### 10.18

## History

and used America's fear of a chang- within vehicles, anywhere a child is ing society and placed the blame on those who partook in drugs, including marijuana. Nixon was successful in side saliva tests if they suspect somecreating a clear "us vs. them" picture through his efforts and amped up the driving high mirror those of driving usage of drugs to be a "serious national threat to the personal health and safety of millions of Americans." This began his War on Drugs campaign. received 242 retail proposals, but it

It was June 1971 when Nixon framed marijuana as public enemy number one. In 1972. the commission unanimously recommended that they decriminalize possession of marijuana, but Nixon ignored this. The Drug Enforcement Administration (DEA), which is responsible for dealing with drug use and drug smuggling in the United States, was formed by Nixon in 1973.

By the 1990s, reports on the public opinion on marijuana began to change as support for its legalization slowly began to increase. By 2000, its support jumped up to 31%; in 2013, Americans showed 58% support to legalize and the 2015 poll showed 71% in favour of legalization. This, in part, was due to people realizing that, by partaking in smoking marijuana, they were not actually overcome by schizophrenia, the urge to murder, or drop out of college.

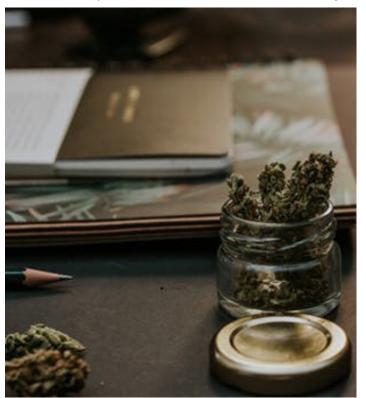
Now that marijuana is legalized, I thought I would touch upon the laws and regulations being put in place. You must be 18 years of age to buy or consume marijuana. You will be able to buy it dried, fresh, or in oil form. Adults can legally grow up to 4 cannabis plants per household for their own personal use. Should an adult sell to a minor, the maximum jail penalty is 14 years. The same laws apply to driving high as they do to driving drunk.

Smoking marijuana will be prohibited

present, or where tobacco is restricted. Police are allowed to conduct roadone to be driving high; the laws on drunk. As of October 17, Edmonton will have 17 private retailers available to legally sell marijuana. The city has is unclear how many will be approved.

Each province sets specific rules on weed, so if you intend to leave Alberta, it is best to research the province's laws. For example, in Manitoba, you must be 19 years of age, and public consumption of marijuana is prohibited, which includes smoking on the streets or sidewalk, beaches, parks, or restaurant patios.

Whether you have been enjoying marijuana for years or you are now curious to see what it is all about, please remember to stay safe and never drive high.



Issue #5 THE BOLT REBS



P1 HALLOWEEN TRADITIONS Natasha Eklund examines

the historical roots of our spookiest holiday. Where did it originate, and why?

**P5** 

CUE POETRY

Poetry returns to The Bolt, featuring work by J. Becks and one anonymous writer. Want to submit? See page 5.



### **THEBOLTNEWS.COM**

### October 29, 2018

## By Students, For Students.

**P7** 

### "IT'S WHAT'S INSIDE THAT COUNTS"

Dono∨an Makus talks the human body and what's inside it, and answers a question you never asked: what is gut flora?

P13

### HELLO MARY JANE

Natasha Eklund is back to talk about the history of marijuana which would lead to its legalization in Canada.

## History

## Halloween Traditions

by Natasha Eklund

time to get all dressed up, carve pumpkins, eat candy, and, of course, party.

Halloween's origins are found in the pagan Celtic festival, Samhain. This festival occurred in autumn and contains a mix of supernatural beliefs with a mix of harvest, similar to our modern Halloween holiday. The Samhain festival was seen as marking the end of the harvest and the beginning of winter. The tradition was in celebration of the final harvest, closing the stages of growth, and the beginning of winter. the halloween icons, alongside witches. It is also known as a Fire Festival. as is seen as an assertion of life in The persecution of so-called witches the presence of an approaching dark and cold winter. It is associated with dark, supernatural beliefs connected with death or the underworld. and this festival is seen as a time of instability. leaving humans "susceptible to divine and supernatural interference," which is where we get the idea of spirits being free to roam earth on Halloween. this storm on witches in North Berwick,

