

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

PDEA destroys P6-B illegal drugs

The Philippine Drug Enforcement Agency (PDEA) destroyed last July 3 some P6.06-billion worth of dangerous drugs in Barangay Aguado, Trece Martires City, Cavite.

Destroyed through thermal decomposition were 1,405,840.45 grams or 1.41 tons of assorted pieces of drug evidence composed of shabu, marijuana, cocaine, ecstasy, ephedrine, ketamine, pseudoephedrine, chloroephedrine, diazepam, nitrazepam, zolpidem, zalcassipron, zlonazepam, alprazolam, methylphenidate, dimethylamphetamine, and expired medicines.

Also destroyed were 296 milliliters of
 Turn to page 2



Fire razes some 40 homes made of light materials in Barangay Talaba VII in Bacoor, Cavite July 5 morning. The Bureau of Fire Protection said the fire started at 6:30 am, and reached the fourth alarm. The fire has caused moderate to heavy traffic in the area.

PDEA seizes P6.8M 'shabu' in Bacoor buy-bust

Agents of the Philippine Drug Enforcement Agency-Special Enforcement Service (PDEA-SES) have confiscated P6.8 million worth of suspected "shabu" (crystal meth) in a buy-bust operation at a parking lot of a shopping mall in Bacoor, Cavite.

PDEA reported last July 5 the recovery of a kilogram of suspected illegal drugs during the operation on the second floor of

the mall's parking lot at around 8 p.m. last July 4. Two suspects facing charges for violation of the Republic Act 9165 or the Comprehensive Dangerous Drugs Act of 2002

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ANGYULO BAREO

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Executive Manager

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papi

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HIV eliminated from the genomes of living animals

In a major collaborative effort, researchers at the Lewis Katz School of Medicine at Temple University and the University of Nebraska Medical Center (UNMC) have for the first time eliminated replication-competent HIV (DNA—the virus responsible for AIDS)—from the genomes of living animals. The study, reported online July 2 in the journal *Nature Communications*, marks a critical step toward the development of a possible cure for human HIV

infection. “Our study shows that treatment to suppress HIV replication and gene editing therapy, when given sequentially, can eliminate HIV from cells and organs of infected animals,” said Kamel Khalil, PhD, Laura H. Casull Professor and Chair of the Department of Neuroscience, Director of the Center for Neurovirology, and Director of the Comprehensive NeuroAIDS Center at the Lewis Katz School of Medicine at Temple

University (UKSCOM). Dr. Khalil and Howard Gendelman, MD, Margaret R. Larson Professor of Infectious Diseases and Internal Medicine, Chair of the Department of Pharmacology and Experimental Neuroscience, and Director of the Center for Neurodegenerative Diseases at UNMC, were senior investigators on the new study.

“This achievement could not have been possible without an extraordinary team effort that included virologists, immunologists, molecular biologists, pharmacologists, and pharmaceutical experts,” Dr. Gendelman said. “Only by pooling our resources together were we able to make this groundbreaking discovery.”

Current HIV treatment focuses on the use of antiretroviral therapy (ART). ART suppresses HIV replication, but does not eliminate the virus from the body. Therefore, ART is not a cure for HIV, and it requires life-long use.

expeditious procurement and disposition of drug cases that led to the prompt destruction of these illegal drugs no longer needed as evidence to court.

This is the seventh destruction since Aquino assumed as PDEA director general on Sept. 12, 2015, result-

ing in the destruction of several illegal drugs, controlled substances, and essential chemicals, expired medicines, and laboratory equipment worth P25.66 billion—the most in the agency's history in terms of monetary value and frequency and comprising 43.64 percent of the

P52.75 billion worth of dangerous drugs destroyed in the last decade. Under the administration of President Duterte from July 1, 2016 to present, 6,62 tons and 3,610,321 items of dangerous drugs worth P54.01 billion have been destroyed.

(PDEA... from page 1)

liquid slabs, 1,126.26 kilograms of gamma-butyrolactone, and 104.43 kilograms of lidocaine. Thermal decomposition or thermolysis is the method of decomposition or breaking down of chemical by heat. The decomposition temperature of a substance is the temperature at which the substance chemically decomposes. At 1,000 degrees Celsius, all dangerous drugs are totally decomposed or broken down.

PDEA Director General Aureo Aquino led the destruction of the consignment as ordered by the court.

“We want the public

to witness the destruction of gamma-butyrolactone and 104.43 kilograms of lidocaine, most officers in order to dispel the public notion that these illicit items are being tossed, recycled, or sold back in the streets,” Aquino said.

Majority of illegal drugs destroyed were 276 stacks or 311,066 kilograms of marijuana with an estimated street value of P2.25 billion that were discovered floating in the shorelines of Nueva Ecija, Aurora, Quezon, Comoros, North Cotabato, Davao Oriental, Surigao del Norte, Surigao del Sur, and Davao Islands.

Aquino lauded the efforts of Regional Trial Courts in the National Capital Region, Ilocos region, Region 4-A or Calabarzon (Cavite, Laguna, Batangas, Rizal, and Quezon), and Region 4-B (Mindoro Occidental and Oriental, Marikina, Romblon, and Palawan), for the

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

HOME DEVELOPMENT MUTUAL FUND
Mortgages

Extra-Judicial Foreclosure of Real Estate Mortgage Under Act No. 3151 as Amended, Republic Act No. 6118

SPS. NERIO R. VILLANGUEVA AND JOSEPHINE G. VILLANGUEVA,
Mortgagees.

