coverage does not necessarily reflect the whole picture and we don't get too much

uncovering information through first-hand experiences.

राष्ट्रदुत

#MIND&BODY

Gut Bacteria Affect Brain Health

The findings suggest a new approach to preventing and treating neurodegenerative diseases by modifying the gut microbiome with antibiotics, probiotics, specialized diets or other means.



that the tens of trillions of microbes that normally live in our intestines the so-called gut microbiome have far-reaching effects on how our bodies function. Members of this microbial community produce vitamins, help us digest food, prevent the overgrowth of harmful bacteria and regulate the benefits. Now, a new study suggests that the gut micro biome also plays a key role in the health of our brains, according to researchers from University School of Medicine in St.

The study, in mice, found that gut bacteria - partly by producing compounds such as short chain fatty acids - affect the behaviour of immune cells throughout the body, including ones in the brain that can damage brain tissue and exacerbate neurodegeneration in conditions such as Alzheimer's disease.

"We gave voung mice antibiotics for just a week. and we saw a permanent change in their gut microbioand how much neurodegeneration related to a protein called tau they experienced with age," said senior author David M. Holtzman, MD, the Barbara Burton and Reuben M. Morriss III Distinguished Professor of Neurology. "What's exciting is that manipulating the gut microbiome could be a way to have an effect on the brain without putting anything directly into the brain

Evidence is accumulating that the gut microbiomes in people with Alzheimer's disease can differ from those of healthy people. But it isn't clear whether these differences are the cause or the result of the disease - or both and what effect altering the microbiome might have on the course of the disease. To determine whether the

gut microbiome may be playing a causal role, the researchers altered the gut microbiomes of mice predisposed to develop Alzheimer'slike brain damage and cognitive impairment. The mice were genetically modified to express a mutant form of the human brain protein tau, which builds up and causes damage to neurons and atrophy of their brains by 9 months of age.

They also carried a variant of the human APOE gene, a major genetic risk factor for Alzheimer's. People with one copy of the APOE4 variant are three to four times more likely to develop the disease than people with the more

Along with Holtzman, the research team included gut microbiome expert and coauthor Jeffrey I. Gordon, MD, the Dr. Robert J. Glaser Distinguished University Professor and director of the Edison Family Centre for Genome Sciences & Systems Biology; first author Dong-Oh Seo, PhD, an instructor in neurology; and co-author Sangram S. Sisodia, PhD, a professor of neurobiology at

the University of Chicago. When such genetically nodified mice were raised under sterile conditions from birth, they did not acquire gut microbiomes, and their brains showed much less damage at 40 weeks of age than the brains of mice harbouring normal mouse micro-

When such mice were raised under normal, nonsterile conditions, they developed normal microbiomes. course of antibiotics at 2 weeks of age, however, perma nently changed the composition of bacteria in their microbiomes. For male mice, it also reduced the amount of brain damage evident at 40 weeks of age.

The protective effects of the microbiome shifts were more pronounced in male mice carrying the APOE3 variant than in those with the high-risk APOE4variant, possibly because the deleterious effects of APOE4canceled out some of the protection, the researchers said. Antibiotic treatment had no significant effect on neurodegeneration in female mice.

"We already know from studies of brain tumours, normal brain development and related topics, that immune cells in male and female brains respond very differently to stimuli," Holtzman said. So it's not terribly surprising that when we manipulated the microbiome we saw a sex difference in response, although it is hard to say what exactly this means for men and living with women Alzheimer's disease and relat-

ed disorders." Further experiments linked three specific shortchain fatty acids - compounds produced by certain types of gut bacteria as products of their metabolism - to neurodegeneration. All three of these with gut microbiomes altered by antibiotic treatment, and undetectable in mice without

gut microbiomes. These short-chain fatty acids appeared to trigger neurodegeneration by activating immune cells in the bloodstream, which in turn somehow activated immune cells in the brain to damage brain





ALRIB II it happens here...

