

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

Proverbs 18:10

# DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

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

1 Corinthians 16:13

## Cavite PPO adopts 'My Brother's Keeper' forum

DMUS CITY

Cavite - "My Brother's Keeper" (MBK) is one of the initiative programs of the Philippine National Police (PNP) for the department's internal cleansing.

In line with this, the Cavite Police Provincial Office (PPO) organized the forum officiated by Bishop Arnold Arallano, chairperson of Cavite Provincial Advisory Council at Mayor's Hall, Camp Pantaleon Garcia here last Feb. 13.

DFDA PICTOR  
Fabian A. Nigangay,  
DPOO PICTOR, Reyner V. Palomo, Command Staffs and all signed leaders of Police Provincial Headquarters fully supported the  
Turn to page 2



Bishop Arnold Arallano speaks before Cavite PPO officers and members for their initial 'My Brother's Keeper' forum last Feb. 13 at the Camp Pantaleon Garcia in Inoa City, Cavite.

## ASF-affected hog raisers in Cavite get financial assistance

Cavite is one of the provinces affected by the African Swine Fever (ASF) epidemic which afflicted more than 500 hog raisers in the province with confirmed cases in the cities of Bacoor, Dasmariñas, Iba

and Gen. Trias. Prompted by the situation, the Sangguniang Panlalawigan passed Resolution No. 1352-2019 which declared the province under the state of calamity on November

13, 2019 and authorized the release of funds to address the ASF and mitigate its impact. The fund amounting to more than P11M was distributed as financial assistance to small hog raisers affected by the

calamity computed based on the number of pigs affected equivalent to P5p 2,000 each. Last Feb. 11, the distribution of financial assistance began with the first batch of

100 beneficiaries from the city of Bacoor and on February 12, in the following cities: Iba with 32 hog raiser beneficiaries, Dasmariñas, 273, and Gen. Trias, 116.  
Turn to page 2

# DIYARYO KABITENYO

ISSN: 2551-821X

ARNULFO BARCO

*Publinterim - Editor*

GENER BARCO

*Operations Manager*

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## Papi

Publishers Association of the Philippines, Inc.

# Huge bacteria-eating viruses close gap between life and non-life

Scientists have discovered hundreds of unusually large, bacteria-killing viruses with capabilities normally associated with living organisms, blurring the line between living microbes and viral machines.

These phages—about for bacteriophages, so-called because they “eat” bacteria—are of a size and complexity considered typical of life, carry numerous genes normally found in bacteria and use these genes against their bacterial hosts.

University of California, Berkeley, researchers and their collaborators found these large phages by scouring a large database of DNA that they generated from nearly 30 different Earth-en-

vironments, ranging from the guts of premature infants and pregnant women to a Tibetan hot spring, a South African bio-reactor, hospital rooms, oceans, lakes and deep underground.

Altogether they identified 551 different huge phages, all with genomes four or more times larger than the average genomes of viruses that prey on single-celled bacteria.

Among these is the largest bacteriophage discovered to date: its genome, 735,000 base-pairs long, is nearly 13 times larger than the average phage. This largest known phage genome is much larger than the genomes of many bacteria.

“We are exploring Earth’s microbiomes,

and sometimes unexpected things turn up. These viruses of bacteria are a part of biology of replicating entities that we know very little about,” said Jill Banfield, a UC Berkeley professor of earth and planetary science and of environmental science, policy and management, and senior author of a paper about the findings appearing Feb. 12 in the journal *Nature*.

“These large phages bridge the gap between non-living bacteriophages, on the one hand, and bacteria and Archaea. They definitely seem to be successful strategies of existence that are hybrid between what we think of as traditional viruses and traditional living organisms.”

“We are exploring Earth’s microbiomes, and sometimes unexpected things turn up. These viruses of bacteria are a part of biology of replicating entities that we know very little about,” said Jill Banfield, a UC Berkeley professor of earth and planetary science and of environmental science, policy and management, and senior author of a paper about the findings appearing Feb. 12 in the journal *Nature*. “These large phages bridge the gap between non-living bacteriophages, on the one hand, and bacteria and Archaea. They definitely seem to be successful strategies of existence that are hybrid between what we think of as traditional viruses and traditional living organisms.”

in the DNA that these huge phages lug around are parts of the CRISPR system that bacteria use to fight viruses. It’s likely that, once these phages infect their DNA into bacteria, the viral CRISPR system segments the CRISPR system of the host bacteria, probably mostly to target other viruses.

“It is fascinating how these phages have repurposed this system we thought of as bacterial or archaeal to use for their own benefit against their competition, to fuel warfare between these viruses,” said UC Berkeley graduate student Basem Al-Jarrah.

Al-Jarrah and research associate Rohan Acharya are co-first authors of the *Nature* paper.

(CAVITE... from page 7)

activity softens the hearts of PNP FPOs across the country had conducted similar forums and regular Bible studies under this program to give opportunities for young and new police officers to be guided by senior police officers thru a bond of brotherhood and accountability.

“It is an operational directive that softens the hearts of even hardened policemen who are floundered and have gone astray.” Bishop Ayella no said. The forum will be conducted every Monday on a weekly basis to continuously develop and support the young Christian officers to become God-fearing, family and service oriented.

(ASP... from page 7)

The Provincial Social Welfare and Development Office (PSWDO) and Provincial Disaster Risk Reduction and Management Office led the distribution of financial assistance in coordination with the local and veterinary offices. Disaster Risk Reduction and Management and City Social Welfare officers.

