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

be brave, be

Be alert.

February 7-13, 2022

Malls in Cavite operate at longer hours under Alert Level 2

The provincial government of Cavite allowed malls in the province to operate at longer hours, from 9 am to 10 pm, under Alert Level 2

They will operate with 50% indoor capacity for the fully vaccinated and minors even unvaccinated, according to Executive Order No. 4 Series of 2022

Outdoor venues can operate until 70% capacity as long as their workers are fully vaccinated and they comply with the health protocols of the inter-Agency Task Force:

Same cap is given to restaurants, kiosks, commissaries, and



Kawit holds milk feeding program for children

KAWIT, Cavite ity recently. Mayor Angelo The mayor dis- them to be healthy pine Carabao Cen- pal Social Welfare Aguinaldo led the closed that around and strong.

milk feeding pro- 361 Kawiteno He thanked Department of Office for their gram for children ehildren were giv- the Dairy Raiser Social Welfare support to the pro-Turn to page 2 in this municipal- en carabao milk Multi-Purpose Co- and Development gram.

ter-Los Baños, and Development

supplements for operative, Philip- and the Munici-

Are scientists being fooled by bacteria?

ARNULFO BARCO

GENERBARCO



Publishers Association of the Philippines, Inc.

(MALLS... from page 1)

be without prejudice to government agencies," the implementation of the EO stated

They were also other measures imposed advised to give priority by mall operators to frontline health and the Department of Trade and Industry "The aboverules shall and other relevant

Many have studied it in methods.

medical researchers higher organisms may

ers at the Icahn School gorithm to accurately terial contamination or of Medicine at Mount measure the source and current experimental Sinai, there may be a levels of tagged DNA. methods. Experiments. Icahn Mount Sinai.

This helped them disgroup of cutting-edge dence of its presence in tinguish bacterial DNA cells produced similar have been studying be due to bacterial con- and other non-hacterial tagging system, which difficult to spot using published in Science switches genes on or off. current experimental supported the idea that this system may occur To address this, naturally in non-bacplants, flies, and even ed a tailor-made gene were much lower than human brain tumors. sequencing method some previous stud-However, according to a which relies on a new ies reported and were new study by research- machine learning al- easily skewed by bac-

on buman brain cancer

"Pushing the a biochemical, DNA tamination, which was cells. While the results boundaries of medchallenging. Sometimes the ideas are so novel that we have have seen signs of it in, the scientists creat- terial cells, the levels to rethink the experimental methods we use to test them out," said Gang Fang, PhD, Associate Professor of Genetics and Genomic Sciences at

Genetic study suggests more sensitive people respond better to couple's therapy

University.

Prevention and than others. Relationship Education

How well someone been shown to improve individual differences observed with the sensitivity impacted satisfaction, and therapy could be and the quality of on people's responses

Previous studies could explain the if genes known to assess communication, following treatment Relationship Education Previous states arriving responses be associated with bonding, marital than in the short-term.

responds to couple's communication skills in sensitivity can impact program.

The well-established people benefiting more differences in an couples taking part Couples completed individual's sensitivity in PREP to explore questionnaires to

As almost half of the response to the both before and after determined by their relationships as well to positive and negative differences in peoples' program. They found treatment, and then at genes, according to a as prevent divorce experiences including sensitivity can be that those individuals six-month intervals new study led by Queen among married psychological explained by genetic that were more over a two-year Mary University of couples However, the therapies Therefore, factors the research genetically sensitive, follow-up period. The London and Denver effects of PREP can be the researchers set out team collected DNA benefitted more from researchers found that inconsistent with some to explore whether from over 150 US this type of therapy.

on an individual's likelihood of divorce an individual's genetic sensitivity had more impact in the years

AFFIDAVIT OF SELF-ADJUDICATION AS SOLE BEIR

MODICE is havely given that the region of the ten PLORENTISAM, CREMERO who drow as Described 19, 2021 at No. 2001. Mossons from Armon (O. Xiana, Carlot, resonating of back deposed with Philipping National State. Tenna, Corin, based doubt the hands below a most

ACCOUNT NAME EXPRESSO SAVISCIACCOUNT NO. BALANCE AS OF JAN 18, 2022 PHILIPSON PHILIPSON PHILIPSON

has been self-adjudement by her sele heir RENATO E, CERREBO Se Lawary 19, 2022 to the Manuscrattly of Farms, Cavits, Philippines before Neuro Public Any, India B. Ann and assessed as his Neurola Regione as Duc. No. 222, Page No. 47, Rend No. 2021, Sente of 2022.