FESTIVAL

Prakash

Bhandari The writer is a sen-

ix years ago when the Jaipur Literature Festival (JLF) was held in the serene atmosphere of the Christine Lamb flew in to Jaipur to talk about her roles as a war correspondent and a working mother. She also talked about how she narrowly escaped with her life from a Taliban ambush in Helmand in Afghanistan, Christina was on

Benzir's bus when it was bombed in 2007. Christina spent a lot of time in the conflict zone covering war as a frontline reporter. This she has been doing as the Foreign Correspondent for the Sunday Times of London and she was known as a roving correspondent. Now she lives in Washington having been on her toes for 22 years and is the US Editor of the Sunday Times. She has won numerous awards: the Young Journalist of the Year in the British Press Awards for her

coverage of the Soviet occupation of Afghanistan in 1988 and has been The landscape of war journalthe Year five times for reporting on Afghanistan,

#OLD STORIES

"the ultimate foreign correspon-She was last year's recipient of the Prix Bayeux, Europe's most prestigious award for war correspondents and chosen by Britain's top-selling women's magazine Grazia as one of its Icons of the

War Journalism

She spent a year as a Nieman Fellow at Harvard University She is the author of the best-selling book The Africa House as well as House of Stone: The True Story of a Family Divided War-Torn Zimbabwe; Waiting

For Allah: Pakistan's Struggle for Democracy; and The Sewing Circles Herat: A Personal Voyage Through Afghanistan, which was runner-up for Best Nonfiction book in the Barnes & Noble's Discover Great New Writers Awards. Her most recent book is Small Wars Permitting: Dispatches from Foreign Lands, a collection of her

ism has altered massively over the years. Over 1,000 journalists have been killed in action since 1961 and



line reporter and their stories attract a readership. efforts and heroics often earn them awards and Six years ago, the organizers of the Jaipur Literature Festival, flew David

thrill in being a front-

Grossman Israel, Christina Lamb and Don Mc Cullin from the UK and the veteran and photo-journalist spoke about their experiences and challenges as war correspondents.

always a challenge with just the

telex at one's disposal. At times, it's

more challenging than gathering

facts and figures amidst booming

to a war correspondent's life is no

less than that to the frontline sol-

dier; and reporting from the front-

line often comes with an under-

standing with the correspondent's

newspaper or agency that he / she

is responsible for his / her own life.

war zone, yet others keep going

back because they're drawn to the

Some vow never to return to the

"Journalists have become targets of war and the danger that they face then observed Christina Lamb, the author of several bestsellers. including Farewell Kabul: From Afghanistan To A More Dangerous



David Grossman is an Israeli author, who addressed the Israeli-Palestinian conflict in his 2008 novel. To the End of the Land. Grossman lives in Israel, within the Israeli-Palestinian conflict zone. "I try to look at the effect of the con flict on both sides and try to understand how it affects human relationships, language and future prospects. So many things are affected by conflict," he said.

ethics of reporting from dangerous

Lamb stressed that Afghanistan was ravaged by war since 1978 and there was no reconstruction or development. The war has left Afghanistan one of the poorest and most dangerous nations Now Afghanistan is ruled by the

conservative Talibani. Poverty has hit the Afghans hard and the country is facing a major humanitarian

After the Fall of Kabul, in which the Islamist Taliban drove out the Islamic Republic of Afghanistan the Taliban promised to set up a

the Conflict Zones The Islamic State continue their insurgency, carrying out many oombings. Afghanistan is also

padly affected by earthquakes and

Yet, she still believes that foreign intervention in Afghanistan was necessary. "We need to understand why foreign powers intervene and what is their interest? They should come out clean with their political plan to end the war. Foreign intervention should not continue without a proper understanding of the

Bitter about the role of various foreign forces in Afghanistan, Grossman agrees that because of heir vested interests, outside forces did not allow the war to end.

"I have always approached con flict in an intimate, personal way. As a result, I do not regard my journal sm as 'covering' anything. Instead I always try to become a witness to the larger picture: I try to look at the effect of this conflict on both sides. ry to understand how conflict ffects human relationships, language, prospects of a future."

Grossman believes that conflict nfiltrates the innermost organs of society and impacts individuals deeply. "The challenge is to remain sombre and disband stereotypes," ne observed that it took courage to expose oneself to the stories and ealities of both sides as that was necessary if there was to be any ope of resolving it. "A larger war s lost when people become habituated to it as a way of life, giving up on the possibility of a better alter native and this is why war report ing is so important to keep alternaives alive," he added.

