

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

Proverbs 18:10

DIYARYO
KABITENYO

Nagmamalasakit sa laawigan

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

1 Corinthians 16:13

DOH conducts urine testing in Calabarzon schools; 177 students diagnosed with UTI

The Department of Health (DOH) Calabarzon emphasized the importance of urine testing among children as it can determine whether they have kidney ailments.

"Urine testing or urinalysis is the simplest, safest and inexpensive way to evaluate and detect serious renal disease that may be present in the body," the DOH Calabarzon said.

Recently, the DOH Calabarzon conducted urine testing activities in selected schools in the region. A total of 500 elementary students were screened.

The students

Turn to page 2



Imus residents get free health care services

Residents of Tan-zang Loma IV in the City of Imus showed their gratitude to the medical mission team who conducted free health care

services to the locals of Imus last June 26. Two hundred fifty-nine citizens benefited from free consultations, checkups and tooth

extractions rendered by volunteer doctors, dentists and other medical practitioners from General Emilio Aguinaldo Memorial Hos-

pital (GEAMBH) with Dr. Romelio Canario, City Health Office Dental Team, USK Stride Wing Philippines and Foreward by Care!

Camasigan, a private dental practitioner from Imus, and Visayas were also given to the patients who have

Turn to page 2

DIYARYO KABITENYO

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Papi

Publishers Association of the Philippines, Inc.

New therapy targets gut bacteria to prevent and reverse food allergies

A new study identifies the species of bacteria in the human infant gut that protect against food allergies, finding changes associated with the development of food allergies and an altered immune response.

Every three minutes, a food-related allergic reaction sends someone to the emergency room in the U.S. Currently, the only way to prevent a reaction is for people with food allergies to completely avoid the food

to which they are allergic. Researchers are actively seeking new treatments to prevent or reverse food allergies in patients. Recent insights about the microbiome -- the complex ecosystem of microorganisms that live in the gut and other body sites -- have suggested that an altered gut microbiome may play a pivotal role in the development of food allergies. A new study, led by investigators from Brigham and Women's Hospital and

Boston Children's Hospital, identifies the species of bacteria in the human infant gut that protect against food allergies, finding changes associated with the development of food allergies and an altered immune response. In preclinical studies in a mouse model of food allergy, the team found that giving an enriched oral formulation of five or six species of bacteria found in the human gut protected against food allergies and reversed established dis-

ease by reinforcing tolerance of food allergens. The team's results are published in *Nature Medicine*.

"This represents a sea change in our approach to therapeutics for food allergies," said co-senior author Lynn Bry, MD, PhD, director of the Massachusetts Host-Microbiome Center at the Brigham. "We've identified the microbes that are associated with protection and ones that are associated with food allergies in patients."

(DOI... from page 1)

were from the National Training School in Tanay, Rizal; Carmona National High School in Carmona, Cavite; Paraag Elementary School in Paghilan, Quezon; Sta. Cruz Central Elementary School in Sta. Cruz, Laguna; and San Agustin Elementary School in Ibaan, Batangas.

"A urine test is important to check the color, clarity, odor, concentration, and acidity (pH) of a child's urine including the levels of protein, sugar, blood cells to determine conditions like diabetes, kidney stones, a urinary tract

infection (UTI), high blood pressure, or even kidney or liver diseases. The activity was also done to heighten awareness on kidney diseases to school children," Regional Non-Communicable Disease Control Cluster Head Dr. Marlou Espiritu said.

"We need to conduct screening at an early age in order to provide treatment and prevent the onset of any chronic renal failure among our children," she added.

During the activity, a total of 177 students were diagnosed with UTI and were given antibiotics for treat-

(I.M.U.S... from page 1)

ment. Espiritu said that some of the causes of UTI among children are low water intake, more soft drink consumption, and too much salty food.

Espiritu said that

it is important to have a healthy eating habit, especially the children.

R. Amoroso with the members of the barangay council which include Councillors Juan G. Cinto, Archie T. Piedad, Rosemarie

it is important to have a healthy eating habit, especially the children.

"When we say the right number of healthy eating, it includes a diet that is low in salt, low in fat, low in cholesterol and

D. Castrenarvo, Mila S. Pancho, Rosemarie A. Nombrefia, Marites E. de Querez, and Judy V. Reyes. Barangay health workers and un-

high in dietary fiber and whole grains," she noted.

"Always consume the right number of calories that helps you achieve a healthy body weight. This can reduce the risk of getting obe-

physians from the local and provincial government were also present who assisted the medical team in conducting the outreach event.

city-related chronic diseases including kidney failure," she added.

As much as possible, children should limit the consumption of fast food meals, soft drinks, and junk food, said Espiritu.

PHOTO COURTESY OF BRIGHAM AND WOMEN'S HOSPITAL

DEED OF EXTRAJUDICIAL SETTLEMENT OF ESTATE WITH WAIVER OF RIGHTS

NOTICE is hereby given that the estate of the deceased ALFREDO A. DONES who died intestate at St. Luke's Medical Center located at No. 279 E. Rodriguez St., Alcazar, Quezon City at the age of SIXTY (60), a resident of 3015-B Alang Dang Street, Dr. Ramon Subdivision, Barangay Daring Araya I, Tama, Cavite at the time of his death, consisting of several parcels of land with improvements owned therein, specifically described, to wit:

TRANSFER CERTIFICATE OF TITLE NO. T-41914
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED NINETY THREE (293) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-56144
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED FORTY SEVEN (247) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-55164
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED FORTY TWO (242) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-151771
"A parcel of Land situated in the Barangay of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, EIGHT (8) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-41285
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED NINETY TWO (292) square meters"

TRANSFER CERTIFICATE OF TITLE NO. 657-20182884
"Certain land situated in Barangay of Marikina, City of Marikina, Province of Cavite, consisting an area of FIVE HUNDRED SIXTEEN (516) SQUARE METERS."