(Sec.) Affiant

Publisher DIVARYO KABUTENYO
These James 24 M and Release 7 2002

RA Form No. 10 D (LCRO)

Office of the Municipal Civil Registros

NOTICE FOR PUBLICATION

CCE-0005-2012 R.A. 10171

pliance with the publication requirement and porness to OCRG Memorandum Cerular No. 2013-1 Guidation to the Implementation of the Administrative Order No. 1 Sense of that ROSSGIE ZABLAN REYES has fired with this off pullion for Correction of Entry in Sea-Torothy from MALE to FEMALE to the Certificate of Live Both of ROMGE ZABLAN REVES at Rosaros, Cavite and whose parcets are Rosses Gabit Reyes and Myran Paka Zahlan.

Ally person salversely affected by said postern may like bis parties with the Office are less than 14 February 2022.

(Ngd.) MARIA ROSARIO C. SORIANO

DIVARYO KABITENYO - January 31 and February 3, 2022



Republic of the Philippines OFFICE OF THE CITY CIVIL RECISTRAR

Publication Nation

NOTICE TO THE PUBLIC

In compliance with the publication require to OCRG Memorandum Curiow No. 2013-1, Guidelines in the Implementation of the Administrative Order No. 1 Series of 2012 (IBR on R.A. 10172). Notice is hereby served to the public that GIEF NIEL N. MENDOZA has kind with this Office a Petition for Correction of Entry in the Child's sex from "FEMALE" to "MALE" in the Contribute of Live Buth of LET ANEL DE TAZA MENDOZA lore on MARCH 28. 2016 = Trees Marthes City, Cardie and whose parents of GREE NIKL N. MENDOZA and JOLINA C. DE TAZA

Any person adversely affected by said petition may February 14, 1022.

(SgL) MAXIMO JR. L. LONTOC City Civil Registrar

DEFABLES EASITENED - January 31 and February 7, 2022

Untangling mixed (neural) signals During sensormotor of sensors communi- code and decode that

processing in the brain. case with each other to information and differneurons are constantly make sense of all the emiate between motor bombarded with infor- information coming in and sensory signals. matton from other neu- and react to it: If some- "We wanted to figrons. When we use our one throws you a hell, tire out how a decoder eyes to interact with our your eyes track the ball, knows exactly when to environment, thousands and a chain of neuron initiate a movement if

> rons communicate in ther and former gradubetween seeing and act- ate student in the Coging is a complex -- and nition and Sensorim-

communication informs it is also getting signals your hand where it must when a movement isn't go to catch it. desired," said Uday K.

But how these neu- Jagadman, lead auimportant -- consid- otor Integration Lab. eration. New research "We not only were able led by the Cognition to uncover a reliable and Sensorimotor In- temporal pattern in the tegration Lab at the neuron activity that was University of Pittsburgh tied to movement, but Swanson School of En- we were also able to gineering has uncov- replicate it with microered how neurons en- atimulation."

