

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

## Cavite checkpoints removed; cops focused on enforcing health protocols

Police checkpoints in Cavite have been dismantled to focus on law enforcement and enforcement of other health protocols, according to Gov. Jonvic Remulla.

"Kung inyong mapapansin ay tinanggal na ng [Philippine National Police] ang mga checkpoint na talaga namang nagiging sanhi ng malubhang traffic," said Remulla on a Facebook page last Aug. 10.

According to Remulla, the police will only focus on "appropriate things" such as visiting public vehicles for overcrowd-

ing, monitoring those who roam and litter the streets, and enforce the curfew and anti-drunk

driving law. The Department of the Interior and Local Government

had earlier ordered the laying down of border controls as part of the crackdown on

COVID-19. Although Cavite is one of the provinces with high COVID-19

cases, Remulla said the modified enhanced community quarantine  
**Turn to page 2**



## Dasma mayor thanks good Samaritan

The city government of Dasmariñas, Cavite gave due recognition to Paula Suyama for her help

to frontliners during the time of the pandemic. In a Facebook post recently, Mayor Jen-

ny Austria-Barzaga said Suyama demonstrated the meaning of "Bayanihan" after she lent for free her dormi-

tories to frontliners. "It is natural for Filipinos to help the needy, we refer to it as "Bayanihan".

But during this time of pandemic when everyone is affected, there are only a  
**Turn to page 2**

# DIYARYO KABITENYO

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ARNULFO BARCO

Publisher - Editor

GENER BARCO

Operations Manager

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## PAPI

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*(CAVITE... from page 1)*

(MECQ) in the province is sufficient instead of the more stringent ECQ. If Cavite is added to the ECQ, the assistance provided by the national government

*(DASMA... from page 1)*

few people who have more to share to those who have less. And it is only fitting to recognize these people who think for the betterment of others first than of themselves," Barzaga said. "We would like to share with you all that

will not be enough, said Renulla. The governor added that up to P1 billion will also be lost to Cavite's economy per day if it is put in the ECQ.

a good Samaritan, Ms. Paula Suyana, lent her dorms for our Frontliners to use. FOR FREE," the mayor added. "The City of Dasmariñas is very fortunate to be blessed with people like Ms. Suyana and we

# Metabolism changes with age, just not when you might think

Most of us remember a time when we could eat anything we wanted and not gain weight. But a new study suggests your metabolism, the rate at which you burn calories, actually peaks much earlier and starts its inevitable decline later than you might think.

The findings appear in the journal *Science*. "As we age, there are a lot of physiological changes that occur in the phases of our life such as during puberty and in menopause. What's odd is we couldn't thank her enough & her family for their generosity in times that we all need to stand together," Barzaga further said.

that the timing of our "metabolic life stages" doesn't appear to match the markers we associate with growing up and getting older," said study co-author Jennifer Rood, PhD, Associate Executive Director for Core and Resources at Pennington Biomedical Research Center.

Four Pennington Biomedical researchers were part of an international team of scientists who analyzed the average calories burned by more than 6,600 people as they went about their daily lives. The participants' ages ranged from one week old to 95 years, and they lived in 29 different countries. The other Pennington Biomedical scientists are Peter Kozma, PhD,

Associate Executive Director for Population and Public Health Sciences; Corby Martin, PhD, Professor and Director, Ingestive Behavior Laboratory; and Eric Ravussin, PhD, Associate Executive Director for Clinical Science.

Most previous large-scale studies measured how much energy the body uses for basic vital functions — breathing, digesting, and pumping blood — the calories you need just to stay alive. But basic functions account for just 50 percent to 70 percent of the calories we burn each day. They don't include the energy we spend doing everything else: washing the dishes, walking the dog,

breaking a sweat at the gym, even just thinking or fidgeting.

To come up with a number for total daily energy expenditure, the researchers turned to the "doubly labeled water" method.

It's a urine test that involves having a person drink water in which the hydrogen and oxygen in the water molecules have been replaced with naturally occurring "heavy" forms, and then measures how quickly they're flushed out.

Scientists have used the technique — considered the gold standard for measuring daily energy expenditure during normal daily life outside of the lab — to measure energy expenditure in humans since the 1980s.

REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARTIRES CITY  
HOME DEVELOPMENT MUTUAL FUND  
Mortgages  
FORECLOSURE CASE NO. F-408-18

ANTONIO R. LAVINO  
married to SOPHIA B. LAVINO  
Mortgagee/s

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Partition for Sale under Act 3325, as amended by Act 4118, filed by Mortgagee, HOME DEVELOPMENT MUTUAL FUND, with business address at 12<sup>th</sup> Floor JELF Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee/s, ANTONIO R. LAVINO married to SOPHIA B. LAVINO 408 residence and postal address #1345, ORRERO ST., PANDACAN, MANILA, AND LOT 18, BLOCK 2, PHASE 2, LA PAZ HOMES, CABEZAS, TRICE MARTIRES CITY, CAVITE to satisfy the mortgage indebtedness which as of 30 September 2018 amounts to TWO MILLION FIVE HUNDRED NINETY SEVEN THOUSAND ONE HUNDRED THIRTY PESOS AND 22/100 (P2,977,130.21), Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set at public auction on **September 30, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trice Martires City, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE NO. T-2841**

A parcel of land (Lot 18, Blk. 2) of the subdivision plan, Pgd-04212-089255, being a portion of the zone of Lot 1, s73, Blk. 2c, 1st St. 30, Blk. 27, 1st St. 22, Blk. 28, RA Lot 29 & 30, Pgd-04-2221-033618, situated in the Bg. of Cabezan, Mut. of Trice Martires, Prov. of Cavite, Is. of Luzon. Bounded on the SW, along line 1-2 by Lot 17, Blk. 2; on the NW, along line 2-3 by Lot 20, Blk. 2; on the NE, along line 3-4 by Rd. Lot 1 (8.2 m. wide); & on the SE, along line 4-1 by Lot 18, Blk. 2, all of the subdiv. plan. Beginning at a pt. marked "1" in plan s s x x, comprising an area of ONE HUNDRED EIGHTYSEVEN (114) SQ. METERS s s x x.

All sealed 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 **October 07, 2021** without further notice.

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

Trice Martires City, **July 27, 2021.**

(Sgd.) LUCIO C. ALEJO III  
Sheriff IV

Copy Furnished:

HOME DEVELOPMENT MUTUAL FUND  
12<sup>th</sup> Floor, JELF Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

ANTONIO R. LAVINO married to SOPHIA B. LAVINO  
#1345, ORRERO ST., PANDACAN, MANILA  
AND LOT 18, BLOCK 2, PHASE 2, LA PAZ HOMES,  
CABEZAS, TRICE MARTIRES CITY, CAVITE

WARNING: It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale on or before the date of sale.