This festival became Christianized in 1550 and renamed to All Saints Day, mately 4,000 individuals burned alive which occurs on November 1. It was around this time that the evening before November 1 became known as "All Hallows' Eve." a term used until mid-1700s; this too adapted some pagan characteristics. The combination tradition of All Hallows' Eve and All Saints Day was brought to Canada in the mid-to-late 1800s by Irish and Scottish immigrants who were escaping the potato famine. People both celebrated and feared October 31 as the idea that fessing to witchcraft simply to end the

Halloween is an exciting time of year: a the dead would be able to roam free among the living continued on. It was believed that, if the dead were mistreated, their spirits would haunt and punish the community. It was from this that people began to wear masks and costumes to frighten and confuse these spirits. From this, we are able to see how our modern tradition of Halloween was formed as many different beliefs and practices were slowly being merged together. Due to the Catholic Christianization of the Samhain tradition. the Devil began to be associated as one of

> began roughly in the 1480s. Accused individuals, most of whom were women, started being tortured, imprisoned, and executed for witchcraft. In 1590, King James VI of Scotland set out to meet his soon-to-be queen. Anne of Denmark. on October 31, but due to a horrible storm, had to turn back. James blamed which began the horrible trials and executions. Scotland had seen approxiat the stake for witchcraft, and North Berwick saw 70-200 individuals being horribly tortured, imprisoned, and executed all under authority of King James. Some "signs" of witchcraft included having red hair, unusual "devils marks" (aka birthmarks), or being lefthanded. As well, older women who worked with herbs and medicine were also a prime target. It is likely that many of these individuals had ended up con-

member of the House of Commons, quoted a ported, manufactured, produced, sold, or British parliament member, who claimed prescribed marijuana. By the time the that the defeat of the Spanish-American 1960s rolled around in America, there War and the defeat of the French in the was a dramatic social change, and marijuana was at its centre. This decade Franco-Prussian War was easily credited to the habit of smoking cigarettes. was the time of hippies and beatniksand that if individuals smoked, they -two cultural groups who pushed against would lack the vitality to become good society's norms and controversial govsoldiers. However, they were referernment policies. They were about freering to tobacco more so than marijuana. dom, civil rights, and peace. The government's response was to increase the By the early 1920s, the Canadian govern- criminalization of drugs in efforts to stop this movement and bring society ment had passed harsh drug laws which included a six month minimum jail senback to how it was before the 1960s.

tence for possession. By the late 1940s and 1950s, the mindset of drug users It did not help that Richard Nixon bewas that they had "inadequate person- lieved that drugs were detrimental alities" and were, therefore, a threat to society; they added a criminal elto society due to their criminal activ- ement that users should be removed. ities. In Canada, however, the drug use Nixon was known for his paranoia and was most commonly referred to as heroin irritation towards "otherness" (Jews, as the use of marijuana was still rare. women, blacks, Democrats, Congress and foreigners). Nixon capitalized on this

In fact, a large reason for the marijuana prohibition in American is thanks to Harry Anslinger, a veteran of the Bureau of Prohibition whose term began in the late 1930s. Anslinger was one of the most passionate anti-drug advocator--he even toured the country giving speeches on why marijuana should be illegal. His information included creative stats and compelling anecdotes which were greatly manipulated and possibly made up. Anslinger preached that those who partook in marijuana would rob, rape, and murder strangers, police officers, and even members of their family. As well. Anslinger appealed to the public's scare tactic of racial overtones as he implied that marijuana was introduced to the United States from Mexico.

The Tax Act of 1937 was one of the first of the government's effort in criminalizing marijuana. This involved taxing all people involved in marijuana production, including anyone who im-

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PAGE 14

5

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### Hello, Mary Jane: The Legalization of Marijuana

#### by Natasha Eklund

As we know, marijuana (party parsley, Lu- the cultivation of hemp was encourcifer's lettuce, hippy cabbage or wacky tobaccy) is legalized and has been the subject of hot debate. Due to this his- Surprisingly enough, many key historitoric occasion, I decided to research the history of this controversial drug. Unfortunately, the majority of the research I will present is based within the States as it was difficult to find much information on marijuana in Canada.

It's a no-brainer that this plant has been around for millions of years and has been recorded for various uses by humans for at least 5,000 years. To begin addressing this complex history, I thought I would start with the basics. There are three distinct genera of Cannabis: sativa, indica, and ruderalis. Each strand has its own particular characteristics: sativa is known to grow much taller and its stem is firm (hemp is commonly acquired from this plant), ruderalis is smaller and it tends to be less potent because of its many years of cross-breeding in Central Russia, and the indica plant is shorter and stockier. If you choose to partake in smoking marijuana, you may find you have different experiences, which is based on the strand that you smoke. Sativa tends to create a euphoric feeling, but indi- In Canada, the history of marijuana was ca tends to be more mellow and calming.

