEFINA C. VIBATA**.

An person adversely affected by said petition may file his written opposition with this Office on or before **May 17, 2019**.

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

DIARYO KABITENYO - May 17 & 23, 2019

EXTRAJUDICIAL SETTLEMENT OF THE ESTATE OF THE LATE BEATRIZ PRODIGALIDAD

NOTICE is hereby given that the estate of the late **BEATRIZ PRODIGALIDAD** who died intestate on November 4, 2015 at Rosario, Cavite, consisting of the following parcels of land (referred to "TRANSFER CERTIFICATES OF TITLE NO. 184 was the owner or co-owner to wit:

1. TCT NO. 857-2015044799 over a parcel of land situated in Bagbag, Rosario, with an area of 813 square meters to the extent of 25% interest;

2. TCT NO. 897-2015044800 over a parcel of land situated in Siga, Tanza, Cavite, with an area of 46,053 square meters to the extent of 25% interest;

3. TCT NO. 051-2016000090 over a parcel of land situated in Liguing, Rosario, Cavite, with an area of 971 square meters to the extent of 25% interest;

4. TCT NO. 53551 over a parcel of land situated in Liguing, Rosario, Cavite, with an area of 972 square meters.

has been adjudicated and extrajudicially settled by and among her heirs in equal shares on August 21, 2017 in City of Rosario, Cavite before Notary Public, Atty. Arminio T. Nicolas and entered in his National Register on Dec. No. 251, Page No. 42, Book No. VI, Series of 2017.

(Sgd.) **EDRO F. ATANGAN**, in his own behalf and as the attorney-in-fact of **ROMEO ATANGAN, ROMEO P. ATANGAN, JR. and FIDELITO P. ATANGAN; MA. SOLEDAD F. CASTRO** in her own behalf and in her capacity as the attorney-in-fact of **HIPOLITO CASTRO, EUPRONJO F. CASTRO, MARIELORE F. CASTRO, ROSARCO F. CASTRO and ANDRELYN F. CASTRO; JOSE PRODIGALIDAD** and **NORMA SAN JUAN** (Wife of Jose Prodigalidad).

DIARYO KABITENYO - May 13, 20 & 27, 2019

Susceptibility to disease develops during childhood

Traumatized children and children who develop multiple allergies tend to suffer in adulthood from chronic inflammatory diseases and psychiatric disorders. Researchers at the Universities of Zurich and Lausanne have demonstrated this

in a study in which they identified five classes of early immune-system programming. The human immune system forms during childhood. The "hygiene hypothesis" is a widely regarded perspective on this. It postulates that improved hygiene, changes in agriculture and urbanization have caused our immune systems to come in contact with certain microbes less often or later in life than before. It is presumed that these developments have adversely resulted in an increased incidence of chronic inflammatory diseases, allergies and mental disorders such as depression.

Taking the hygiene hypothesis as a starting point, an interdisciplinary group of researchers at the Universities of Zurich and Lausanne analyzed epidemiological data from a cohort of almost 5,000 people who were born in the mid-20th century. They concentrated on the different groups of people that they characterized by biomarkers

analyzed epidemiological data from a cohort of almost 5,000 people who were born in the mid-20th century. They concentrated on the different groups of people that they characterized by biomarkers

IMUS RURAL BANK, INC.
Name of Bank

PUBLISHED BALANCED SHEET
(Head Office and Branches)
As of March 31, 2019
CONTROL PROOFLIST