PC No. 1677-18

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial private sale under Act 3151 as amended by Act 6118 filed by **HOME DEVELOPMENT MUTUAL FUND** with office address at 12th Floor, JLP Business Solutions Center, No. 408 Shaw Boulevard, Mandaluyong City, against **SPS. NERIO R. VILLANGUEVA AND JOSEPHINE G. VILLANGUEVA**, with residence and postal address at Lot 3, Block 4, Paradise Canteen II, Amable I, Iloilo, Cavite 4029 Manuel L. Quezon St., Lower Division, Tagay City to satisfy the mortgage indebtedness which as of February 28, 2019 amounts to **FOUR HUNDRED SIX THOUSAND EIGHT HUNDRED THIRTY EIGHT PESOS AND NINE (P40,618.38)** Philippine Currency, including interest and penalty charges, attorney's fee, sheriff's fee and all other charges incidental to the foreclosure and sale, the undersigned Sheriff will sell at Public Auction on August 27, 2019 at 10:00 a.m. or soon thereafter at the main reception of the Office of the Clerk of Court, RTC, Makara Area, Malabon City, Katatagan, Aguinid Highway, Iloilo, Cavite, to the highest bidder for cash and in Philippine Currency, the following property with all the improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE No. T-46620

A parcel of land Lot 3, Block 4 of the subdivision plan, Pct. 04-07770, being a portion of Lot 554, Iloilo Estate, LRC Reg. No. 88615, situate in the City of Amable I, Municipality of Iloilo, Province of Cavite, bounded on the SE, along line 1-2 by Lot 4, on the SW, along line 1-3 by Lot 5, both of Bldg. 4, on the NW, along line 1-4 by Lot 1, 2, 3, 4 and on the NE, along line 4-1 by Lot 1, Bldg. 4, all of the subdivision plan, measuring at all points, 11' x 11' containing an area of **THIRTY (30) SQUARE METERS** x 1 x 1

All said lot must be delivered to the undersigned on the stated time and date.

In the event the public auction should not take place on the said date, it shall be held on September 3, 2019 at 10:00 a.m. or soon thereafter.

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

Iloilo, Cavite, Philippines, May 27, 2019

(Sgd.) **EMMANUEL R. FRANCISCO**
Sheriff IV

APPROVED

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

Copy Forfeited:

HOME DEVELOPMENT MUTUAL FUND
120 Fifth Floor, JLP Business Solutions Center,
No. 408 Shaw Boulevard, Mandaluyong City

SPS. NERIO R. VILLANGUEVA AND JOSEPHINE G. VILLANGUEVA
Lot 3, Block 4, Paradise Canteen II, Amable I, Iloilo, Cavite
4029 Manuel L. Quezon St., Lower Division, Tagay City

Publication: (DIWARYO KORTENYO)
Date: June 24, July 1 & 8, 2019

REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
OFFICE OF THE CLERK OF COURT
& EX-OFFICIO SHERIFF
ILOILO, CAVITE

NATIONAL HOME MORTGAGE FINANCE CORPORATION
Mortgages Assignees

EXTRA-JUDICIAL FORECLOSURE OF REAL ESTATE MORTGAGE UNDER ACT 3151 AS AMENDED BY ACT 6118

P.C. No. 1678-19

OSCAR G. GILHANG married to **ROSELA G. GILHANG**,
Mortgagees.

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial private sale under Act 3151 as amended by Act 6118 filed by **NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMF)**, Mortgagee, with principal place of business at 04 Arroyo St., Leganes Village, Makati City against **OSCAR G. GILHANG** married to **ROSELA G. GILHANG** mortgagees with residence and postal address at Golden City, Iloilo, Cavite and/or 2001 Robinson II, Pasaden, Metro Manila to satisfy the mortgage indebtedness which as of January 31, 2019 amounts to **ONE MILLION EIGHT HUNDRED THIRTY THREE THOUSAND SEVEN HUNDRED FIFTY EIGHT PESOS AND SIXTY (P1,833,758.69)** Philippine Currency, including interest and penalty, but excluding attorney's fee, sheriff's fee and all other charges incidental to this foreclosure and sale, the undersigned will sell at public auction on July 22, 2019 at 10:00 o'clock in the morning at said date and at the main entrance of the Office of the Clerk of Court, RTC, Multiple Sites, Aguinid Highway, Iloilo, Cavite with highest bidder, for CASH and in Philippine Currency, the following property with all improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE No. T-46678

A parcel of land Lot 22, Block 30 of the subdivision plan Pct. 042106-01270, being a portion of Bldg. 30, Pct. 04-066142, L.R.C. Reg. No. 1, situated in the City of Amable I, Municipality of Iloilo, Province of Cavite, bounded on the SW, along line 1-2 by Lot 27, and along line 1-3 by Lot 28, on the NW, along line 3-4 by Lot 34, all of Bldg. 30, on the NE, along line 4-1 by Block 29 and on the SE, along line 3-1 by Lot 22, Bldg. 30, all of the subdivision plan, containing an area of **EIGHTY EIGHT (88) SQUARE METERS** x 1 x 1

All said lot must be delivered to the undersigned on the above stated time and date.

In the event the public auction should not take place on the said date, it shall be held on July 26, 2019 at 10:00 o'clock in the morning 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.

Iloilo, Cavite, Philippines, May 27, 2019

(Sgd.) **EMMANUEL R. FRANCISCO**
Sheriff IV

APPROVED

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

COPY FORFEITED:

NATIONAL HOME MORTGAGE FINANCE CORPORATION
04 Arroyo St., Leganes Village, Makati City

OSCAR G. GILHANG married to **ROSELA G. GILHANG**,
04 Arroyo St., Leganes Village, Makati City
Iloilo, Cavite and/or 2001 Robinson II, Pasaden, Metro Manila

Publication: (DIWARYO KORTENYO)
Date: June 24, July 1 & 8, 2019

EXTRA-JUDICIAL PARTITION OF ESTATE WITH WAIVER OF RIGHTS AND DONATION

NOTICE is hereby given that the estate of the late **ZENADIA BRONAS TOLEDO** who died testate on February 11, 2001 in Iloilo, Cavite, Philippines, consisting of her one-half (1/2) conjugal share in the parcel of land situated in the Municipality of Iloilo, Cavite, covered by Transfer Certificate of Title No. T-163112, containing an area of **THIRTY SQUARED METERS FOUR (30) SQUARE METERS**, more or less, together with her one-half (1/2) conjugal share in the residential house covered by Tax Declaration No. 11-000701212 with a floor area of 90 Square Meters, more or less, has been the subject of Extra-Judicial Partition of Estate by and between her heirs and waiver of Rights and Donations with **GENEROSO V. TOLEDO, JR.**, waiving whatever claims, interest and participation he may have in the conjugal estate of the decedent in favor of **GENEROSO BRONAS TOLEDO** also, **GENEROSO V. TOLEDO III (DONGO)**, her son and co-heir and co-legatee of his late and aforesaid son **GENEROSO BRONAS TOLEDO (DONGO)**, does hereby transfer and convey by way of Donations to said **DONGO**, her son and assigns his one-half (1/2) conjugal share in TCT No. T-163112 together with the residential house covered by Tax Dec. No. 11-000701212 on June 14, 2019 in the City of Cavite, Philippines before Notary Public Atty. **Arnold S. Bana** and entered in her Notarial Register at Tax. No. 01, Page No. 01, Book No. 1328, Series of 2019.

