

## Al to help spot early risk factors for Alzheimer's

a way to predict Alzheimer's Disease up to seven years before symptoms appear by analyzing patient records with machine learning.

The conditions that most influenced prediction of Alzheimer's were high cholesterol and, for women, the osteoporosis.

The work demonstrates the promise of using artificial intelligence (AI) to spot patterns in clinical data that can then be used to scour Alzheimer's Disease, could identify with large genetic databases a progressive and 72% predictive power to determine what is ultimately fatal form of who would develop the driving that risk.

The researchers hope that one day it will hasten the diagnosis and treatment of Alzheimer's Americans, nearly twoand other complex thirds of whom are vitamin D deficiency,

scientists have found towards using AI on the disease increases routine clinical data, not only to identify risk as early as possible, but also to understand the biology behind it," said the study's lead author, Alice Tang, an MD/PhD student in the Sirota Lab at UCSF.

"The power of this AI

sought to discover the

Alzheimer's affects some 6.7 million including hypertension,

with age, and women tend to live longer than men, but that does not fully explain why more women than men have

The researchers used UCSF's clinical database of more than 5 million patients to look for approach comes from co-occurring conditions bone-weakening disease identifying risk based in patients who had on combinations of been diagnosed with Alzheimer's at UCSF's Scientists have long Memory and Aging Center in comparison biological drivers and to individuals without early predictors of AD and found they dementia that destroys disease up to seven vears prior.

> Several factors. high cholesterol and



men and women. Erectile dysfunction

and an enlarged prostate were also predictive for

But for women. osteoporosis was a particularly important predictor.

This does not mean that everyone with the bone disease, which were predictive in both is common among

older women, will get Alzheimer's.

dementia risk."

To understand the biology underlying the model's predictive power, the researchers turned to public molecular databases and a specialized tool developed at UCSF called SPOKE (Scalable Precision Medicine Oriented Knowledge Engine), which was developed in the lab of Sergio Baranzini, PhD, a professor of neurology and a member of the UCSF Weill Institute for Neurosciences.

SPOKE is essentially a database of databases that researchers can use to identify patterns and potential molecular

"It is the combination of diseases that allows our model to predict AD onset," said Tang, "Our finding that osteoporosis is one predictive factor for females highlights the biological interplay between bone health and

targets for therapy.



The study looked at survey data from 3.670 young people in the UK and the Netherlands to investigate how appetite traits in early childhood might relate to the likelihood of developing eating disorder symptoms up to 10 years later.

The researchers found that a particularly high food responsiveness, defined as the urge to eat when you see, smell or taste palatable food, at the ages of four and five was linked to a higher likelihood of reporting a range of eating disorder symptoms at ages 12 to 14

Rotterdam.

The team also found that a slower pace of eating and feeling full more quickly (high sensitivity to satiety) in early childhood may be protective against developing some eating disorder symptoms later.

Co-lead author Dr Ivonne Derks (UCL Institute of Epidemiology & Health Care) said: "Although our study cannot prove causality, our findings suggest food cue responsiveness may be one predisposing risk factor for the onset of eating disorder symptoms in adolescence.

"However, high responsiveness to food is also a normal and very common behaviour

and should be seen as just one potential risk factor among many rather than something to cause parents worry."

Childhood apetite linked

to later eating disorder

Higher responsiveness was linked to a 16% to 47% increase in the odds of reporting eating disorder symptoms, including binge eating symptoms, uncontrolled eating, emotional eating, restrained eating and compensatory behaviours.

The 47% increase was found for binge eating symptoms (eating a very large amount of food and/or experiencing the feeling of loss of control over eating), meaning that adolescents whose parents rated them highest on food responsiveness were almost three times more likely to report binge eating symptoms compared to adolescents whose parents scored them lowest.

A 16% increase in odds was found for restrained eating, whereby a person restricts their intake of food to lose weight or avoid weight gain.

Just like food responsiveness, emotional overeating in early

childhood was also linked with higher odds of engaging in compensatory behaviours, which are intended to avoid weight gain, such as skipping meals, fasting and excessive exercise.

In turn, some appetite traits seemed to be protective against developing eating disorder symptoms later. Higher satiety responsiveness -that is, feeling full more quickly after eating, and feeling full for longer -was linked to lower odds of uncontrolled eating (defined as the extent to which someone feels out of control and eats more than usual) and

A slower pace of eating, meanwhile, was linked to lower odds of compensatory behaviours and restrained eating.

compensatory behaviours.