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

**NATIONAL HOME MORTGAGE  
FINANCE CORPORATION (NHMFC)**  
Petitioner/Mortgagee

**FILE NO. FC-DC-462-19**  
EXTRA-JUDICIAL FORECLOSURE  
OF REAL ESTATE MORTGAGE  
UNDER ACT 3131, AS AMENDED  
BY ACT 6118

**SPS. SEGUNDA BOYSA BERIN  
and SIMON R. BERIN**  
Respondent/Mortgagee

**NOTICE OF SHERIFF'S SALE**

Upon extra-judicial petition for sale under Act 3131, as amended by Act 6118 filed by the petitioner-mortgagee, NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMFC), a government owned and controlled corporation created under P.D. No. 1207, with postal address 726 Amorsolo St., Legaspi Village, Manila City in regard to the respondent-mortgagee, SPS. SEGUNDA BOYSA BERIN and SIMON R. BERIN, with present addresses at Block 47 Lot 23 Quana City Subdivision, Bigay, Talavera, Cavite, Province of Cavite under Reg. Case No. T-1994-0187, which is for the satisfaction of the mortgaged note which as of March 31, 2020 amounts to FIVE HUNDRED EIGHT THOUSAND ONE HUNDRED TWENTY EIGHT PESOS & 24/100 (P58,128.28), inclusive of all legal fees and expenses incurred by this mortgagee and also for satisfaction of the mortgaged deed with all of which on March 11, 2020 (which is the date of its registration in the Court Books of Branch 90, Regional Trial Court, General Trial, Davao Region Community Affairs (DASCA) Building, Congressional Road, Zamboanga City, Province of Davao) until the highest bidder will pay CASH or CERTIFIED CHECK, in Philippine Currency, the following described real property together with all the buildings and other improvements existing thereon, to-wit:

**Transfer Certificate of Title No. T-90847**

IT IS HEREBY CERTIFIED that certain land situated in the Municipality of Danabarán, Province of Cavite is described as follows:

A parcel of land (Lot 2, Blk. 7 of the subdivision, plan PS-84219-80966) being a portion of Lot 777, A-2, Subdivisión-MANILA, L.R.C. No. 1, situated in the Bigay, Talavera, Prov. of Danabarán, Province of Cavite, Bld. of Licens. Based on the N.C., along line 1-2 to 34 3/4, on the SE, along line 3-5 by Lot 17, both pts. 47' on the SW, along line 3-8 by Reg. No. 19, on the SW, along line 4-1 by Lot 51, all of the said plan, beginning at a pt. marked "1" on plan, being 5' 1/2 deg. 30", N 81° 48' E on S. 40m. C.L., then East, thence N. 42 deg. 00", W 17 1/2 m. to pt. 2, thence S 77 deg. 15", W 9.5m. to pt. 3, thence N. 42 deg. 30", W 1.75 m. to pt. 4, thence N. 77 deg. 15", W 9.75 m. to pt. 5, and beginning, continuing on and of THIRTY FIVE SQ. METERS & SIXTY THREE SQ. MET. (35.63), all pt. situated in one indicated on the plan & are marked on the ground by 75 sq. cent. corner. Clarified: bearing true date of reg. survey, July 15, 1951. June 11, 1988 & that of the said survey, No. A-23, 1951 & was approved on Mar. 3, 1981.

Respectfully advise and hold you hereby notified in accordance with the provisions of Act 3131 of the said real property and the associated interests, if there be any.

All stated lots must be submitted to the undersigned on the above-said date and time.

In compliance with the provisions of the law, this notice shall take place on the said date and time, it shall be held on March 18, 2020, at the same time and place without further notice.

08 November 2019, Danabarán City, Province of Cavite.

Judge: ALVARO D. SILLARES  
SHERIFF

Atty: MARCELA C. RAYBA  
CLERK IN COURT

**Copy ForWARDED:**

1. NATIONAL HOME MORTGAGE FINANCE CORPORATION (NHMFC)  
108 Amorsolo St., Legaspi Village, Manila City

2. SPS. SEGUNDA BOYSA BERIN and SIMON R. BERIN  
Block 47 Lot 23 Quana City Subdivision  
Bigay, Talavera, Danabarán City, Province of Cavite

3. Davao Region, Cavite, Talavera, Bigay

4. The National Board of Regional Trial Courts, Danabarán City, Cavite  
5. The National Board of Danabarán City, Cavite  
6. The National Board of Danabarán City, Cavite  
7. The National Board of Danabarán City, Cavite  
8. The National Board of Danabarán City, Cavite

9. Notarization: EDUARDO C. SANDRINO  
Date: February 17, 2020

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

**HOME DEVELOPMENT MUTUAL FUND**  
OHMOR (for short known as PAF-ORC Fund)  
Petitioner/Mortgagee

**FILE NO. FC-DC-462-19**  
EXTRA-JUDICIAL FORECLOSURE  
OF REAL ESTATE MORTGAGE  
UNDER ACT 3131, AS AMENDED  
BY ACT 6118

**JOY DAR LIBRATIQUE married to  
CARMENCITA CASTRO LIBRATIQUE**  
Respondent/Mortgagee

**NOTICE OF SHERIFF'S SALE**

Upon extra-judicial petition for sale under Act 3131, as amended by Act 6118 filed by the petitioner-mortgagee, HOME DEVELOPMENT MUTUAL FUND (for short known as PAF-ORC Fund), a government owned and controlled corporation organized and existing under and by virtue of Republic Act No. 9678, with postal address at 127-Pinar 1212 Business Solutions Center, No. 401 Shaw Boulevard, Mandaluyong City, against the respondent-mortgagee, JOY DAR LIBRATIQUE married to CARMENCITA CASTRO LIBRATIQUE, with present address at Block 7 Lot 2 Bantayan Road, Bigay, Talavera, Danabarán City, Province of Cavite under Reg. Case No. 2019-0187 under Reg. Case No. T-90847, which is for the satisfaction of the mortgaged note which as of April 15, 2020 amounts to TWO HUNDRED EIGHTY TWO THOUSAND EIGHT HUNDRED TEN PESOS & 96/100 (P282,010.96), inclusive of all legal fees and expenses incurred by this mortgagee and also, the mortgaged deed with all of which on March 11, 2020 (which is the date of its registration in the Court Books of Branch 90, Regional Trial Court, General Trial, Davao Region Community Affairs (DASCA) Building, Congressional Road, Zamboanga City, Province of Cavite) until the highest bidder will pay CASH or CERTIFIED CHECK, in Philippine Currency, the following described real property together with all the buildings and other improvements existing thereon, to-wit:

**Transfer Certificate of Title No. T-90847**

IT IS HEREBY CERTIFIED that certain land situated in the MUNICIPALITY OF DANBARAN, PROVINCE OF CAVITE is described as follows:

A parcel of land (Lot 2, Blk. 7 of the subdivision, plan PCS-84219-80966) being a portion of the lots of lot 977, Torres Torres & Lot 574-A-LR-C, 175B 75505, L.R.C. No. 700-1-1, situated in the Bigay, Talavera, Municipality of Danabarán, Province of Cavite, Island of Luzon, bounded on the SW, along line 1-1 by Lot A, Blk. 7 Section 1 on the NE, along line 3-8 by Alder 24 on the NE, along line 3-8 by Road, Lot 1, all on the SW, along line 6-1 by Lot 1, Blk. 7, Section 2, all of the same subdiv. plan, beginning at a pt. marked "1" on plan lying from 5m. 5, then East, thence N. 78 deg. 30", W 10.00 m. to pt. 2, thence S. 19 deg. 00", W 6.00 m. to pt. 3, thence S. 70 deg. 32", W 15.05 m. to pt. 4, thence N. 19 deg. 00", W 6.00 m. to the pt. of beginning, continuing on and of SIXTY (60) SQ. METERS, all pt. referred to are indicated on the plan and are marked on the ground by P.S. C.V. CONC. MARKS, 15 x 80 cm., bearing true date of reg. survey July 27, 1989-June 11, 1988 and that of the said subdiv. March 30-April 15, 1984 and was approved as:

Respectfully advise and hold you hereby notified in accordance with the provisions of Act 3131 of the said real property and the associated interests, if there be any.

All stated lots must be submitted to the undersigned on the above-said date and time.

In compliance with the provisions of the law, this notice shall take place on the said date and time, it shall be held on March 18, 2020, at the same time and place without further notice.

08 November 2019, Danabarán City, Province of Cavite.

Judge: ALVARO D. SILLARES  
SHERIFF

Atty: MARCELA C. RAYBA  
CLERK IN COURT

**Copy ForWARDED:**

1. HOME DEVELOPMENT MUTUAL FUND (OHMOR) (for short known as PAF-ORC Fund)  
127-Pinar 1212 Business Solutions Center, No. 401 Shaw Boulevard, Mandaluyong City

2. JOY DAR LIBRATIQUE married to CARMENCITA CASTRO LIBRATIQUE  
Block 7 Lot 2 Bantayan Road  
Bigay, Talavera, Danabarán City, Province of Cavite

3. Davao Region, Cavite, Talavera, Bigay

4. The National Board of Regional Trial Courts, Danabarán City, Cavite  
5. The National Board of Danabarán City, Cavite  
6. The National Board of Danabarán City, Cavite  
7. The National Board of Danabarán City, Cavite  
8. The National Board of Danabarán City, Cavite

9. Notarization: EDUARDO C. SANDRINO  
Date: February 17 & 18, 2020















Republic of the Philippines  
**OFFICE OF THE MUNICIPAL  
 CIVIL REGISTRAR**  
 Building 3, 6th  
 Division Office,  
 S.A. 1072

**NOTICE TO THE PUBLIC**

CC-096-2020  
 CCN-02-2020

In compliance with the publication requirement and pursuant to OCB's Memorandum Circular No. 2017-1, Guidelines on the Implementation of the Administrative Order No. 1 (Series of 2012) (OR) on R.A. 10727, Notice is hereby served to the public that the Status of Document Change that filed with this Office, a petition for CHANGE OF FIRST NAME from "ARCANGELYN" to "ARCANGEL" and CORRECTION OF DATE OF BIRTH from "MARCH 18, 1949" to "MARCH 25, 1949" is the certificate of live birth of **ARCANGELYN GARCIA MARQUEZ** who was born on **March 18, 1949** at **Marikina, Cavite** and whose parents are **Lito Mariquez** and **Trinidad Mariquez**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **February 24, 2020**.

Signed: **HELEN TA CHAVEZ**  
 Municipal Civil Registrar

0917-8914444/0917-8914445, February 19 & 21, 2020

Republic of the Philippines  
 Province of Cavite  
 Municipality of Marikina  
 Office of the Municipal Civil Registrar

**NOTICE TO THE PUBLIC**

CC-096-2020  
 CCN-02-2020

In compliance with the publication requirement and pursuant to OCB's Memorandum Circular No. 2017-1, Guidelines on the Implementation of the Administrative Order No. 1 (Series of 2012) (OR) on R.A. 10727, Notice is hereby served to the public that the Status of Document Change that filed with this Office, a petition for CHANGE OF FIRST NAME from "MIRIAM" to "MIRIAMAL" is the certificate of live birth of **MIRIAMAL MARQUEZ** who was born on **March 18, 1949** at **Marikina, Cavite** and whose parents are **Lito Mariquez** and **Trinidad Mariquez**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **February 24, 2020**.

Signed: **HELEN TA CHAVEZ**  
 Municipal Civil Registrar

0917-8914444/0917-8914445, February 19 & 21, 2020

Republic of the Philippines  
 Province of Cavite  
 Municipality of Marikina  
 Office of the Municipal Civil Registrar

**NOTICE TO THE PUBLIC**

CC-096-2020  
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Any person adversely affected by said petition may file his written opposition with this Office not later than **February 24, 2020**.

Signed: **LEONORA V. LOYOLA**  
 Municipal Civil Registrar

0917-8914444/0917-8914445, February 19 & 21, 2020

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

**NOTICE TO THE PUBLIC**

CC-040-2019, A, 1072

In compliance with the publication requirement and pursuant to OCB's Memorandum Circular No. 2017-1, Guidelines on the Implementation of the Administrative Order No. 1 (Series of 2012) (OR) on R.A. 10727, Notice is hereby served to the public that the **MISSED, MUDICA MAKALANG** has filed with this Office a petition for the correction of birth record with the "FEMALE" to "MALE" as the Certificate of Live Birth and other records on **Homerville C. Makalang** and **Normita C. Makalang**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **February 24, 2020**.