(Sgd.) **Thereseferon by Her Son and signed by Her Heirs**

Publication: (DIWARYO KORTENYO)
Date: June 24, July 1 & 8, 2019

EXTRA-JUDICIAL SETTLEMENT OF THE ESTATE OF THE LATE LIWANAG P. RICARTE AND ARTEMIO RICARTE

NOTICE is hereby given that the estate of the late **LIWANAG PAGINGAN RICARTE** and **ARTEMIO RICARTE** who both died intestate on May 4, 1997 at Manila Doctors Hospital and on April 27, 2008 at Tandang Sora Hospital, respectively, consisting of one-fourth (1/4) undivided share of a parcel of land (Lot 244-C) located at Amable I, Iloilo, Cavite consisting on more or less 873 square meters, more or less, and covered by Transfer Certificate of Title No. T-22126 of the Registry of Deeds for the Province of Cavite, has been voluntarily and extrajudicially settled by and among their heirs equally on June 17, 2019 at Iloilo, Cavite before Notary Public Atty. **Jud D. Cordoba** and entered in his Notarial Register at Tax. No. 103, Page No. 70, Book No. 6618, Series of 2019.

(Sgd.) **Bana**

Publication: (DIWARYO KORTENYO)
Date: June 24, July 1 & 8, 2019

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

Arnold S. Bana

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

JOCELYN PADUA,
Petitioner/Mortgagee,
FORECLOSURE CASE NO. REAL-19

PURIFICACION P. HONRADA,
Mortgagee/Debtor

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 1513, as amended by Act 4118, filed by mortgagee JOCELYN PADUA, with residence and postal address at No. 21, Bataan Bay Street, Villa Pines Village, San Roque, Cavite City, against PURIFICACION P. HONRADA, mortgagee, with residence and postal address at No. 2837 J. Felipe Blvd. (La Santitas Annex, Barangay 18, Cavite City, to satisfy the mortgage indebtedness which amounts to SEVEN HUNDRED TWENTY THOUSAND PESOS (P 70,000.00), excluding (1) the interest on interest's fees, costs, fees, and damages, plus other expenses of foreclosure proceedings, the undersigned Sheriff of the Regional Trial Court in Cavite City will sell at public auction on **AUGUST 3, 2019, at 10:00 o'clock in the morning** at the main entrance of the Cavite Hall of Justice, Javalera Park, Cavite City, to the highest bidder, for CASH and in Philippine Currency, the following described property with all the improvements existing thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE
NO. T-28424

"A parcel of land (Lot No. 808-B-1-B, of the subdivision plan-jud-04-017-035, being a portion of Lot 808-B-1, (JRC) Pal 1417), LRC, Record No. 3984, situated at the Barrio of Tinas, Municipality of Rosario, Province of Cavite, bounded on the SW, along line 1-2 by Lot 808-B-1-A, on the NW, along line 2-3 by Lot 808-B-1-D, on the NE, along line 3-4 by Lot 808-B-1-C, and on the SE, along line 4-1 by Lot 808-B-1-E, (total), all of the subdivision plan. Beginning at a point marked "1" and continuing on lots of TWO HUNDRED THIRTY SEVEN (237) SQUARE METERS more or less. All points see."

All said facts 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, it shall be held on **AUGUST 3, 2019**, at the same time and place, without further notice.
Prospective bidders are hereby expressed to investigate for themselves the title to the said property and encumbrances, if any there be.
Cavite City, June 27, 2019

(Sgd.) JESUS B. ROGUIS, JR.
Sheriff IV

Copy furnished:
ATY. EBERTO C. CEDRERO,
1517 Nipahapa Street Davao South Village,
Alabaca, Cebu City
JOCELYN PADUA,
No. 21, Bataan Bay Street, Villa Pines Village,
San Roque, Cavite City
PURIFICACION P. HONRADA,
No. 2837 J. Felipe Blvd., Cor. Santiago Street,
Barangay 18, Cavite City
Tugaya Corporation, Rosario-Cavite
Publication: DIARYO MARTENO/
Date: July 1-8 & 15, 2019

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 23
TRINIDAD MARIKINA CITY

ARMED FORCES AND POLICE MUTUAL
BENEFIT ASSOCIATION, INC. (APPMBAI),
Mortgagee,
FORECLOSURE CASE NO. F-094-19

VICENTE A. SAMSON married to
Fatima R. Samson,
Mortgagor

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 1513, as amended by Act 4118, filed by Mortgagee ARMED FORCES AND POLICE MUTUAL BENEFIT ASSOCIATION, INC. (APPMBAI) with business address at Col. Bono Sarasin Bldg. (EDSA, Quezon City, against the Mortgagee, VICENTE A. SAMSON married to Fatima R. Samson, with residence and postal address at Regy 433-Z-01, 19781 Compound, Jona St., Pasaden, Marikina, to satisfy the mortgage indebtedness which as of March 31, 2019 amounts to EIGHT HUNDRED SIXTY THOUSAND ONE HUNDRED THIRTY THREE PESOS AND NINETY (P86,133.00), Philippine Currency, including interest, penalties and other charges on of said due but including all other expenses incidental to the foreclosure and sale, the undersigned Sheriff will sell at public auction on **August 19, 2019 at 10:00 o'clock in the morning** at the main entrance of the Government Center Building located in the Provincial Capitol Compound, Trinidad Mariquina City, to the highest bidder for CASH and in Philippine Currency, the following property with all the improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE
NO. T-28624