It is also commonly known that hemp, a product of marijuana, can be used for a variety of products. Hemp stalks can create strong materials that can be used in sails for ships, clothing, plastic, and other purposes. As tal degradation as it was claimed that seen throughout American history, smoking stunted growth. Robert Holmes, a

aged and even required during wartime.

cal figures have partaken in and benefited from marijuana. Henry VIII and his daughter, Elizabeth I, issued decrees to encourage hemp cultivation in England. As well, Queen Victoria was prescribed medical marijuana as a pain reliever for menstrual cramps. George Washington and Thomas Jefferson were both successful hemp farmers who had kept detailed notes on their precise process of farming the crop. In historic Chinese culture, cannabis was used frequently for medical purposes, even by the nation's emperors.

Marijuana was banned within the United States in the 1930s, but its name still made its appearance in multiple song lyrics and was credited by many artists. Louis Armstrong released a song in the 1920s called "Muggles," which was, at the time, jazz and blues slang for marijuana. Bob Marley's song "Kaya," the Beatles song "Got to Get You into My Life," and Bob Dylan's song "Rainy Day Women" all make mention of marijuana.

much harder to find. The Montreal's Woman's Christian Temperance Union (WCU) advocated for restrictions and prohibition on smoking and cigarette usage from 1892-1914. The opposition to smoking was not due to concerns of health, but rather concerns of physical and mentorture; as well, many ended up simply damaging sidewalks and fences and dedying from the injuries inflicted upon railing a streetcar. There was an inthem. One of the brutal and horrific im- stance where eight young men stole plements of torture used was known as and destroyed a horse-drawn wagon. the "breast ripper." This device had 4 Trick-or-treating wasn't always a com-

pronged levels that would encircle the accused person's breast and rip it off. mon part of Halloween. In 1927, the town of Blackie, Alberta, was the first to re-In association with witchcraft, cats cord the phrase "trick-or-treat" in its quickly became a symbol of Hallowlocal newspaper, as some pranksters arrived at a house and demanded a trick or een as they were known to be connected to witches; this thought dates back a treat. However, this prank had formed to the Middle Ages. It was believed into a new Halloween tradition, as by that witches were able to shapeshift the 1930s, most children in Edmonton into cats and that they would shapehad their own homemade costumes, and by shift their cats into horses to ride. 1940, vacuum-formed masks had become Black cats in particular became assoavailable to buy. If you ever look up ciated with Halloween due to the conthe early handmade Halloween costumes, nection with witchcraft and the superyou will see they were quite terrifystition that black cats are a symbol of ing. The common costumes children chose bad luck and a bringer of misfortune. were a bit of an issue with presenting race as many children would paint Another common icon and tradition of their faces black, and there was a ste-Halloween is the tradition of pumpkin reotypical "Indian princess" costume.

carving. This originated from the Celtic tradition of carving turnips, which The popular treats among the early 20th century trick-or-treaters consisted of popcorn, apples (and other fruits), and nuts. Of course, the concerns of Halof poison candy in the 1960s. There loween candy may be poisoned or altered in some fashion. causing harm to an unsuspecting child. Very rarely are these cases proven true. Sadly, these concerns have brought an end to homemade candy apples and other delicious treats. Just last year, a report of a child eating suspicious candy the police tested all candy, they revealed there were no traces of poison.

were used to keep away evil spirits. Reports of pumpkins being carved dates back as early as 1820s, but jacko-lanterns were not a common occur- loween safety were an issue far before rence or idea until the late 1800s. the first reported (and false) claim Halloween, in early Edmonton, was has been a continuing scare that Halcharacterized by the popular pranks of the 1900s which involved tipping outhouses, soaping windows, stealing gates and porch furniture, and attempting to block the street with whatever could be found. The general rule was that any pranking would be accepted as long as no one was hurt and property damage kept minimal--if you ask and falling ill was reported and, after me, this is would be much more fun than spending an evening watching horror movies. However, pranking had taken a turn, as they begun to get more risky Now that you know some fun facts in the 1920s; by 1930 Edmonton's glory about our modern Halloween tradidays of Halloween pranks had come to tion and how it has developed, go out an end, The pranks of 1930 involved and have fun, and of course, stay safe!