Signed: **GILOREA P. BAGA**  
 Municipal Civil Registrar

0917-8914444/0917-8914445, February 19 & 21, 2020

**Mending a broken heart, the bioengineering way**

Biengineers have created aspects of heart tissue that can be used to repair damaged heart tissue.

These patches will be a game-changer that mends the mechanical heart, the outer cell membrane and inner

the electrical signal a broken heart. One in six men and one in seven women in the EU will suffer a heart attack at some point in their lives. Worldwide, heart disease kills more women and men together

of race than any other researchers are continuously looking to de-

Cardiac patches help new treatments lined with heart cells which can include stem cell treatments, bio-

ly to restore heart tissue. ters) gel injections and in patients who have assistive devices." "Ours is one of few studies that look at a traditional material, and through effective design allows us to mimic the direction-dependent mechanical movement of the heart, which can be sustained repeatedly. This was achieved through a novel method called melt

The bioengineers report their work, which takes us one step closer to such a reality, in the journal *Advanced Functional Materials*.

M i c h a e l Mangan, reader, assistant professor in biomedical engineering at Trinity and senior author on the paper, said:

"Despite some advances in the field, heart disease still places a huge burden on our healthcare systems and the life quality of patients worldwide. It affects all of us either directly or indirectly through family and friends. As a result,

researchers are continuously looking to develop new treatments which can include stem cell treatments, bio-

ters) gel injections and in patients who have assistive devices." "Ours is one of few studies that look at a traditional material, and through effective design allows us to mimic the direction-dependent mechanical movement of the heart, which can be sustained repeatedly. This was achieved through a novel method called melt

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Republic of the Philippines  
Fourth Judicial Region  
Regional Trial Court Of Cavite  
Office of the Clerk of Court & Es-Officio Sheriff  
New Justice Hall, 12 Plaza Miranda, Karigpagan South, Tagaytay City

**STERLING BANK OF ANA INC. (A SAVINGS BANK)**  
Executive Management

FOR: **ARVIN R. CRUZ,**  
Responsible Management

**NOTICE OF EXTRA-JUDICIAL SALE**

Upon Extra-judicial foreclosure sale under Act 1532, as amended by Act 4158, filed by Management, **STERLING BANK OF ANA INC. (A SAVINGS BANK)**, corporation duly organized and existing under the laws of the Philippines with business address at Third Floor, Sterling Bank of Ana Corporate Center Office Complex, Cavendish, San Jose City, 1500, Laguna Province, **ARVIN R. CRUZ**, with present address at 25 Pangasinan Road, Marikina City, to satisfy the mortgage indebtedness which as of November 15, 2017 amounted to **TWO MILLION FOUR HUNDRED THIRTY ONE THOUSANT TWO HUNDRED EIGHTY SEVEN PESOS & 00/100 (P2,431,287.00)** was heretofore secured, provided and other charges, the undersigned Clerk of Court & Es-Officio Sheriff of the Regional Trial Court of Cavite this day depose, Sheriff Rhea Sabido, Jr., to wit, sell at public auction on **April 16, 2020 at 10:00 o'clock in the morning** in and to wit, at the New Hall of Justice of Tagaytay City to the highest bidder, for cash in Philippine Currency, the following property with all its improvements thereon, to wit:

**CONDOMINIUM CERTIFICATE OF TITLE NO. 976-31880142**  
Locality of Davao, Tagaytay City

IT IS HEREBY CERTIFIED that the same identified and described as:

**UNIT NO. 17-B, 3124 SQUARE METERS**

And the Management has given approval to the making of transfer of the condominium property mentioned in **TRANSFER CERTIFICATE OF TITLE 341740** which includes and describes the land located at **ALFONSO, CAYTE** with an area of **TWO THOUSANT 26, 26/10000 HECTARES (2710)** Square Meters, as registered in the name of:

**Owner: ARVIN R. CRUZ, SINGLE, OF LEGAL AGE, FILIPINO**  
address: 21 Pangasinan Road, Marikina City

Prospective bidders or buyers are hereby advised to investigate and verify the status of the **CONDOMINIUM CERTIFICATE OF TITLE NO. 976-31880142**, its encumbrances, taxes, if any thereon.

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

In the event the public auction should not take place on the said date, it shall be held on **April 21, 2020** without further notice.

Tagaytay City, January 14, 2020

(Sgd.) **LETY VARRA ANN L. VARIAS-BIMLAYAN**  
Clerk of Court, P.I.E. Es-Officio Sheriff

(Sgd.) **ARBE SAREL C. TAN LHO**  
Sheriff and Charge

Clerk of Court

**STERLING BANK OF ANA INC. (A SAVINGS BANK)**  
Third Floor, Sterling Bank of Ana Corporate Center  
1020 Cavendish Avenue, Cavendish, San Jose City  
1500

**ARVIN R. CRUZ**  
25 Pangasinan Road, Marikina City

**WARNING: IT IS ABSOLUTELY PROHIBITED TO REMOVE, DEFACE OR DESTROY THIS NOTICE OF SHERIFF'S SALE OR TO OBSCURE THE DATE OF THE AUCTION SALE UNDER THE PENALTY OF LAW.**

Publication: **DIARYO KARTENYO**  
Date: February 17, 20 and March 2, 2020

Republic of the Philippines  
Province of Cavite  
Municipality of Alibon

**OFFICE OF THE MUNICIPAL CIVIL REGISTRAR**

Publication Notice  
R.A. 10172

**NOTICE TO THE PUBLIC**  
Date: February 17, 2020

**OCEANUS 2020 R.A. 10172**

In Compliance with the publication requirement and pursuant to OCRD Memorandum Circular No. 2013-11, Guidelines in the Implementation of the Administrative Order No. 1 Series of 2002 (JRC vs R.A. 10172), Justice in Justice served in the public that **ILUMINADA MARISSA GONCALO** has filed with this office, a petition for correction of Date of Birth from **December 28, 1997** to **NOVEMBER 29, 1999** in the certificate of live birth of **Bernadita Margie Taywanan Alibon Cavite** and whose parents are **Rosemarie Margie and Felisa Erdo**.