A parcel of land (Lot 4-BL-7-Sub 1) of the subdivision plan-jud-02120-07010, being a portion of Lot 3990, 3991, Cruz de Malabon Estate, Tr. 999-D, Cor. Roc. Sta. 1, Cor. to Regy. Baguio, Mar. of Tinas, Prov. of Cavite, to, all areas bounded on the SW, along line 1-2 by Lot 4-BL-7-Sub 1), on the NW, along line 2-3 by Block 7, on the NE, along line 1-4 by Alley 708 and on the SE, along line 6-7 by Lot 4-BL-7-Sub 1), all of the subdivision plan. Beginning at a point marked "1" on plan xxx-000000000, an area of SIXTY SIX (66) SQUARE METERS x x x

All said facts must be submitted to the undersigned on the above stated time and place.
In the event the public auction should not take place on the said date, it shall be held on **August 20, 2019** without further notice.
Prospective bidders are hereby expressed to investigate for themselves the title to the said property and encumbrances, if any there be.
Trinidad Mariquina City, June 24, 2019

(Sgd.) EDCHO C. ALDO III
Sheriff IV

Copy furnished:
ATY. MARICARR T. MARINEZ-SHRABEL,
Attorney-at-Law/Practising Lawyer,
Bansalayan, Inc. (APPMBAI)
Col. Bono Sarasin Bldg. (EDSA, Quezon City
SFS. VICENTE & FATIMA SAMSON
Regy. 433-Z-01, 19781 Compound, Jona St.,
Pasaden, Marikina
WARRANT: It is absolutely prohibited to remove, deface or destroy this Notice of Extra-Judicial Sale or to before the date of sale.
Publication: DIARYO MARTENO/
Date: July 1, 8 & 15, 2019

REPUBLIC OF THE PHILIPPINES
REGIONAL TRIAL COURT
FOURTH JUDICIAL REGION
BRANCH 17
CAVITE CITY

IN THE MATTER OF THE PETITION
FOR ADOPTION OF MINOR CHILD
MARIAN GRACEDON JARELLAN TOMAS,
SE. PROC. NO. S-874

MARY GRACE LIM ODAL,
Petitioner

ORDER

A verified petition has been filed by MARY GRACE LIM ODAL, praying that after due notice, publication and hearing, judgment be rendered declaring the minor MARIAN GRACEDON JARELLAN TOMAS, her late legal income and possession, the subject child of the late petitioner and her late husband to enjoy the rights pertaining thereon.

It appearing that the petition and its attachments are sufficient in form and substance, hearing of this petition is set on **September 2, 2019 at 4:30 a.m.** on which date, time and place, interested parties are invited to appear and show cause why the same should not be granted.

Let this Order be published in a newspaper of general circulation in the province and city of Cavite, once a week for three (3) consecutive weeks before the scheduled date of hearing.

The Court Social Worker is hereby ordered to prepare the Child and Home Study Reports and to conduct counseling sessions with the biological mother of the minor on the matter of the latter's adoption by the petitioner. The Child and Home Study Reports shall be submitted before the date of hearing.

Let copy of this petition and let this Order be furnished to the Justice General, the Department of Social Welfare and Development and the Court Social Worker.

SO ORDERED.
Given this 10th day of June, 2019, Cavite City, Philippines.
(Sgd.) BECLEE-JAN T. BARRAGAN,
Acting Presiding Judge
Publication: DIARYO MARTENO/
Date: July 1, 8 & 15, 2019

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

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 23
TRUCE MARTINEZ CITY

METROPOLITAN BANK & TRUST COMPANY,
Mortgagee.

FORECLOSURE CASE NO. C-090-19

ELLEN JOY M. OGALDECO,
Mortgagee.

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Partition for Sale under Act 5133, as amended by Act 4113, filed by Mortgagee, METROPOLITAN BANK & TRUST COMPANY with business address at Metropolitan Plaza Building, Inc. 150 Payson Ave., Tuguegarao, Misamis City against the Mortgagee, ELLEN JOY M. OGALDECO, with residence and postal address at Lot 16, Block 9, Subdiv. 16, Brgy. Navarra, Gen. Truce, Cavendish No. 741 Malaga St., Brgy. 710, Malina, Manila, to satisfy the mortgage obligations which as of March 28, 2019 amounts to ONE MILLION NINE HUNDRED THIRTY THREE THOUSAND EIGHT HUNDRED EIGHTY SEVEN PESOS and 23/100 (P1,933,887.23) Philippine Currency, inclusive interest and penalty charges as of said date, but exclusive of all other expenses (attached to this foreclosure sale, for endorsement Sheriff's) and in public auction on August 26, 2019 at 10:00 o'clock in the morning at the main entrance of the Government Under Secretary, located at the Provincial Capitol Compound, Truce Martinez City, 31 the highest bidder for CASH and in Philippine Currency, the following property with all the improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE NO. 827-028932121

Lot No. 16 Block No. 9 Plot No. 22-04-028932

Parties of the contract of sale: 1. T. R. S. P. No. 04-011536, Lot 2075 B-1, Pad. 06-024241, Lot 2069-A, Pad. 06-233225, Lot 2077-A, Lot 2077-C, Pl. 0228-03-3-04 2458, Pl. 04-093227; Lot 2068, all of San Francisco de Malabon Estate, Decree 4279 LRC Dec. No. 3964

Location: Barangay of Navarra, Municipality of Gen. Truce, Province of Cebu, Island of Luzon

Boundaries	LINE	DIRECTION	ADJOINING LOT(S)
1-2	SE	Road Lot 11, Pl. 06-024442	
2-3	SW	Lot 16, Block 9, Pl. 04-028932	
3-4	NW	Lot 27, Block 9, Pl. 04-028932	
4-1	NW	Lot 16, Block 9, Pl. 04-028932	

Area: ONE HUNDRED SQUARE METERS (100), more or less

All needed 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 August 27, 2019 without 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.