The researchers also found that appetite traits such as food fussiness. emotional undereating (eating less due to low mood), and enjoyment of food in early childhood were not linked to later eating disorder symptoms in adolescence.

### Scientists invent ultra-thin, minimally-invasive pacemaker

Sometimes our bodies need a boost. Millions of Americans rely on pacemakers - small devices that regulate the electrical impulses of the heart in order to keep it beating smoothly. But to reduce complications, researchers would like to make these devices even smaller and less A team of researchers

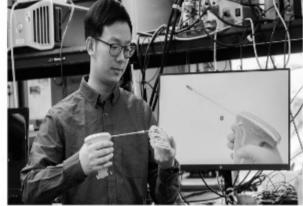
with the University of Chicago has developed a wireless device, powered by light, that can be implanted to regulate cardiovascular or neural activity in the body. The featherlight

membranes, thinner than a human hair, can be inserted with minimally invasive surgery and contain no moving parts. The results could help

reduce complications in heart surgery and offer new horizons for future

"The early experiments have been very successful, and we're really hopeful about the future for this translational technology," said Pengju Li. a graduate student at the University of Chicago and first author on the paper.

The laboratory of Prof. Bozhi Tian has for years that can use move that energy along



the body.

purpose because they break down or become intrusive -- especially useful in delicate tissues like the heart.

battery, researchers parts of the heart are simply implant a tiny optic fiber alongside to provide power.

But for the best results, the scientists had to tweak the system to work for biological purposes, rather than how solar cells are usually designed.

"In a solar cell, you want to collect as much been developing devices sunlight as possible and

technology similar to the cell no matter what solar cells to stimulate part of the panel is struck," explained Li. Photovoltaics are "But for this application, attractive for this you want to be able to shine a light at a do not have moving very localized area and parts or wires that can activate only that one

area.

For example, a common heart therapy is known as cardiac resynchronization And instead of a therapy, where different brought back into sync with precisely timed charges.

In current therapies, that's achieved with wires, which can have their own complications.

Li and the team set out to create a photovoltaic material that would only activate exactly where the light struck.

two layers of a silicon material known as P-type, which respond to light by creating electrical charge.

The top layer has many tiny holes - a condition known as nanoporosity which boost the electrical performance and concentrate electricity without allowing it to

The result is a miniscule, flexible membrane, which can be inserted into the body via a tiny tube along with an optic fiber a minimally invasive

The optic fibre lights up in a precise pattern, which the membrane picks up and turns into electrical impulses.

The membrane is just a single micrometer thin - about 100 times smaller than the finest human hair - and a few centimetres square.

It weighs less than one fiftieth of a gram; significantly less than current state-of-the-art pacemakers, which weigh at least five grams.

"The more lightweight a device is, the more The eventual design comfortable it typically they settled on has is for patients," said Li.

# Kotak Mahindra Bank Limited Online E-Auction Sale Of Asset Properly Mortgaged/charged To The Secured Creditor, The Possession Of Which Has Been Taken By The Authorised Officer Of Fulleton India Home Francia Company Ltd. (Incrinitiate Retiered To As "FIHPCL.") On L28,8282, And Pursuant To The Assignment Of Debt in Favour Of Kotak Mahindra Bank, Limited By "FIHFCL.", The Property Will Be Sold On "as Is Where Is", "as is What Is", And "whatever There