Publication: DIYARYO KABITENYO  
Dates: August 2, 9 & 16, 2021

REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARTIRES CITY  
HOME DEVELOPMENT MUTUAL FUND  
Mortgages  
FORECLOSURE CASE NO. F-415-18

RUBEN A. PARABEZA  
married to VICTORIA NENTIA PARABEZA  
Mortgagee/s

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Partition for Sale under Act 3325, as amended by Act 4118, filed by Mortgagee, HOME DEVELOPMENT MUTUAL FUND, with business address at 12<sup>th</sup> Floor JELF Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee/s, RUBEN A. PARABEZA married to VICTORIA NENTIA PARABEZA with address and postal address at BLOCK 3, LOT 18, 12-29 STREET VILLAMOR ABJ BASE, PASAY CITY, AND LOT 2, BLOCK 5, EDJICO SUBDIVISION, SAN AUGUSTIN, TRICE MARTIRES CITY, CAVITE to satisfy the mortgage indebtedness which as of 30 October 2018 amounts to SEVEN HUNDRED SIXTY SIX THOUSAND ONE HUNDRED SEVENTY FOUR PESOS AND 13/100 (P766,174.00), Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set at public auction on **September 30, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trice Martires City, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE NO. T-3305D**

A parcel of land (Lot 2, Blk. 5) of the subdiv. plan Pgd-040501, being a portion of Lot 218-New S.C.M. Estate, LRC Reg. No. 1, situated in the Bg. of Taguig, City of Trice Martires, Is. of Luzon. Bounded on the SE, along line 1-2 by Lot 254, S.C. M. Estate (on the SW, along line 2-3 by Lot 1, Blk. 5; on the NW, along line 3-4 by Road Lot 2 (8.00 m. wide); on the NE, along line 4-1 by Lot 1, Blk. 5, all of the subdiv. plan. Beginning at a pt. marked "1" on plan s s x x containing an area of ONE THOUSAND (100) SQ. METERS s s x x.

All sealed 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 **October 07, 2021** without further notice.

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

Trice Martires City, **July 27, 2021.**

(Sgd.) LUCIO C. ALEJO III  
Sheriff IV

Copy Furnished:

HOME DEVELOPMENT MUTUAL FUND  
12<sup>th</sup> Floor, JELF Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

RUBEN A. PARABEZA  
married to VICTORIA NENTIA PARABEZA  
BLOCK 3, LOT 18, (12-29 S) KELL VILLAMOR ABJ BASE,  
PASAY CITY  
AND LOT 2, BLOCK 5, EDJICO SUBDIVISION, SAN  
AUGUSTIN, TRICE MARTIRES CITY, CAVITE

WARNING: It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale on or before the date of sale.

Publication: DIYARYO KABITENYO  
Dates: August 2, 9 & 16, 2021

REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARTIRES CITY  
HOME DEVELOPMENT MUTUAL FUND  
Mortgages  
FORECLOSURE CASE NO. F-408-18

ELIZABETH G. DOTOLLO  
Mortgagee/s

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Partition for Sale under Act 3325, as amended by Act 4118, filed by Mortgagee, HOME DEVELOPMENT MUTUAL FUND, with business address at 12<sup>th</sup> Floor JELF Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee/s, ELIZABETH G. DOTOLLO with residential and postal address No. 2976, DLT 36, TAYTAY AVE., PASAY CITY, METRO MANILA, AND LOT 30, BLOCK 125, PHASE 4, MARY CRIS COMPLEX, ALANG-ALANG, GEN. TRIAS, CAVITE to satisfy the mortgage indebtedness which as of 30 October 2017 amounts to FIVE HUNDRED ELEVEN THOUSAND NINE HUNDRED TWENTY EIGHT PESOS AND 78/100 (P51,928.78), Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set at public auction on **September 30, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trice Martires City, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE NO. T-366992**

A parcel of land (Lot 30, Block 125) of the subdivision plan Pgd-04-093013, being a portion of Lot 2333 SFD Malabon Est., situated in the Bg. of Alang-Alang, municipality of Gen. Trias, province of Cavite, island of Luzon. Bounded on the SW, along line 1-2 by Lot 13, Block 125, on the NW, along line 2-3 by Lot 31, Block 125, on the NE, along line 3-4 by Lot 16, Block 125, on the SE, along line 4-1 by Lot 28, Block 125, all of the subdivision plan. Beginning at a point marked "1" on plan s s x x containing an area of THIRTY SIX (36) SQUARE METERS s s x x.

All sealed 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 **October 07, 2021** without further notice.

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

Trice Martires City, **July 27, 2021.**

(Sgd.) LUCIO C. ALEJO III  
Sheriff IV

Copy Furnished:

HOME DEVELOPMENT MUTUAL FUND  
12<sup>th</sup> Floor, JELF Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

ELIZABETH G. DOTOLLO  
No. 2976, DLT 36, TAYTAY AVE., PASAY CITY, METRO MANILA  
AND LOT 30, BLOCK 125, PHASE 4 MARY CRIS COMPLEX,  
ALANG-ALANG, GEN. TRIAS, CAVITE

WARNING: It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale on or before the date of sale.

Publication: DIYARYO KABITENYO  
Dates: August 2, 9 & 16, 2021



REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARTIRES CITY

HOME DEVELOPMENT MUTUAL FUND,  
Mortgagee.

FORECLOSURE CASE NO. F-876-18

versus  
JONATHAN H. ARRO  
Mortgagee.

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Petition for Sale under Act 3115, as amended by Act 4118, filed by Mortgagee, HOME DEVELOPMENT MUTUAL FUND, with business address at 12<sup>th</sup> Floor, JLP Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee, JONATHAN H. ARRO with residence and postal address LOT 24, BLOCK 19, MONTREAL STREET, GREEN BREEZES SUBDIVISION, LANGKAAN DAMARINAS, CAVITE, AND LOT 25, BLOCK 10, PHASE 2, SUMMERSFIELD SUBDIVISION, ORORIO, TRICE MARTIRES CITY, CAVITE, to satisfy the mortgage indebtedness which as of 25-October 2017 amounts to TWO HUNDRED SEVENTY TWO THOUSAND FIVE HUNDRED TWENTY TWO PESOS AND 48/100 (P272,522.48), Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set a public auction on **September 26, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, Trice Martires City, to the highest bidder by CASH and in Philippine Currency, the following described property, with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE NO. 877-304880015**

A parcel of land (Lot 25, Blk. 10 of the sum./subd. plan Pcs-04-01-2008, being a portion of the same of lots 7-14, Blk. 7, Lots 1, 2, 4 & 7, Blk. 10, Lots 1-14, Blk. 11, Lot 1-15, Blk. 12, Lot 1-37, Blk. 13, Lots 1-42, Blk. 13-A, Lots 25-239, Blk. 15, Lot 1-43, Blk. 19, Lot 1-30, Blk. 20, Lot 1-20, Blk. 22, Lot 1-13, Blk. 23, Lot 1-10, Blk. 24, Lot 1-10, Blk. 25, 6d, Lot 20-13, 8d, Lots 15-16, Alloys 1, 8, 9, 13-17, 20-25, Cook Lots 1-4, Damasco Lot Pcs-04-09-0394, LRC Ent. No. 3) situated in the Reg. of Deeds, Man. of Trice Martires, Prov. of Cavite, is of Lot 25, bounded on the NW, along line 1-2 by Lot 20, on the NE, along line 2-3 by Lot 23, both of Blk. 10, on the SE, along line 3-4 by Alty Lot 6 (1.00 m. wide) on the SW, along line 4-1 by Lot 25, Blk. 10, all of the sum./subd. plan. Represented at a pt. marked "17" on plan xxx containing an area of 31,827.5 SQ. METERS x s s

All sealed 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 **October 07, 2021** without further notice.