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## History

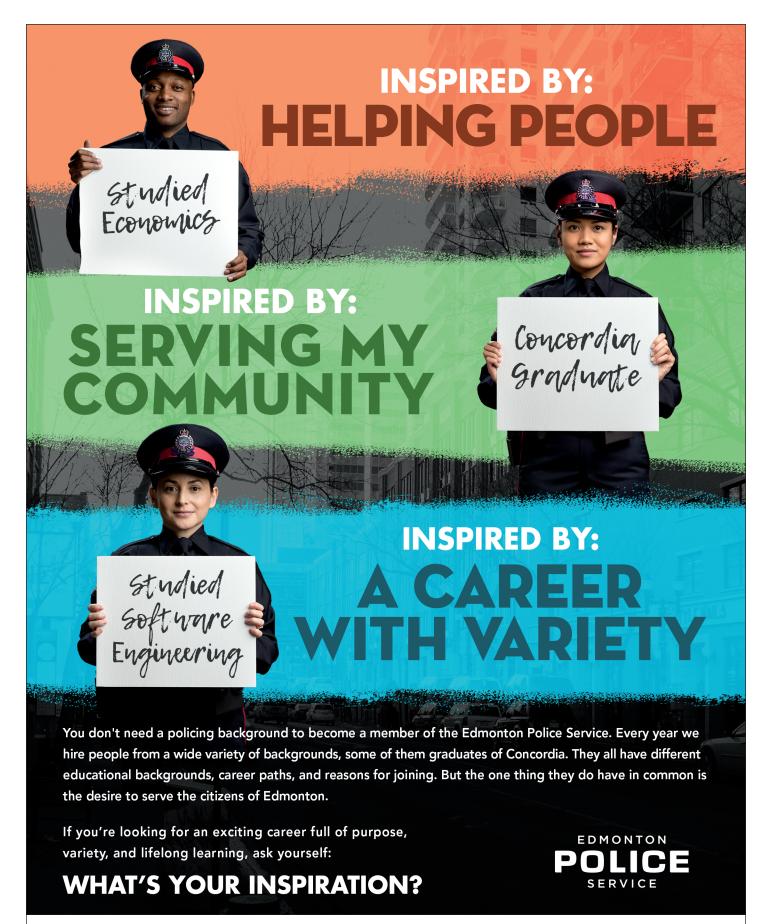
made by forced labor will not be al- items that weed their way into retail lowed. The labor chapter also ensures spaces, and now imported goods will be that national laws allow unions and screened a lot better for such items. prevent discriminatory hiring poli- Included with trademarks is proteccies from taking place. Although it may tion for pharmaceutical patents. US seem like such practices are already pharma-companies will now have betprotected, many US firms do business in ter security for their drugs here in Canada, and if Concordia students take Canada (and visa versa). This does not jobs with such businesses, they can be mean, however, that we should fear an protected against fallacious practices increase in pricing; rather, if there is both at home and abroad. Many women's anything to fear, it would be that the rights are included as well; they deal profits of drug companies will continue with discrimination based based on to grow as protections for them, which pregnancy, sexual harassment, and genmeans fewer players in the marketplace. der identity. Having these new rules in place can give those who might be sub- Climate Protections ject to discriminations peace of mind when entering the workforce. Even though With the scientific claim that climate it maybe possible for such practices to change is the biggest threat to humans, happen, the deal includes a "non-derthe USMCA has a section dedicated to ogation" clause to make sure legislastronger climate protection and adhertion is not passed to infringe on the mentioned labor conditions. If anything ence to climate regulations. Although it does not come anywhere close to goal outlines in the Paris Climate Acrises to concern, the three countries can open up a forum for discussion to cords, all three countries have commitnavigate, if needed. This will hold all ted to better protection with respect governments accountable. With these to wildlife and biodiversity. The ennew protections and policies in place, vironmental protections also include a both current and future graduates can provision to ensure that each country be assured knowing that they, as well doesn't pass laws that might go against as their products, will be protected. the outlined goals. The North American Agreement on Environmental Co-Intellectual Property and Digital Trade operation (NAAEC) is set up to ensure that resolutions with the new climate policies are followed properly. While A big section of the new trade deal was designed with regards to intellecprotecting the climate further will tual property and patents. Intellectual require massive socioeconomic changproperty, or IP for short, refers to to es, this part of the new trade deal is creations of the mind, such as litera step in the right direction for us.