"FIRPCL" ) On 12.99,2022, And Pursuant To The Assignment O'Debt in Favour Of Kotak Mahindra Bank Limited By "FIRPCL". The Property Will Be Sold On "as is Where Is", "as is What Is", And "whatever There is "Basis to 19-90-2028 Bortown 12:00 Pm To 0:100 Pm With Unlimited Extension Of 5 Minutes. There is "Basis to 19-90-2028 Bortown 12:00 Pm To 0:100 Pm With Unlimited Extension Of 5 Minutes. The Recovery O'F Rs. 53,22.2424 - Rappes Fifty Three Lakh Tiwenty Tiso Thousand Two Hundred Fourty Two Ornyl As Ot 21:92.2024 Along With Future Interest Applicable Ferm 22.02.2824 Unit Payment in Hull With Cost And Charges Under The Loan Account Mo. 503607210478648, Due To KMBL, Secured Creditor From Mr. Neolakandan C. Mrs. Thillagavathi N., & Mrs. Sri Kumaran Timber And Furnitures Mart. The Reserve Price Will Be Rs. 2.30,0004/Rupees Twenty Three Laid Orley And The Earnest Money Deposit Will Be Rs. 2.30,0004/Rupees Two Lash Thirty Thousand Only! & Last Date Off Submission Of End With Kyo Is 18-03-2024 Up To 500 Pm (64.) Property Description —All That Proce And Parcel Of Twe Bedroom Fist No. C. Having Super Builtup Area Of 82 Sq. Pt, Including Common Area! Situated On The Second Pitor Of Building Namely Bus Apartments, Having 315-3q.k. Undwided Share Of Land Measuring To An Exert Of 2025 Sq. Pt, Bearing Pt No. 14, Amalanathan Street, Verkisteehware Nigar, Postrichairy, Chennai –60074, Comprised in Survey No. 10611 And 11403 As Per Patta New Survey Nos 10919 & 8 11430 Parts No. 648 Postrichairy Village Alandhur Talksky, Kancheepuram District Bounded By: East By: 24 Feet Road, West By: Ptot No. 15, North By: 40 Feet, South By: Vescare Ptot And Measuring On The : North Side: 45 Feet Bastern Side : 62 Feet Southern Side - 45 Feet Noviscon O'D Stockhool No Section 30, O'Dection 10, O'D Hammar The Borrower in Particular Please The Time Available. To Redeem The Secured Asset, Public in General And Borrowers in Particular Please Take Notice That If in Case Audion Scheduled Herein Falls For Any Reason Whatsoever Then Secured editor May Enforce Security Interest By Way Of Sale Through Public E - Auction, At The Discretion Of e Secured Creditor, In Case Of Amy Clarification/requirement Regarding Assats Under Sale, Bidder Creditor May Enforce Security referest by Yang Or Sale Through Public E - Auction, At The Date The Secured Creditor. In Case Of Any Clarification/acquisment Regarding Assets Under Sal May Contact To Mr. Vishal Adisheshan (+91 9941016600) (+91-9152219751) & Mr. Rajende (+91 944624915) For Detailed Terms And Conditions Of The Sale, Please Refer To Thttps://www.kotak.com/en/bank-auctions.in/sileprovided in Kotak Mahinda Bank Viet www.kotak.com.and/or/On https://bankauctions.in/ Place: Chennai, Date: 29.02.2024

Sale Notice For Sale Of Immovable Properties

E-Auction Sale Notice For Sale Of Immovable Properties

E-Auction Sale Notice For Sale Of Immovable Assets Under The Securitisation And Reconstruction O

Financial Assets And Enforcement Of Security Interest Act, 2002 Under Rule 5(5) Read With Provise Te

Rule 8 (6) Of The Security Interest (enforcement) Rule, 2002 Notice is the thereby Given To The Delicit is

General And In Particular To The Bornower (s) And Guaranter (s) That The Bellew Described Immovable roperty Mortgaged/charged To The Secured Creditor, The Physical Possession Of Which Has Ber -roperly alongaged ranged to The Secured Creator, the "High Scale Possession of Window Has seet Takes By The Authorised Officer Of Kotak Mahindra Barik Ltd., And Pursuant To The Assignment Office In Its Favour By Bajaj Housing Finance Limited (BHFL), Will Be Sold On "As is Where is", "As is Wha is", And "whatever Them Is" Basis On 15.04.2024 Getmon 12:00 Am To Or100 Pm With Unlimited Extension Of 5 Minutes, For Recovery Of R.s. 66,52.372-(Rupeus Stay Six Lakh Fifty Two Thousand Three Hundred And Seventy Two Only) as Of 27.82.2024 along With Future Interest Applicable Fron 28.02.2024 Until Payment in Full With Cost And Charges under The Loan Accour No.403HSLEI849318 & 403TSH79135293 & 403HPL80782884. Due To The Kietak Mahindra Bank Ltd

No.403HSLEI849318.8.403TSH79135293.8.403HPL80782884, Due To The Kotak Mehindra Bank Ltd., Secured Creditor From Min. Jincy Variphese Wilo Bijoy Thayyii. The Reserve Price Will Be Rs. 31,00,0001-(Rupees Three Lakh Ten Cheskes Only) And The Exmest Money Deposit Will Be Rs. 3,10,0001-(Rupees Three Lakh Ten Thousand Only) & last Date Of Submission Of Emd With Kye is 12-04-2024 Up 10-6:00 P.m. (etc).