	Account Code	Current Quarter	Previous Quarter
Cash and Cash Items	106000000000000000	11,895,607.90	10,422,488.90
Due from Bangko Sentral ng Pilipinas	105150000000000000	29,909,481.92	29,909,481.92
Due from Other Banks	108200000000000000	355,445,619.07	359,575,580.60
Financial Assets at Fair Value through Profit or Loss	112000000000000000	0.00	0.00
Available-for-Sale Financial Assets-Net	195200000000000000	0.00	0.00
Hold-to-Maturity (HTM) Financial Assets-Net	195200000000000000	366,395,492.74	366,395,492.74
Unquoted Debt Securities Classified as Loans-Net	195300000000000000	0.00	0.00
Investments in Non-Marketable Equity Security-Net	195350000000000000	0.00	0.00
Loans and Receivables - Net	196400000000000000	342,077,645.87	332,333,192.57
Other Financial Assets	148000000000000000	9,534,381.78	15,736,254.34
Equity Investment in Subsidiaries, Associates and Joint Ventures-Net	195452500000000000	0.00	0.00
Bank Premises, Furniture, Fixture and Equipment-Net	195500500000000000	28,340,010.17	27,481,709.62
Real and Other Properties Acquired-Net	195501000000000000	13,485,087.25	13,980,056.62
Non-Current Assets Held for Sale	150150000000000000	0.00	0.00
Other Assets-Net	152000000000000000	21,358,362.92	21,993,898.99
Net Due from Head Office/Branches/Agencies, if any (Phil. branch of a foreign)	155250000000000000	0.00	0.00
Financial Liabilities at Fair Value through Profit or Loss	208000000000000000	0.00	0.00
Deposit Liabilities	215000000000000000	954,001,160.21	940,390,503.74
Due to Other Banks	220050000000000000	0.00	0.00
Bills Payable	220100000000000000	0.00	0.00
Bonds Payable-Net	295201500000000000	0.00	0.00
Unsecured Subordinated Debt-Net	295202000000000000	0.00	0.00
Redeemable Preferred Shares	220250000000000000	0.00	0.00
Special Time Deposit	220300000000000000	0.00	0.00
Due to Bangko Sentral ng Pilipinas	230350000000000000	0.00	0.00
Other Financial Liabilities	240050000000000000	2,138,491.55	2,165,921.34
Other Liabilities	240100000000000000	16,573,212.60	16,726,062.01
Net Due to Head Office/Branches/Agencies (Philippine branch of a foreign bank)	230650000000000000	0.00	0.00
ADDITIONAL INFORMATION			
Gross total loan portfolio (TLP)	499020000000000000	342,380,812.25	342,147,171.33
Specific allowance for credit losses on the TLP	499200000000000000	7,123,412.36	6,489,969.25
Non-Performing Loans (NPLs)			
a. Gross NPLs	499100500000000000	12,030,417.63	11,622,954.21
b. Ratio of gross NPLs to gross TLP (%)	499150500000000000	3.42%	3.40%
c. Net NPLs	499101000000000000	7,199,206.49	7,442,742.87
d. Ratio of Net NPLs to gross TLP (%)	499151000000000000	2.03%	2.19%
Capital Adequacy Ratio (CAR) on Solo Basis, as prescribed under existing regulations			
a. Total CAR (%)	499650500000000000	205.63	28.96
b. Tier 1 Ratio (%)	499650501000000000	205.63	217.89
c. Contingent Tier 1 Ratio (%) ⁽¹⁾	499650501300000000	0.00	0.00

I hereby certify that all matters set forth in this Published Balance Sheet are true and correct, to the best of my knowledge and belief

Oscar F. Tirona
OSCAR F. TIRONA
President

Form 28 (Revised June 2014)

Rural Bank

Balance Sheet

Please check box:
() not subsidiary
() info subsidiary

IMUS RURAL BANK INC.

040810

As of

May 13, 2019

Table with columns: ASSETS, Account Code, Current Quarter, Previous Quarter. Rows include Cash and Cash Items, Loans, Investments, and Liabilities.

AUCTION SALE

Da Buati ng MAHI MAHI sa tanawin ang buhat na mga tanawin ng mga tanawin sa buhat ng MAHI MAHI

JAWA PUNOHAN AUCTION SALE

- No. 17 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 18 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 19 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 20 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 21 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
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- No. 48 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 49 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)
- No. 50 Public Market, Marikina, Laguna, Marikina City (1000 N.I.)