Truce Martinez City, July 8, 2019

(Sgd.) LEUCO C. ALKORIN
Sheriff IV

Copy furnished:

PEREZ, CALIMA, MAYANG, AMPANG & PERALES LAW OFFICES
Counsel for the Mortgagee
8305, 2218 & 2119, Crystal Theresia Towers
96 V.A. Rufan (formerly Housing on Veloso Street)
Arlita North, City of Malina

ELLEN JOY M. OGALDECO
Lot 16, Block 9, Subdiv. 16, Brgy. Navarra, Gen. Truce, Cavendish
and No. 741 Malaga St., Brgy. 710, Malina, Manila

WARNING: It is absolutely prohibited to receive, deliver or convey this notice of Extra-Judicial Sale on or before the date of sale.

Publication: DIARYO KABITENYO
Date: July 8, 10 & 22, 2019

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 23
TRUCE MARTINEZ CITY

REBC SAVINGS BANK,
Mortgagee.

FORECLOSURE CASE NO. F-166-17

MARCO DOMITAN JURAY JR. and
HOWELA DOMITAN JURAY,
Mortgagee.

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Partition for Sale under Act 5133, as amended by Act 4113, filed by Mortgagee, REBC SAVINGS BANK with business address at 301 BCPC, Savings Bank Corporate Center, 200 & 270 Streets, Bonifacio Global City, Taguig City against the Mortgagee, MARCO DOMITAN JURAY JR. and HOWELA DOMITAN JURAY, with residence and postal address at 62-0073, Ocean View, 111, CMA Compound, 7th St., Las Pinas City and 16, Lot 21, Pl. 4-D, Triunfo Verde, San Francisco, Gen. Truce City, Cavendish to satisfy the mortgage obligations which as of March 28, 2019 amounts to TWO MILLION THIRTY THOUSAND FIVE HUNDRED EIGHTY NINE PESOS and 70/100 (P2,335,889.27) Philippine Currency, inclusive of interest charges, but exclusive of other amounts, penalties and other charges (attached to this foreclosure sale, for endorsement Sheriff's) and in public auction on September 7, 2019 at 10:00 o'clock in the morning at the main entrance of the Government Under Secretary located at the Provincial Capitol Compound, Truce Martinez City, to the highest bidder for CASH and in Philippine Currency, the following property with all the improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE NO. 027-01808418

All parts of Lot 27, Bl. 2 of the said plan, Pl. 02-018084, being a portion of Lot 6 (LRC) Pl. 1464, situated in San Francisco, Gen. Truce, Cavendish, in the Province of Cebu, along lot 2-D by 24, Lot 2, on the NW, along lot 2-D by Lot 22, Bl. 2, on the NE, along lot 2-D by Lot 26, Bl. 2, on the SE, along lot 4-D by Lot 24, Bl. 2, all of the said plan. Beginning at a rock marked "1" on plan, 4-D, containing an area of NINETY NINE (99) SQ. METERS x 1 x 1.

All needed 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 and time, it shall be held on September 9, 2019 without 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.

Truce Martinez City, July 08, 2019

(Sgd.) SACHO C. ALKORIN
Sheriff IV

Copy furnished:

REBC SAVINGS BANK
150 B. JR., San Diego Bank Corporate Center
200 & 270 Sts., Bonifacio Global City, Taguig City

MR. MARCO JURAY JR. & MS. HOWELA S. JURAY
62-0073 Ocean View, 111, CMA Compound, 7th St., Las Pinas City
and 16, Lot 21, Pl. 4-D, Triunfo Verde, San Francisco,
Gen. Truce City, Cavendish

WARNING: It is absolutely prohibited to receive, deliver or convey this notice of Extra-Judicial Sale on or before the date of sale.

Publication: DIARYO KABITENYO
Date: July 8, 10 & 22, 2019

Perfect
timing:
Making
the 'switch'
from
juvenile
to adult

Very little is

known about how the onset of puberty is controlled in humans, but the discovery of a new gene in the mouse, *Wnt3c*, elegans could be the "missing link" that determines when it's time to make this juvenile-to-adult transition. Two genes, *LINC9* and *MRKN3*, are known to be associated with precocious puberty in humans, where juveniles as young as six may start developing adult features. These genes are found in all animals, including *C. elegans*, in which they also control the juvenile-to-adult transition. Until the new discovery, it was unclear how these two genes are connected.

The more obvious signs of the transition of juvenile-to-adult tend to be external — body morphology, matured genitalia — but nervous system changes are also happening at the same time.

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 28
IMUS, CAVITE

WILLIAM FRANCISCO
Plaintiff

CIVIL CASE No. 019-04
Special Proceedings / Test
of Money and Things

FERNANDO M. SARAZA 660
SPT, TEODORO SARAZA &
ROSARIO M. SARAZA,
Defendants.

NOTICE OF SHERIFF'S SALE

WHEREAS, by virtue of the writ of execution dated August 7, 2017 issued by the Honorable Court, in the above-captioned case, whereby WILLIAM FRANCISCO is the plaintiff and FERNANDO M. SARAZA 660 SPT, TEODORO SARAZA & ROSARIO M. SARAZA are the defendants, for the recovery of the sum of ONE MILLION FIVE HUNDRED THOUSAND PESOS (P1,500,000.00) Philippine Currency including all the interest due for the service of the associated SUITE 118 SHERIFF'S SALE is hereby made, property listed below:

TRANSFER CERTIFICATE OF TITLE
No. T-00126

A parcel of land (Lot 5-B, of the subdivision LRCI, Pal-07412, being a portion of Lot 8, Block 7, Pal-04707, FC No. 10, 2007), situated in the Bar. of Binala, Mun. of Marikina, Prov. of Rizal, bounded on the N/W & S/W by Lot 3 by Linderia Ave. (100.00 sq. meters), (Dist. Lot 1, Pal-04470), on the NE by Lot 7 by 4 by Calle Compadre (110.00 sq. meters), (Dist. Lot 1, Pal-10470) 20 meters by 5, by Lot 6, Block 7, Pal-04675, and on the W, south & N by Lot 5-A, of the said, Sub. Register of title number 17,111,112, covering an area of ONE HUNDRED AND THIRTY SIX (136) SQ. METERS, etc. etc.

