A discovery that the most common variant of the HIV virus is also the “wimpiest” will help doctors better treat millions of individuals around the world suffering from the deadly disease, according to one of the world’s leading HIV/AIDS researchers. The findings were announced today in the journal EBioMedicine.

“HIV is one of the most diverse viruses that infect our human population,” said Western researcher Eric Arts, Canada Research Chair in HIV Pathogenesis and Viral Control. “We need to know how we are to treat these patients and how they respond to treatment when they are infected. That is one of the most difficult aspects for us to deal with in terms of developing a vaccine – the fact we have so many strains.”

HIV – or human immunodeficiency virus – attacks and destroys infection-fighting cells of the immune system. Without treatment, HIV gradually destroys the immune system and advances to AIDS – or acquired immunodeficiency syndrome. AIDS is the most advanced stage of HIV infection.

According to the United Nations, there were approximately 36.7 million people worldwide living with HIV/AIDS at the end of 2015. Of these, 1.8 million were children under 15 years old. An estimated 2.1 million individuals worldwide became newly infected with HIV in 2015; that number includes 150,000 children who mostly live in sub-Saharan Africa who were infected by their HIV-positive mothers during pregnancy, childbirth or breastfeeding.

The majority of those living with the virus are infected with HIV strains not found in North America or Europe, Arts explained, and, as a consequence, researchers know less about them.

In a research project he began almost 15 years ago while at Case Western Reserve University, Arts explored how the various strains of the HIV virus advance in the body. He sought out differences in the strains and how those differences might impact treatment.

**BY THE NUMBERS**

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Study unlocks secret to HIV strain
Hard to pass up taking a shot at ignorance

I

We want to denounced ignorance in the strongest language possible. And the world offers plenty to denounced. Living alone in a photograph of four individuals draped in a blanket writing “Western Lives Matter” started making the rounds on social media Friday night. It was an attempt to recognize the lives of students or graduates at Western University who had passed away over the last decade. In this case, their lives had ended tragically. Ignorance in the form of social media is the latest weapon in a long line.

Thankfully, the numbers are few and far between, and, in part, due to the Black Lives Matter movement — it’s becoming more likely to speak up about incidents like this. The world is a good thing. But with this

ing comes a responsibility to the language around it – to the conditions that led to this incident. It was difficult to ignore the group picture that appeared on the internet. Three individuals were throwing rocks, some were casually banding the actions, and in turn, the individuals, as stated above. We feel it was a responsible, impactful and direct manner to bring an end to this. But if we were to want to educate, then we need to have a master plan to run for the expression of the conversation to those who don’t get it.

PwC

The day before the demonstration, I heard a student say, “We need to do this, we need to be heard.”

Going straight to Hitler is not helping the target, it is lowering the bar on expectations.

In my previous life as a reporter and editor in the U.S. South, I met evil – Ku Klux Klans, police, law enforcement, those who took pride in intimidating, tormenting and limiting opportunity of minorities in their communities. The history of evil is a history of confronting evil and witnessing firsthand the ways that a group can be empowered by another group.

In the case of the Black Lives Matter movement, we are witnessing a different way of confronting evil.

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A few years ago, I was at a conference about education and inclusivity.

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How I fell apart and almost dropped out of grad school

By Bhuvnesh Prasad

I used to assume myself as minor inter-views, like throwing Julie in a headless No. 1, including my need-to-sea. But was completely awed of what I am doing and that still, une, a sense but humble. It witnessed my resilient felicity slip away with regard for my wellbeing. I became burnout and aesthetic and demonstrated that I am unproductive, including the fact that I am unproductive. I gave up the habit of talking; I found it to be a better tool for me. I wasn’t clear that the future of my student for my superiority, but she was the best mentor for me. The fact reminded me of why it’s important to take ownership over your situation.

I never adopted a grand school may have taken much longer than expected. It provided me a priceless opportunity to change. Through the perseverance of reorganizing myself, I discovered my inner strength and it was a powerful force.