ary and artistic works, designs, symbols, names, and images used in com- Sunset Clause merce. All three countries now have the obligation to protect and respect The last addition to the new deal is IP across their borders. For any stusomething called a "sunset clause." dents that are creators of any kind, This means that the terms of the agree-USMCA seeks to enforce stronger civil ment expire after a period of time. and criminal matters, especially for things like music and film production. With that said, it is important to note that, going forward into the future. Another benefit will be to make sure the provisions of USMCA are bound trademarks are better protected; this to change with new governments bemeans that brand-name labels will keep ing elected and different economic istheir integrity. Nobody likes knock-off sues that might arise in the future.

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## Politics

## USMCA: The New NAFTA, Kind Of

by Reid Offers

A lot has happened between the last Country of Origin Rules issue and now, and the trade negotiators from North America have come together and agreed on a new deal. While the new deal still needs approval from the legislatures to be finalized, a lot has both changed and stayed the same with regards to NAFTA.

The new trade agreement is being called "United States-Mexico-Canada Agreement," or USMCA for short. As uncreative as the name may be for this new trade agreement, it was named on purpose as the three countries wanted to distinguish USMCA from NAFTA.

Most modern economists would contend that free trade is a win-win for all parties involved. Steering clear of protectionist tariffs and opening up new protections for firms and employees, the new trade agreement seeks to change some things from NAF-TA. Some of the most major changes brought about from it are listed below:

- Country of origin rules
- Labor provisions

PAGE 11

- Intellectual property and digital trade
- Environmental protections



When I was younger, my baby-boomer father would always complain about the current state of automobiles and how "they don't make 'em like they used to." This is usually said with reference to the fact that a lot of parts are being manufactured in Asia. Under the USMCA. however, this will no longer be an issue, because the majority of cars and trucks being sold in North America will have to abide by new regulations. This means that by 2030, 75% of automobile components and alike will have to be made from parts manufactured right here in North America. What does this mean in regards to pricing? It is hard to say at this point; however, it most likely will not have a huge effect on MSRP's (manufacturer's suggested retail price) of vehicles, since some major Japanese and German carmakers already have factories in the United States. In the long run, Korean carmakers are more likely to move some of their manufac-turing over as well. Twenty years from now when we are all graduated, we can have the peace of mind of driving cars around (or the cars driving us around) knowing that its parts and components were made by North American workers.

#### Labor Provisions

Unlike some international conglomerates that resort to child labor and poor working conditions, the US, Mexico, and Canada have agreed to more strict labor provisions in USMCA. In order to safeguard against unfair employment practices, all three nations have decided that any imported goods follow strict protocol for labor. Any goods that are



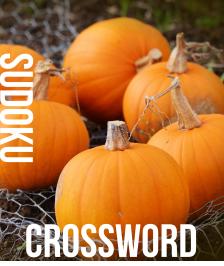
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## Fun and Games

|   | 6 |   |   |   |
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| 1 |   | 8 |   |   |
| 8 |   | 1 | 9 |   |
|   |   | 6 | 1 |   |
|   | 9 |   | 4 |   |
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| 3 |   | 9 | 7 |   |
| 7 |   |   | 6 | 8 |
|   |   | 2 |   |   |



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|      |    |    |    |    | 22 |    | +  |    | 23 | +  |    |    | 24 | +  |    |
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|      | 36 | +  | +  | +  |    | 37 | 38 |    | +  | +  |    | 39 | +  | +  | +  |
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#### Down

- 1. Mil. registration group
- 2. Resting on
- 3. Lymph \_\_\_
- 4. Exchange
- 5. Drilling equipment
- 6. Et \_\_: and others 7. Dishonest scheme
- 8. Dormant
- 9. On \_\_ with: equal to
- 10. Out-of-date
- 11. Stage performer
- 12. High schoolers

 $\bigcirc$ 

- 14. Campaign nastiness

- 20. Quarry
- 21. Eats in style
- 25. Comes down with
- 26. "\_\_\_ the Mood for
- Love"
- 27. It's forbidden
- 28. Get taller
- 29. "Amazing" magician
- 32. Cabbagy side dish
- 33. Bridge fee
- 34. Assist in crime 35. Crime scene
- discoverv
- 37. "\_\_\_ for Murder" 38. Not mentioned

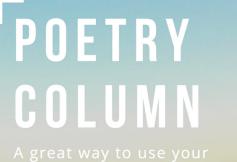
- 42. Twosome
- 43. Words to a black
- sheen
- 44. Campus speaker
- 45. London apartments
- 46. Players with big
- serves, often
- 47. Baryshnikov's
- nickname
- 48. Playwright Chekhov 52. It means nothing to
- Juan 53. El : ocean current
- 54. Clothes
- 55. "See no \_\_ ..."
- 56. "Must-see" review
- 60. Guided





### 10.18

## CUE POETRY



to relate to fellow students

Theme: Super Natural

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Submit your poems anonymously for publication in The Bolt!