That, THEREFORE, by virtue of the Writ of Execution will be undertaken with the provision of Sec. 18 of Rule 39 of the Rules of Court of the Philippines, the undersigned Sheriff will, hereby give notice to all interested parties and to the public in general that on July 30, 2019 at 10:00 a.m. or soon thereafter, will sell at public auction in the highest bidder bid for CASH in Philippine Currency at the main entrance of the Regional Trial Court Hall of Justice (Hilagang ng Kalakhang) Aguirre Highway, Imus, Cavite. An above listed lot and properties, if any of the same, sufficient to satisfy the full amount of indebtedness and all lawful expenses of the execution, etc.

Imus, Cavite, Philippines, June 27, 2019

(Sgt) ANSELMO R. PALUISAN, JR.
Sheriff IV

Copy furnished:

WILLIAM FRANCISCO
8th 2, Lot 10, Dominguez Corrao St., Palis Adriano Compound,
Binala, Imus, Cavite

FERNANDO SARAZA AND SPT, TEODORO SARAZA
& ROSARIO M. SARAZA
2321 Compadre cor. Compadre St.,
Binala, Marikina

Plaintiff: DIWAYO KARTENYO
Date: July 8, 13 & 22, 2019

Republic of the Philippines
REGIONAL TRIAL COURT
Fourth Judicial Region
Branch 28
Imus, Cavite

IN RE: PETITION FOR THE CANCELLATION
CORRECTION OF ENTRY ON THE CERTIFICATE
OF LIVE BIRTH UNDER THE NAME OF RICHMOND
BARON KUA AND RAINER EARL KUA

RYAN BALBUENA ROPALDO,
Petitioner-Plaintiff

vs
SP PROG. CAAR NO. 1758-18

THE LOCAL CIVIL REGISTRAR OF IMUS CITY,
CAVITE AND THE CIVIL REGISTRAR GENERAL,
PHILIPPINE STATISTICS AUTHORITY AND
ELIZABETH PRINCESS A. KUA,
Respondents.

SECOND NOTICE OF HEARING

This is a verified Petition filed by petitioner Ryan Balbuena Ropaldo, praying that after due notice, hearing and publication of Order he moved ordering the Local Civil Registrar of Imus City, Cavite to cancel the name Richmond Baron Kua and replace the same with Richmond Baron Raa Ropaldo under Registry No. 2017-235 and to correct the name Rainer Earl Kua and replace the same with Rainer Earl Kua Ropaldo under Registry No. 2017-236.

Filing the petition to be sufficient in form and substance, for the same to be set for hearing on August 16, 2019 at 9:00 in the morning before this Honorable sitting at the Highway 40, Marikina, Aguirre Highway, Imus City, Cavite on which date, hour and place, any person interested persons may appear and show cause, if any, why the petition should not be granted.

Let a copy of this Order be published at the expense of the petitioner in a newspaper of general circulation which will be sufficed by the Clerk of Court among accredited newspapers in the Province of Cavite, once a week for three (3) consecutive weeks, and a copy of this Order together with a copy of the petition be furnished the Office of the District Director, Marikina City, the City Civil Registrar of Imus City, Cavite and the Philippine Statistics Authority.

WITNESS the HONORABLE JUDGE JESVA E. SIDCAR,
Acting Presiding Judge of the Court, 8th 543-544 of Imus,
2019 at Imus City, Cavite, Philippines.

(Sgt) MARIE JEAN MANNING
Branch Clerk of Court

Plaintiff: DIWAYO KARTENYO
Date: July 8, 13 & 22, 2019

No guy has a magic.
Magic is in the heart of the girl
loving the guy who can send her
whole being up in 'Cloud Nine'
even with the mere touch on
her fingertips.
-Arnold S. Barco

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
REGIONAL TRIAL COURT
BRANCH 15
NAIC, CAVITE

IN RE: PETITION FOR CANCELLATION
OF THE BIRTH CERTIFICATE BEARING
LCR Registry No. 2019-031 OF MA. CHRISTINA
RAMELO GARCOS

MA CHRISTINA RAMELO GARCOS,
Petitioner.

vs
SP Proc. No. NC-2019-11

THE CIVIL REGISTRAR GENERAL AND
LOCAL CIVIL REGISTRAR OF NAIC,
PROVINCE OF CAVITE,
Respondents.

ORDER

Before this Court is a Petition filed by Ma. Christina Ramelo Garcos through her counsel, Atty. Francisco Ferrera Magtibay, respectfully praying that after due notice and hearing, a decree be rendered and an Order be issued to the Local Civil Registrar of Naic, Cavite and Philippine Statistics Office for the outright cancellation of Petitioner's erroneously recorded Certificate of Live Birth LCR registry number 2019-031.

Filing the petition to be sufficient in form and substance, the hearing of this Petition is hereby set on August 28, 2019 at 9:00 in the afternoon.

Any interested person who wishes to comment and/or oppose the petition may come to this Court on the date, time and place herein above indicated and show cause why the petition should not be granted.

Let copy of this Order be published once a week for three (3) consecutive weeks in a newspaper of general circulation in the Province of Cavite.

Furnish copy of this Order together with copy of the petition to the Office of the Solicitor General and to the Local Civil Registrar of Marikina, Cavite.

SO ORDERED:

Imus, Cavite June 25, 2019

(Sgt) LEROY C. CASTIGARRON
Judge

Plaintiff: DIWAYO KARTENYO
Date: July 8, 13 & 22, 2019

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

Republic of the Philippines
Province of Cavite
Municipality of Alifan

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

Date: July 7, 2019

CCE-0062-2019 R.A. 10172

In Compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (ORR or R.A. 10172), Notice is hereby served to the public that **NISA V. BULLON** has filed with this Office, a petition for correction of entry in the Certificate of Live Birth from "MAY 4, 1977" to "JUNE 4, 1977" in the Certificate of Live Birth of **NISA VILLA BULLON** at Zamora St., Alifan, Cavite and whose parents are: Antonio Basaco Bulon and Teresa Balda Vila.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 22, 2019**.