AFFIDAVIT OF SOLE ADJUDICATION

MARIA LAARNI PAREDES SERRACIN who deal steple and are (21 merage deposit accessed with the BPI FAMILY BANK. serings Account Nov. 6846271906 with a balance of P77,676,47 red 6646290447 with a believe of P75,266 77 has been selfadjusticated by the marrients new LILIAN P. SERRACIN and hereby imposts the BPS SAMELY BANK, from Politic Market Branch to retinue to her the entire powereds of the said deposits for and in consideration of the said relume, she beenly expressly classly remains, remains and forever discharges the HPS PASSILY SIANK, in advisantrators and assigns and/or may of the Occurs or comployers from any and all claims, units or actions against the said bank and she hereby undertakes to endersorify he and bank, in officers and assigns for any less or disting which they may summe arming out of or in commention with the clease to his of the effected account on Documber 3, 2021 of the City of Irms, Canito before Notary Public Carlos Emmanue Page No. 49; Busk No. XVIII, Series of 2021

Thumbmarked by Affant Heir

Publication: DIVARYO KABITENYO

Perception study may explain promising depression therapy

vas with a picture of ready expects. constantly checked and ing it with tiny doses of A bottom-up under- and planning-

Rather than constant- rechecked against the an anesthetic drug called standing of perception

ly repainting a new can-sights and sounds it al-ketamine. Their study has been prevalent for reveals the importance decades and says that the surrounding world Researchers from of a specific type of con-sensory information each time it takes in the University of Wis- nection between brain moves from lower-orinformation, the human consin-Madison have cells and may also ex- der parts of the brain to brain appears to build demonstrated the top- plain ketamine's prom- "higher" parts that use a working model sup- down nature of this ise as a treatment for it to perform executive ported by predictions world view by disrupt- depression. functions like focusing



Form 28 (Navised June 2014)

LOLC BANK PHILIPPINES INC (A THRIFT BANK)

PUBLISHED BALANCED SHEET

Heart Office and Branches)
As of December 31, 2021

CONTROL PROOFLIST

CONTROL PROGRAM		Previous Quarter	
	Account Code		13,979,878,62
	1080000000000000000000	13,357,308,58 34,627,896.05	25,832,896,05
	108000000000000000000000000000000000000	34,627,800	236,031,414.24
Cash and Cash flams	105150000000000000	267,303,151,24	0.00
Due from Sangto Santral og Pilipinas	105200000000000000	0.00	0.00
Due from Other Banks	1120000000000000000	0.00	
Financial Amets at Fair Value through fruitt ar Laris	195200000000000000	0.00	0.00
Avaitable-for Sale Financial Assets Net	1952500000000000000	0.00	0.00
theid-to-Marianty (MTM) Reservice Assets-NVC	19530000000000000000	0.00	0.00
Uniquented Debt Securities Classified as Loans Well	195350000000000000	589,138,178.09	573,684,996.10
Investments in North Marketopie Equity Security-Next	1954000000000000000		11,271,747,49
Loons and Reconsplint - Net	148000000000000000	8,790,424,28	0.00
Other Freencial Access	1954525000000000000	0.00	The second secon
Equity Investment in Subsidiaries, Astoclates and form Ventures-Net	195586500000000000	57,631,472,47	62,653,428.46
Bank Fromises, Farmura, Fature and Equipment Net	195501000000000000	14,970,011.17	14,970,011.17
Roal and Other Properties Acquired-Net	1501500000000000000	0.00	0.00
Non-Current Assets High für Sale	15200000000000000000	17,523,690.38	16,600,957.48
Other Advicts-Pivit		0.00	0.00
Net Due from Head Office/Rounches/Agencies, if any (Flui, branch of a foreign bank)	155250000000000000	1,003,197,332,26	985,075,279,61
TOTAL ASIETS	10000000000000000000		0.00
Financial Datifities at Fair Value through Pridit or Love	2080000000000000000	0.00	Control of the second
Deposit Liebificies	2150000000000000000	673,293,050,39	600,690,920.03
Dige to Other Banks	220050000000000000	0.00	0.00
Bills Payable	5501000000000000000	0.00	0.00
Boods Payable Net	295201500000000000	0.00	0.00
Unsecured Subjectinated Debri-Sert	2952828000000000000	0.00	0.00
Radoemable Preferred Shares	220250000000000000	0.00	0.00
Special Time Deposit	220100000000000000	0.00	0.00
Due to Bangko Sentral ng Pilipinas	2383500000000000000	0.00	
Other Financial Liabilities	2400500000000000000		0.00
Other Cultilities	240100000000000000	14,878,290.35	14,502,702.66
Net Our to Head Office/Branches/Agencies (Philippine branch of a foreign bank)	230850000000000000	66,258,884.82	291,198,228.19
TOTAL LIABILITIES	2000000000000000000	0.00	0.00
TOTAL STOCKHOLDERS' EQUITY	100000000000000000	756,430,223-56	906,391,850,88
TOTAL CIABILITIES AND STOCKHOLDERS' EQUITY	90500000000000000	\$46,766,906,70	48,633,428.71
TOTAL CONTINGENT ACCOUNTS	40000000000000000	3,003,197,132,26	
ADDITIONAL INFORMATION	***************************************	0.00	955,025,179,63
Sriss tutal loon portfolio (TLF)	annanananan		0.00
pecific allowance for credit lesses on the TLF	499020000000000000	770,072,337.23	
Non-Performing Laura (NPLL)	499300000000000000	177,386,163 DS	720,818,322.70
4. Gress NPIs		203 113	143,452,120.79
b. Rable of gress NPLs to gross TLP (%)	499200500000000000	276,705,717.02	and the same of th
c. Net NPLs	###110500000000000	200,000,000	191,917,315,77
d. Ratio of Net NPLs to gross TLF (%)	4991010000000000000	15.93%	The second secon
Ratio of facts allowance for craft losses to gross MPLs (%)	4991510000000000000	100,043,418,18	26.625
	4991515000000000000	14 1634	65,592,811.59
f. Ratio of specific allowance for credit imms on the gross TLP to gross NPLs (%)	499152000000000000		9.305
apital Adequecy Ratio (CAR) on Solo Basis, as prescribed under existing regulations		64.1(%	
e, Total CAR (N)	499650500500000000		74.74
b. Yier 1 Natio (%)	#990505010000000000	22.17	
4. Common Tier 1 Ratio (%) 11	499630501500000000	21.86	5.1
Common Courte For 3 in one applicable to an Universal and Commons Remit and then subsidiary been	(ANAMACK)	0.00	The second second second