LANTIZA & SONS Auctioneers

Broccoli sprout compound may restore brain chemistry imbalance linked to schizophrenia

In a series of recently published studies using animals and people, Johns Hopkins Medicine researchers say they have further characterized a set of chemical imbalances in the brains of people with schizophrenia related to the chemical glutamate. And they figured out how to tweak the level using a compound derived from broccoli sprouts.

They say the results advance the hope that supplementing with broccoli sprout extract, which contains high levels of the chemical sulforaphane, may someday provide a way to lower the doses of traditional antipsychotic medicines needed to manage schizophrenia symptoms, thus reducing unwanted side effects.

It's possible that future studies could show sulforaphane to be a safe supplement to give people at risk of developing schizophrenia as a way to prevent, delay or blunt the onset of symptoms," adds Akira Sawa, M.D., Ph.D., professor of psychiatry and behavioral sciences at the Johns Hopkins University School of Medicine and director of the Johns Hopkins Schizophrenia Center. Schizophrenia is marked by hallucinations, delusions and disordered thinking, feeling, behavior, perception and speaking. Drugs used to treat schizophrenia don't work completely for everyone, and they can cause a variety of undesirable side effects, including metabolic problems increasing cardiovascular risk, involuntary movements, restlessness, stiffness and "the shakes."

In a study described in the Jan. 9 edition of the journal JAMA Psychiatry, the researchers looked for differences in brain metabolism between people with schizophrenia and healthy controls. They recruited 81 people from the Johns Hopkins Schizophrenia Center within 24 months of their first psychotic episode, which can be a characteristic symptom of schizophrenia, as well as 91 healthy controls from the community. The participants were an average of 22 years old, and 58% were men.

The researchers used a powerful magnetic resonance spectroscopy (MRS) data identified individual chemical metabolites and their quantities. The researchers found on average 4% significantly lower levels of the brain chemical glutamate in the anterior cingulate cortex region of the brain in people with psychosis compared to healthy people. Glutamate is known for its role in sending messages between brain cells, and has been linked to depression and schizophrenia, so these findings added evidence that glutamate levels have a role in schizophrenia.

Wireless movement-tracking system could collect health and behavioral data

We live in a world of wireless signals flowing around us and bouncing off our bodies. MIT researchers are now leveraging those signal reflections to provide scientists and caregivers with valuable insights into people's behavior and health.

The system, called Marko, transmits a low-power radio-frequency (RF) signal into an environment. The signal will return to the system with certain changes if it has bounced off a moving human. Novel algorithms then analyze those changed reflections and associate them with specific individuals.

The system then traces each individual's movement around a digital floor plan. Matching these movement patterns with other data can provide insights about how people interact with each other and the environment.

In a paper presented at the Conference

on Human Factors in Computing Systems last week, the researchers describe the system and its real-world use in six locations: two assisted living facilities, three apartments inhabited by couples, and one townhouse with four residents. The case studies demonstrated the system's ability to distinguish individuals based solely on wireless signals — and revealed some useful behavioral patterns.

In one assisted living facility, with permission from the patient's family and caregivers, the researchers monitored a patient with dementia who would often become agitated for unknown reasons. Over a month, they measured the patient's increased pacing between areas of their unit — a known sign of agitation. By matching increased pacing with the visitor log, they determined the patient was agitated more during the days

following family visits. This shows Marko can provide a new, passive way to track functional health profiles of patients at home, the researchers say.

These are interesting bits we discovered through data," says first author Chen-Yu Hsu, a PhD student in the Computer Science and Artificial Intelligence Laboratory (CSAIL). "We live in a sea of wireless signals, and the way we move and walk around changes these reflections. We developed the system that listens to those reflections — to better understand people's behavior and health."

The research is led by Dina Katabi, the Andrew and Erna Viterbi Professor of Electrical Engineering and Computer Science and director of the MIT Center for Wireless Networks and Mobile Computing (Wireless@MIT). Joining Katabi and Hsu on the paper are CSAIL

graduate students Mingmin Zhao and Guang He, Lei and alumnus Rumun Hristov '16.