Any person adversely affected by said petition must file his written opposition with this office not later than **March 1, 2020**

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

**DIARYO KARTENYO**, February 17 & 24, 2020

Republic of the Philippines  
OFFICE OF THE CITY CIVIL REGISTRAR  
City of General Trias, Cavite  
(042) 524-5114

**NOTICE OF PUBLICATI**

In compliance with Section 2 of R.A. 5048, notice is hereby served in the public that **BOSANNA NOLANCO RIVERA** has filed with this Office a petition for Change of First Name from **MARIA SALLER - ROSANNA** in the birth certificate of **MARIA SALLER NOLANCO RIVERA** who was born on 27 August 1979 in General Trias, Cavite and whose parents are **Phenaxine Marie and Abdonale Nolasco**.

Any person adversely affected by said petition may file his/her written opposition in this Office not later than **March 1, 2020**.

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

**DIARYO KARTENYO**, February 17 & 24, 2020

### Eco-friendly way to stop mosquitoes

It has long been the kill mosquitoes. back that once ordinary  
dream of infectious dis- University of New  
case researchers around Mexico scientists may  
the world to create a have found a way to do  
safe, non-toxic way to just that with a simple

essence of humanity. Essential oils from  
In a paper pub- plants like orange and  
lished this month in have known insecticidal  
the journal *Parasites* properties, said Dr. Har-  
& Vectors, they report with PhD, a researcher  
their method is effective associate professor in  
against *Aedes aegypti* USM's Center for Glob-  
tropical mosquitoes, which al Health.  
longest and Zika. "Plants use it to pro-  
tect themselves against

predators," she says, "so we're just using it in a different way."

Simply put, Hurwitz and her collaborators have found a way to insert orange oil into yeast cells. The oil kills the yeast, but tiny droplets of oil remain contained inside the yeast's tough cell wall.

Using a proprietary method, oil residue is washed from the outside of the yeast cells, which are then be dried into a powder — and later mixed with water to create a solution that can be sprayed on the ponds and puddles where larvae hatch and grow.

It turns out mosquito larvae love to stretch out yeast, Hurwitz says, but they succumb when they ingest the oil-laden fungal cells.

The team's patented technology solves the problem of introducing toxic chemicals into the environment that can harm humans and other creatures and tend to lose their effectiveness over time, Hurwitz says.

"It's a step away from using the insecticides that are most harmful

Face to page 11

Republic of the Philippines  
**OFFICE OF THE CITY  
 CIVIL REGISTRAR**  
 City of General Trias, Cavite  
 (0481) 509-3014

**Publication Notice**  
 R.A. 10172

**NOTICE TO THE PUBLIC**

Date: January 29, 2020

CCE-0506-2019 (RA No. 10172)

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2015-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2011 (ORR on R.A. 10172), Notice is hereby served to the public that **ANGELICA TRISMAN BICO** has filed with this Office a petition for correction of entry in her birth certificate from "MALE" to "FEMALE" in the Certificate of Live Birth of **ANGELICA FRONZA BICO** a General Trias, Cavite and whose parents are **Marino C. Bico and Rosalia C. Trisman**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 2, 2020**.

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

DIWASYO KABITENYO - February 17 & 24, 2020

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

**NOTICE OF PUBLICATION**

In compliance with section 2 of R.A. 1048, a notice is hereby served to the public that **ELMER R. CAMACLANG** has filed with this Office a petition for change of first name from **ELAZAR** to **ELMER** in the birth certificate of **ELAZAR REYES CAMACLANG** who was born on **March 11, 1963** at Imus, Cavite and whose parents are **ROSAVENTURAS CAMACLANG** and **APOLONIA REYES**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 2, 2020**.

(Sgd.) **VIOLETA F. SAÑEZ**  
 City Civil Registrar

DIWASYO KABITENYO - February 17 & 24, 2020

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

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

**MARIA CARMEN G. ALEGRE** CTN-0001-2020

**CARMEN A. BATES**  
 Registrar

**NOTICE OF PUBLICATION**

There is a petition filed for the change of first name in Civil Registry Form No. 1A (DECLARATION OF **MARIA CARMEN G. ALEGRE** from "**MARIA CARMEN**" to "**CARMEN**").

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

Let this NOTICE be published at least once a week for two (2) consecutive weeks in a newspaper of general circulation as required under Section 1 of Republic Act No. 9044.

(Sgd.) **MERCIA CRUZ**  
 Municipal Civil Registrar

DIWASYO KABITENYO - February 17 & 24, 2020

Republic of the Philippines  
**OFFICE OF THE CITY  
 CIVIL REGISTRAR**  
 City of General Trias, Cavite  
 (0481) 509-3014

**Publication Notice**  
 R.A. 10172

**NOTICE TO THE PUBLIC**

Date: January 30, 2020

CCE-0528-2019 (RA No. 10172)

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2015-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2011 (ORR on R.A. 10172), Notice is hereby served to the public that **LEONORA MERLIAN DE VILLA** has filed with this Office a petition for correction of entry in her birth certificate from "FEMALE" to "MALE" in the Certificate of Live Birth of **JOHN WATHANIEL DE VILLA CORTEZ** a General Trias, Cavite and whose parents are **Donatillo Cortez and Mercedes J. De Villa**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 2, 2020**.

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

DIWASYO KABITENYO - February 17 & 24, 2020

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

**NOTICE OF PUBLICATION**

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2015-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2011 (ORR on R.A. 10172), Notice is hereby served to the public that **LEA C. LESONTE** filed with this Office a petition for correction of entry in the date of birth from **Nov. 3, 1988** to **December 3, 1988** in the Certificate of Live Birth of **LEA REYES CAMACLANG** a City of Imus, Cavite and whose parents are **ROSAVENTURAS CAMACLANG** and **APOLONIA REYES**.