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

Publication | DIVARYO KABITENYO Date | February 7-13, 2022 (SGD). ROMAN G. LEUS President-CEO

Scientists unveil promising new approach to diabetes prevention

scientists from Scripps improvement in and obesity, it features studies suggest that the itself," Wiseman says, of insulin-producing Research has conducted metabolic health of the loss of normal blood activity of this pathway, In the new study, cells in the pancreas, promising early tests obese animals," says sugar regulation, and at least in the short-term, the researchers showed compared to untreated of a new strategy that Scripps Research's brings a multitude of can protect liver and that a compound they obese mice. might one day be used. Luke Wiseman, PhD. health issues including fat cells from stresses, identified a few years. IXA4 can reach

compound called Sacz, PhD.

the new paper type of cellular stress, "TRE1/XBP1s high-fat, high-calorie Madhavan, PhD, then "We were able to Type 2 diabetes IRE1 activates XBP1s, signaling is a response diet. After just eight a graduate student in activate this pathway remains a major public which in turn alters the to cellular stress, and weeks, the treated mice the Wiseman lab, and in both the liver and health problem: about activity of a host of keeping it on all the had improved glucose Bernard Kok, PhD, a the pancreas with 30 million people are genes, including many time essentially tells metabolism and insulin postdoctoral research this one compound, estimated to have it in metabolic genes, in the cell that the stress activity, less fat buildup associate in the Sacz and that added up to the U.S. alone. Driven an effort to reduce the can't be resolved -- so and inflammation in lab.