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

Trice Martires City, **July 23, 2021.**  
(Sgd.) **LUCIO C. ALJAO III**  
Sheriff IV

Copy Furnished:  
**HOME DEVELOPMENT MUTUAL FUND**  
12<sup>th</sup> Floor, JLP Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

**JONATHAN H. ARRO**  
LOT 24, BLOCK 19, MONTREAL STREET, GREEN BREEZES SUBDIVISION, LANGKAAN DAMARINAS, CAVITE AND LOT 25, BLOCK 10, PHASE 2, SUMMERSFIELD SUBDIVISION, OSORIO, TRICE MARTIRES CITY, CAVITE

**WARNING:** It is absolutely prohibited to remove, deface or destroy the Notice of Extra-Judicial Sale on or before the date of sale.

Publication: **DIWARYO KABITENYO**  
Date: August 2, 8 & 16, 2021

REPUBLIC OF THE PHILIPPINES  
FOURTH JUDICIAL REGION  
REGIONAL TRIAL COURT  
OFFICE OF THE CLERK OF COURT  
TRICE MARTIRES CITY

BDO UNIBANK, INC.,  
Mortgagee.

Foreclosure Case No. F-434-24

versus  
ALEX Z. PADILLA,  
Mortgagee.

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Petition for Sale under Act 3115, as amended by Act 4118, filed by Mortgagee, BDO UNIBANK, INC., with business address at BDO Corporate Center, 7099 Makati Avenue, Makati City against the Mortgagee, ANALEJE ZAFI PADILLA AS ATTORNEY-IN-FACT OF ALEX Z. PADILLA, with residence and postal address at (1) 1410 Barrameda St., Home Living Subd., Div. Bldg., Paragon City and (2) Blk. 3, Lot 39 Ph 3, Kasinggan, Nativum, Gen. Trias City, Cavite, to satisfy the mortgage indebtedness as of 31 January 2021, amounts to ONE MILLION TWO HUNDRED FIFTY THREE THOUSAND ONE HUNDRED SEVENTY TWO PESOS AND 41/100 (P1,253,172.41), Philippine Currency, including interest, penalties, and other charges as of said date but exclusive of all the other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set a public auction on **October 07, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Bldg. located at the Provincial Capitol Compound, Trice Martires City, to the highest bidder by CASH and in Philippine Currency the following described property with all the improvements thereon, to wit:

**TRANSFER CERTIFICATE OF TITLE NO. 877-304880007**

LOT NO. 39 BLOCK NO. 3 PLAN NO. PCS-04-027577 PORTION OF LOTS 1829, 2040, (RS-04-002447) & LOT 1654 (RS-04-002355) ALL OF SAN FRANCISCO DE MALABON ESTERO, DECK NO. 4270, LRC REC. NO. 2964 LOCATION: BAKANGAYAN OF NAVARRO MUNICIPALITY OF GEN. TRIAS, PROVINCE OF CAVITE, ISLAND OF LUZON

**BOUNDARIES:**  
LINE DIRECTION ADJOINING LOTS/1  
1-2 SW LOT 4, BLOCK 3, PCS-04-027577  
2-3-4-5 NW NE ROAD LOT 4, PCS-04-027575  
5-1 SE LOT 37, BLOCK 3, PCS-04-027575

AREA: SEVENTY SEVEN SQUARE METERS (77.00) MORE OR LESS

All sealed 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 **October 14, 2021** without further notice.

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

Trice Martires City, **July 23, 2021.**  
(Sgd.) **REYNALDO L. SALDOMA**  
Sheriff IV

Copy Furnished:  
**BDO UNIBANK, INC.**  
8888 MANAGEMENT CENTER 9 RESIDENTIAL MANAGEMENT UNIT  
11<sup>th</sup> Floor, BDO South Tower, BDO Corporate Tower  
7099 Makati Avenue, Makati City 0726

**ANALEJE ZAFI PADILLA AS ATTORNEY-IN-FACT OF ALEX Z. PADILLA**

(1) 1410 Barrameda St., Home Living Subd., Div. Bldg., Paragon City  
(2) Blk. 3, Lot 39 Ph 3, Kasinggan, Nativum, Gen. Trias City, Cavite

**WARNING:** IT IS ABSOLUTELY PROHIBITED TO REMOVE, DEFACE OR DESTROY THIS NOTICE OF EXTRA-JUDICIAL SALE ON OR BEFORE THE DATE OF SALE.

Publication: **DIWARYO KABITENYO**  
Date: August 2, 9 & 16, 2021

REPUBLIC OF THE PHILIPPINES  
REGIONAL TRIAL COURT  
FOURTH JUDICIAL REGION  
BRANCH 33  
TRICE MARTIRES CITY

IN RE: TESTATE ESTATE OF DANIEL CONGCON, SR. and ROMANA BELTRAN CONGCON.

RE PROC. CASE NO. 2018-01-17 FOR PETITION FOR ISSUANCE OF LETTERS OF ADMINISTRATION

**REYNALDO CONGCON,**  
Petitioner.

**ORDER**

A verified petition for Intestate Estate of DANIEL CONGCON, SR. and ROMANA BELTRAN CONGCON, dated June 1, 2017, was filed by the petitioner.

Finding the aforementioned petition to be sufficient in form and substance, the same is hereby set for initial hearing on **November 12, 2021** at 9:30 in the morning, when any and all parties interested may appear to be heard.

Let copy of this order be published in a newspaper of general circulation once a week for three (3) consecutive weeks in the region of the petitioner and posted at the Bulletin Board of Government Center Building, Trice Martires City, Public Market, Municipal and Barangay Hall of Municipality of Trias, Province of Cavite and other copies be furnished the Office of the Solicitor General, Office of the Provincial Prosecutor, petitioner and his counsel.

Accordingly, the petitioner or his/her duly authorized representatives is hereby allowed to immediately coordinate with the sheriff of this Court on requests for the posting of this Order.