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

DIYARDO KABITENYO - July 8 & 15, 2019

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

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

CCE-0066-2019

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (ORR or R.A. 10172), Notice is hereby served to the public that **EMILIO C. VEJERANO** has filed with this Office, a petition for correction of entry in the Certificate of Live Birth from **October 26, 1965** to **November 3, 1965** in the Certificate of Live Birth of **GINA VEJERANO** at Indang, Cavite and whose parents are: Melitiano Vejerano and Beatriz Caras.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 22, 2019**.

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

DIYARDO KABITENYO - July 8 & 15, 2019

Republic of the Philippines
Local Civil Registry Office
Province of Cavite
Municipality of Tanza

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

CCE-0017-2019

Date: July 08, 2019

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (ORR or R.A. 10172), Notice is hereby served to the public that **JOAN L. BRAMPALIN** has filed with this Office, a petition for CORRECTION OF ENTRY IN CHILD'S SEX FROM "FEMALE" to "MALE", in the Certificate of Live Birth of **JOAN LANCEUS BRAMPALIN**, who was born on March 28, 1979 at Tanza, Cavite of parents **RINALASCITA & ANTONIO ARCELA BRAMPALIN**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 22, 2019**.

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

DIYARDO KABITENYO - July 8 & 15, 2019

Protein-linked sugars are crucial for the uptake of proteins linked to Parkinson's disease

Parkinson's disease, a neurodegenerative disorder that affects more than 6 million people worldwide, is caused by the buildup of alpha-synuclein proteins in the brain. The biological function of alpha-synuclein is still not well understood, but because of its role in neurodegenerative diseases, researchers are actively studying this protein to understand the mechanisms of the disease and to look for new treatment strategies.

A new study from Elizabeth Rhoades and

Republic of the Philippines
PROVINCE OF CAVITE
MUNICIPALITY OF NAIC
NOTICE TO THE PUBLIC

CCE-0079-2019 R.A. 10172

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (ORR or R.A. 10172), Notice is hereby served to the public that **RODOLFO AQUINO BUNEN** has filed with this Office a petition for correction of entry in date of birth from "DECEMBER 21, 1959" to "DECEMBER 10, 1959" in his Certificate of Live Birth and whose parents are Felix Bunen and Rosa Aquino.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 22, 2019**.

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

DIYARDO KABITENYO - July 8 & 15, 2019

Republic of the Philippines
Local Civil Registry Office
Province of Cavite
Municipality of Tanza

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

CCE-0028-2019

Date: July 08, 2019

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2013-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (ORR or R.A. 10172), Notice is hereby served to the public that **GERRY MAR A. CADRETA** has filed with this Office, a petition for CORRECTION OF ENTRY IN CHILD'S SEX FROM "FEMALE" to "MALE", in the Certificate of Live Birth of **GERRY MAR ABUTES CADRETA**, who was born on May 1967 at Tanza, Cavite of parents **LORENA D. AGUSTIN & ARTURO J. CADRETA**.

Any person adversely affected by said petition may file his/her written opposition with this Office not later than **July 22, 2019**.

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

DIYARDO KABITENYO - July 8 & 15, 2019

pondee Melina Bird found that when alpha-synuclein binds to extracellular glycosaminoglycans, proteins with added sugar molecules, it can be taken up by neurons more easily. The paper also identified a specific presynaptic protein, *neurexin 1?*, as a key regulator in this process and a potential therapeutic target. Their findings were published in the journal *PLoS Biology*.

In one possible model for the pathology of Parkinson's disease, bundles of alpha-synuclein proteins, known

as aggregates, form inside a neuron. This then leads to cell death and the release of alpha-synuclein protein clusters that are taken up by other neurons. Since neurodegenerative diseases have typical progression

patterns, knowing how alpha-synuclein moves between neurons in the brain helps researchers understand disease propagation.

Previous work from the Rhoades lab implicated the presence of a glycan binding site on alpha-synuclein. This finding, combined with Bird's experience in analyzing protein-membrane interactions, led to the study of how alpha-synuclein interacts with cell membranes.

Nerve transfer surgery restores hand function and elbow extension in 13 young adults with complete paralysis

13 young adults nerves below the level of tetraplegia are able to feed themselves, hold a drink, brush their teeth, and write as a result of a novel surgical technique which connects functioning nerves with injured nerves to restore power in paralysed muscles. Nerve transfer surgery has enabled 13 young adults with complete paralysis to regain movement and function in their elbows and hands, according to the largest case series of this technique in people with tetraplegia (paralysis of both the upper and lower limbs), published in *The Lancet*.

During the surgery, Australian surgeons attached functioning nerves above the spinal injury to paralysed

muscles. Two years after surgery, and following intensive physical therapy, participants were able to reach their arm out in front of them and open their hand to pick up and manipulate objects. Restoring elbow extension improved their ability to propel their wheelchair and to transfer into bed or a car.

They can now perform everyday tasks independently such as feeding themselves, brushing teeth and hair, putting on make-up, writing, handling money and credit cards, and using tools and electronic devices.

The findings suggest that nerve transfers can achieve similar functional improvements to traditional

tendon transfers, with the benefit of smaller incisions and shorter immobilisation times after surgery.

In 10 participants, nerve transfers were uniquely combined with tendon transfers allowing different styles of reconstruction to be performed in each hand, and enabling participants to benefit from the innate strengths of both tendon and nerve transfers. Nerve transfers restored more natural movement and finer motor control in one hand, and tendon transfers restored manual power and heavy lifting ability in the other hand.

While only a small study, researchers say that nerve transfers are a major advance in the restoration of hand

and arm function, and offer another safe, reliable surgical option for people living with tetraplegia.

Nevertheless, four nerve transfers failed in three participants and the authors conclude that more research will be needed to determine which people are the best candidates to select for nerve transfer surgery to minimise the incidence of failure.

For people with tetraplegia, improvement in hand function is the single most important goal. We believe that nerve transfer surgery offers an exciting new option, offering individuals with paralysis the possibility of regaining arm and hand functions to perform everyday tasks, and giving them greater

independence and the ability to participate more easily in family and work life," says Dr Natasha van Zyl from Austin Health in Melbourne, Australia who led the research.