A team of a significant overall largely by overweight cellular stress. Prior the cell in effect kills the liver, and no loss

diabetes, but none that diabetes drug target, without triggering the cells including fat cells. IXA4 in obese mice. The study was a works well for every however Past research deleterious signaling They showed that the collaboration between patient has shown that keeping seen with constant continuing to work with compound activates thelaboratories of Sacz. For several years, IREI/XBP1 switched IRE1 activation, IXA4 as a potential a natural signaling and Wiseman, who Wiseman's lab has been on chronically making it a promising treatment for other pathway that protects are both professors studying a signaling ends up harming candidate to explore metabolic disorders the animals from in the Department of pathway involving two cells, triggering for human treatments, such as fatty liver harmful, obesity-driven Molecular Medicine at proteins called IRE1 inflammation and The team used disease," Sacz says. metabolic changes that Scripps Research and and XBPIs. When worsening overall IXA4 to treat mice The study's first would normally lead to co-senior authors on activated by a certain metabolic dysfunction, that were obese from a authors were Aparajita

time anyone has shown disease, stroke, kidney stresses that can harm IRE1/XBP1s for just tissues including the The scientists, that a small molecule disease, nerve damage, these cells in ways that a few hours at a time, liver and pancreas, whose results are activating this pathway retinal degeneration, promote diabetes. Because it otherwise and so the team is reported in Nature in this manner works to and some cancers. The IRE1/ allows IRE1 to turn now developing other Communications, treat disease in a live. There are many drugs. XBP1s pathway is off, it can in principle compounds that can tested an experimental animal," adds Enrique for treating type 2 not a straightforward be given daily get into a broader set of

"This is the first higher risks of heart caused by obesity -- ago, IXA4, activates only a limited set of

"We're also

Instability of brain activity during sleep and anesthesia underlies the pathobiology of Alzheimer's disease, study finds A new study at rescience at Tel Aviv cent study published yloid deposits, a hall- to effective treatment." hetween the activity of

Tel Aviv University University, Addition, this month in the mark of Alzheimer's The researchers neurons and synapses revealed a pathologi- al participants in the Lancet Public Health disease pathology, are used animal models for in their hippocampus cal brain activity that study include: Dr. journal, the number of formed in patients. Alzheimer's, focusing and corresponding acprecedes the onset Antonella Ruggiero, people with demen- brains as early as 10- on the hippocampal tivity in the control of Alzheimer's first Halit Bacloba, Shiri, tia worldwide will in- 20 years before the region of the brain, group of healthy anisymptoms by many Shoob, Oded Scharf, crease from 50m in onset of typical symp- which plays a key role mals." years; increased active Leore Heim. Naday 2019 to more than toms such as memory in memory processes, ity in the hippocampus Buchbinder, Ortal 150m in 2050, grow- impairment and cog- and is known to be im- findings, the researchduring anesthesia and Shinikamin, Dr. Ila- ing by 370% in North nitive decline. Unfor- paired in Alzheimer's era decided to examine sleep, resulting from na Shapira, Dr. Boaz. Africa and the Middle tunately, most efforts patients. At first, they activity in the hippofailure in the mecha- Styr, and Dr. Gabriella East In larget, a 145% to treat Alzheimer's measured cell activity campus in other states nism that stabilizes the Braun, all from Prof. increase is predict- disease by reducing in the hippocampus of consciousness -neural network. The Slutsky's laboratory, ed, compared to -74% the amount of amy-when the model animal under anesthesia and researchers believe Collaborations with in Western Europe loid-beta proteins and was awake, active, and during natural sleep. that the discovery of the laboratory teams. This huge increase in their aggregation have exploring its surround- Refuela Atsmon: "It is this absormal activity of Prof. Yaniv Ziv of the prevalence of Alz- failed. If we could ings For this they used known that neuronal during specific brain the Weizmann Insti- heimer's due to the detect the disease at advanced methods that activity of the hipstates may enable early rute, and Prof. Yuval expected rise in pop- the pre-symptomat- measure brain activity pocampus decreases diagnosis of Alzhei- Nir of TAU were es- ulation growth and in ic stage, and keep it at a resolution of sin-during sleep in healthy mer's eventually lead- sential for the project. Tife expectancy will in a dormant phase gle neurons. ing to a more effective. Prof. Tamar Geiger, continue unless we for many years, this Daniel Zarhin; examined model anitreatment of a disease. Dr. Michal Harel, and develop-effective treat- would be a tremen- "Previous studies have mals in early stages of that still lacks effective. Dr. Anton Sheinin of ments. This is clearly dous achievement in examined cell activity. Alzheimer's, I found