When deployed in a home, Marko shoots out an RF signal. When the signal rebounds, it creates a type of heat map cut into vertical and horizontal "frames," which indicates where people are in a three-dimensional space. People appear as bright blobs on the map. Vertical frames capture the person's height and build, while horizontal frames determine their general location. As individuals walk, the system analyzes the RF frames — about 30 per second — to generate short trajectories, called tracklets.

A convolutional neural network — a machine-learning model commonly used for image processing — uses those tracklets to separate reflections by certain individuals. For each individual it senses, the system creates two "filtering masks,"

which are small circles around the individual. These masks basically filter out all signals outside the circle, which locks in the individual's trajectory and height as they move. Combining all this information — height, build, and movement — the network associates specific RF reflections with specific individuals.

But to tag identities to those anonymous blobs, the system must first be "trained." For a few days, individuals wear low-powered accelerometer sensors, which can be used to label the reflected radio signals with their respective identities. When deployed in training, Marko first generates users' tracklets, as it does in practice. Then, an algorithm correlates certain acceleration features with motion features. When users walk, for instance, the acceleration oscillates with steps, but becomes a flat line when

they stop. The algorithm finds the best match between the acceleration data and tracklet, and labels that tracklet with the user's identity. In doing so, Marko learns which reflected signals correlate to specific identities.

The sensors never have to be charged, and, after training, the individuals don't need to wear them again. In home deployments, Marko was able to tag the identities of individuals in new homes with between 85 and 93 percent accuracy.

The researchers hope health care facilities will use Marko to passively monitor, say, how patients interact with family and caregivers, and whether patients receive medications on time. In an assisted living facility, for instance, the researchers noted specific times a nurse would walk to a medicine cabinet in a patient's room and then to the patient's bed.

What makes athletes report or hide concussion symptoms?

Whether or not an NCAA Division I athlete is likely to report concussion symptoms depends on factors including their vested interests, their understanding of health implications, and their team culture and societal influences drawn from narratives of performance circulating in media, according to a study published May 8, 2019 in the open-access journal PLOS ONE by Sarven Cozman of Arizona State University, USA, and colleagues.

Awareness of concussions as a problem in college sports, as well as the medical impacts of concussions, has increased in recent years. Because many symptoms are internal — such as difficulty thinking, blurry vision, and fatigue — athletes must recog-

nize and report symptoms for treatment to be effective. Current intervention efforts rely on athletes acting self-protectively in reporting concussion symptoms; however, leaders in collegiate sports, such as the NCAA, remain concerned about low rates of reporting.

In this study, 401 male and female athletes who played Division I football, soccer, basketball, wrestling, lacrosse, or field hockey at one of 11 participating universities in a Power 5 conference completed a web-based survey asking about their vested interests and risk perceptions related to concussions and severe head impacts. In addition, 90 qualitative interviews were conducted with athletes, coaching staff, and athletic

directors to determine organizational and team culture when it comes to concussion education, processes, and communication dynamics.

Overall, the survey data revealed that these athletes were uncertain if they would suffer negative consequences from severe head impacts and perceived that any that did arise would be in the distant future. All schools studied have both men's and women's basketball teams, and direct comparisons here showed that male basketball players viewed concussion risks as lower and as further in the future than female players. The interviews revealed that athletes rarely found concussion education memorable, and that coaches tended to be relatively

uninvolved in the education process. Athletes expressed that they weighed the costs and benefits of severe head impact reporting by considering not only health implications but impacts on their prospects as a team member and on their team as a whole, as well as possible undesirable reactions from teammates and coaches. Cultural narratives emphasizing performance and organizational culture promoting performance also tend to work against concussion reporting.

Athletes were recruited by availability rather than randomly sampled, and the study's reliance on qualitative methods and self-reporting risks bias in the collection and interpretation of results.

Advancing cell therapy for diabetes

A team of researchers led by Harvard University scientists has improved the laboratory process of converting stem cells into insulin-producing beta cells, using biological and physical expansion methods to enrich the proportion of beta cells in a sample. Their findings, published in the journal *Nature*, may be used to improve beta cell transplants for patients

with type 1 diabetes.