**SO ORDERED.**  
Trice Martires City, Cavite, June 17, 2021.  
(Sgd.) **PURIFICACION A. BAKING TEVEA**  
Presiding Judge

Copy furnished:  
**Atty. Edgardo C. Soriano**  
**SORIANO AND TELEBRICO LAW OFFICE**  
Room 405 Imperial Palace Towers  
Triang Ave., corner Trias Martires  
Quezon City

**Reynaldo Congcon**  
via Atty. Edgardo C. Soriano  
**SORIANO AND TELEBRICO LAW OFFICE**  
Room 405 Imperial Palace Towers  
Triang Ave., corner Trias Martires  
Quezon City

**Office of the Solicitor General**  
134 Americas St., Lingap Village  
Makati City 1229

Publication: **DIWARYO KABITENYO**  
Date: August 2, 9 & 16, 2021

**EXTRAJUDICIAL SETTLEMENT OF ESTATE OF THE DECEASED SPOUSES BENITO TORREVILLA TREDAS AND EVANGELINE SUMUGAT TREDAS**

NOTICE is hereby given that the estate of the deceased **BENITO TORREVILLA TREDAS and EVANGELINE SUMUGAT TREDAS** who both died testate on August 13, 2019 in Manila and on August 24, 2018 at Bacoor City, Cavite, respectively,

consisting of the following described properties:

- I. SAVINGS ACCOUNT NO. 00-5-01321-651-1, Development Bank of the Philippines, Bacoor Branch with a balance of P94,792.92 as of June 30, 2021;
- II. SAVINGS ACCOUNT NO. 00-5-01321-651-3, Development Bank of the Philippines, Bacoor Branch with a balance of P41,913.39 as of June 30, 2021;
- III. TCT-80, T-36040-REGISTRY OF DEEDS FOR PROVINCE OF CAVITE (with improvements)

A parcel of land situated in the Bn. of Marilag, Mun. of Bacoor, Prov. of Cavite, containing an area of ONE HUNDRED SEVENTY ONE (171) SQ. METERS

has been adjudicated and extrajudicially settled by and between their heirs in equal shares pro indiviso on July 30, 2021 in the City of Imus, Cavite before Notary Public Any. Carlos Emmanuel X. Mendoza and entered in his Notarial Register as Doc. No. 403, Page No. 95, Book No. XI, Series of 2021.

(Sgd.) Both Heirs

PUBLICATION: DIYARYO KABITENYO  
Dates: August 2, 9 & 16, 2021

## Red blood cell alterations contribute to lupus

The autoimmune disease, disease lupus may be triggered by a defective process in the development of red blood cells of lupus patients, making red blood cells to fail to get rid of their mitochondria -- tiny molecular reactors that help convert oxygen into chemical energy in most cell types, but are normally excluded from red blood cells.

The researchers, who published their findings August 11 in *Cell*, found that in a number of lupus patients, maturing red blood cells fail to get rid of their mitochondria -- tiny molecular reactors that help convert oxygen into chemical energy in most cell types, but are normally excluded from red blood cells.

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

**HOME DEVELOPMENT MUTUAL FUND, Mortgagee,**  
**FORECLOSURE CASE NO. F-2019-09**

**JUNA M. TRUGILLO, Mortgagee**

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Partition for Sale under Act 3135, as amended by Act 4118, filed by Mortgagee, **HOME DEVELOPMENT MUTUAL FUND**, with business address at 127 Floor JELP Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee, **JUNA M. TRUGILLO** with residence and postal address 196 Parak 5, Floodway, Mt. Lavin, Pasig City and Lot 26, Bk. 137, Pal-04-09960, Cf. Tarea Phase 7, Bu. Punta, Tanon, Cavite to satisfy the mortgage indebtedness which as of **09 August 2005** amounts to **TWO HUNDRED THIRTEEN THOUSAND FOUR HUNDRED TEN PESOS AND 41/100 (P213,400.00)**, Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set at public auction on **September 26, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, **Trinidad City**, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to-wit:

**TRANSFER CERTIFICATE OF TITLE NO. T-760512**

A PARCEL OF LAND (Lot 26, Bk. 137, of the subdiv. plan, Pal-04-09960) being a portion of Lot 2700, Sta. Cruz de Malabon Estate (Rz-04-00222) (L.R.O. Bureau No. 6832) situated in Brgy. of Punta, Mun. of Tanon, Prov. of Cavite, Island of Luzon. Bounded on the SW, along line 1-2 by lot 25, on the NW, along line 2-3 by lot 24, both of Bk. 137, of the subdiv. plan; on the NE, along line 1-4 by Alley 109 and on the SE, along line 4-1 by lot 28, both, 137, all of the subdiv. plan. Beginning at a point marked "1" on plan xxx containing an area of **THIRTY THREE (33) SQ. METERS** more or less xxx.

All sealed bids may 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 **October 27, 2021** without further notice.

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

Trinidad-Morone City, **August 03, 2021.**  
**(Sgd.) LUCIO C. ALEJO III**  
Sheriff IV

Copy Furnished:  
**HOME DEVELOPMENT MUTUAL FUND**  
127 Floor, JELP Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

**JUNA M. TRUGILLO**  
196 Parak 5, Floodway, Sta. Lavin, Pasig City  
and Lot 26, Bk. 137, Pal-04-09960, Cf. Tarea Phase 7, Bu. Punta, Tanon, Cavite

**WARNING:** It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale now or before the date of sale.

PUBLICATION: DIYARYO KABITENYO  
Dates: August 9, 16 & 23, 2021

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

**HOME DEVELOPMENT MUTUAL FUND, Mortgagee,**  
**FORECLOSURE CASE NO. F-2019-16**

**SPOUSES HOMER L. VALLE and ROMELYN SUAVAN VALLE, Mortgagees**

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-Judicial Partition for Sale under Act 3135, as amended by Act 4118, filed by Mortgagee, **HOME DEVELOPMENT MUTUAL FUND**, with business address at 127 Floor JELP Business Solution Center, No. 409 Shaw Boulevard, Mandaluyong City, against the Mortgagee, **SPOUSES HOMER L. VALLE and ROMELYN SUAVAN VALLE** with residence and postal address 441 F. POLILLIO ST., PITOGO, MAKATI CITY, AND LOT 72, BLOCK 30, COUNTRY MEADOWS, ELANG, GENERAL TRIAS, CAVITE to satisfy the mortgage indebtedness which as of **23 June 2016** amounts to **FOUR HUNDRED THIRTY FIVE THOUSAND FIVE HUNDRED SIXTY PESOS AND 50/100 (P435,560.50)**, Philippine Currency, including interest, penalties and other charges as of said date but exclusive of all other expenses incidental to this foreclosure and sale, the undersigned Sheriff will set at public auction on **September 30, 2021** at 10:00 o'clock in the morning at the main entrance of the Government Center Building located at the Provincial Capitol Compound, **Trinidad City**, to the highest bidder for CASH and in Philippine Currency, the following described property with all the improvements thereon, to-wit:

**TRANSFER CERTIFICATE OF TITLE NO. T-760116**

A parcel of land (Lot 72 of the subdiv. plan, Pal-04-012817, being a portion of Lots 2-28, Bk. 30, Pal-042108-078214, L.R.C. No. 3, ss. by Reg. Clng. Mun. of Cavite, Tanon, Prov. of Cavite, Is. of Luzon. Bounded on the SW, along line 1-2 by Road 12, Pal-042108-078214; on the NW, along line 2-3 by Lot 73 of the subdiv. plan, on the NE, along line 3-4 by Bk. 31, Pal-042108-078214; and on the SE, along line 4-1 by Lot 71 of the subdiv. plan. Beginning at a pt. marked "1" on plan xxx containing an area of **THIRTY FIVE (35) SQUARE METERS** xxx.

