



Brazilian marines on patrol last week as rowing teams practiced for the Olympics in Rio de Janeiro, which is on heightened guard.

U.S. Helps Rio
As Threats Rise
Before Games

By SIMON ROMERO
and MICHAEL S. SCHMIDT

RIO DE JANEIRO — Worried about possible terrorist attacks at the Olympics in Rio de Janeiro, Brazil’s government is working closely with American law enforcement and intelligence services to identify threats and thwart potential disasters at the Games.

Despite its notorious battles with violent crime, Brazil has largely been spared the kind of brazen terrorist attacks that have rattled much of the world in recent years, with Brazilian officials long playing down the nation’s vulnerability to homegrown extremism.

But jihadists are calling for mayhem at the Olympics, building on a wave of killings in Europe, the United States and elsewhere over the last year, including the massacre of 130 people in Paris and “lone wolf” attacks inspired by the Islamic State, that has raised broad fears about Brazil’s security preparations for the Games.

American officials have been training Brazilian antiterrorism units on chemical and biological attacks. They are helping to identify soft targets like restaurants, night clubs and shopping malls that are away from well-guarded Olympic sites. And they have been working for many months to train Brazilian law enforcement and

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Setting Body’s ‘Serial Killers’ Loose on Cancer

By ANDREW POLLACK

BETHESDA, Md. — The young surgeon was mystified. A fist-size tumor had been removed from the stomach of his patient 12 years earlier, but his doctors had not been able to cut out many smaller growths in his liver. The cancer should have killed him, yet here he lay on the table for a routine gall-bladder operation.

The surgeon, Dr. Steven A. Rosenberg, examined the man’s abdominal cavity, sifting his liver in his fingers, feeling for hard, dense tumors — but he could find no trace of cancer.

It was 1968. Dr. Rosenberg had a hunch he had just witnessed an extraordinary case in which a pa-

CELL WARS
Tumor Assassins

tient’s immune system had vanquished cancer. Hoping there was an elixir in the man’s blood, Dr. Rosenberg got permission to transfuse some of it into a patient dying of stomach cancer. The effort failed. But it was the beginning of a lifelong quest.

“Something began to burn in me,” he would write later, “something that has never gone out.”

Half a century later, Dr. Rosenberg, who turns 76 on Tuesday and is chief of surgery at the National Cancer Institute here, is part of a small fraternity of researchers who have doggedly

pursued a dream — turbocharging the body’s immune system so that more cancer patients can experience recoveries like his long-ago patient’s.

Dr. Rosenberg, Dr. Carl H. June of the University of Pennsylvania and Dr. Michel Sadelain of Memorial Sloan Kettering Cancer Center have been at the forefront of this research for decades, laboring in separate labs in an intense sometimes-cooperative, sometimes-competitive pursuit to bring to fruition a daring therapy that few colleagues believed would work. Now, versions of the therapy for a limited number of blood cancers are nearing approval by federal regulators, and could reach the market as early as next year.

The technique, known as cell therapy, gives each patient an individualized and souped-up version of their own immune system, one that “works better than nature made it,” as Dr. June puts it.

The patient’s T-cells, the soldiers of the immune system, are extracted from the patient’s blood, then genetically engineered to recognize and destroy cancer. The redesigned cells are multiplied in the laboratory, and millions or billions of them are put back into the patient’s bloodstream, set loose like a vast army of tumor assassins.

This is an unusual pharmaceutical — a drug that is alive and can multiply once inside the body. Dr. June calls these cells “serial killers.” A single one can destroy up to 100,000 cancer cells.

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Seemingly Fit,
Trump Avoided
Vietnam Draft

Heel Spurs Led to One
of Five Deferments

By STEVE EDER
and DAVE PHILIPPS

Back in 1968, at the age of 22, Donald J. Trump seemed the picture of health.

He stood 6 feet 2 inches with an athletic build; had played football, tennis and squash; and was taking up golf. His medical history was unblemished, aside from a routine appendectomy when he was 10.

But after he graduated from college in the spring of 1968, making him eligible to be drafted and sent to Vietnam, he received a diagnosis that would change his path: bone spurs in his heels.

The diagnosis resulted in a coveted 1-Y medical deferment that fall, exempting him from military service as the United States was undertaking huge troop deployments to Southeast Asia, inducting about 300,000 men into the military that year.

The deferment was one of five Mr. Trump received during Vietnam. The others were for education.

His experience during the era is drawing new scrutiny after the Muslim American parents of a soldier who was killed in Iraq publicly questioned whether Mr. Trump had ever sacrificed for his country. In an emotional speech at the Democratic National Convention last week, the soldier’s father, Khizr Khan, directly addressed Mr. Trump, the Republican presidential nominee, saying, “You have sacrificed nothing and no one.”