TRANSFER CERTIFICATE OF TITLE NO. 657-20182823
"Certain land situated in the District of Trinidad (C-1000000), Man. of Tama, Prov. of Cavite, Island of Luzon, consisting an area of TWO THOUSAND TWO HUNDRED THIRTY SEVEN (2275) SQUARE METERS"

TRANSFER CERTIFICATE OF TITLE NO. 657-20182872
"Certain land situated in the Bldg. of Tama, Prov. of Cavite, Is. of Luzon, containing an area of SIX THOUSAND ONE HUNDRED TWENTY THREE (6123) SQUARE METERS"

TRANSFER CERTIFICATE OF TITLE NO. T-40888
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED SIXTY ONE (261) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-108771
"A parcel of Land sit. in the Bldg. of Tama, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED SEVENTY EIGHT (278) square meters"

CONDOMINIUM CERTIFICATE OF TITLE NO. 6884
"UNIT NO. 21 Is. a Residential (Apartment type) condominium unit located at the 2nd Floor Level, Tower 1 of "BICHON'S PLACE RESIDENCES", containing an area of 51.22 square meters, siting at the Bldg. Augustiniana Bldg. (as specified in the existing owner deed of the condominiums

project situated on Transfer Certificate of Title No. 21144, T-1122 which contains and describes the land located at Padre Faura Street, Ermita, Manila with an area of 2,560.00 square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-68962
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, TWO HUNDRED EIGHTY FIVE (285) square meters"

TAX DECLARATION NO. 19-8932-0220
"A residential building (House II-A) with a total floor area of ONE HUNDRED (100) square meters situated in Barangay Alhambra, Tama, Cavite with market value of P 420,000.00 and assessed value of P 94,000.00"

TAX DECLARATION NO. 12-81-0467
"A residential building (II-B) with a total floor area of SIXTY EIGHT SQUARE METERS and TWENTY SQUARE DECIMETERS (66.20) situated in Barangay San Agustin, Tama, Cavite, with market value of P 341,000.00 and assessed value of P 68,200.00"

TRANSFER CERTIFICATE OF TITLE NO. 657-20188882
"Certain land situated in Bldg. of Kalamwan, Man. of Tama, Prov. of Cavite, containing an area of ONE THOUSAND ONE HUNDRED FIFTEEN (1,115) SQUARE METERS"

TRANSFER CERTIFICATE OF TITLE NO. T-56118
"A parcel of Land situated in the Bldg. of Santa Mayor, Man. of Tama, Prov. of Cavite, Is. of Luzon, containing an area of TWO HUNDRED SIXTY FOUR (264) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-10881
"A parcel of Land situated in the Bldg. of Buzon, San Roque, Man. of Naga, Prov. of Cavite, containing an area of ONE HUNDRED TWENTY SEVEN SQUARE METERS POINTS SIXTY NINE DECIMETERS (127.69)"

TRANSFER CERTIFICATE OF TITLE NO. 657-20188881
"Certain land situated in Tama Marikina City, containing an area of ONE HUNDRED (100) SQ. METERS"

TRANSFER CERTIFICATE OF TITLE NO. 657-20188882
"Certain land situated in TRICE MARIKINA CITY, containing an area of TWO HUNDRED SEVENTY THREE (273) SQ. METERS"

TRANSFER CERTIFICATE OF TITLE NO. 657-20188881
"Certain land situated in Tama Marikina City, containing an area of TWO HUNDRED EIGHTY NINE (289) SQ. METERS"

TRANSFER CERTIFICATE OF TITLE NO. T-11462
"A parcel of Land situated in the Poblacion, Municipality of Calatagan, Province of Batangas, containing an area of TWO HUNDRED TWENTY THREE (223) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-10288
"A parcel of Land situated in the Poblacion, Municipality of Calatagan, Province of Batangas, containing an area of 10000 HUNDRED (000) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-20771
"A parcel of Land situated in the Bldg. of Quezon, City of Tama Marikina City, Man. of Cavite, Is. of Luzon containing an area of 699 HUNDRED (699) square meters"

TRANSFER CERTIFICATE OF TITLE NO. T-20771
"A parcel of Land situated in the Barangay Pampang, Manila, City

of Tagaytay, containing an area of TWO HUNDRED FORTY THREE (243) square meters"

has been adjudicated and extrajudicially settled by and among the heirs in pro-divise equal shares.

FURTHER, KATHERINE RISH D. DONES, PAULO NICOLE D. DONES and DAN FREDERICK D. DONES, do hereby waive their rights, interests, and participation over their respective shares over the above-described parcels of land with improvements located therein embraced by **Transfer Certificate of Title Nos. T-41914, T-56144 and T-55164** in favor of GLORIA D. DONES, free from any liens or encumbrances.

GLORIA D. DONES, does hereby accept the said waiver of rights over the said parcels of property in her favor.

Further GLORIA D. DONES, PAULO NICOLE D. DONES and DAN FREDERICK D. DONES do hereby waive their rights, interests, and participation over their respective shares over the above-described parcels of land with improvements located therein embraced by **Transfer Certificate of Title Nos. T-41914, T-56144, T-55164, 657-20182884 and 657-20182823** in favor of KATHERINE RISH D. DONES, free from any liens or encumbrances.

KATHERINE RISH D. DONES, does hereby accept the said waiver of rights over the said parcels of property in her favor. Moreover, GLORIA D. DONES, KATHERINE RISH D. DONES, and DAN FREDERICK D. DONES, do hereby waive their rights, interests, and participation over their respective shares over the above-described parcels of land with improvements located therein embraced by **Transfer Certificate of Title Nos. 657-20182874, T-40888, T-108771, T-10881, 657-20188881, 657-20188882, 657-20188884, 657-20188885 and 657-20188887** in favor of PAULO NICOLE D. DONES, free from any liens or encumbrances.

PAULO NICOLE D. DONES, does hereby accept the said waiver of rights over the said parcels of property in her favor. Moreover, GLORIA D. DONES, KATHERINE RISH D. DONES, and PAULO NICOLE D. DONES, do hereby waive their rights, interests, and participation over their respective shares over the above-described parcels of land with improvements located therein embraced by **Transfer Certificate of Title Nos. T-56118, T-10881, 657-20188881, 657-20188882, 657-20188884, 657-20188885 and T-20771** in favor of DAN FREDERICK D. DONES, free from any liens or encumbrances.

DAN FREDERICK D. DONES, does hereby accept the said waiver of rights over the said parcels of property in her favor.

Lastly, GLORIA D. DONES does hereby waive her rights, interests, and participation over her share over the above-described parcel of land embraced by **Transfer Certificate of Title No. P-2875** in favor of DAN FREDERICK D. DONES, KATHERINE RISH D. DONES, and PAULO NICOLE D. DONES, free from any liens or encumbrances.

DAN FREDERICK D. DONES, KATHERINE RISH D. DONES, and PAULO NICOLE D. DONES hereby accept the said waiver of rights over the said parcels of property in her favor on May 15, 2019 in the Municipality of Tama, Province of Cavite, Philippines before Honary Public Notary Justice E. Arca and seated in his Personal Register on True No. 088, Page No. 24, Book No. XXXVI, Series of 2019.