The study was led as well as researchers in dementia research that identifying a sig-thetized animals in a activity remained high by Prof. Inna Slutsky from Japan, also con- and its most frequent nature of aberrant model for Alzheimer's even during sleep. and doctoral students tributed to the study form - Alzheimer's brain activity in the and found overactivity. This is due to a failure Daniel Zarhin and The article was pub- disease." pre-symptomatic stage in the hippocampus in the physiological Refacia Atsmon from hished in the scientific "Innovative imag- of Alzheimer's and un- and cortex. To my sur- regulation, never bethe Sackler Faculty journal Cell Reports. ing technologies devel- derstanding the mech- prise, when Lexamined fore observed in the of Medicine and the Prof. Slutsky: oped in recent years anisms underlying its the model animals, I context of Alzheimer's Sugal School of Neu- "According to the re- have revealed that am- development is a key-found no difference disease."

Tel Aviv University, an alert for investing the field. We believe in the brains of anes- that their hippocampal

In light of these animals. But when I

Mosquitoes are seeing red: These new findings about their vision could help you hide from these disease vectors

Beating the bite of bite," said senior author do to stop mosquitoes presented with different or cyan, mosquitoes "That's probably a sign mosquitnes this spring Jeffrey Riffell, a UW from binng me?" said types of visual and scent would fly toward it. that there's a bakery and summer could hinge professor of biology. Riffell, "I used to say cues Like all mosquito. Humans can't nearby, and you might on your attire and your "When they smell spe-there are three major species, only females smell CO2, which is the start looking around for skin. New research led ciffic compounds, like cues that attract mos- drink blood, and bites gas we and other ani- it. Here, we started to by scientists at the Uni- CO2 from our breath, quitoes: your breath, from A negypti can mals exhale with each learn what visual eleversity of Washington that scent stimulates the your sweat and the transmitdengue yellow breath. Mosquitoes ments that mosquitoes indicates that a com- eyes to scan for specific temperature of your fever, chikungunya and can. Past research by are looking for after mon mosquito species colors and other visual. skim. In this study, we. Zika. The researchers. Riffell's team and other smelling their own ver-- after detecting a tell- patterns, which are as found a fourth cue: the tracked individual most or groups showed that sion of a bakery." tale gas that we exhale sociated with a potential color red, which can quitoes in miniature test, smelling CO2 boosts flies toward specific host, and bead to them," not only be found on chambers, into which female mosquitoes ac- "true color" vision: orange, black and cyan. Hished Feb. 4 in Nature found in everyone's odors and presented the space around them, lengths of light as dis-

The mosquitoes ignore Communications, reskin. The shade of your different types of visu-presumably for a host. tinct colors: 650 nanoother colors, such as veal how the monquito skin doesn't matter, al patterns - such as a The colored-dot exper- meters shows up as red, green, purple, blue and sense of smell - known we are all giving off colored dot or a tasty iments revealed that while 450 nanometer white The researchers as olfaction - influence a strong red signature, human hand, believe these findings as how the mosquito. Filtering out those athelp explain how mos- responds to visual cues tractive colors in our stimulus, mosquitoes prefer certain wavequitoes find hosts, since Knowing which colors skin, or wearing clothes largely ignored a dot lengths in the visual do not know whether human akin, regardless attract hungry mosqui- that avoid those colors, at the bottom of the spectrum. of overall pigmentation, toes, and which ones could be another way chamber, regardless of It's similar to what colors the same way emits a strong red-or- do not, can help design to prevent a mosquito color. After a spritz of might happen when his- that our eyes do. But ange "signal" to their better repellants, traps biting," CO2 into the chamber, mans smell something most of the colors the