Nothing in life should be easy. I knew now that I was not going to meet expectations. I began this approach. Taking the minor to my new path, I would no longer be selfish. I had to adapt the reality of the situation and define purpose and habituate myself with a new condition. It’s only an opportunity if you see one as it is; you’re youths and alone. Once you acknowledge this and adapt your routine, you celebrate your dilemma, whether it’s reading a book or asking for help.

I was my style guide. I had tremendous difficulty conducting my work, but I had my style guide. I was onto something, a potential path forward. I finally completed my masters, but not without its costs. I may not have been the best student, but I was the best student I could be.

I grew a lot from reading, but it took me a long time. It essentially became clear that I had to decentralize and dissect my life. I was asked to stay, and stay I did. I began to learn from books and novels. I ran my phobia, slowly and gradually. I was moving on, became a minimum person (444 am, wake-up, 11 pm, sleep). I was growing physically and mentally, confounding statements.

The idea of looking in itself was a huge choice to make. I was no longer a student and not an intern. I was still a student, but I was working on a new path. I was no longer a student, but I was working on a new path. I was no longer a student, but I was working on a new path.

I am not that student, I am not that student, I am not that student.

Through the experiences of a former Finance Minister

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The disease to go from HIV infection to AIDS, when people speak about HIV, they’re referring to HIV-1. HIV-2 is a relatively rare form found outside of Central Africa. Virus of HIV are classified into four groups: Group M, N, D, and P. Group M - “Major” - is responsible for the majority of global HIV infections.

Within Group M, there are nine genetically distinct subtypes - A, B, C, D, E, F, G, H, and J. The dominant subtype in Western Europe and Australia is Subtype B. As a result, the majority of HIV clinical research has been conducted in the Americas, Western Europe and Australasia is Subtype B.

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EXPLORING SUBTYPE C

Researchers classify HIV into four groups. Of those, Group M - or “Major” - is responsible for the majority of global HIV cases. Within Group M, there are nine genetically distinct subtypes. The dominant subtype in the Americas, Western Europe and Australasia is Subtype B.

As a result, the majority of HIV clinical research has been conducted in the Americas, Western Europe and Australasia is Subtype B.

Western researcher Eric Arts, Canada Research Chair in HIV Pathogenesis and Viral Control, is exploring Subtype C, an area of far less understanding despite the fact just under half of all people living with HIV have that subtype. The subtype is common in the countries of southern Africa, as well as in the horn of Africa and India.
people all over the world, and a country is whittled down to a single story when it is
seen ‘through the eyes of another.’ When we only see a single story about a
culture, we lose the many stories and experiences that make up the entire
culture. Each child knows how special they were, not only to us, but to their
community.

At first, my lack of fluency in Kinyarwanda prevented me from getting to
discuss in class—‘I am because you are’—as a concept of mutual dependence,
and the language barrier became
a barrier I had to overcome in order to be effective. I often cried—and
so did we. Of course, I had no idea how to apply my own cultural
perceptions to another culture, nor how to deal with their own cultural values
and norms. I did not understand the cultural nuances of the children
whom I can confidently call my friends.

In Rwanda, I found that my heart was always open to connecting with
people, and that I was able to make meaningful connections with
each child. I was able to see the potential in every child, and to
gen, and to myself.

As we were saying our final goodbyes, I

After taking French 3140B, I finally understand the real depths
of a Single Story, she challenged me to avoid holding stereotypes.

In her mind, she...
Lecture at the Ivey Executive Development Centre.

We were encouraged to set our own goals and learning objectives before traveling to Rwanda. I hoped to improve my interpersonal communication skills, gain a better awareness of my own cultural and personal biases. While I can say these goals were met, they were far surpassed. I learned much more about myself, and about humanity, than I ever expected to while in Rwanda. Throughout the trip, the people I met were living, breathing examples of resilience. They were some of the most compassionate and generous people I have ever met. The love and tenacity the students attach to children who are unfortunate enough to be on the streets. They are not statistical children—they are normal children whose human rights should be strongly protected and advocated for by all of us.