(Sgd.) Heirs

Public Notary: DIYAWO KABITAYO
Date: June 17, 2019 and July 1, 2019

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

HOME DEVELOPMENT MUTUAL FUND
Mortgages

Extra-Judicial Foreclosure of Real Estate Mortgage Under Act No. 3155, as Amended, Republic Act No. 4718

SPS. NERIO R. VILLANUEVA AND JOSEPHINE G. VILLANUEVA, Mortgages

EC No. 1657-19

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial petition for sale under Act 3155 as amended by Act 4718 filed by HOME DEVELOPMENT MUTUAL FUND with office address at 726 Floor JELF Business Solutions Center, No. 409 Shaw Boulevard, Mandaluyong City, against SPS. NERIO R. VILLANUEVA AND JOSEPHINE G. VILLANUEVA, with residence and postal address at 3, 4, 5, 6, 8, Paradise Classic II, Ambo I, Iloilo, Cebu 447-N Masantol I, Quezon St., Lower Business, Tagaytay City to satisfy the mortgage indebtedness which as of February 19, 2019 amounts to FOUR HUNDRED SIX THOUSAND EIGHT HUNDRED THIRTY EIGHT PESOS & 30/100 (P406,838.00) Philippine Currency, including interest and penalty charges, attorney's fees, court's fees and all other charges incident to this foreclosure and sale, the undersigned Sheriff IV will sell at Public Auction on August 27, 2019 at 10:00 a.m. or soon thereafter at the main entrance of the Office of the Clerk of Court, RTC, Multiple Risk Building No. 409, Shaw Boulevard, Iloilo, Cebu, to the highest bidder for cash and in Philippine Currency, the following property with all improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE
No. T-568829

A portion of land (Lot 1, 2, 3, 4, 5 of the subdiv. plan, Pgd-64-071770, being a portion of Lot 504, Iloilo Estate, L.R.C. No. 5843), situate in the Vic. of Ambo I, Mun. of Iloilo, Prov. of Cebu. Bounded on the NE, along line 1-2 by Lot 8, on the SW, along line 2-3 by Lot 1, both of Blk. 4, on the NW, along line 3-4 by Blk. Lot 5, 8 on the SE, along line 4-7 by Lot 1, Blk. 4, all of the subdiv. plan, beginning at all pt. marked "1", a x x containing an area of FIFTY (50) SQ. METERS x x x x

All needed bid must be submitted 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. without prior notice.

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

Iloilo, Cebu, Philippines, May 30, 2019

(Sgd.) ANSELMO P. PAGUNSAN, JR.
Sheriff IV

APPROVED:
(Sgd.) RY GALADO E. EUSEBIO
Clerk of Court VI and Ex-Officio Sheriff

Copy Furnished:
HOME DEVELOPMENT MUTUAL FUND
726 Floor JELF Business Solutions Center,
No. 409 Shaw Boulevard, Mandaluyong City

SPS. NERIO R. VILLANUEVA AND JOSEPHINE G. VILLANUEVA
Lot 3, Blk. 4, Paradise Classic II, Ambo I, Iloilo, Cebu
447-N Masantol I, Quezon St., Lower Business, Tagaytay City

Publication: DIARYO KABITENYO
Dates: June 24, July 1 & 8, 2019

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

NATIONAL HOME MORTGAGE FINANCE CORPORATION
Mortgages/Loans

versus EXTRA-JUDICIAL FORECLOSURE OF REAL ESTATE MORTGAGE UNDER ACT 3155 AS AMENDED BY ACT 4718

EC No. 3784-19

OSCAR G. GILBANG married to JOSEFA S. GILBANG, Mortgages

NOTICE OF EXTRA-JUDICIAL SALE

Upon extra-judicial petition for sale under Act 3155 as amended by Act 4718 filed by NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMF), Mortgages, with principal place of business at 104 Arsenales St., Laguna Village, Makati City, against OSCAR G. GILBANG, married to JOSEFA S. GILBANG, mortgages with residence and postal address at Cadden City Iloilo Lot 23 Blk. 30 Brgy. Ambo I, Iloilo, Cebu and in 2013 Robinson II, Pandacan, 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 00/100 (P1,833,758.00), Philippine Currency including interest and penalties, but excluding attorney's fees, sheriff's fees and all other charges incident to this foreclosure and sale, the undersigned will sell at public auction on July 23, 2019 at 10:00 o'clock in the morning or soon thereafter at the main entrance of the Office of the Clerk of Court, RTC, Multiple Risk Building Highway, Iloilo, Cebu to the highest bidder for cash and in Philippine Currency, the following property with all improvements thereon, to-wit:

TRANSFER CERTIFICATE OF TITLE No. T-388778

A portion of land (Lot 22, Blk. 30 of the subdiv. plan Pgd-042109-032270, being a portion of RA, 30, Pgd-04-06619), L.R.C. No. 581, situated in the Vic. of Ambo I, Mun. of Iloilo, Prov. of Cebu, Island of Luzon. Bounded on the SW, along line 1-2 by Lot 21, and along line 2-3 by Lot 28, on the NW, along line 3-4 by Lot 24, all of Blk. 30, on the NE, along line 4-5 by Rural Lot 42 and on the SE, along line 5-1 by Lot 22, Blk. 30, all of the subdiv. plan, a x x containing an area of EIGHTY EIGHT (88) SQUARE METERS x x x

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, it shall be held on July 30, 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 surroundings thereon if any there be.

Iloilo, Cebu, Philippines, May 27, 2019

(Sgd.) EMMANUELLE H. FRANCISCO
Sheriff IV

APPROVED:
(Sgd.) RY GALADO E. EUSEBIO
Clerk of Court VI and Ex-Officio Sheriff

COPY FURNISHED:
NATIONAL HOME MORTGAGE FINANCE CORPORATION
104 Arsenales St., Laguna Village, Makati City

OSCAR G. GILBANG married to JOSEFA S. GILBANG
Cadden City Iloilo Lot 23 Blk. 30 Brgy. Ambo I, Iloilo, Cebu
and/or 2013 Robinson II, Pandacan, Metro Manila

Publication: DIARYO KABITENYO
Dates: June 24, July 1 & 8, 2019

Functional hair follicles grown from stem cells

Scientists from Sanford Burnham Prebys have created natural-looking hair that grows through the skin using human induced pluripotent stem cells (iPSCs), a major scientific achievement that could revolutionize the hair growth industry. The findings were presented June 27 at the annual meeting of the International Society for Stem Cell Research (ISSCR) and received a Merit Award. A newly formed company, Stemsion Therapeutics, has licensed the technology.

More than 80 million men, women and children in the United States experience hair loss. Genetics, aging, childbirth, cancer treatment, burn injuries and medical disorders such as alopecia can cause the condition. Hair loss is often associated with emotional distress that can reduce quality of life and lead to anxiety and depression.