All sealed bids may 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 **October 27, 2021** without further notice.

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

Trinidad-Morone City, **August 03, 2021.**  
**(Sgd.) LUCIO C. ALEJO III**  
Sheriff IV

Copy Furnished:  
**HOME DEVELOPMENT MUTUAL FUND**  
127 Floor, JELP Business Solution Center,  
No. 409 Shaw Boulevard, Mandaluyong City

**SPOUSES HOMER L. VALLE and ROMELYN SUAVAN VALLE**  
441 F. POLILLIO ST., PITOGO, MAKATI CITY,  
AND LOT 72, BLOCK 30, COUNTRY MEADOWS, ELANG, GENERAL TRIAS, CAVITE

**WARNING:** It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale now or before the date of sale.

PUBLICATION: DIYARYO KABITENYO  
Dates: August 9, 16 & 23, 2021







Form 28 (Revised June 2014)

**IMUS RURAL BANK, INC.**  
Name of Bank

**PUBLISHED BALANCED SHEET**  
(Head Office and Branches)  
As of December 31, 2020  
**CONTROL PROOFLIST**

	Account Code	Current Quarter	Previous Quarter
Cash and Cash Items	1080000000000000	13,079,079.73	13,517,778.42
Due from Bangko Sentral ng Pilipinas	1051500000000000	32,711,019.39	32,817,431.61
Due from Other Banks	1052000000000000	504,000,137.96	504,228,228.71
Financial Assets at Fair Value through Profit or Loss	1120000000000000	0.00	0.00
Available-for-Sale Financial Assets-Net	1352000000000000	0.00	0.00
Hold-to-Maturity (HTM) Financial Assets-Net	1353000000000000	368,188,470.88	367,996,022.40
Unquoted Debt Securities Classified as Loans-Net	1354000000000000	0.00	0.00
Investments in Non-Marketable Equity Security-Net	1355000000000000	0.00	0.00
Loans and Receivables - Net	1356000000000000	288,538,525.51	297,026,397.88
Other Financial Assets	1480000000000000	4,224,927.88	550,380.88
Equity Investment in Subsidiaries, Associates and Joint Ventures-Net	1354525000000000	0.00	0.00
Bank Premises, Furniture, Fixture and Equipment-Net	1355005000000000	28,743,474.93	24,938,083.58
Real and Other Properties Acquired-Net	1355100000000000	12,278,396.50	13,313,853.10
Non-Current Assets Held for Sale	1301500000000000	0.00	0.00
Other Assets-Net	1370000000000000	23,297,723.29	20,823,612.72
Net Due from Head Office/Branches/Agencies, if any (Phil. branch of a foreign bank)	1572500000000000	0.00	0.00
<b>TOTAL ASSETS</b>	1000000000000000	3,279,188,948.71	3,279,385,752.93
Financial Liabilities at Fair Value through Profit or Loss	2080000000000000	0.00	0.00
Deposit Liabilities	2150000000000000	1,068,583,381.71	1,064,306,920.79
Due to Other Banks	2200500000000000	0.00	0.00
Bills Payable	2201000000000000	0.00	0.00
Bonds Payable-Net	2952015000000000	0.00	0.00
Unsecured Subordinated Debt-Net	2952020000000000	0.00	0.00
Redeemable Preferred Shares	2202500000000000	0.00	0.00
Special Time Deposit	2203000000000000	0.00	0.00
Due to Bangko Sentral ng Pilipinas	2303500000000000	0.00	0.00
Other Financial Liabilities	2400500000000000	1,447,462.12	1,214,395.32
Other Liabilities	2402000000000000	23,999,517.68	14,343,838.70
Net Due to Head Office/Branches/Agencies (Philippine branch of a foreign bank)	2308500000000000	0.00	0.00
<b>TOTAL LIABILITIES</b>	2000000000000000	1,092,582,961.51	1,079,965,154.81
<b>TOTAL STOCKHOLDERS' EQUITY</b>	3000000000000000	185,963,787.12	194,502,499.14
<b>TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY</b>	3000000000000000	3,279,188,948.71	3,279,385,752.93
<b>TOTAL CONTINGENT LIABILITIES</b>	4000000000000000	0.00	0.00
<b>ADDITIONAL INFORMATION</b>			
Gross total loan portfolio (TLP)	4990200000000000	313,707,404.33	314,284,538.80
Specific allowance for credit losses on the TLP	4993000000000000	25,424,128.54	15,742,917.19
Non-Performing Loans (NPLs)			
a. Gross NPLs	4991000000000000	14,147,349.47	10,082,985.19
b. Ratio of gross NPLs to gross TLP (%)	4991050000000000	4.49%	3.20%
c. Net NPLs	4992100000000000	3,906.88	2,268,798.44
d. Ratio of Net NPLs to gross TLP (%)	4992150000000000	0.00%	0.72%
e. Ratio of total allowance for credit losses to gross NPLs (%)	4992150000000000	185.7%	177.21%
f. Ratio of specific allowance for credit losses on the gross TLP to gross NPLs (%)	4991500000000000	180.8%	156.13%
Capital Adequacy Ratio (CAR) on Solo Basis, as prescribed under existing regulations			
a. Total CAR (%)	4996300000000000	38.80	23.06
b. Tier 1 Ratio (%)	4996300000000000	185.3%	189.50
c. Common Tier 1 Ratio (%) <sup>U</sup>	4996300000000000	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. Triona*  
**OSCAR F. TRIONA**  
President





Form 28 (Revised June 2014)