"Mosquitoes ap- keep mosquitoes at bay, ments, the team tracked ignore the dot if it was "Imagine you're smelling CO2 - orpear to use odors to help "One of the most behavior of female yel- green, blue or purple on a sidewalk and you ange, red and black them distinguish what common questions I'm low fever mosquitoes, in color. But if the dot smell pie crust and cin-correspond to longer is nearby, like a host to asked is 'What can I Aedes aegypti, when was red, orange, black namon," said Riffell. wavelengths of light.

and other methods to . In their experi- mosquitos continued to . good.

The results, pub- your clothes, but is also they sprayed specific tivity level -- searching. We see different waveafter smelling CO2, wavelengths look blue,

Most humans have

mosquitoes perceive



February 7-13, 2022

First virus infection linked with infections later in life

Prevention of such three main causes of the microbes present method we used to the genes responsible gies, mutated these bacearly viral infections, doctors' visits and in the lining of the deliver genes in heart for creating sodium terial genes so that the or strengthening im- hospital admittance nose and any virus- muscle cells of mice channel proteins, the channels they encode mune systems with in the first years of es that infected the has been previously technique can produce could become active in specially designed life children, shown to persist for more ion channels in human cells,

fections later in life, ing delivery method on from inside the 2 in the journal Nature besive unit. Damaged has conserved many

Tweaked genes borrowed from bacteria excite heart cells in live mice

versity have demon-tively help hearts that tivity. strated a gene therapy struggle to begt as reg-

our body -- in a way are responsible for The team analysed complish with drugs One approach re- Hung Nguyen, a former that affected both a 15 per cent of deaths the gene activity of or other tools," said searchers can take to doctoral student in Burchild's risk and num- for children under the the babies' nasal mu- Nenad Bursac, profes- restoring this func- sac's laboratory who ber of subsequent in- age of five globally coas -- tissue that sor of biomedical engi- tionality is gene ther- now works for Fujifilm. and are one of the lines the nasal cavity, neering at Duke "The apy. By delivering Diosynth Biotechnolo-

Diomedical engi- a long time, which the diseased cells to neers at Duke Uni- means it could effect help boost their ac-

that helps beart muscle utarly as they should." um channel genes are cells electrically acti- Sodium-ion chan- unfortunately too large vate in live mice. The nels are proteins in the 10 fit within the virusfirst demonstration of order membranes of as currently used in its kind, the approach electrically excitable modern gone therapies features engineered cells, such as heart or in humans. To skirt hacterial genes that brain cells, that trans- this issue, Bursac and code for sodium ion init electrical charges his laboratory instead channels and could into the cell. In the turned to smaller genes Asymptomatic viral probiotics, may avert Researchers from lead to therapies to heart, these chan- that code for similar infections in the first this risk, experts say. the University of Ed-treat a wide variety of nels tell muscle cells sodium ion channels in days and weeks of a The microbiome inburgh and Universelectrical beart diseass when to contract and bacteria. While these baby's life are associ- of a newborn baby sity Medical Center es and disorders. pass the instruction hadterial genes are difated with an increased can be influenced by Utracht examined The results ap- along so that the organ ferent than their human risk of respiratory in many things, includ-mucosa samples tak- peared online February pumps blood as a co-counterparts, evolution

research suggests. - vaginal or caesarean noses of 114 babies. Communications. heart cells, however, similarities in the Viruses were found section - breastfeed- at various stages of "We were able whether from disease channel design since to interact with new- ing, antibiotics and the life as part of the to improve how well or trauma, often lose multi-cellular organborns' immune sys- bospital environment. Microbiome Utrecht heart muscle cells can all or part of their abil- is ms diverged from tems and microbiomes Respiratory in- Infant Study, which initiate and spread ity to transmit these bacteria hundreds of - the community of fections are a major has been running for electrical activity, signals and join the millions of years ago. microbes that live in health concern. They six years. which is hard to ac- effort. Several years ago,