HERALD THURSDAY,

2019 JUNE 6,

## Mississippi biologist uncovering kale's cancer-killing effects

#### Press Release

Dr. Elizabeth Brandon and a could have some anticancer cancer.

called HepG2.

"It's a different way of studied cava, mimosa, green tential drug therapies." tea, pomegranate, blueberries, and many other plants.

ease."

sociate Professor of Biology cus on the compounds that next plant." team of student researchers effects. "They do this based yielding interesting results. are discovering foundational on what is already known One of the compounds being research toward a break- about the compounds that researched by the team is dethrough in the fight against interfere with cancer cell di- rived from a species of shrub vision or DNA replication," native to South America, The university's team is re- noted Dr. Brandon. "They called Mimosa Tenuiflora. vealing preliminary data that try to isolate the molecules "Mimosa bark has been used shows a low concentration that have similar structures for thousands of years as a certain extracts of Mimosa of kale juice can actually kill and then test out these chem- remedy for several ailments Tenuiflora have cytotoxic a type of liver cancer cell, icals individually on the can- and has very little scientific effects on cancer cells," ob- these largely undocumented cer cells."

Belhaven's researchlooking at food," said Dr. ers are taking a different Brandon, who started this approach. They are ustype of research 10 years ing these chemicals in ago. A student, interested in their natural forms. "We working with kale juice and are studying the effects of its effects on melanoma cells, whole forms rather than gave her the idea. Since then, trying to isolate bioactive the Mississippi Guardianshe and other biologists have compounds to discover po-

with growing cancer cells in According to Dr. Bran- petri dishes. Dr. Brandon and don, plants are already be- her team then make different ing used for modern cancer extracts and whole juices, or treatments. Taxol, extracted ethanol extracts from boilfrom the Pacific Yew tree, is ing the plants. "We have to one of the most popular and pair cancerous cells with the effective modern anti-cancer same type of cells that are drugs. "There are thousands noncancerous to try to unof species of plants that have derstand the mechanism by never been researched, many which the chemicals in kale of which may have great po- juice work," said Dr. Brantential as treatments for dis- don. "If we see that both kinds of cells are killed by

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# Send in your news!

Scientist who are doing a whole juice or a plant ex-Belhaven University's As- natural product research fo- tract, then we move on to the

Kale isn't the only plant

literature regarding its medicinal properties, and no known literature investigating its anti-cancer properties," said Lawrence Martin, a junior biology major from Cleveland, Ohio.

"The research we are conducting is significant due to the fact that we are working with natural products of which there is no known anti-cancer literature, and we are gathering data that is new to the scientific community.

served Martin.

In addition to liver cells, the team is now growing a finds certain plants that kill breast cancer cell line, called MDA-MB436, that they will test with low concentrations of kale juice extract to measure any cytotoxic effects. They have also conducted to research the anti-cancer the kale experiment on colon cancer cells and found that the concentration for liver cancer cells was not toxic for their colon cancer samples.

This process of trial and er-In fact, our data suggests that ror is paving the way to new discoveries and giving researchers a way to document

experiments. When the research team

or slow the growth of cancer cells, they make that information available to the public.

"Since we are the first properties of the Mimosa Tenuiflora plant, it will be important to publish our data in an effort to gather attention from other researchers," Martin noted. "Our data will be publicly available, and we hope that other scientists will be able to build off of what we have found."

together to protect the most vulnerable." Members of the Com-

## mission on Guardianship and Conservatorship include: Justice Dawn Beam Judicial College Executive Director Randy Pierce of Farris-Carter Oxford, co-chairs; Chancelsaid, "The thing that I am lor Catherine Farris-Carter most excited about is that of Cleveland; Chancellor we finally have a process in Deborah Gambrell of Hatplace wherein consideration tiesburg; Chancellor Joseph Philadelphia; and wants of the ward. Just Chancellor Lawrence Primebecause they have a physical aux of Meridian; Chancellor limitation doesn't mean they George Ward of Natchez; former Chancellor Sanford Electronic Steckler of Biloxi; Resinity Services Bureau Direc-MEC is working to de- tor Jake Hutchins; Dr. Luke

### **Governor signs GAP Act to protect** children and vulnerable adults

Phil Bryant Gov. Wednesday, May 29, signed ship and Conservatorship Act, which will provider The experiments begin stronger protections for children and vulnerable adults.

> The Governor held several bill signing ceremonies, signing the Criminal Justice Reform Act, the School Safety Act of 2019 and others

> "The purpose is to protect the most vulnerable," said Supreme Court Justice Dawn Beam, co-chair of the Commission on Guardianship and Conservatorship.

"It has been a long time coming," Gov. Bryant said before he ceremonially signed the bill. He officially signed the legislation into law on April 16. The changes will go into effect Jan. 1, 2020.

Mississippi's laws governing guardianships and conservatorships had not been substantially changed in more than 30 years. The old laws lacked provisions for oversight, monitoring and accountability, and there had been incidents of fraud and abuse of vulnerable people. The Supreme Court on April 13, 2017, created the Mississippi Commission on Guardianship and Conservatorship develop recommendato tions to improve the way the courts protect children, vulnerable adults and estates.