War photographer Don McCullin produced his first war assignment or The Observer in 1964, covering the civil war in Cyprus. In 1966, he began his 18-year affiliation with The Sundav Times magazine, covering numerous conflicts and battle

Israel, Northern Ireland, Cambodia, Bangladesh, Lebanon, El Salvador and Kurdistan.

want to know the truth. Generally, mainstream news coverage does no necessarily reflect the whole picture and we don't get too much depth anymore," said McCullin who prefers to get to the bottom of things

pretences," smiled Lamb, referring to attending the JLF as The Sunday Times foreign correspondent and not a conventional travel writer.

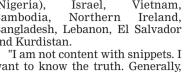
Terrors and Guilt

Indian journalist, Subramanian studied journalism and international relations in the US. Since 2001, he worked in different locations in Sri Lanka and wrote about the civil war in his

Subramanian's work focuses or fracturing of the self and society in war. The fear that he has seen on

feel as though I'm here on false pretences," smiled Lamb, referring to attending the JLF as The Sunday Times foreign correspondent and not a conventional travel writer.

haunts him, he says, adding that it to disengage when he returns home, You come back. You live with these observed Subramanian. McCullin also described the



hrough first-hand experiences.

"I was a witness to a number of incidents of inhuman treatment which I reported with all honesty, but at times the editors back home tried to underplay an episode as they thought publishing such horrific story would only lengthen the war or conflict. At times I agreed with their stand and at times I differed," said Christina.

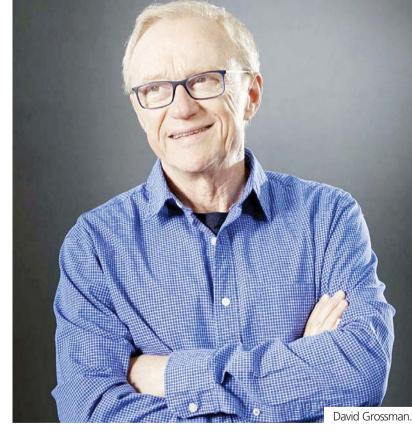
book The Divided Island.

people's faces during conflict

has left him in a "constant existenstories. You frame your own terrors and guilt in the larger picture,

alienation that he sometimes feels like the "odd man out" as a result of his extreme experiences. "Your per sonal emotions will catch up with vou sooner or later for there are sit-Sometimes, I am asked to share ston't want to hear the truth."

The heroes of the conflict zone won the hearts of the audience with their disclosures. It was a session which is still remembered by the regulars to the JLF as one of the liveliest of the sessions. writetoarbit@rashtradoot.com



#BREW-EATERIES

These coffee shops in India serve scrumptious dishes and delightful brews in a charming

ust good coffee isn't enough anymore. With the popularity of social media, coffee shops in India have had to conceptualise unique interiors to attract people. From coffee shops with arresting interiors that transport visitors to magnificent international destinations to cafes housed in ancient buildings, these are the 10 most picturesque coffee shops in India.

MAAI, Goa

Nestled in a 123-year-old Portuguese villa, MAAI is a picturesque eatery and coffee shop. Its interiors are inspired by trendy summer holiday destinations from around the world. MAAI offers alfresco seating under the stars or inside the mansion it is located in. The welcoming space features warm yellow lights, walls with black and white photographs of Goa, and rustic decor accessories.

MAAI's food and drinks menu is a celebration of Goa's rich culinary heritage. The extensive menu features traditional Goan and Portuguese-inspired dishes and coffee made using beans roasted in-house.

Machan: Taj Mahal Hotel,



beverages and snacks inspired

by the rich heritage of the

Indian forests, and you will not

The Bhawanipur House, Kolkata

Showcasing colonial architec-

ture, The Bhawanipur House

transports visitors back in time.

The bistro's owners hope people

slow down and spend hours at

their establishment. The out-

door seating area houses an

imposing mango tree that towers

over the compound and a serene

multi-cuisine plates and steam-

ing hot pots of coffee and tea.