I have always been greatly impressed by the way of our placement by Charles Hazabintwali, the centre's coordinator. He reminded us these children, "street children" – they are normal children whose human and civil rights should be strongly protected and treated as outlaws by those who don't know them. Some of them were living on the streets because they had no one to care for them; others, like the boys I will describe in this article, were some of the most compassionate and generous people I have ever met. The love and tenacity the students attach to children who are unfortunate enough to be on the streets. They are not statistical children—they are normal children whose human rights should be strongly protected and advocated for by all of us.

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**Research**

**Professor: UN focus on superbugs right on target**

BY ADELA TALBOT

The problem is just getting worse. Antibiotic-resistant bacteria, viruses and microbes are responsible for nearly 700,000 deaths each year. Speaking at a packed audience in the McIntosh Sculpture Garden, Dr. Heinrichs explained the United Nations (UN) has now focused on superbugs as a global health crisis. "It has to do with antimicrobial resistance, which is already a very serious problem," he stated. "We have all sorts of infectious diseases that are going to become very difficult to treat because of bacterial resistance."

Dr. Heinrichs said antibiotic resistance poses a fundamental threat to human health, sustainable food production and development. "It's not that it may happen in the future. It is very much happening right now," he explained. "It's a global problem, it's happening in developed countries, it's happening in developing countries, in rural and urban areas, in hospitals, on farms and in communities."

The UN is calling attention to the problem. Antibiotics are overused on a global scale for practices that are unrelated with bacterial disease. "This is really a global problem and it is one we all have to address," Heinrichs said. "We need to change the way we use antibiotics." He added that some hospitals and doctors have been doing a good job of limiting the use of antibiotics, but the problem is getting worse. "We have a lot of work to do," he said. "We need to change the way we use antibiotics and we need to change the way we teach our students about using antibiotics."
Study looks to share rural shelter expertise

BY PAUL MAYNE

Western Health Sciences researchers are drawing attention to the challenges of—and hoping to find solutions for—women who experience violence using shelters in rural Ontario settings.

With funding from the Ontario Association of Interval and Transition Housing, Health Sciences postdoctoral fellow Tiera Mantler and Western’s Andrew O’Malley are looking at different rural settings and have brought together nearly 20 people from across the province to understand how rural women use shelters and the barriers they may face in accessing them.

“We’re bringing together shelter directors from across rural Ontario. I just want to find out what they’re doing and if the model is working. Sometimes you can’t do as much if you’re working in a different rural setting, and can bring them together to see what we’ve got,” Mantler said.

“The idea is once we have that set of best practices we can continue by disseminating them far and wide into more rural areas,” O’Malley added.

Research

Ivey honours a textbook case of success

BY PAUL MAYNE

Michael Pearce remains ever-taking the Business Decision Making course at Ivey Business School since his Kipling in 1972. As the man responsible for writing and editing the book, and reader chosen by the editors for “their humanistic merit in authentically presenting the dilemmas of business decision making,” the book was designed as a resource for medical students and educators interested in the medical humanities. The book presents first-person accounts of experiences in discretion in the class room and on the ward, reflecting the potential physician-relationship, dysfunctional, systems-based care, and discovering the same for thereader’s contribution, Exam Room 2, is a story of young doctor learning the limits of medical training care and compassion.

Each message is accompanied by discussion questions written by the medical student editors of In Training, and the questions were reviewed by members of the Arnold P. Gold Foundation, a national nonprofit organization dedicated to promoting humanism in medicine and medical education.

CAREERS

A central website displays advertisements for all vacant academic positions. The following positions are among those advertised on the Ivey website.

Please review all the positions on the website, contact the faculty, school or department directly.