## Henna

#### Anonymous

To break the surface of something great---To delve in deep without mistake--The desire to wander the garden within--The need to feel things that make you spin. Insatiable lust to be woven inside--Unquenchable thirst to be one with the tide. I circle the surface, my face to the floor--Begging to be on your side of the door. Our love is Henna--beautiful, grand; Circular patterns down to the hand---Can we transform it into a tattoo? How can I transfer this longing to you?

## ..Ghost..

by J. Becks

Her skin is white,

Almost grey like clouds on summer day

Her mind is an antonym of storm clouds

Her eyes let so many tears run free

She thought she'd drown

Her lips pale and longing

Her skin tickles and shivers for touch

Her heart no better than an ice block in her Blue faded. chest

Her icy presence makes others chill

Her soul trapped in a grave under a dead mangled tree, on a abandoned hill

With crooked branches like his grin

With pair of chilling eyes

In grotesque way she was thankful

She couldn't remember the wicked ways of man

She believed his lies and that's how she died

It was all part of his plan

But she could never be free of the sadness that wraps around her like a shroud

Like chains,

She's bound,

Just a ghost,

Just a forgotten girl,

Long ago buried

Individuals who are sadistic tend to

display recurrent aggression and cruel behavior. Sadism can also include the use of emotional cruelty, purposefully manipulating others through the use of fear, and a preoccupation with violence. As for the third personality disorder? Prior to doing research for this article, I had never even heard of "Machiavellianism." It is a part of a group consisting of three personality types that psychologists have dubbed "The Dark Tetrad." Very fitting. Machiavellianism is a personality trait which sees a person so focused on their own interests that they will manipulate, deceive, and exploit others to achieve their goals. Narcissism, on the other hand, is associated with Narcissistic Personality Disorder. With this disorder, an individual is callous and has exaggerated feelings of self-importance, an excessive need for admiration, and a lack of empathy. All three of these sound very nasty. Psychology Today confirms this in their article: "trolls truly enjoy making you feel bad... Both trolls and sadists feel sadistic glee at the distress of others. Sadists just want to have fun... and the Internet is their playground!" So what can we do? In this day and age. with so many of us reliant on our devices, we cannot realistically completely avoid the Dark Tetrad. However, the understanding that these individuals are sick and rarely receiving treatment makes them seem a little more pitiful. Also keep in mind that not every single person in the Dark Tetrad will troll someone. The best thing we can do about those who do is to ignore them. This can be extremely frustrating, don't get me wrong. I've fallen prey to them constantly! But they feed upon inflicting pain. If they are ignored, they will either up their game or go away. They are human. Eventually, their fixation will die or they will be drowned out.

PAGE 5

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## BREAKING THE SILENCE

If you're partaking in marijuana, it's safer to limit use to

A. Once a week or less

B. Once the sun reaches high noon 5

Alberta Health

C. Once a day

D. Once every 3 days

Because your brain is still developing. Especially if you are under 25. A. Once a week or less is safer

Take the full quiz at:

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what's Your

PAGE 10

### BREAKING THE SILENCE 10.18 The Psychology Behind Trolls

by Nicole Beaver

We see it in the media every day: there was another act of violence. There was yet another school shooting, another black man killed by police, another celebrity accused of committing heinous acts against women. On Facebook, Instagram, and Reddit--wherever there is a platform--people flock over. Let's go over the difference between In droves they comment, expressing their opinions, picking up their figurative microphones and declaring their thoughts to the world. Sometimes these opinions can be offensive depending on what your personal beliefs are, or whether or not you were a witness to a particular situation, being directly exposed to what actually happened. Online wars break out between individuals who have never met each other before. Furthermore, there are people out there who advocate for the senseless crimes they see. In the online world, these people are called "trolls."