Our new protocol described today overcomes key technological challenges that kept our discovery from real-world use," says Alexey Tersikh, Ph.D., an associate professor in Sanford Burnham Prebys' Deregulation, Aging and Regeneration Program and the co-founder and chief scientific officer of Stemsion Therapeutics. "Now we have a robust, highly controlled method for generating natural-looking hair that grows through the skin using an unlimited source of human iPSC-derived dermal papilla cells. This is a critical breakthrough in the development of cell-based hair-loss therapies and the regenerative medicine field."

Tersikh studies a type of cell called dermal papilla. Residing inside the hair follicle, these cells control hair growth, including hair thickness, length and growth cycle. In 2015, Tersikh successfully grew hair underneath mouse skin (subcutaneous) by creating dermal papilla derived from human pluripotent stem cells -- a tantalizing but uncontrolled process that required further refinement.

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Cavite...
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REPUBLIC OF THE PHILIPPINES
MUNICIPAL TRIAL COURT IN CITIES
CITY OF GENERAL TRIAS
PROVINCE OF CAVITE

FILINVEST LAND, INC.,
Plaintiff,

vs.

CIVIL CASE NO. 1274

FOR: EJECTMENT AND DAMAGES

SPS. ARNOLD I. FLORES, LIZA H. FLORES,
and all persons claiming right under them
and/or in possession of Country Meadow,
Pl. BTA, LA, Brgy. Elang, General Trias,
Cavite,
Defendants.

SUMMONS

TO: SPS. ARNOLD I. FLORES and LIZA H. FLORES
Country Meadow, Pl. BTA, LA, Brgy. Elang,
General Trias, Cavite

Greeting:-

Summons by publication is hereby served upon you together
with the copy of the Complaint in the above entitled case for
Ejectment and Damages. You are hereby required within thirty
(30) days from the date of the last publication to file with this
Court and serve on the plaintiff your Answer to the Complaint.
If you fail to answer within the time fixed, the plaintiff will take
judgment against both of you and may be granted the relief
applied for in the Complaint.

WITNESS, the HON. LEJANI MARIE DACANAY-GRIMARES, Acting Presiding Judge of this Court, this 3rd day
of December, 2018.

(Sgd.) EVANGELINE B. CIRRAMENG
Clerk of Court IV

REPUBLIC OF THE PHILIPPINES
FOURTH JUDICIAL REGION
MUNICIPAL TRIAL COURT IN CITIES
GENERAL TRIAS, CAVITE

FILINVEST LAND, INC.,
Plaintiff

Civil Case No. 1274

For: Ejectment and Damages

SPOUSES ARNOLD I. FLORES, LIZA
H. FLORES, and all persons claiming
right under them and/or in possession
of Country Meadow, Phase I, Block
7A, Lot 6, Brgy. Elang, General Trias,
Cavite,
Defendants.

COMPLAINT

Plaintiff Filinvest Land, Inc., by counsel, respectfully states:

1. FIL is a corporation duly organized and existing under
Philippine laws at its principal office address at Filinvest Building,

79 EDSA, Highway 554, Mandalayring City. It is represented herein
by its First Vice President, Reynaldo Justine S. Nerva II. It may be
notified of the proceedings in this case through undersigned counsel.

2. Defendants spouses Arnold I. Flores and Liza H. Flores, are
both of legal age, Filipinos, and with residence at Country Meadow,
Phase I, Block 7A, Lot 6, Brgy. Elang, General Trias, Cavite,
where they may be served with notices and other processes of this
Honorable Court.

3. The other defendants whose identities are unknown are all other
persons in possession of the subject property, other claiming right
under defendants or by forcible entry. These unnamed defendants
may likewise be served with notices and other court processes at
the subject property.

Allegations Common to All Causes of Action

4. FIL is the owner and developer of the subject property, which
is covered by Transfer Certificate of Title No. T-1064786 registered in
FIL's name. As owner and developer, FIL had prior possession of
the subject property.

5. Defendant spouses Flores offered to purchase the subject
property by installment. Hence, the parties executed a Contract to
Sell¹ over the subject property, with the total contract price of
P280,000.00 to be paid in installments.²

6. FIL allowed defendant spouses Flores to possess the subject
property. Defendants' continued possession of the subject property
was conditioned on their continued payments of the agreed monthly
installment until full payment.

7. However, beginning September 2008, defendant spouses
Flores made no further payment without lawful cause.³

8. FIL repeatedly demanded for the payment of defendants' unpaid
balance. After giving defendants a grace period of at least 60 days,
FIL served a Notice of Cancellation⁴ on defendant Arnold Flores.
Defendant Liza Flores received it on August 14, 2011.⁵

9. Thereafter, FIL served a Notice to Vacate⁶ on defendants,
demanding them to vacate the subject property within 15 days from
receipt thereof. Defendant Liza received it on October 4, 2011.⁷

10. However, the defendants refused to vacate the subject property
and return possession thereof to the plaintiff.

First Cause of Action

11. Upon the effectivity of the material cancellation of the
Contract, defendant spouses Flores and any person claiming right
under them ceased to have any right to possess the subject property.
Thus, FIL demanded defendants to vacate the subject property, but
they refused.

12. In short, defendants have occupied the property from 2004

¹Annex "A" attached
²Annex "B" attached
³Annex "C" attached
⁴Annex "D" attached
⁵Annex "E" attached
⁶Annex "F" attached
⁷Annex "G" attached

to this date, a period of more than seven years, without further
payment of installments due next for the use of property. Clearly,
defendants' continued unlawful possession of the subject property
has caused substantial damage to FIL.

13. As registered owner, FIL has the right to possess the subject
property. While defendants' possession of the property was lawful
at the beginning pursuant to the Contract, the possession became
illegal upon the cancellation thereof and upon notice for them to
vacate the property.

14. Nevertheless, defendants remained in possession of the
subject property and deprived FIL, the registered owner, of
enjoyment thereof. Defendants should therefore be ordered to
vacate the subject property immediately and surrender possession
thereof to the plaintiff.

Second Cause of Action

15. Defendants' unjustified refusal to vacate the subject property
has caused and continues to cause substantial damage to FIL, which
has been unlawfully deprived of its rightful possession, enjoyment,
and use of its own property. Defendants should therefore be made
to pay rent in the amount of at least P2,000.00 monthly from the
date of demand to vacate until actual surrender of the property to
plaintiff, as reasonable compensation for the use and occupation
of the premises.

Third Cause of Action

16. Defendants' obduracy had faith in continuing to occupy the
property despite demand to vacate – especially considering that
they have been occupying the same for many years without paying a
single amortization – constituted FIL to engage the services
of counsel and continue to incur litigation expenses to protect
its interest. Defendants spouses Flores should therefore be held
liable for attorney's fees and litigation expenses in the amount of
not less than P20,000.00.