"What's more, we have shown that nerve transfers can be successfully combined with traditional tendon transfer techniques to maximise benefits. When grasp and pinch

was restored using nerve transfers in one hand and tendon transfers in the other, participants consistently reported that they liked both hands for different reasons and would not choose to have two hands reconstructed in the same way."

Traditionally, upper limb function has been reconstructed

using tendon transfer surgery, during which muscles that still work, but are designed for another function, are

surgically re-routed to do the work of muscles that are paralysed. In contrast, nerve transfers allow the direct re-animation of the paralysed muscle itself. Additionally, nerve transfers can re-animate more than one muscle at a time, have a shorter period of immobilisation after surgery (10 days in a sling vs 6-12 weeks in a brace for a nerve transfer for elbow extension), and avoid the technical problems associated with tendon transfer surgery including tendon tearing during surgery and mechanical failure (stretch or rupture) after surgery.

Pain signaling in humans more rapid than previously known

Pain signals can travel as fast as touch signals, according to a new study from researchers at Linköping University in Sweden, Liverpool John Moores University in the UK, and the National Institutes of Health (NIH) in the US. The discovery of a rapid pain signaling system challenges our current understanding of pain. The study is published in the scientific journal *Science Advances*.

It has until now been believed that nerve signals for pain are always conducted more slowly than those for touch. The latter signals, which allow us to determine where we are being touched, are conducted by nerve fibers that have a fatty sheath

on pain-signaling receptors, otherwise known as nociceptors. Pain receptors are characterized by the ability to detect noxious stimuli, such as pinching and abrasion of the skin, while not reacting to light touch. The researchers found that 12% of thickly myelinated nerve cells had the same properties as pain receptors, and in these nerve cells the conduction speed was as high as in touch-sensitive nerve cells.

The next step of the scientists' research was to determine the function of these ultrafast pain receptors. By applying short electrical pulses through the measurement electrodes, they could stimulate individual nerve cells. The volunteers

described that they experienced sharp or pin-prick pain.

"When we activated an individual nerve cell, it caused a perception of pain, so we conclude that these other nerve cells are connected to pain centers in the brain," says Sued Nagl.

The research team also investigated patients with various rare neurological conditions. One group of people had, as adults,

acquired nerve damage that led to the thickly myelinated nerve fibers being destroyed, while the small fibers were spared. These patients cannot detect light touch. The scientists predicted that the loss of myelinated nerve fibers should also affect

the rapidly conducting pain system they had identified. It turned out that these people had an impaired ability to experience mechanical pain. Examination of patients with two other rare neurological conditions gave similar results. These results may be highly significant for pain research, and for the diagnosis and care of patients with pain.

"It's becoming evident that thickly myelinated nerve fibers contribute to the experience of pain when it has a mechanical cause. Our results challenge the textbook description of a rapid system for signaling touch and a slower system for signaling pain."

"The ability to feel pain is vital to our survival, so why should

the properties of pain

Imprinted spheres fight breast cancer

A particularly aggressive, metastasizing form of cancer, HER2-positive breast cancer, may be treated with nanoscopic particles "imprinted" with specific binding sites for the receptor molecule HER2. As reported by Chinese researchers in the journal *Angewandte Chemie*, the selective binding of the nanoparticles to HER2 significantly inhibits multiplication of the tumor cells.

Breast cancer is the most common form of cancer in women and one of the leading causes of death. About 20 to 30% of breast cancer cases involve the very poorly treatable HER2-positive variety. HER2 stands for Human Epidermal Growth Factor Receptor 2, a protein that recognizes and binds to a specific growth factor. HER2 spans across the cell membrane; one part

protrudes into the interior of the cell, the other is on the cell surface. As soon as a growth factor docks, the extracellular parts of HER2 bind into a heterodimer with a second, closely related HER, such as HER1 or HER3. This triggers a multistep signal cascade within the cell, which is critically involved in processes like cell division, metastasis, and the formation of blood vessels that supply the tumor. HER2-positive tumor cells contain significantly higher concentrations of HER2. One current therapy for early-stage HER2-positive tumors is based on binding an antibody to HER2 to block the dimerization. Researchers led by Zhen Liu at Nanjing University (China) have now developed "molecularly imprinted" biocompatible polymer nanoparticles that recognize HER2 just as specifically as an anti-

body in order to prevent the dimerization.

Nanoparticles can be molecularly imprinted in that — to simplify — a polymerizable mixture is polymerized into nanospheres in the presence of the (bio)molecules they are supposed to recognize later. The (bio)molecules act as a kind of stamp, leaving nanoscopic "imprints" in the spheres. These then perfectly fit the molecules they were imprinted with and bind to them specifically. In contrast to antibodies, the nanospheres are easy and inexpensive to produce and are chemically stable.

For the imprinting process, the researchers use a special method (bormate affinity controlled oriented surface imprinting) that is particularly controllable and makes it possible to imprint using chains.

World first: Homing instinct applied to stem cells show cells 'home' to cardiac tissue

In a world first, scientists have found a new way to direct stem cells to heart tissue. The findings, led by researchers at the University of Bristol and published in *Chemical Science*, could radically improve the treatment for cardiovascular disease, which causes more than a quarter of

all deaths in the UK. To date, trials using stem cells, which are taken and grown from the patient or donor and injected into the patient's heart to regenerate damaged tissue, have produced promising results. However, while these next-generation cell therapies are on

the horizon, significant challenges associated with the distribution of the stem cells have remained. High blood flow in the heart combined with various 'tissue sinks', that circulating cells come into contact with, means the majority of the stem cells end up in the lungs and spleen.

dti
DEPARTMENT OF TRADE & INDUSTRY
MULTIPLYING

**Q & A on
Consumer Rights**

Q:

**PROBLEMA
SA PRODUCT
QUALITY AND SAFETY?**

A:

**WALA
DAPAT!**

MAY MGA QUALITY AT SAFETY
STANDARDS UPANG MASIGURO
ANG KALIGTASAN AT KASIYAHAN
NG KONSUMER.

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