Mr. Trump’s public statements about his draft experience sometimes conflict with his Selective Service records, and he is often hazy in recalling details.

In an interview with The New York Times last month, Mr. Trump

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McCain REBUKES
TRUMP FOR CLASH
WITH G.I.’S FAMILY

DISPUTE ROILING PARTY

G.O.P. Nominee Keeps
Up His Criticism of
Muslim Father

By JENNIFER STEINHAUER

WASHINGTON — Senator John McCain sharply criticized Donald J. Trump’s comments about the family of a fallen Muslim Army captain on Monday, a rebuke that provided an opening for other vulnerable Republican senators to do the same, even though they all stopped short of rescinding their endorsements of him.

“While our party has bestowed upon him the nomination, it is not accompanied by unfettered license to defame those who are the best among us,” Mr. McCain, a war hero whose service and capture in Vietnam were also once derided by Mr. Trump, said in a remarkable and lengthy written reproach of his party’s presidential nominee.

Within an hour, other embattled Republican senators, who like Mr. McCain are trying to stand between the forces propelling Mr. Trump and those he offends, offered their own condemnations.

They were soon joined by President Obama, who chastised Mr. Trump without naming him, and the head of the Veterans of Foreign Wars, Brian Duffy. Mr. Duffy said his organization would not “tolerate anyone berating a Gold Star family member for exercising his or her right of speech or expression.”

Senator Kelly Ayotte, Republican of New Hampshire, whose husband is a veteran of the Iraq war and who is fighting to win a second term, said Monday that

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Flowers left at the grave site of Capt. Humayun Khan, who was killed in 2004, at Arlington National Cemetery on Monday.

A Travel Warning for Miami as Zika Cases Rise

By PAM BELLUCK

Federal health officials on Monday urged pregnant women to stay away from a Miami neighborhood where they have discovered additional cases of Zika infection — apparently the first time the Centers for Disease Control and Prevention has advised people not to travel to a place in the continental United States.

Florida officials said the number of Zika cases caused by local mosquitoes had risen to 14 from the four announced on Friday: 12 men and two women. They declined to say whether either woman was pregnant. All of the cases have been in one neighborhood.

Health officials said they still did not expect the number of local cases to grow into anything comparable to the epidemic that has raged across Latin America in recent

months. The 10 newly identified patients were most likely infected weeks ago, as early as mid-June, the officials said.

But the new information casts doubt over the effectiveness of weeks of intensive mosquito-control efforts in South Florida and raises questions about tourism in the state, which drew more than 100 million visitors last year.

Dr. Thomas R. Frieden, the director of the Centers for Disease Control and Prevention, said

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Even Uber Couldn’t Bridge the China Divide

Travis Kalanick, the co-founder and chief executive of the ride-hailing giant Uber, often defended his eagerness to risk billions on winning the Chinese market with a simple question: If you have a chance to become Amazon and Alibaba at the same time, why not try?

The implication was simple.

Over the last couple of decades, Amazon, Facebook, Google and other American technology giants have each followed a similar script for world domination. Like an imperial armada rolling out from North America’s West Coast, these companies would try to establish beachheads on every other continent.

But when American giants tried to enter the waters of China, the world’s largest internet

market, the armada invariably ran aground.

Plagued by opaque and ever-shifting regulations and a culturally abstruse way of doing business, American companies fell to a series of local giants. Instead of Google, Baidu. Instead of Facebook, WeChat, owned by the giant Tencent. And instead of Amazon, Alibaba.

That has left us with a divide:

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U.S. Strikes ISIS in Libya

The airstrikes, approved by President Obama last week, were part of a military campaign against the Sunni terrorist group’s stronghold in North Africa, the Pentagon said.

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Turkey Backs Ties With U.S.

Despite the anti-American sentiment after the coup attempt, above, Turkish officials said they supported their relationship with the United States.

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OBITUARIES A20-21

Expert on Tech and Learning

Seymour Papert was a co-director of an artificial intelligence lab at M.I.T. Some considered him to be the foremost expert on technology and learning. He was 88.

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BUSINESS DAY B1-7

Chasing Instant Payments

Top banks and credit card companies are competing against technology companies like Apple and PayPal to build and control the payment network of the future.

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Returning to Downtown

Companies including McDonald’s and General Electric are moving their headquarters to cities like Boston and Chicago, partly as a way to attract younger employees.

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The G Train Has Its Moment

The subway line, which has taken on a hipsterish ambience of late, will receive even more attention when sections of the L train are shut down.

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A Team Without a Home

Yusra Mardini of Syria, along with nine other athletes from war-torn countries like hers, will compete in Rio on the first Olympic refugee team.

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Biology in the Bedroom

Based on a reconstruction of the ancient history of the female orgasm, two scientists have offered a new way of thinking about it.

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David Brooks

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