RELIEF

WHEREFORE, plaintiff Filinvest Land, Inc. respectfully prays
that this Honorable Court order defendants spouses Arnold I.
Flores, Liza H. Flores, and all persons claiming right under them
and/or in possession of the subject property to:

- 1. vacate Country Meadow, Phase I, Block 7A, Lot 6, Brgy. Elang, General Trias, Cavite; and
- 2. pay FIL the following amounts: (i) at least P2,000.00 per month as damages representing reasonable rent for the use of the subject property from date of demand until actual surrender of possession of the property; and (ii) at least P20,000.00 as attorney's fees and costs of suit.

Plaintiff also prays for other just or equitable relief.
Mandalayring City for General Trias, Cavite, October 5, 2018.

LEOGARDO & MAGTANONG
Counsel for Filinvest Land, Inc.
679 Elang, Filinvest Building
79 EDSA, Highway 554
150 Mandalayring City
Telephone Number (02) 918-8188 Local 2224

By:
(Sgd.) OMCAR CARLO F. CARICOM
Roll of Attorneys No. 42629
PBR No. 246840 January 19, 2018 (Mandalayring City)
IBP No. 020664 January 18, 2018 (Mandalayring City)
MCE Compliance No. VAB021 (April 8, 2016)
Email: caricocom@leogardo.com

VERIFICATION AND CERTIFICATION AGAINST FORUM SHOPPING

I, REYNALDO JUANITO S. NIEVA II, of legal age, Filipino and with office address at No. 79 EDRA Highway Hills, Mandaluyong City, Metro Manila, on oath, state:

1. I am the First Vice President of EILINVEST LANDS, INC. ("ELI"), the plaintiff in the above captioned case, and the FLI officer duly authorized to institute and file the instant Complaint on behalf of ELI.

2. I cause the preparation of the Complaint, I have read and understood the contents of said Complaint and all the allegations therein are true and correct of my own personal knowledge and based on authentic records.

3. I further certify the truth of the foregoing facts and undertakings: (a) I have not therefore commenced any other action involving the same issues or relief before the Supreme Court, the Court of Appeals, or different divisions thereof, or any other tribunal or agency; and (b) should I thereafter learn that a similar action or proceeding involving the same issues or relief has been filed or pending before the Supreme Court, the Court of Appeals, or different divisions thereof, or any other tribunal or agency, I hereby undertake to inform this Honorable Court of such fact within five (5) days thereafter.

IN WITNESS WHEREOF, I hereby affix my signature this 9th day of October of 2016 in Mandaluyong City.

REYNALDO JUANITO S. NIEVA II Affiant

SUBSCRIBED AND SWORN to before me, a Notary Public for and in Mandaluyong City, Philippines on October 06, 2016, by affiant, known to me to be the same person who executed the foregoing, and whose identity I have confirmed through his TAX Identification No. 107-995-547, bearing his photograph and signature.

JOYCE G. TORILANO Notary Public for Civil Registrar Commission No. 0011-0105, December 31, 2015, No. 1039

DIWARYO KABITENYO

NOTICE OF CHANGE OF FIRST NAME IN CERTIFICATE OF LIVE BIRTH (CCCPA) of EVELINA RUGACION

NOTICE OF PUBLICATION

Let this NOTICE be published at least once a week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 1 of Republic Act No. 7048.

DIWARYO KABITENYO - June 28 and July 1, 2019

Republic of the Philippines OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

Republic of the Philippines Office of the Municipal Civil Registrar

NOTICE OF CHANGE OF FIRST NAME IN CERTIFICATE OF LIVE BIRTH (CCCPA) of EVELINA RUGACION

NOTICE OF PUBLICATION

Let this NOTICE be published at least once a week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 1 of Republic Act No. 7048.

DIWARYO KABITENYO - June 28 and July 1, 2019

Republic of the Philippines Province of Cebu Municipality of Toranzo OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

NOTICE FOR PUBLICATION

In Compliance with Section 1 of RA 7048, a notice is hereby served to the public that FERNANDO BERNASINA FANGANBAN has filed with his office a petition for Change of First Name from "SERBINO" to "BERNABO" in the Certificate of Live Birth of SERBINO BERNASINA FANGANBAN who was born on 11 February 1947 at Toranzo, Cebu and whose parents are IGNACIO ONABLA FANGANBAN and HONORIA MORALES BERNASINA.

Any person adversely affected by, and petition filed by this within opposition with this Office not later than 05 July 2019.

DIWARYO KABITENYO - June 28 and July 1, 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

EXTRAJUDICIAL

NOTICE OF CHANGE OF FIRST NAME IN CERTIFICATE OF LIVE BIRTH (CCCPA) of EVELINA RUGACION

Publication: 02 Date: 06

EXTRAJUDICIAL

NOTICE OF CHANGE OF FIRST NAME IN CERTIFICATE OF LIVE BIRTH (CCCPA) of EVELINA RUGACION

Publication: 02 Date: 06

Love, signs a real

EXTRAJUDICIAL PARTITION OF ESTATE WITH WAIVER OF RIGHTS AND DONATION

NOTICE is hereby given that the estate of the late **ZENAIDA BROSA TOLEDO** who died intestate on February 11, 2002 in Cavite, Cavite, Philippines, consisting of her one-half (1/2) conjugal share in the parcel of land situated in the block of Lant, Prec. of Cavite, covered by Transfer Certificate of Title No. T-14113, consisting an area of **TWO HUNDRED NINETY FOUR (94) SQUARE METERS**, more or less, together with her one-half (1/2) conjugal share in the residential house covered by Tax Declaration No. 31-0027-02123 with a floor area of 41 Square Meters, more or less, has been the subject of Extra-Judicial Partition of Estate by and between her heirs with waiver of Rights and Donation with **GERONIMO V. TOLEDO JR.**, waiving whatever share, interest and participation he may have in the conjugal estate of the decedent in favor of **GENZEDA BROSA TOLEDO**, also **GERONIMO V. TOLEDO JR. (DONOR)**, he and in consideration of his love and affection for his daughter **GENZEDA BROSA TOLEDO (DONOR)**, does hereby transfer and convey by way of Donation to said **DONOR**, her heirs and assigns his one-half (1/2) conjugal share in TCT No. T-04113 together with the residential house situated therein covered by Tax Dec. No. 31-0027-02123 on June 14, 2019 in the City of Cavite, Philippines before Notary Public Atty. Antonio B. Cabaco and entered in the National Register on Dec. No. 01, Page No. 02, Book No. 3628, Series of 2019.