Description Of The Immovable Property: All That Piece And Parcel Of Residential Property Flat No.0-401. 4th Floor, Block -0, Royal Castle, S. Noe 25812 PART, 511/282, 512/1, 507 AND 508,512/3, 511/38, 511/284, 511/284, 511/284, 511/284, 511/284, 582/28 PART, 502/282 PART, 510, 512/3, 288/2 PART, 502/282 PART, 510, 512/3, 511/284, 511 thatspever Then Secured Creditor May Enforce Security Interest By Way Of Sale Through Privat eaty At The Discretion Of The Secured Creditor, in Casa Of Any Clarification risely, at the Discretion of the Securid Creditor, in Case Of Any Carincatoursquirement regarding Aspests Under Sale, Bidder May Contact Mr. Vishal Adaheshan (+91 949496600), Mr. Vigo Kumar Menon(+91 9040572248), Mr. Velmurugan Kathirvel(+91 9884718338), Mr. Suriya Perlyasamy(+91 9600222111) (+91-9152219751), Mr. Rajender Dahiya (+91 9448294515), For Detailed Terms And Conditions Of The Sale, Please Refer To The Lish https://www.kotac.com/en/bank-auctions.html Provided InKotak Mahindra Bank Webste I.e. www.kotak.com/and/or On https://bankauctions.in/

#### Red light can reduce blood glucose levels

red light stimulated energy production within mitochondria. the tiny powerhouses within cells, leading to increased consumption of glucose. In particular, it led to a 27.7% reduction in blood glucose levels following glucose intake, and it reduced maximum glucose spiking by 7.5%.

While the study was conducted in healthy individuals, the noninvasive, non-pharmacological technique has the potential to have an impact on diabetes control after meals, as it can reduce damaging fluctuations of blood glucose in the body that contribute to ageing.

The study also highlights the significant long-term consequences for human health, including the potential dysregulation of blood sugars posed by lengthy exposure to

Given the prominence of LED lighting and the fact that LEDs emit towards the blue end of the spectrum with very little red, the authors suggest that this may be a potential public health issue.

Mitochondria provide energy 670 nanometres (nm) of for vital cellular processes, using oxygen and glucose to produce the energyrich nucleoside adenosine triphosphate (ATP). Previous research has established that long-wavelength light between approximately 650-900 nm (spanning the visible through to the near-infrared range) can increase mitochondrial production of ATP which reduces blood glucose and also improves health/lifespan in animals.

The authors Dr. Michael Powner, senior lecturer in neurobiology in the School of Health & Psychological Sciences at City, and Professor Glen Jeffery, professor of neuroscience in the UCL Institute of Ophthalmology, also say that this improvement in ATP production can cause signalling changes that are transmitted throughout the body.

They suggest that it may be mediating the abscopal effect, which refers to the phenomenon in cancer treatment where specific irradiation of a primary tumour can result in shrinkage of secondary tumours located

in a different part of the body. the way mitochondria function shone selectively on to the backs of mice in previous level. Our study has shown that studies has been shown to result in improvements in ATP that improve symptoms in both a model of Parkinson's disease and a model of diabetic retinopathy

To explore the impact of 670 nm red light on blood glucose, the researchers recruited 30 healthy participants, who were then randomised into two groups: 15 in the 670 nm red light group, and 15 in the

placebo (no light) group. They had no known metabolic conditions and were not taking medication. Participants were then asked to do an oral glucose tolerance test and record their blood glucose reduces mitochondrial function levels every 15 minutes over the next two hours.

People who received red light exposure 45 minutes prior to drinking glucose exhibited a reduced peak blood glucose level and reduced total blood glucose during the two hours. Dr. Powner, who was the lead author of the study, said: "It is clear that light affects spans.

Likewise, 670 nm light and this impacts our bodies at a cellular and physiological we can use a single, 15-minute exposure to red light to reduce blood sugar levels after eating.

"While this has only been done in healthy individuals in this paper, it has the potential to impact diabetes control going forward, as it could help to reduce potentially damaging glucose spikes in the body after meals."