Our favourites from their menu

are the Chicken Tetrazzini,

Moussaka, Spaghetti Bolognese,

Lahme, Egg Quattro Formaggi,

Tuscan Potato, and the Mediterranean Buddha Bowl.

The cafe offers delicious

be disappointed!

lotus pond.

Founded by nutritionist and health coach Nidhi Nahata, tures awe-inspiring interiors. Justbe Resto Café is a well-loved, Custom designed wall coverings plant-based eatery. Located in a 90-vear-old heritage building recreating scenes of the jungle scape depict the beauty of this pet-friendly café comprises nature and magnificence of the separate sections-the Living Room, Private Dining Room. Indian tiger. The arresting cane tree canopies, a series of terra-Court Yard, and Studio. The eatery aims to make guests feel cotta animal masks specially created by local artists, contemlike they are dining at a close porary lanterns, and elegant friend's home. banquette seating set the back-The Studio, in particular, is drop for a wonderful dining experience

an Insta-worthy space with bluenued bookshelves, floor-to-ceil-We also love that most of the ing glass windows, and quirky materials used at Machan have furnishings. We suggest orderbeen sourced locally and created by artists from neighbouring states. Order their refreshing

MileeDroog Café & Bistro, Kolkata

Tucked in the by lanes of south aficionados who can choose from an extensive java menu. The first floor houses the mocktail bar, an architecture and modern interiors

and interior design studio

Renesa, Elgin Cafe is a bistro by

day and a restaurant and wine

bar by night. The eatery's interi-

ors are evocative of dining in

nature and is awash in emerald

green granite from Udaipur. The

eatery features green granite

wall panelling and tabletops,

gold furnishings, tan leather

seats, wicker chairs, and plenty

sine small plates and cocktails

of plants. Elgin Cafe's multi-cui

are worth ordering.

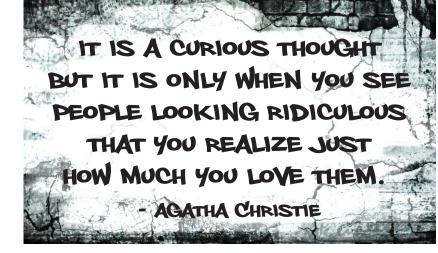
Bangalore

Justbe Resto Café,

white floral motifs, and a pastel colour palette. MileeDroog Coffee & Bistro offers progressive food items from around the world. The Vietnamese Latte, Almond Toffee Chettinad Chicken Keema, and Bengal's BhappaBhetki are crowd-



THE WALL



BABY BLUES



By Rick Kirkman & Jerry Scott



ZITS



WHY DON'TYOU SELL THE VAN, AND I'LL GIVE 40UMYOLD CAR?



By Jerry Scott & Jim Borgman

Elgin Cafe, Amritsar

Beautiful Coffee

Shops in India



The indoor seating features a monochromatic colour palette, ornate chandeliers, and arresting artworks. We recommen their Iced Latte, which is a delightful blend of ice-cold milk and rich, strong cof-

wheat pizzas, superfood bowls open sandwiches, soups, cold press juices, and smoothies

ing Justbe Resto Café's whole

Banyan Tree Café, Mumbai

Located in the centre of south Mumbai, Banyan Tree Cafe pays nomage to the age-old colonia architecture of the city. It is situated inside a 140-year-old former ice factory, which is now the experimental art space-IFBE. At the cafe, guests are greeted by expansive windows, overhead skylights, an industrial design aesthetic, and a view of a majes

Banyan Tree Cafe's food offer ings are a mix of nutritious plates and comfort food, and the coffee is from Dope Coffee. Try the eatery's delectable sandwiches, wraps, and salads that are made using the freshest local ingredients.

Kolkata, MileeDroog Café & Bistro is spread over three floors. The around floor is dedicated to coffee outdoor balcony, and a glassenclosed private dining area. The cafe showcases art deco featuring checkerboard floors,

Milk Latte, Orange Cold Brew, Classic Hot Chocolate, Matcha Frappe, Tuscan Grilled Polenta, Greek-style Courgette Lasagna, favourites.