Full-Time Academic Appointments
School of Medicine & Dentistry and Health Sciences

The position of Chair, Department of Mathematics in the Schulich School of Mathematics at Western University is anticipated to commence on July 1, 2017. Consideration of applications will commence on Nov. 1. Positions are subject to budgetary approval. Applicants should have been written and oral communication skills in English. All qualified candidates of any race, colour or creed will be considered. Women and individuals with disabilities are encouraged to apply.

Faculty of Science, Department of Mathematics, School of Medicine & Dentistry, London Health Sciences Centre, London, Ontario N6A 5C1

An academic search has been established to fill a full-time, tenure-track position at the level of Assistant Professor or Associate Professor in the area of structural neuroscience. The successful candidate will be expected to develop a strong research program, and will have the opportunity to work closely with a variety of collaborative groups.

河南省郑州市黄店镇第一医院

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Clinician Scientists

A career in clinical science is available within the Department of Medicine at the University of Toronto, in the Division of Critical Care Medicine. We offer a competitive salary and benefits to support the successful candidate in their development, and we encourage applications from women and underrepresented groups in medicine.

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There is no simple way to detect or identify them. They cannot be seen or heard, leave no physical evidence behind and hide their tracks through a complex web of compromised computers. When it comes to computer hackers, Jeff Gardiner, Western’s Central Information Security Officer, and his team face a daunting challenge – every moment of every day.

But with the increasing help of cyber-smart faculty, staff and students, the challenge can be met. “We live in a digitally connected world and this digital connection touches nearly all aspects of everyone’s daily life, whether we realize it or not,” Gardiner said.

Western Information and Technology Services (ITS) has designated Oct. 17-21 as Cyber Security Awareness Week on campus, designed to engage and educate both the public and private sector by raising awareness about cybersecurity.

“Western is participating in this effort by hoping to provide Western's community with the tools and resources needed to stay safe online. We're calling this ‘Becoming Cyber Smart.’ By increasing the resiliency of our community, we're hoping to reduce the possibility of cyber-incidents occurring. But when they do occur, having a cyber-smart community reduces the scope of the damage caused by the incident.”

The potential harm to universities hit home earlier this year when the University of Calgary paid a demanded $20,000 after a ‘ransomware’ attack on its staff and students, the challenge can be met.

“Western, like other universities, is subject to a relentless myriad of threats that are escalating in both frequency and sophistication,” he said.

In order for Western to properly protect its most important information assets, the university is undertaking a multi-pronged, cyber-security strategy involving targeted investments in IT security technologies, IT security policy improvements and ongoing cyber-security education and awareness programming.

While they may sound like a "broken record," Grieve stressed awareness campaigns continue to be, unfortunately, a requirement at Western.

“The education and awareness component of our strategy will be crucial to our success,” he said. “We need to institute a culture where our campus community members recognize and embrace their roles in helping to protect each other, and our university campus information systems, from these threats.”

Gardiner added while it's easy to just say “use your common sense,” even that is sometimes not enough.

“Add to common sense risk awareness,” he said. "The two together are a perfect recipe for avoiding problems.

"The most common way to attack an information system is to attack the people who use the system," Gardiner said.

With the enormous number of systems on campus, it is difficult to put an exact number on attacks the university faces in a year. But they add up. On average, spam constitutes about 85 per cent of the university email received on a daily basis.

While most phishing attempts – such as ‘You’ve won the lottery’ or a ‘Nigerian prince has funds to transfer to you’ – are no longer fooling many, Gardiner reminds the university community to protect their digital identities by never giving out usernames or passwords – even to ITS.

“Simply knowing the threat is the greatest way to combat this risk,” he said. “Emails from unknown senders with attachments or questionable sites that redirect you without your permission are sure-fire clues that something funny may be going on.”

Jeff Grieve, Executive Director of ITS, added cyber-security needs to be top of mind for all members of the campus community. It is part of the message underlying the branding of Western’s Cyber Security education campaign #ProtectU.