Professor Jeffery said: "Sunlight has a balance between red and blue, but we now live in a world where blue light is dominant because although we do not see it, LED lights are dominant in blue and have almost no red in them. This and ATP production. Hence our internal environments are red-starved. Long-term exposure to blue light is potentially toxic without red. Blue light on its own impacts badly on physiology and can drive disrupted blood sugars that may in the long run contribute to diabetes and undermine health

#### VASTU HOUSING FINANCE CORPORATION LTD

Unit 203 & 204, 2nd Floor, "A" Wing, Navbharat Estate, Zakaria Bunder Road, Sewri (West), Mumba 400015, Maharashtra, CIN No.: U65922MH2005PLC272501

SALE NOTICE FOR SALE OF IMMOVABLE PROPERTIES

read with provise to Rule 8 (6) of the Security Interest (Enforcement) Rules, 2002. to the Secured Creditor, the physical possession of which has been taken by the Authorised Officer of Vastu Housing Finance Corporation Limited the same shall be

referred herein after as Vastu Housing Finance Corporation Limited. The Secured Assets will be sold on "As is where is", "As is what is", and "Whatever there is" basis

SN	Account No. and Name of borrower, co- borrower, Mortgagors	Date & Amount as per Demand Notice U/s 13(2) & Date of Physical Possession	Descriptions of the property/Properties	Reserve Price, Earnest Money Deposit (In Rs.)	E-Auction Date and Time, EMD Submission Last Date, Inspection Date
1	LP000000095004 Kumar S P (Borrower), Rajammal Palanisamy (Co-Borrower), Chandran Sp (Guarantor)	Demand Notice Date 19-Jul-23 & Amt Rs. 2779327 as on 13-Jul-23 + Interest Cost etc. & 28-Nov-23	Amidst 2558 3/4 Sq.ft Door No.4/559A, SF no 52/7 Andavar Nagar Plot No.4 Golden Patace Hotel Back side, Reddipatti Village and Panchayat Namakkal Taluk and District Namakkal Joint 1 Sub Ragistar office, Namakkal, Tamil Nadu, 637002		30-Mar-24 Timings 11:00 AM to 4:00 PM , 29-Mar-24 up to 5:00 PM , 16-Mar-24
2	HL000000091348 Jagadish D (Borrower), Lakshmi J (Co-Borrower)	Demand Notice Date 19-Oct-23 & Amt Rs. 2639391 as on 12-Oct-23 + Interest Cost etc. & 19-Jan-24	T.S.No.12/23 in this for an extent of 980 Square feet of the lands, Cld D. no. 34, New D.no.269/306 A. S.f.nos. 206/2, 227/1, 227/2, Thandava Nagar, Ward - M. Block-1, T.s.no. 12/1, New Survey T.s.no. 12/1b, Ward - Ag, Block-1, Armapet Village, Salem Town, Taluk and Corporation, Salem, Tamil Nadu, 636003	Rs. 2863054/- Rs. 286305/-	30-Mar-24 Timings 11:00 AM to 4:00 PM, 29-Mar-24 up to 5:00 PM, 16-Mar-24
3	HL000000067753 Ajantha M (Borrower), Dilawar Sherelf H (Co-Borrower), Rajeshkurnar Muthuraj (Guarantor)	Demand Notice Date 18-Aug-23 & Amt Rs.1310330 as on 14-Aug-23 + Interest Cost etc. & 25-Feb-24	Survey No 766 Flat No G1 Ground Floor Plot No 138, Bramma Aster East Balaji Nagar Kallikuppam Korattur Village, Tiruvallur, Ambattur Taluk, Thiruvallur, Tambadu, 60053 having superbuilt up area 450 sqft. togetherwith the 186 sq ft.of undivided share of land out of 2840 sq ft.	Rs. 136000/-	30-Mar-24 Timings 11:00 AM to 4:00 PM , 29-Mar-24 up to 5:00 PM , 16-Mar-24

1.All Interested participants / bidders are requested to visit the website https://sarfaesi.auctionfiger.net . For details, help, procedure and online training on e-auction prospective bidders may contact M/S e-Procurement Technologies Pvt. Ltd. (Auctionliger); Address : Head Office: B-705, Wall Street II, Opp. Orient Club, Near Gujra College, Ellis Bridge, Ahmedabad - 380 006 Guirat (India) Contact Person: Mr. Ram Sharma Contact number: 8000023297/9265562818/9265562821/079-681 6842/6869. email id: ramprasad@auctiontiger.net, support@auctiontiger.net.

2. For further details on terms and conditions please visit https://sarfaesi.auctiontiger.net to take part in e-auction THIS IS ALSO A STATUTORY 30 DAYS SALE NOTICE UNDER RULE 8(6) OF SECURITY INTEREST (ENFORCEMENT) RULES, 2002

Place: Karur, Salem, Chennai Vastu Housing Finance Corporation Ltd