Any person adversely affected by said petition may file his written opposition with this Office not later than **March 2, 2020**.

(Sgd.) **VIOLETA F. SAÑEZ**  
 City Civil Registrar

DIWASYO KABITENYO - February 17 & 24, 2020

Republic of the Philippines  
 Province of Cavite  
**Municipality of Sta. Cruz**

**OFFICE OF THE LOCAL CIVIL REGISTRAR**

**NOTICE TO THE PUBLIC**

(DATE: February 05, 2020)

CCE-0004-2020 - RA 10172

In compliance with the publication requirement and pursuant to OCRG Memorandum Circular No. 2015-1 Guidelines in the Implementation of the Administrative Order No. 1 Series of 2011 (ORR on RA 10172), Notice is hereby served to the public that **BAQUEL D. HUITO** has filed with this Office a petition for Correction of Civil Entry in Cavite from **MALLE DE MALLA** in the Certificate of Live Birth of **BAQUEL G. BELLA CRUZ** a Member, Cavite and whose parents are **ARMANDO G. BELLA CRUZ** and **VINCENTE M. GARCIA**.

Any person adversely affected by said petition may file his written opposition with this office not later than **March 1, 2020**.

(Sgd.) **REYNALDO F. RACION**  
 Municipal Civil Registrar

DIWASYO KABITENYO - February 17 & 24, 2020

**(RDC - from page 10)**  
 to "Mammals" like organisms - "since in these things,"  
 "plasmidotes," she says. And it's a matter of  
 "A lot of investigations are - tinctive than simply operating  
 starting to develop reaso- ing essential into the

environment, because Hurwitz and her  
 the sds can be toxic in from started working  
 high concentrations, on the project for about  
 and they rapidly break four years ago, when  
 down when exposed to three water worldwide  
 sunlight. (The yeast cells concerns about the  
 protect the oil droplets newly identified Zika  
 from degrading in the virus. They know that  
 sun, Hurwitz says.) larvae one year - and  
 In addition, getting when grown in the lab  
 the larvae to eat oil had they were fed fish flakes,  
 on yeast means much which are mostly yeast,  
 lower concentrations of "he thought, Why  
 oil are required to redden don't we put the con-  
 can firms, she says. trol oil into the yeast?"

Hurwitz says, shows to the lab that the  
 New, collaborative method indicates vir-  
 in Brazil are testing the tually all of the larvae,  
 yeast larvae in, and but it remains to be seen  
 studied field studies with whether that will be as  
 local strains of mosquito effective in a natural set-  
 to larvae. The team has ting, Hurwitz says.

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

NOTICE OF PUBLICATIONS

In compliance with Sec. 3 of R.A. 9048, a notice is hereby served to the public that (Petitioner), has filed with this Office a petition for Change of First Name from **LIX to LUCIVINCENIA** in the birth certificate of **LUC ESCARNACION ARABACAP** born on **AUGUST 16, 1968** in **NAIC, CAVITE**, child of spouses **ANTONIO D. ARABACAP and LUISA ESCARNACION**.

Any person adversely affected by said petition, may file his written opposition to this Office not later than **March 2, 2020**.

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

DIWARYO KAMITENYO - February 17 & 24, 2020

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

NOTICE OF PUBLICATIONS

In compliance with Sec. 3 of R.A. 9048, a notice is hereby served to the public that (Petitioner), has filed with this Office a petition for Change of First Name from **LILIAN to LIZARDY** in the birth certificate of **LILIAN LIZARDY LIZARDY** born on **JANUARY 16, 1984** in **NAIC, CAVITE**, child of spouses **MARCELLO LIZARDY and SILVERIA S. LIZARDY**.

Any person adversely affected by said petition, may file his written opposition to this Office not later than **March 2, 2020**.

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

DIWARYO KAMITENYO - February 17 & 24, 2020

# Fast food intake leads to weight gain in preschoolers

There is a strong link between the amount of fast food that preschool children consume and their likelihood of becoming overweight or obese in the US. These findings, according to a new Dartmouth-led study, published in the journal *Health Affairs*, include that children who consume fast food more than once a week are more likely to be overweight or obese in the US. The study also found that children who consume fast food more than once a week are more likely to have higher blood pressure and cholesterol levels. The study included data from the National Longitudinal Survey of Children and Youth, which follows children from birth to age 10. The researchers found that children who consume fast food more than once a week are more likely to be overweight or obese in the US, even after adjusting for other factors such as income, education, and race. The study also found that children who consume fast food more than once a week are more likely to have higher blood pressure and cholesterol levels. The researchers suggest that parents and caregivers should limit their children's intake of fast food to help reduce their risk of becoming overweight or obese in the US.

EXTRAJUDICIAL SETTLEMENT OF ESTATE OF DECEASED CLARO B. REBERRECCON WITH PARTITION AND UNILATERAL ABSOLUTE SALE

NOTICE is hereby given that the estate of the late **CLARO B. REBERRECCON** who died on July 19, 2012 at Kapiolani Hospital in Honolulu, Hawaii, is being administered by the court-appointed executor, **CLARO B. REBERRECCON**, in accordance with the provisions of the will of the deceased.

A parcel of land situated in the City of Kapiolani, Maui, Hawaii, consisting of an area of **THREE THOUSAND SIX HUNDRED (3,600) SQUARE METERS**, more or less, is being sold to **CLARO B. REBERRECCON** for the sum of **THREE THOUSAND SIX HUNDRED (3,600) SQUARE METERS**.

A parcel of land situated in the City of Kapiolani, Maui, Hawaii, consisting of an area of **FOUR THOUSAND FOUR HUNDRED (4,400) SQUARE METERS**, more or less, is being sold to **CLARO B. REBERRECCON** for the sum of **FOUR THOUSAND FOUR HUNDRED (4,400) SQUARE METERS**.