Trolls are, of course, everyday people who seem to gain satisfaction from making people angry. They'll do anything to bring their adversaries down. Actually, I was recently targeted by a troll who made false accusations about me; I had made a comment in support of transgender women, and this troll accused me of assaulting her. It was ridiculous, but they got what they wanted: attention. So what is the psychology behind these annoying little scabs? Psychology Today actually has some insight into this that I found extremely interesting. The article I am referencing mentions a study done from Science Direct, humorously titled "Trolls Just Want to Have Fun." It states the following: "trolling correlated positively with sadism, psychopathy, narcissism and Machiavellianism...of all personality measures,

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PAGE 9

sadism showed the most robust associations with trolling and, importantly, the relationship was specific to trolling behavior." I am briefly going to explain the basics of sadism/psychopathy, narcissism, and Machiavellianism.

sadism and psychopathy. Psychopaths are rare, making up 1% of the human population. They are also frequently associated with Ted Bundy and Jeffrey Dahmer. Psychopaths are, in fact, rarely serial killers, though pop culture depicts them otherwise. Nowadays, "psychopathy" is an outdated term, more commonly called Antisocial Personality Disorder. Sadism, on the other hand, is formally known as Sadomasochism. It is "the tendency to derive pleasure, especially sexual gratification, from inflicting pain, suffering, or humilia-tion on others." As the scientific study demonstrated, sadism is more common than you may realize. Sadistic Personality Disorder is a very real thing, but it is important to realize that it is just that -- a personality disorder.



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## Backwards Garden

#### by J. Becks

| I Know Everything Thing<br>May Seem Backward | Stop those tears  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| Or Simply Out of place                       | And sing that song  |  |  |  |  |  |  |
| Let me take your hand                        | 'Round the garden   |  |  |  |  |  |  |
| And sing that Bluesy                         | Through the valley  |  |  |  |  |  |  |
| Song   | Take my hand  |  |  |  |  |  |  |
| Sing for me                                  | Honey sing that song t<br>me                                  |  |  |  |  |  |  |
| Come honey I take you<br>'round the garden   | Off we go round a round                                       |  |  |  |  |  |  |
| I know you may be scared                     |   |  |  |  |  |  |  |
| But trust me doll                            | Sing that song, that bluesy song                              |  |  |  |  |  |  |
| Your the fairest                             | Let out your sound  |  |  |  |  |  |  |
| And I won't let you fall                     | I long for it so  |  |  |  |  |  |  |
| Just sing that song                          | Take my hand and we<br>go far                                 |  |  |  |  |  |  |
| Take my hand and<br>forever we'll go.        | Sing your pretty voice  |  |  |  |  |  |  |
| Take my hand                                 | I know about your sca   |  |  |  |  |  |  |
| I know you may be scared                     | Just take my hand a<br>kisses little dear<br>Come with me now |  |  |  |  |  |  |
| Everything is twisted                        |   |  |  |  |  |  |  |
| But don't be scared as                       |   |  |  |  |  |  |  |
| we sing that bluesy song                     | Through the valley  |  |  |  |  |  |  |
| Take my hand and through the valley we'll    | Take my hand you'll<br>safe                                   |  |  |  |  |  |  |
| go   | Just sing for me love   |  |  |  |  |  |  |
| Sing for me my dear                          | Sing for me that blu  |  |  |  |  |  |  |
| I'll fight your foes                         | song  |  |  |  |  |  |  |
| You have nothing to fear                     | I'll take you to the gard                                     |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |

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# CUE POETRY

|            | I'll hold your hand tight<br>You won't get lost little<br>one | Just s        |  |  |  |
|------------|---|---------------|--|--|--|
|            | No need to fight anymore                                      | lr            |  |  |  |
| ,          | Sing for me that bluesy song                                  | Sing fo<br>fl |  |  |  |
| for        | Your sweet, sweet sound                                       | The s         |  |  |  |
|            | The one I'm so fond of  | Sin           |  |  |  |
| and        | Little butterfly kisses and<br>curled flowers                 | Let           |  |  |  |
| t          | In the garden through<br>the valley                           |               |  |  |  |
|            | I'll take you there   | Sir<br>ch     |  |  |  |
|            | Just take my hand   | Let y         |  |  |  |
| /e'll      | Just sing for me, it's only<br>fair                           | Sing          |  |  |  |
| ce         | Sing for me that bluesy song                                  | Make<br>Make  |  |  |  |
| ars<br>and | As we lay under the<br>Willow tree                            | Stop yo       |  |  |  |
|            | Sing for me dear  | S             |  |  |  |
| ,          | That bluesy song  | In my b       |  |  |  |
| ha         | Your soft voice   | Sing fo       |  |  |  |
| be         | Sing to me  | Sor           |  |  |  |
| e          | Look at me with your<br>crystal eyes                          | And tak       |  |  |  |
| esy        |   |               |  |  |  |