**IMUS RURAL BANK, INC.**  
Name of Bank

**PUBLISHED BALANCED SHEET**  
(Head Office and Branches)  
As of March 31, 2021

**CONTROL PROOFLIST**

	Account Code	Current Quarter	Previous Quarter
Cash and Cash Items	10800000000000000000	14,082,544.71	23,073,123.21
Due from Bangko Sentral ng Pilipinas	10515000000000000000	52,731,019.39	52,731,019.39
Due from Other Banks	10520000000000000000	514,542,841.94	508,003,285.72
Financial Assets at Fair Value through Profit or Loss	11200000000000000000	0.00	0.00
Available-for-Sale Financial Assets-Net	10520000000000000000	0.00	0.00
Held-to-Maturity (HTM) Financial Assets-Net	10525000000000000000	358,483,082.77	368,169,470.88
Unquoted Debt Securities Classified as Loans-Net	10520000000000000000	0.00	0.00
Investments in Non-Marketable Equity Security-Net	10535000000000000000	0.00	0.00
Loans and Receivables - Net	10540000000000000000	237,978,385.40	288,589,525.51
Other Financial Assets	14800000000000000000	404,729.07	4,224,827.64
Equity Investment in Subsidiaries, Associates and Joint Ventures-Net	10545250000000000000	0.00	0.00
Bank Premises, Furniture, Fixtures and Equipment-Net	10550000000000000000	27,876,017.86	28,745,674.33
Real and Other Properties Acquired-Net	10552000000000000000	12,242,941.90	12,378,396.50
Non-Current Assets Held for Sale	15015000000000000000	0.00	0.00
Other Assets-Net	15200000000000000000	23,833,030.85	23,237,723.25
Net Due from Head Office/Branches/Agencies, if any (Phil. branch of a foreign bank)	15525000000000000000	0.00	0.00
<b>TOTAL ASSETS</b>	10800000000000000000	1,328,224,543.77	1,378,983,926.40
Financial Liabilities at Fair Value through Profit or Loss	20800000000000000000	0.00	0.00
Deposit Liabilities	21500000000000000000	1,117,445,590.65	1,068,511,578.08
Due to Other Banks	22000000000000000000	0.00	0.00
Bills Payable	22010000000000000000	0.00	0.00
Bonds Payable-Net	20520150000000000000	0.00	0.00
Unsecured Subordinated Debt-Net	20520200000000000000	0.00	0.00
Redeemable Preferred Shares	20521000000000000000	0.00	0.00
Special Time Deposit	20523000000000000000	0.00	0.00
Due to Bangko Sentral ng Pilipinas	23015000000000000000	0.00	0.00
Other Financial Liabilities	24000000000000000000	810,274.43	1,447,862.13
Other Liabilities	24010000000000000000	22,513,237.50	21,999,517.66
Net Due to Head Office/Branches/Agencies (Philippine branch of a foreign bank)	23015000000000000000	0.00	0.00
<b>TOTAL LIABILITIES</b>	20800000000000000000	1,140,969,102.18	1,092,960,957.87
<b>TOTAL STOCKHOLDERS' EQUITY</b>	30000000000000000000	187,255,441.59	286,022,968.53
<b>TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY</b>	10800000000000000000	1,328,224,543.77	1,378,983,926.40
<b>TOTAL CONTINGENT LIABILITIES</b>	40000000000000000000	0.00	0.00
<b>ADDITIONAL INFORMATION</b>			
Gross total loan portfolio (TLP)	40900000000000000000	365,748,526.42	315,707,666.33
Specific allowance for credit losses on the TLP	40930000000000000000	25,548,419.75	25,434,169.54
Non-Performing Loans (NPL)	40910000000000000000	18,293,650.68	14,167,840.47
a. Gross NPL	40910000000000000000	18,293,650.68	14,167,840.47
b. Ratio of gross NPL to gross TLP (%)	40910000000000000000	4.45%	4.49%
c. Net NPL	40910100000000000000	6,549,106.87	5,006.66
d. Ratio of Net NPL to gross TLP (%)	40911000000000000000	1.79%	0.00
e. Ratio of total allowance for credit losses to gross NPL (%)	40911500000000000000	170.42	191.76
f. Ratio of specific allowance for credit losses on the gross TLP to gross NPL (%)	40912000000000000000	158.93	180.86
Capital Adequacy Ratio (CAR) on Sato Basis, as prescribed under existing regulations	40900000000000000000	29.19	20.02
a. Total CAR (%)	40900000000000000000	20.74	21.93
b. Tier 1 Ratio (%)	40900000000000000000	0.00	0.00
c. Common Tier 1 Ratio (%) <sup>U</sup>	40900000000000000000	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.

*Roberto S. de Guzman*  
**ROBERTO S. DE GUZMAN**  
Manager





Form 28 (Revised June 2014)

**IMUS RURAL BANK, INC.**  
Name of Bank

**PUBLISHED BALANCED SHEET**  
(Head Office and Branches)  
As of June 30, 2021

**CONTROL PROOFLIST**

	Account Code	Current Quarter	Previous Quarter
<b>Cash and Cash Items</b>			
Due from Bangko Sentral ng Pilipinas	110800000000000000	15,807,413.72	14,052,544.71
Due from Other Banks	109130000000000000	32,711,029.93	32,711,029.39
<b>Financial Assets at Fair Value through Profit or Loss</b>			
Available-for-Sale Financial Assets-Net	110120000000000000	480,258,345.93	518,142,843.94
Field-to-Maturity (FTM) Financial Assets-Net	119200000000000000	0.00	0.00
Unquoted Debt Securities Classified as Loans-Net	119125000000000000	0.00	0.00
Investments in Non-Substantive Equity Security-Net	119130000000000000	251,348,779.43	228,483,082.27
Loans and Receivables - Net	119250000000000000	0.00	0.00
<b>Other Financial Assets</b>			
Equity Investment in Subsidiaries, Associates and Joint Ventures-Net	148000000000000000	342,177,775.41	337,378,385.80
Bank Premises, Furniture, Fixture and Equipment-Net	119432500000000000	278,642.43	404,729.07
Real and Other Properties Acquired-Net	119150000000000000	0.00	0.00
Non-Current Assets Held for Sale	119501000000000000	27,001,704.72	27,876,017.30
Other Assets-Net	110154000000000000	11,819,328.20	12,242,340.90
Net Due from Head Office/Branches/Agencies, if any (Phil. branch of a foreign bank)	112000000000000000	0.00	0.00
<b>TOTAL ASSETS</b>	115234000000000000	23,874,980.42	23,331,036.81
<b>Financial Liabilities at Fair Value through Profit or Loss</b>			
Deposit Liabilities	208000000000000000	3,386,237,602.24	3,375,233,037.75
Due to Other Banks	215000000000000000	0.00	0.00
Bills Payable	220010000000000000	1,077,785,036.81	1,127,440,390.04
Bonds Payable-Net	220100000000000000	0.00	0.00
Unsecured Subordinated Debt-Net	291201000000000000	0.00	0.00
Redeemable Preferred Shares	291202000000000000	0.00	0.00
Special Dividend	220210000000000000	0.00	0.00
Due to Bangko Sentral ng Pilipinas	270130000000000000	0.00	0.00
Other Financial Liabilities	270150000000000000	0.00	0.00
Other Liabilities	240050000000000000	1,300,489.47	935,274.43
Net Due to Head Office/Branches/Agencies (Philippine branch of a foreign bank)	240100000000000000	21,771,891.42	22,513,217.50
<b>TOTAL LIABILITIES</b>	230850000000000000	5,185,807.14	5,844,055.68
<b>TOTAL STOCKHOLDERS' EQUITY</b>	119990000000000000	1,689,173,173.28	1,486,981,381.13
<b>TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY</b>	119990000000000000	29,560,784.56	28,877,092.49
<b>TOTAL CONTINGENT LIABILITIES</b>	119990000000000000	1,284,217,402.24	1,415,218,132.29
<b>ADDITIONAL INFORMATION</b>			
Gross total loan portfolio (TLP)	419610000000000000	0.00	0.00
Specific allowance for credit losses on the TLP	499100000000000000	371,750,916.73	365,346,526.42
Non-Performing Loans (NPLs)	499100000000000000	27,318,815.25	25,568,819.78
a. Gross NPLs	499100000000000000	0.00	0.00
b. Ratio of gross NPLs to gross TLP (%)	499120000000000000	6.017,130.00	14,793,850.68
c. Net NPLs	499130000000000000	2.43%	4.42%
d. Ratio of Net NPLs to gross TLP (%)	499140000000000000	1,763,617.36	6,549,106.37
e. Ratio of total allowance for credit losses to gross NPLs (%)	499150000000000000	0.48	1.70
f. Ratio of specific allowance for credit losses on the gross TLP to gross NPLs (%)	499160000000000000	327.34	176.42
<b>Capital Adequacy Ratio (CAR) on Solo Bank, as prescribed under existing regulations</b>	499170000000000000	80.81	116.81
a. Total CAR (%)	499180000000000000	30.21	38.13
b. Tier 1 Ratio (%)	499190000000000000	21.00	20.76
c. Common Tier 1 Ratio (%) <sup>1/</sup>	499200000000000000	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.