A parcel of land situated in the City of Kapiolani, Maui, Hawaii, consisting of an area of **ONE THOUSAND FIVE HUNDRED (1,500) SQUARE METERS**, more or less, is being sold to **CLARO B. REBERRECCON** for the sum of **ONE THOUSAND FIVE HUNDRED (1,500) SQUARE METERS**.

Any person claiming an interest in the above-described parcels of land, or who has any claim against the estate of the deceased, should file a written objection to the executor's account within **thirty (30) days** of the date of this notice.

CLARO B. REBERRECCON  
Executor of the Estate of CLARO B. REBERRECCON

CLARO B. REBERRECCON  
Executor of the Estate of CLARO B. REBERRECCON

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Executor of the Estate of CLARO B. REBERRECCON

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CLARO B. REBERRECCON  
Executor of the Estate of CLARO B. REBERRECCON

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# Preclinical study links human gene variant to THC reward in adolescent females

A common variant in a human gene that affects the brain's reward processing circuit increases vulnerability to the rewarding effects of the main psychoactive ingredient of cannabis in adolescent females, but not males, according to preclinical research by Weill Cornell Medicine investigators. An adolescent represents a highly sensitive period of brain development with the highest risk for initiating cannabis use. These findings in mice have important implications for understanding the influence of genetics on cannabis dependence in humans.

The team's endocannabinoid system regulates activity of normally produced by

the body to influence brain development and regulate mood, as well as those from external sources, such as the psychoactive ingredient, THC, also known as  $\Delta^9$ -tetrahydrocannabinol, which is found in cannabis. An enzyme called fatty acid amide hydrolase (FAAH) breaks down a cannabinoid called anandamide that is naturally found in the brain and is most closely related to THC, helping to remove it from circulation.

In the study, published Feb. 12 in *Science Advances*, the investigators examined mice harboring a human gene variant that causes FAAH to degrade more and by increasing overall anandamide levels in the brain. They discov-

ered that the variant resulted in an overactive reward circuit in female — but not male — adolescent mice — that resulted in higher preference for THC in females. Previous clinical studies linked this FAAH variant with increased risk for problem drug use, but no studies had specifically looked at the mechanistic effect on cannabis dependence.

"Our study shows that a variant in the FAAH gene, which is found in about one-third of people, increases vulnerability to THC in females and has large-scale impacts on brain regions and pathways responsible for processing reward," said lead author Dr. Caitlin Burgdorf, a recent doctoral graduate from the Weill Cor-

nell Graduate School of Medical Sciences. "Our findings suggest that genetics can be a contributing factor for increased susceptibility to cannabis dependence in select populations."

The team found that female mice with the FAAH variant showed an increased preference for the environment in which they'd been exposed to THC over a neutral environment when they were exposed to the substance during adolescence, and the effect persisted into adulthood. However, if female mice with this variant were exposed to THC for the first time in adulthood, there was no increased preference for THC. These findings in mice parallel observations in hu-

mans that a select population of females are more sensitive to the effects of cannabis and demonstrate a quicker progression to cannabis dependence. "Our findings suggest that we have discovered a genetic factor to potentially identify subjects at risk for cannabis dependence," said Dr. Burgdorf.

The investigators also found that the genetic variant led to increased neuronal connections and neural activity between two regions of the brain heavily implicated in reward behavior. Next, the team revealed the overactive reward circuit in female mice and found that decreasing circuit activity dampened the rewarding effects of THC.

As substance abuse

disorders often emerge during adolescence, the investigators say this study has significant implications for translating these findings to inform developmental and genetic risk factors for human cannabis dependence.

"Our study provides new insights into cannabis dependence and provides us with a circuit and molecular framework to further explore the mechanisms of cannabis dependence," said senior author Dr. Anjali Rajadhyaksha, professor of neuroscience in pediatrics and associate professor of neuroscience in the Fed Family Brain and Mind Research Institute and a member of the Drucker Institute for Children's Health at Weill Cornell Medicine.

# 'Multitasking' AI tool to extract cancer data in record time

As the second leading cause of death in the United States, cancer is a public health crisis that affects nearly one in two people during their lifetime. Cancer is also an oppressively complex disease. Hundreds of cancer types affect more than 70 organs, have been recorded in the nation's cancer registries — databases of information about individual cancer cases that provide vital statistics to doctors, researchers, and policymakers.

"Population-level cancer surveillance is critical for monitoring the effectiveness of public health initiatives aimed at preventing, detecting, and treating cancer," said Gina Thomas, director of the Health Data Sciences Institute and the National Center for Computational Sciences at the Department

of Energy's Oak Ridge National Laboratory. "Collaborating with the National Cancer Institute, my team is developing advanced artificial intelligence solutions to modernize the national cancer surveillance program by automating the time-consuming data capture effort and providing near real-time cancer reporting."

Through digital cancer registries, scientists can identify trends in cancer diagnoses and treatment responses, which in turn can help guide research dollars and public resources. However, like the diseases they track, cancer pathology reports are complex. Variations in notation and language must be interpreted by human cancer registries trained to analyze the reports.

To better leverage cancer data for research,

scientists at ORNL are developing an artificial intelligence-based natural language processing tool to improve information extraction from textual pathology reports. The project is part of a DOE National Cancer Institute collaboration known as the Joint Design of Advanced Computing Solutions for Cancer (JDACS4C) that is accelerating research by merging cancer data with advanced data analysis and high-performance computing.

As DOE's largest Office of Science laboratory, ORNL houses unique computing resources to tackle this challenge — including the world's most powerful supercomputers for AI and a secure data environment for processing protected information such as health

data. Through its Surveillance, Epidemiology, and End Results (SEER) Program, NCI receives data from cancer registries, such as the Louisiana Tumor Registry, which includes diagnosis and pathology information for individual cases of cancerous tumors.