(Sgd.) **Therese/worked by His/Deceased and signed by His/Donor**

Publication: **DIARYO KABITENYO**
Date: June 24, July 1 & 8, 2019

EXTRAJUDICIAL SETTLEMENT OF THE ESTATE OF THE LATE LPWANAG RICARTE AND ARTEMIO RICARTE

NOTICE is hereby given that the estate of the late **LPWANAG PAKINGAN RICARTE** and **ARTEMIO RICARTE** who both died intestate on May 9, 1991 at Manila Doctors Hospital and on April 27, 2002 at Tanay General Hospital, respectively, consisting of one-fourth (1/4) undivided share of a parcel of land (L 2894-T) located in Anolis, Imus, Cavite containing an area of 871 square meters, more or less, and covered by Transfer Certificate of Title No. T-227268 of the Registry of Deeds for the Province of Cavite, has been adjudicated and extrajudicially settled by and among their heirs equally on June 17, 2019 at Imus, Cavite before Notary Public Atty. Abel G. Gonzales and entered in the National Register on Dec. No. 380, Page No. 76, Book No. 4838, Series of 2019.

(Sgd.) **Heirs**

Publication: **DIARYO KABITENYO**
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. Barco

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. REM-7-19

versus
PURIFICACION F. HONRADA,
Mortgagee-Debtor.

NOTICE OF EXTRA-JUDICIAL SALE

Upon Extra-Judicial Petition for Sale under Act 3122, as amended by Act 4118, filed by mortgagee **JOCELYN PADUA**, with residence and postal address at 766, 2677 J. Felipe Blvd. Cav. Santiago Street, Cavite City, against **PURIFICACION F. HONRADA**, mortgagee, with residence and postal address at No. 21 Baracoa Bay Street, Villa Park Vista, San Roque, Cavite City, to satisfy the mortgage indebtedness which amounts to **SEVEN HUNDRED TWENTY THOUSAND PESOS (P 72,000.00)**, including 10% interest on arrearages thereon, tax, and attorney's fees, and other expenses of foreclosure proceedings, the undersigned Sheriff of the Regional Trial Court in Cavite City will sell at public auction on **AUGUST 2, 2019, at 10:00 o'clock in the morning** at the main entrance of the Cavite Hall of Justice, Santiago 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-28284

"A parcel of land (Lot No. 698B-1-B, of the subdivision plan JAL-04-017-015, being a portion of Lot 608-B-1, (LRC-Pat 417), LRC, Record No. 5964), situated in the Barrio of Tigon, Municipality of Rosario, Province of Cavite, bounded on the SW, along line 1-2 by Lot 608-B-1-A, on the NW, along line 2-3 by Lot 608-B-1-D, on the NE, along line 3-4 by Lot 608-B-1-C, and on the SE, along line 4-1 by Lot 608-B-1-E, (total), all of the subdivision plan, beginning at a point marked "1" and containing an area of **TWO HUNDRED THIRTY SEVEN (37) SQUARE METERS** more or less. All points see."

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, it shall be held on **AUGUST 9, 2019**, at the same time and place, without further notice.

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

Cavite City, June 27, 2019.

(Sgd.) **JENIS B. HLOGON, JR.**, Sheriff IV

Copy furnished:
ATTY. ERITO C. CERDO
RTE 1, Guadalupe Street, Imus, Imus Village, Imus, Cavite City

JOCELYN PADUA
No. 21 Baracoa Bay Street, Villa Park Vista, San Roque, Cavite City

PURIFICACION F. HONRADA
No. 2837 J. Felipe Blvd. Cav. Santiago Street, Cavite City

Tignon, Cavite, Imus, Cavite

Publication: **DIARYO KABITENYO**
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 MARIPON GRAEDON JABILAS TOMAS,

SP. PROC. NO. 8-0476

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, **MARIPON GRAEDON JABILAS TOMAS**, to be her all legal income and purposes, the adopted child of the herein petitioner and for her to enjoy the rights pertaining thereto.

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 9:30 a.m., on which date, time and place, interested parties are cited 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 the petition and of this Order be furnished the Solicitor General, the Department of Social Welfare and Development and the Court Social Worker.

SO ORDERED.

Given this 18th day of June, 2019, Cavite City, Philippines.

(Sgd.) **REYLEE-JANE BARRAQUAS**, Acting Presiding Judge

Publication: **DIARYO KABITENYO**
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
Province of Cavite
Municipality of Alifan

OFFICE OF THE MUNICIPAL CIVIL REGISTRAR

Publication Notice
R.A. 10172

NOTICE TO THE PUBLIC

Date: June 17, 2019

CC-009-DIV R.A. 10172

In Compliance with the publication requirement and pursuant to (ICRMO Memorandum Circular No. 2013-1) Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (O.R. on R.A. 10172), there is hereby advised the public that **JAYCEE R. ANDINO** has filed with this office a petition for correction of entry in sex from "FEMALE" to "MALE" in the certificate of live birth of **JAYCEE R. ANDINO** of Carabanga II, Alifan, Cavite and whose parents are **Pedrofrancisco A. Andino** and **Fa H. Andino**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **July 15, 2019**.

(Sgd.) **BERESITA A. GALANG**
City Registrar

DIARYO KABITENYO - July 1 & 8, 2019

Republic of the Philippines
OFFICE OF THE CITY
CIVIL REGISTRAR
City of General Trias, Cavite
(046) 989-9814

NOTICE OF PUBLICATION

In compliance with Section 5 of R.A. 10172, a notice is hereby served to the public that **ELBA LUBRIGAN MAGNO** has filed with this Office a petition for Change of First Name from **MARIA ELBA TO ELBA** in the birth certificate of **MARIA ELISA L. MAGNO** who was born on 04 June 1968 at General Trias, Cavite and whose parents are **Francisco Magno** and **Theresea Lubigan**.

Any person adversely affected by said petition may file his/her written opposition to this Office not later than **July 15, 2019**.

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

DIARYO KABITENYO - July 1 & 8, 2019

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

NOTICE OF PUBLICATION

In compliance with Sec. 5 of R.A. 10172, a notice is hereby served to the public that (Petitioner) has filed with this Office a petition for Change of First Name from **MARIANORMA TO MA, NORMA** in the birth certificate of **MARIA NORMA ENCARNACION MORA** who was born on **FEBRUARY 18, 1987** at **NAIC, CAVITE**, child of spouses **ARMANDO MORA** and **NORMA ENCARNACION**.

Any person adversely affected by said petition may file his written opposition to this Office not later than **July 15, 2019**.