Senate Bill 2828, introduced by Sen. Joey Fillin-GAP Act, for "guard and protect." It is based on recommendations the Commission made after nearly two years of intensive study. The GAP Act aims to improve court processes for protecting children and vulnerable adults and their assets. The Commission made recommendations to create a clear and workable statutory framework, modern and enforceable reporting requirements, comprehensive court monitoring procedures, state driven accountability measures, protection of the ward's fundamental rights, and transparency from all parties.

ing and vague, said Chan-Philadelphia, co-chair of the Commission subcommittee on estate guardianships. There is nothing in the old statutes that tell a conservator exactly what they can or can't do. "I truly feel that this bill makes great strides in the protection of the most vulnerable people among us," Judge Kilgore said.

Chancellor Catherine Farris-Carter of Cleveland, co-chair of the adult guardianship subcommittee, has seen cases in which family members misused a ward's resources when put in charge of a vulnerable adult's affairs. "They absolutely waste and squander the resources."

Jackson elder law attorney Richard Courtney, cochair of the subcommittee on estate guardianships, said, "For years, lawyers have struggled to deal with outdated guardianship and conservatorship procedures. This GAP Act will systematize the procedures for accountability and oversight of children and adults under guardianships and conservatorships."

The new law goes beyond accounting for money and possessions of those in need of assistance, Justice Beam said. "The GAP Act places the well-being of the person on the same footing as their assets, which is huge for enchildren and adults.' The new law also allows judges to tailor guardianship and conservatorship orders to the needs of the person, allowing vulnerable adults to maintain some independence. Justice Beam said, "Judges now have options for respecting the dignity of the person by recognizing there are varying degrees of disabilities. This allows the court to tailor the restrictions on the ward's rights, providing protections where needed while allowing the ward to maintain independence when possible." Recognizing that some disabilities

sets out a process for ending cellor Joseph Kilgore of legal restrictions when the of Sumrall and Mississippi ward recovers from an impairment.

> Chancellor has to be given to the desires Kilgore of have mental limitations."

Mississippi Courts, MEC, the electronic dent Jurist John Hudson of filing system utilized by 62 Natchez; Commissioner of of the state's 82 Chancery Child Protection Services Courts, provides chancel- Jess H. Dickinson; attorney lors, court staff and clerks Anna Claire Steel of the Deof court with a mechanism partment of Child Protection for monitoring and tracking Services; attorney Richard guardianships and conser- Courtney of Jackson; attorvatorships. With the GAP ney Gray Edmondson of Ox-Act set to go into effect in ford; attorney Tiffany Graves January 2020, "we will have of Jackson; State Board of plenty of time to train court Education member Johnny personnel on how the court's Franklin of Bolton; Special computer system will as- Assistant Attorney General sist judges in overseeing the Joe Hemleben; Department care of our citizens," Justice of Mental Health Commu-Beam said.

velop and implement a man- Lampton of Magnolia; attoragement information system ney and Mississippi Bankers that will automate many of Association member Nicole the notifications for annual Lewellyn of Magee; Diswell-being reports and ac- ability Rights Mississippi countings required under the Executive Director Micah GAP Act. Pilot programs uti- Dutro of Jackson; attorney lizing the management infor- David Marchetti of Jackmation system are underway son; Department of Mental in the Sixth Chancery and Health Division of Children Tenth Chancery Courts. The and Youth Services Director Sixth Chancery includes At- Sandra Parks; Rankin Counsuring daily needs such as tala, Carroll, Choctaw, Kem- ty Chancery Clerk Larry food, housing and medical per, Neshoba and Winston Swales; Amie Mondello of gane, is also known as the care are met for vulnerable counties. The Tenth Chan- the Rankin County Chancery is made up of Forrest, cery Clerk's Office; former Lamar, Marion, Pearl River Coahoma County Chancery and Perry counties. Governor, legislators and tiesburg; and attorney Bob members of the Commission for their work on the members to the Commission GAP Act. She also thanked the Mississippi Medical Association, the Bankers Association, AARP and disability advocates whose help was vital to formulating this new approach. director of the Mississippi Judicial College and co-chair of the Commission, said, read "This is a perfect example tus.ls.state.ms.us/docuof how the private sector and ments/2019/pdf/SB/2800are temporary, the GAP Act the public sector can come 2899/SB2828SG.pdf.

The Holmes County Herald welcomes reader submissions for news, events and photos for publication in our weekly newspaper. To submit items, email to:

hcherald@gmail.com Please include all pertinent details, dates, location, name of the event or occasion, all associated people, organizations or groups, reason for event or occasion and NAMES OF ALL PEOPLE PICTURED IN ANY PHOTOGRAPH. We look forward to hearing from you! -Holmes County Herald Staff

The old statues are confus-

Clerk Ed Peacock III; attor-

Justice Beam thanked the ney John Smallwood of Hat-Williford of Ridgeland. Staff include attorney Whitney Griffin of Madison, counsel to the Commission; Supreme Court Central Legal Staff Attorney Gabe Goza of Brandon; and Administrative Office of Courts Youth Court Randy Pierce, executive Programs Director Mary Fuller of Florence.

Senate Bill 2828 can be here: http://billsta-