"Manually extracting information is costly, time-consuming, and error-prone, so we are developing an AI-based tool," said Mohammed Alawad, research scientist in the ORNL Computing and Computational Sciences Directorate and lead author of a paper published in the *Journal of the American Medical Association* on the results of the team's AI tool.

In a first for cancer pathology reports, the team developed a

multitask convolutional neural network, or CNN — a deep learning model that learns to perform tasks, such as identifying key words in a body of text, by processing language as a two-dimensional numerical dataset.

"We use a common technique called word embedding, which represents each word as a sequence of numerical values," Alawad said.

Words that have a semantic relationship — or that together convey meaning — are close to each other in dimensional space as vectors (values that have magnitude and direction). This textual data is inputted

into the neural network and filtered through network layers according to parameters that find connections within the data. These parameters are then increasingly

honed as more and more data is processed.

Although some single-task CNN models are already being used to comb through pathology reports, each model can extract only one characteristic from the range of information in the reports. For example, a single-task CNN may be trained to extract just the primary cancer site, outputting the organ where the cancer was detected such as

lung, prostate, bladder, or others. But extracting information on the histological grade, or growth of cancer cells, would require training a separate deep learning model.

The research team would efficiency by developing a network that can complete multiple tasks in roughly the same amount of time as a single-task CNN.

# Molecular switch mechanism explains how mutations shorten biological clocks

A new study of mutations that make the molecular mechanism of a circadian clock run shorter has revealed the function of a molecular switch that controls the function of biological clocks and those that make the circadian clock run longer have a prominent role and clock timing, making some people extreme "morning larks" and others "evening larks," he says.

The study, published February 17 in *Science*, shows that the same molecular switch mechanism affected by these mutations is at work in mammals ranging from fruit flies to people.

"When people with sleep phase disorders have changes in their clock proteins, and especially when they have mutations in the *PER2* gene, it suggests the importance of this region," says Panch, who worked with researchers at the Duke-NUS Medical School in Singapore.

Other collaborations at UC San Diego performed simulations of the molecular dynamics of the switch showing how the CK1 protein switches between two conformations, and how mutations cause it favor one conformation over another.

The switch involves a section of the CK1 protein called the activation loop. One conformation of this loop favors binding of CK1 to the "degron" region of PER, where phosphorylation leads to the protein's degradation. The clock-changing mutations in CK1 came it to favor this degen-binding conformation.

The other conformation favors binding to a site on the PER protein known as the FASP region, because mutations in this region lead to an inherited sleep

disorder called Familial Advanced Sleep Phase Syndrome. The stabilization of PER can be disrupted by either the FASP mutations, which interfere with the binding of CK1 to this region, or by the mutations to CK1 that favor the alternate conformation of the activation loop.

The new findings also suggest why binding of CK1 to the FASP region stabilizes PER. With phosphorylation of the FASP region, that region then acts to bind and inhibit CK1, preventing it from degrading the other conformation and phosphorylating the degen region.

"It binds and locks the kinase down, so it's like a posse bonus that prevents the PERICO from being degraded because," Panch said. "This stabilizing region builds a delay into the clock to make it align with Earth's 24-hour day."

Panch said that it is important to understand how these clock proteins regulate our circadian rhythms, because those rhythms affect not only the sleep cycle but almost every aspect of our physiology. Understanding these molecular mechanisms may enable scientists to develop therapies for intervening in the clock to alleviate disruptions, whether they are caused by inherited conditions or by shift work or jet lag.

"There might be ways to mimic some of those effects," she said.

CK1 is also interesting because it seems to be the most ancient component of biological clocks. The whole feedback loop involving CK1, PERIOD, and other core clock proteins is found in all animals from insects to humans.

at the Duke-NUS Medical School in Singapore.

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# DIYARYO KABITENYO

Nagmamalasakit sa lalawigan

Vol. 32 No. 52 February 17-23, 2020 P 10.00

## Scientists find ally in fight against brain tumors: Ebola

Glutathione, an antioxidant, has long been known to help fight cancer. But scientists have realized a more likely ally in efforts to treat the brain tumors — ebola virus.

"The key is that one of the world's deadliest viruses may be useful in treating one of the deadliest of brain tumors," said John Anthony, associate professor of neurosurgery, who directed the Yale efforts. His study is the Journal of Neurology.

The approach takes advantage of a weakness in most cancer viruses and also of an Ebola defense against the targeted response to

Unlike normal cells, a large percentage of cancer cells lack the ability to generate an innate immune response against invaders such as viruses. This has led cancer researchers to explore the use of viruses to combat a variety of cancers.

Using viruses carries an obvious risk — they can introduce potentially dangerous infections. To get around this problem, scientists, including one from Yale, have experimented with creating or using ebola viruses as a combination of genes from multiple viruses. They have the ability to target cancer cells without harming patients.

One of the seven genes of the Ebola virus that helps it avoid an immune system response also contributes to its lethality. This intrigued

He and the study's first author, Xue Zhang, also of Yale, used a chimeric virus containing one of genes from the Ebola virus — a glycoprotein with a muscle-like domain (M21). In wild-type Ebola virus, the M21 plays a role in helping Ebola from the immune system. They injected the chimeric virus into the brains of mice with glioblastoma — and found that the M21 helped selectively target and kill deadly glioblastoma brain tumors.

## Immune cells consult with neighbors to make decisions

Many people consult their friends and neighbors before making a big decision. It turns out that cells also are consulting their neighbors in the human body.

Scientists and physicians have long known that immune cells migrate to the site of an infection, which individuals experience as inflammation

— swelling, redness and pain. Now, Northwestern University and University of Washington researchers have uncovered new evidence that fire-gathering is not just a consequence of immune activation. Immune cells count their neighbors before deciding whether or not the immune system should kick into high gear.

Understanding how to influence inflammation and activate an immune response could lead to new therapies to treat chronic autoimmune diseases, or to modulate the immune system to help fight cancer. "This is a previously unrecognized aspect of immune function," said Northwestern's Joshua Lemick.

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