In 2014, Douglas Melton's lab showed for the first time that stem cells could be converted to functional beta cells, taking a step toward giving patients their own source of insulin. In that initial process, beta cells made up 30 percent of the final cell mixture.

To improve from 30 percent, we needed to really understand the other 70 percent of the resulting cells," said Adrian Vives, a graduate student in the Melton lab and lead author of the current study. "Until recently, we couldn't take a sample of our cells and ask what cell types were in them. Now, with the resolution in single-cell sequencing, we can go from nothing to the full list."

"We applied single-cell sequencing and molecular biology to describe the kinds of cells that we were able to make from stem cells. The beginning of manipulation is to always know what you're working with," said Melton, who is the Xander University Professor of Stem Cell and Regenerative Biology and co-director of the Harvard Stem Cell Institute.

Cells all contain the same set of genes, but cell types differ depending on which genes are active, or expressed. The researchers used single-cell sequencing to identify the full catalog of genes expressed in tens of thousands of individual cells. Then, they grouped the cells based on their expression patterns.

As expected, some of the cells had similar gene-expression patterns to cells that produce hormones in the human pancreas: glucagon-producing alpha cells and insulin-producing beta cells.

(Unexpectedly, the researchers also identified a new type of cell that makes the neurotransmitter serotonin.)

Creating a global map of the protein shape universe

Proteins can provide a detailed look inside the human body and how it protects itself from many diseases. Proteins, which make up about 15% of body mass, are the most abundant solid substances in the human body. They are important working molecules of the immune system, metabolism, brain function, body motion, and any physically and chemically functional parts in a body. Each protein has a specific function under the direction of its own gene.

Now, Purdue University researchers have come up with a novel way to classify proteins and their shapes, which lays the foundation of how we understand

protein structures and functions. The shapes are important because they determine the coils and effectiveness of the proteins. The research is published in the April edition of PLOS Computational Biology.

"We developed a new way to view and classify protein 3D shapes, which provides our basic understanding of protein shapes and will become a foundation of artificial protein design and other applications of proteins," said Daisuke Kihara, a professor of biological sciences and computer science in Purdue's College of Science, who leads the research team.

Kihara said proteins were conventionally classified by con-

formations of protein chains, a rather detailed level of structural features. They currently classify proteins by their overall surface shapes, which would be more directly relevant to how they interact with other proteins and compounds in a cell.

The Purdue team maps and classifies 3D surface shapes of proteins within a certain space inside the body. Surface shapes of proteins are represented with 3D Zernike descriptors, mathematical moment-based invariants, which have previously been demonstrated effective for biomolecular structure similarity search.

They also have analyzed the shape space occupied by protein complexes.

Intelligence can link to health and aging

For over 100 years, scientists have sought to understand what links a person's general intelligence, health and aging. In a new study, a University of Missouri scientist suggests a model where mitochondria, or small energy producing parts of cells, could form the basis of this link. This insight could provide valuable information to researchers studying various genetic and environmental influences

and alternative therapies for age-related diseases, such as Alzheimer's disease.

"There are a lot of hypotheses on what this link is, but no model to link them all together," said David Geary, Curators Distinguished Professor of Psychological Sciences in the MU College of Arts and Sciences. "Mitochondria produce cellular energy in the human body, and energy availability is the lowest

common denominator needed for the functioning of all biological systems. My model shows mitochondrial function might help explain the link between general intelligence, health and aging."

Geary's insight came as he was working on a way to better understand gender-specific vulnerabilities related to language and spatial abilities with certain prenatal and other stresses.



Q & A on Consumer Rights

Q:

PROBLEMA SA PRODUCT QUALITY AND SAFETY?

A:

WALA DAPAT!

MAY MGA QUALITY AT SAFETY STANDARDS UPANG MASIGURO ANG KALIGYASAN AT KASIVAHAN NG KONSUMER.

For inquiries and/or complaints visit the nearest DTI office in your area or call DTI Direct 751-3330 or 0917-834-3330.