*[Signature]*  
MANAGER

# Philippine Ayta people have the most Denisovan DNA, study finds

Researchers have known from several lines of evidence that the ancient hominins known as the Denisovans interbred with modern humans in the distant past. Now researchers reporting in the journal *Current Biology* on August 12 have discovered that the Philippine Negrito ethnic group known as the Ayta Magbukon have the highest level of Denisovan ancestry in the world. In fact, they carry considerably more Denisovan DNA than the Papuan Highlanders, who were previously known as the present-day population with the highest level of Denisovan ancestry. "We made this observation despite the fact that Philippine Negritos were recently admixed with East Asian-related groups — who carry little Denisovan ancestry, and which consequently diluted their levels of Denisovan ancestry," said Maximilian Larena (@maxlarena) of Uppsala University. "If we account for and masked away the East Asian-related ancestry in Philippine Negritos, their Denisovan ancestry can be up to 46 percent greater than that of Australians and Papuans."

In the new study, Larena and colleagues, including Mattias Jakobsson, aimed to establish the demographic history of the Philippines. Through a partnership between Uppsala University of Sweden and the National Commission for Culture and the Arts of the Philippines (NCCA), aided by collaboration with indigenous cultural communities, local universities, local government units, non-governmental organizations, and/or regional offices of the National Commission for Indigenous Peoples, they analyzed about 2.3 million genotypes from 118 ethnic groups of the Philippines including diverse self-identified Negrito populations. The sample also included high-coverage genomes of AustraloPapuans and Ayta Magbukon Negritos. The study shows that Ayta Magbukon possess the highest level of Denisovan ancestry in the world, consistent with an independent admixture event into Negritos from Denisovans. Together with the recent discovery of a small-bodied hominin, called *Homo luzonensis*, the data suggest that there were multiple archaic species that inhabited the Philippines prior to the arrival of modern humans, and that these archaic groups may have been genetically related.

Altogether, the researchers say that the findings unveil a complex intertwined history of modern and archaic humans in the Asia-Pacific region, where distinct Islander Denisovan populations differentially admixed with incoming Australo-Asians across multiple locations and at various points in time. "This admixture led to variable levels of Denisovan ancestry in the genomes of Philippine Negritos and Papuans," Jakobsson said. "In Island Southeast Asia, Philippine Negritos later admixed with East Asian migrants who possess little Denisovan ancestry, which subsequently diluted their archaic ancestry. Some groups, though, such as the Ayta Magbukon, min- imally admixed with the more recent incoming migrants. For this reason, the Ayta Magbukon retained most of their inherited archaic tracts and were left with the highest level of Denisovan ancestry in the world."

"By sequencing more genomes in the future, we will have better resolution in addressing multiple questions, including how the inherited archaic tracts influenced our biology and how it contributed to our adaptation as a species," Larena said.

This work was supported by the Swedish Research Council and the Knut and Alice Wallenberg Foundation.

# Batters move their heads to keep their eyes on the ball

Researchers are revisiting an age-old question in baseball: Do batters actually keep their eye on the ball?

A review of the few film- and lab-based studies on the subject suggests that yes, indeed, batters' eyes are watching the pitched ball. But they're moving their heads, and not their eyes, to direct their gaze.

And then, with little time to spare, some batters in studies shifted their gaze toward home plate, a move that researchers suspect is related to trying to anticipate where the ball will be when it is in batting range. But not all batters made this move to briefly take their eye off the ball.

After examining previous studies on head and eye movements in baseball batters, Ohio State University researchers concluded

that there is no consensus on which head and eye movements are most likely to improve batting performance — but further investigation could get the sport to the point at which eye gaze-based batting training is feasible.

"One question we had was whether batters actually keep their eye on the ball, and if they do, does that lead to some advantage?" said Nick Fogt, professor of optometry at Ohio State and co-author of the review.

"What we've found, and it's been replicated several times, is that they do keep their eye on the ball, but they don't turn their eyes — they turn their head, which is fruitful in terms of a scientific question: Is there some reason why you would do it this way?"

"Presumably there is, but we don't quite have

that nailed down yet," Fogt co-authored the paper with Andrew Toole, associate professor of clinical optometry at Ohio State. The review is published in the July issue of *Optometry and Vision Science*.

Despite the pending questions, one thing is certain: During the half-a-second journey of a pitched ball to home plate, batters are negotiating a lot of visual and neural signals — some of which contradict each other.

Given the time pressure, it could be that batters move their head to reduce the complicated calculations needed to get the bat to the right place at the right time. But head movement requires that batters suppress a finely tuned vision-related system, Toole said.

By keeping their head and eyes toward

the ball, batters are essentially canceling out what is known as the vestibular ocular reflex (VOR), which allows us to see a stable world as our heads move around.

"The VOR helps us maintain our gaze toward where we're looking in space," Toole said. "When it comes to something like batting, when I'm rotating my head to follow the ball, the VOR is telling my eyes to go in the opposite direction. ... So that VOR has to be canceled if the eyes are going to stay on the ball."

In the paper, Fogt and Toole trace the history of eye and head movement studies in baseball batters, the first two of which were published in 1954 and 1984, and more recent studies conducted within the last decade.

The findings consistently showed that baseball players at all levels

kept their eye on the pitched ball with similar head movements, and also suggested that the process of swinging the bat doesn't seem to influence what the eyes and head are doing.

But less clear is whether some batters' flicker of the eye away from the ball, gaze changes called "anticipatory saccades," affect overall batting success.

"The question is, do batters try to keep following the ball all the way to the plate or do they take their central vision off of it and look to where it's going to go?" Fogt said. "That's an important question, because if you're going to teach somebody what to do, we need to know if that's a strategy employed regularly and whether it's helpful."