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

DIARYO KABITENYO - July 1 & 8, 2019

Heart-healthy effects of soy consistent over time

Researchers at the University of Toronto have found a consistent cholesterol-lowering effect for soy protein with pooled data from dozens of clinical trials that span the last two decades.

The study calls into question the U.S. Food and Drug Administration's current proposal to revoke the health claim for soy protein and heart disease.

"At no time since the original claim for soy as a reducer of se-

rum cholesterol has its ability been in question," says David Jenkins, professor of nutritional sciences and medicine at U of T. "It's been consistent since 1999. The data have not changed."

The researchers showed a reduction from soy in both total cholesterol and low-density lipoprotein cholesterol, which can damage the heart.

The effect is steady across all 48 trials that the FDA cited in 2017,

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

RA Form 901 (1) (ICRMO)

NOTICE FOR PUBLICATION

In Compliance with Section 5 of R.A. 10172, a notice is hereby served to the public that **ROSELIO BALTISTA LEGASPI** has filed in this office a petition for Change of First Name from "RUEL" to "ROSELITO" in the Certificate of Live Birth of **RUEL BALTISTA LEGASPI** who was born on **21 June 1983** at **Ternate, Cavite** and whose parents are **DOMENADUH BISCOLEGASPI** and **AURORA CASAPERRIS BALTISTA**.

Any person adversely affected by said petition may file his written opposition with this office not later than **12 July 2019**.

(Sgd.) **MARIETA B. LOZANO**
Municipal Civil Registrar

DIARYO KABITENYO - July 1 & 8, 2019

when it first proposed to revoke the health claim for soy based on recent trials that showed variable results.

The journal of the American Heart Association published the findings June 27.

"Sometimes you see a regression to the mean, where analyses with small studies produce big effects that diminish over time as sample sizes increase and results get more precise," says John Steyerjager, a professor of nutritional sciences at U of T and clinical scientist at St. Michael's Hospital who co-authored the study. "We saw that with fish oil, for example. But in this case nothing has

changed."

The researchers performed a cumulative meta-analysis, which let them look at the effect of soy in all the trials combined, but at different points in time with the addition of data from each new trial. The FDA will likely make a decision on the health claim for soy this summer, options include a full retraction and retention of a qualified health claim.

"These data strongly support the rationale behind the original FDA heart health claim for soy," says Jenkins, who is also a researcher in the Journal of British Nutrition at U of T and a clinician-scientist at St. Michael's Hospital. "And it's important to note that while the reduction in cholesterol was less than five percent, if you put that together with other plant-based foods as a portfolio you get a much stronger effect."

Jenkins and his colleagues in the 1980s pioneered the glycemic index, which shows the effect of various foods on blood sugar levels. More recently, he helped develop a dietary portfolio that includes nuts, plant-based protein, viscous fibre and plant sterols, which together can lower risk factors for heart disease by up to 30 per cent.

'Shooting stars' during cell development impact risk for disease

Fleeting differences in gene expression between individuals that occur at different points in time during cell development may have consequences on the ultimate risk for disease in mature tissues and cell types.

In a new study published last week in *Science*, researchers from the University of Chicago and Johns Hopkins University announced RNA sequence data from 16 time points in human stem cells as they developed into cardiomyocytes, or heart muscle cells.

In the process, they identified hundreds of expression quantitative trait loci (eQTLs), sections of DNA that are associated with differences in gene expression between individuals.

unless you study those particular cell types at that particular time, you'll never see them."

The project was a collaboration between Gilad's lab at UChicago and the lab of Alexa Battle, PhD, an Associate Professor of Biomedical Engineering at Johns Hopkins University. They started with pluripotent stem cells, a type of artificial stem cells that can be coaxed into growing into many different cell types. For this study, the cells were differentiated into cardiomyocytes, the primary contracting muscle cells in the heart.

The researchers sampled RNA from the cells once a day over 16 days as they developed into cardiomyocytes. This allowed them to measure gene expression every single day in cell types that were not truly the beginning stem cells and not truly mature heart cells either. Instead of getting one snapshot of genetic activity by sampling adult tissues, they were able to see 16 additional snapshots leading up to that point as well.

The fleeting differences that occur during development could help explain differences in risk for complex diseases such as cancer, heart disease or diabetes that aren't caused by a single genetic mutation. Instead, these complex diseases are likely caused by dozens, if not hundreds, of subtle genetic mutations combined with interactions with lifestyle and the environment. On their own, these small

mutations don't affect your overall health, but together, they can elevate risk for particular diseases. The new research shows that these small genetic differences could impact gene expression at many points along the way.

"We think a lot of the relevant molecular changes that can ultimately explain your risk profile are not going to occur in your mature tissues of the heart, liver or pancreas that we can sample from adults. They're probably occurring somewhere much earlier."

The process of taking stem cells from a person, coaxing them into different kinds of mature cells — while periodically sampling RNA expression along the way — is still time-consuming and expensive, so the findings of this study won't immediately turn into a diagnostic tool. But Gilad says as researchers learn more about what these "shooting star" differences in gene expression mean, they may be able to spot the final genetic signatures they leave in mature tissues. That way, if they see a certain pattern in the genome, for example, they might know it means there was a particular level of expression on a certain day of development for those specific cell types.

"We can now think in another dimension," Gilad said. "Instead of taking a human and sampling everything you see in front of you, we now know there's a history."

Computational tool predicts how gut microbiome changes over time

A new computational modeling method uses snapshots of which types of microbes are found in a person's gut to predict how the microbial community will change over time. The tool, developed by Liat Shenhav, Leah Briscoe and Mike Thompson from the Halperin lab, University of California Los Angeles, and colleagues at the Mirashi lab at Ben-Gurion University, Israel, is presented in *PLoS Computational Biology*.

The types and relative amounts of microbes found in a person's gut can reflect and affect the state of their health. Knowing how this microbial community composition

changes over time could provide key insights into health and disease. However, it is unclear to what degree the microbial community composition of a person's gut at a given moment determines its future composition.

To address this question, Shenhav and colleagues developed Microbial community Temporal Variability Linear Mixed Model (MTV-LMM), a new method for modeling temporal changes in the microbial composition of the gut.

When tested against real-world data, the new tool makes more accurate predictions than do other models previously developed for the same purpose.

The researchers then used MTV-LMM to surface new insights into microbiome dynamics. For instance, they demonstrated that, in both infants and adults, gut microbiome community composition can indeed be accurately predicted based on earlier observations of the community. They also applied the model to data from 39 infants and revealed a key shift around the age of 8 months in how the gut microbiome changes over time.