Toole said he and Fogt are currently exploring this component of batting vision, study-

ing how quickly batters make predictions about the ball's trajectory and how accurate those predictions are. They also said larger studies under game conditions are needed to determine which gaze strategies are most beneficial for baseball batting.

If the steady stream of inquiries from professional leagues at a variety of levels is any indication, there appears to be interest in this line of research, the scientists say.

The lessons to be learned about vision concerns encountered in baseball may apply to everyday life as well — and vice versa, Toole and Fogt noted. In tasks as simple as pouring a glass of milk or as complicated as driving in heavy traffic, there's a lot to consider: How do we organize our thinking when we're pressed for time?



# Ultrasound remotely triggers immune cells to attack tumors in mice without toxic side effects

Bioengineers at the University of California San Diego have developed a cancer immunotherapy that pairs ultrasound with cancer-killing immune cells to destroy malignant tumors while sparing normal tissue.

The new experimental therapy significantly slowed down the growth of solid cancerous tumors in mice.

The team, led by the labs of UC San Diego bioengineering professor Peter Yingxiao Wang and bioengineering professor emeritus Shu Chien, detailed their work in a paper published Aug. 12 in *Nature Biomedical Engineering*.

The work addresses a longstanding

problem in the field of cancer immunotherapy: how to make chimeric antigen receptor (CAR) T-cell therapy safe and effective at treating solid tumors.

CAR T-cell therapy is a promising new approach to treat cancer. It involves collecting a patient's T cells and genetically engineering them to express special receptors, called CAR, on their surface that recognize specific antigens on cancer cells. The resulting CAR T cells are then infused back into the patient to find and attack cells that have the cancer antigens on their surface.

This therapy has worked well for the treatment of some blood cancers and lymphoma,

but not against solid tumors. That's because many of the target antigens on these tumors are also expressed on normal tissues and organs. This can cause toxic side effects that can kill cells — these effects are known as on-target, off-tumor toxicity.

"CAR T cells are so potent that they may also attack normal tissues that are expressing the target antigens at low levels," said first author Yiqian (Shirley) Wu, a project scientist in Wang's lab.

"The problem with standard CAR T cells is that they are always on — they are always expressing the CAR protein, so you cannot

control their activation," explained Wu.

To combat this issue, the team took standard CAR T cells and re-engineered them so that they only express the CAR protein when ultrasound energy is applied.

This allowed the researchers to choose where and when the genes of CAR T cells get switched on.

"We use ultrasound to successfully control CAR T cells directly in vivo for cancer immunotherapy," said Wang, who is a faculty member of the Institute of Engineering in Medicine and the Center for Nano-ImmunoEngineering, both at UC San Diego.

What's exciting about the use of ultrasound, noted Wang, is that it can penetrate tens of centimeters beneath the skin, so this type of therapy has the potential to non-invasively treat tumors that are buried deep inside the body.

The team's approach involves injecting the re-engineered CAR T cells into tumors in mice and then placing a small ultrasound transducer on an area of the skin that's on top of the tumor to activate the CAR T cells. The transducer uses what's called focused ultrasound beams to focus or concentrate short pulses of ultrasound energy at the tumor.

This causes the tumor to heat up moderately — in this case, to a temperature of 43 degrees Celsius (109 degrees Fahrenheit) — without affecting the surrounding tissue. The CAR T cells in this study are equipped with a gene that produces the CAR protein only when exposed to heat. As a result, the CAR T cells only switch on where ultrasound is applied.

The researchers put their CAR T cells to the test against standard CAR T cells. In mice that were treated with the new CAR T cells, only the tumors that were exposed to ultrasound were attacked, while other tissues in the body were left alone.

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## Batters move their heads to keep their eyes on the ball

Researchers are re-visiting an age-old question in baseball: Do batters actually keep their eye on the ball?

A review of the few film- and lab-based studies on the subject suggests that yes, indeed, batters' eyes are watching the pitched ball. But they're moving their heads, and not their eyes, to direct their gaze.

And then, with little time to spare, some batters in studies shifted their gaze toward home plate, a move that researchers suspect is related to trying to anticipate where the

ball will be when it is in batting range. But not all batters made this move to briefly take their eye off the ball.

After examining previous studies on head and eye movements in baseball batters, Ohio State University researchers concluded that there is no consensus on which head and eye movements are most likely to improve batting performance—but further investigation could get the sport to the point at which eye gaze-based batting training is feasible.

"One question we

had was whether batters actually keep their eye on the ball, and if they do, does that lead to some advantage?" said Nick Fogt, professor of optometry at Ohio State and co-author of the review.

"What we've found, and it's been replicated several times, is that they do keep their eye on the ball, but they don't turn their eyes—they turn their head, which is fruitful in terms of a scientific question: Is there some reason why you would do it this way?"

"Presumably there is, but we don't quite have that nailed down yet."

## From blood to brain: Delivering nucleic acid therapy to the CNS

Researchers from Tokyo Medical and Dental University (TMDU), Takeda Pharmaceutical Co., Ltd. and Ionis Pharmaceuticals, USA, show that heteroduplex oligonucleotide drugs conjugated with cholesterol cross the blood-brain barrier effectively with intravenous or subcutaneous dosing.

Antisense oligonucleotide (ASO) therapy has the potential to ameliorate many neurodegenerative diseases at the genetic level to suppress the production of harmful proteins or non-coding RNAs. Previously, achieving delivery of ASO with adequate concentrations in the central nervous system (CNS) with systemic dosing was difficult. Now, researchers from Japan and the USA have developed a drug delivery platform that overcomes this hurdle.

Evolution has equipped the brain with protection against both mechanical and molec-

ular injury. The blood-brain barrier (BBB) is a selectively semipermeable barricade of endothelial cells lining the capillaries, working with specific transporter proteins, it functions as a fastidious gatekeeper between the circulation and the CNS, barring foreign molecules, including drugs.

ASOs are pharmaceutical molecules that can target disease at the genetic level. They comprise a few dozen base pairs arranged in an 'antisense' or reverse order and prevent production of pathogenic proteins through binding to the 'sense' strand of mRNA targets. Single-stranded ASOs show great promise against CNS disorders such as spinal muscular atrophy. However, they do not enter the CNS effectively following systemic administration and require quite direct intrathecal injection. This may be hazardous particularly for patients with lumbar

spinal deformity or in blood-thinners.

The research team had recently developed DNA:RNA heteroduplex oligonucleotide (HDO) technology capable of highly efficient RNA degradation *in vivo*. First author Tetsuya Nagata explains, "We found that cholesterol conjugated HDO (Chol-HDO), unlike cholesterol-ASO, efficiently reached the CNS following subcutaneous or intravenous administration in experimental animals. The Chol-HDO platform showed significant dose-dependent target gene reductions with prolonged action in all CNS regions and cell types."

Further, the researchers confirmed that this beneficial outcome was not at the expense of vascular barrier integrity.

They also investigated the pharmacokinetics of multiple injections as well as subcutaneous dosing (which may be self-administered)