Looking forward, MTV-LMM could be applied to explore temporal dynamics of the gut microbiome in the context of disease, which could lead to improved diagnosis and treatment. It could also be useful for understanding other types of temporal microbiome processes, such as those occurring during digestion.

"Our approach provides multiple methodological advancements, but this is still just the tip of the iceberg," Shenhav says. In the future, she and her colleagues will work to further improve the prediction accuracy of the model and explore additional applications. "Modeling the temporal behavior of the microbiome is a fundamental scientific question, with potential applications in medicine and beyond."

Students chowing down tuna in dining halls are unaware of mercury exposure risks

A surprising number of students eating tuna at university dining halls have been helping themselves to servings of tuna well beyond the amounts recommended to avoid consuming too much mercury, a toxic heavy metal.

Researchers at UC Santa Cruz surveyed students outside of campus dining halls on their tuna consumption habits and knowledge of mercury exposure risks, and also measured the mercury levels in hair samples from the students. They found that hair mercury levels were closely correlated with how much tuna the students said they ate. And for some students, their hair mercury measurements were above what is considered a "level of concern."

"It doesn't necessarily mean that they would be experiencing toxic effects, but it's a level at which it's recommended to try to

lower your mercury exposure," said Myra Finkelman, an associate adjunct professor of environmental toxicology at UC Santa Cruz. "Our results were consistent with other studies of mercury levels in hair from people who eat a lot of fish."

Tuna and other large fish contain significant amounts of mercury in its most toxic form (methylmercury), and exposure to high levels of methylmercury can cause neurological damage.

Because of its effects on neurological development and reproductive health, concerns about mercury exposure are greatest for pregnant women and children. Finkelman said college students should also limit their exposure to mercury because their nervous systems are still developing and they are of reproductive age.

Low-cost retinal scanner could help prevent blindness worldwide

Biomedical engineers at Duke University have developed a low-cost, portable optical coherence tomography (OCT) scanner that promises to bring the vision-saving technology to underserved regions throughout the United States and abroad.

Thanks to a re-designed, 3D-printed spectrometer, the scanner is 15 times lighter and smaller than current commercial systems and is made from parts costing less than a tenth of the retail price of commercial systems — all without sacrificing imaging quality.

In its first clinical trial, the new OCT scanner produced images of 120 retinas that were 95 percent

as sharp as those taken by current commercial systems, which was sufficient for accurate clinical diagnosis.

The results appear online on June 28 in *Translational Vision Science & Technology*, an ARVO journal.

In use since the 1990s, OCT imaging has become the standard of care for the diagnosis of many retinal diseases including macular degeneration and diabetic retinopathy, as well as for glaucoma. However, OCT is rarely included as part of a standard screening exam since machines can cost more than \$100,000 — meaning that usually only larger eye centers have them.

“Once you have lost vision, it’s very difficult to get it back,

so the key to preventing blindness is early detection,” said Adam Wax, professor of biomedical engineering at Duke. “Our goal is to make OCT drastically less expensive so more clinics can afford the devices, especially in global health settings.”

OCT is the optical analogue of ultrasound, which works by sending sound waves into tissues and measuring how long they take to come back. But because light is so much faster than sound, measuring time is more difficult. To time the light waves bouncing back from the tissue being scanned, OCT devices use a spectrometer to create misalignments.

Wax’s design, however, takes the light on a circular path within a housing made mostly from 3D-printed plastic. Because the spectrometer light path is circular, any expansions or contractions just as on a shelf in due to temperature changes occur symmetrically, balancing themselves out to keep the optical elements aligned. The device also uses a larger detector at the end of the light’s journey to make misalignments less likely.

Traditional OCT machines weigh more than 60 pounds, take up an entire desk and cost anywhere between \$50,000 and \$120,000. The new OCT device weighs four pounds, is about the size of a lunch box and, Wax expects, will be sold for less than \$15,000.

“Right now OCT devices sit in their own room and require a

PhD scientist to tweak them to get everything working just right,” said Wax. “Ours can be taken down, used and put back without problems. We’ve scanned people in a Starbucks office and put

In the new study, Niklas Ulrich, retina surgeon and associate professor of ophthalmology at the University of North Carolina School of Medicine, put the new OCT scanner to the test against a commercial instrument produced by Heidelberg Engineering. He performed clinical imaging on both eyes of 60 patients, half from healthy volunteers and half with some sort of retinal disease.

Disrupted sleep in one's 50s, 60s raises risk of Alzheimer's disease

People who report a declining quality of sleep as they age from their 50s to their 60s have more protein tangles in their brain, putting them at higher risk of developing Alzheimer's disease later in life, according to a new study by psychologists at the University of California, Berkeley.

The new finding highlights the importance of sleep at every age to maintain a healthy brain into old age.

"Insufficient sleep across the lifespan is significantly predictive of your development of Alzheimer's disease pathology in the brain," said the study's senior

author, Matthew Walker, professor of psychology. "Unfortunately, there is no decade of life that we were able to measure during which you can get away with less deep sleep. There is no Goldilocks decade during which you can say, 'This is when I get my chance to start sleep.'"

Walker and his colleagues, including graduate student and first author Joseph Winer, found that adults reporting a decline in sleep quality in their 60s and 50s had more beta-amyloid protein in their brains later in life, as measured by positron

emission tomography, or PET. Those reporting a sleep decline in their 50s and 60s had more tau protein tangles. Both beta-amyloid and tau clusters are associated with a higher risk of developing dementia, though not everyone with protein tangles goes on to develop symptoms of dementia.

Based on the findings, the authors recommend that doctors ask older patients about changes in sleep patterns and intervene when necessary to improve sleep to help delay symptoms of dementia.

Urinary tract and other infections may trigger different kinds of stroke

Several infections have been identified as possible stroke triggers, with urinary tract infections showing the strongest link with ischemic stroke, according to new research in the American Heart Association's journal *Stroke*.

Previous research examined infections as triggers of stroke, but were limited to the correlation of acute infections with ischemic stroke, a type of stroke

caused by blocked blood vessels in the brain, and a wider range of infections, and examined connections with two other types of stroke: hemorrhagic, which is caused by a ruptured blood vessel in the brain, and

a type of stroke that results from bleeds in the inner lining of the brain, called subarachnoid hemorrhage.

Healthcare providers need to be aware

that stroke can be triggered by infections, said Mandip Dhamoon, M.D., Dr.PH., senior study author and associate professor of neurology at the Icahn School of Medicine at Mount Sinai in New York City. "Probing into the previous weeks or months of a patient's life before the stroke can sometimes help to illuminate the possible cause of stroke if there was an infection during that time."



Q & A on Consumer Rights

Q:

PROBLEMA SA PRODUCT QUALITY AND SAFETY?

A:

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