I want to see

No surprises little one en

 $\bigcirc$ 

sing that bluesy song

5

n my garden

- for me, help the flowers grow
- sprites will dance

Sing it slow

ng for me child

your voice ring

Little dear

ng for me your arming voice

vourself wander

that bluesy song

the flowers grow

the wind dance

our tears little dear

Sing the song

backwards garden

for me oh sweet honey

ng for me dear

ke my hand off we go



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## SCIENCE

## "It's What's Inside That Counts"

#### by Donavan Makus

When we think of ourselves as human beings. To visualize this it's helpful to think of we tend to view ourselves as one organism. We our digestive tract as the central hole in know that our bodies consist of many different a donut. Inside this "external" environment organ systems, tissues, and, at the lowest lev- live the constantly changing microbiota. els. chemical molecules with new properties at every level. At our core, though, all those Having covered what our gut biome is, we're parts combine to form one human body. Much left with a question: why do we have them? like we don't exist in life alone, a healthy body doesn't function alone--we form mutually beneficial partnerships with many microorganisms. While these microorganisms are dispersed throughout our body, the ones that form our gut microflora have wide-ranging effects on our bodies and lives and. as research evolves, we're learning more about how they affect the very core of bodily function. is complex, which tells us how our tiny part-

for us, it's important to set the stage to understand who they are and what they do. Like many organ systems, we are not born with a completely functional gut biome; instead, it Considering their location, the first and most develops over time. Contact with our environment, our mothers, and other people helps is related to the digestion and absorption build up our gut microbiomes from birth until we turn 3 years old. This is when our gut store food intact; despite talk of "cheesecake biome is mainly formed, consisting primarily sticking to our thighs," all food we eat is of bacteria and also containing other organ- broken down into the 3 main macromolecules; isms, like fungi. However, our gut biome isn't carbohydrates, fats, protein. We also absorb done changing; it will adapt throughout our lives as microorganisms die and are replaced. potassium. Our gut microbiota play a key role This process is rapid as the number of cells in extracting both micro- and macro-nutrients in this gut biome is quite large, outnumber- through the process of digestion. This area ing our own human cell count by a factor of of nutritional research has been an area of at least ten. Technically speaking, our gut great interest in recent years, with researchmicroflora are not part of our bodies at all ers studying the effects of different diets on as our digestive tract is not "inside" our mice to see if a poor gut microbiome could body. Our digestive tract is open to the ex- explain weight gain and obesity. For years, ternal environment, and any food we digest is the familiar mantra of weight management has absorbed into our bodies through membranes. been "calories in, calories out," but research-

We generously provide them with a home and nutrients in the form of the food we eat. and providing them with these benefits comes at a cost to us. Humans can function without a gut biome, leaving us with the question of why we don't try our best to eliminate them if they are acting as parasites. The exact ways that these microorganisms contribute to our functioning ners can have an outsized influence on our Before looking into what our gut biome does lives. In exploring how we form a mutually beneficial relationship with these gut organisms, our first stop will be the gut itself.

> obvious service these microbiotics provide of nutrients from our food. Our body doesn't a range of micronutrients such as sodium and

ers have struggled to explain "calories out" hold in our digestive tract; however, takfluctuations of up to several hundred caloing up space isn't their only role. Through ries between individuals. Energy. representtheir metabolic role. these microbes syntheed in calories, isn't miraculously appearing size compounds that help train and power our or disappearing. This creates a vexing probimmune system. Our gut biome also helps us lem for science. We know that excess weight to develop the thick lining of our digesrepresents the storage of excessive energy. tive tract, helping protect us from potential leading to the question of how body masses of pathogens. Finally, gut bacteria play a role animals--who were fed identical diets--could in converting immune cells in order to actidiffer. Due to their role in digestion, our vate them and keep our bodies functioning in qut biome lets us extract additional calopeak condition. Through these dual roles cenries from our food. and had been identified tered around our digestive tract. our gut bias a potential factor in this discrepancy. ome helps both power us and keep us healthy. Studies of rodents, who had their gut bacteria purposely eliminated, found they had to Though the main role taken by gut microconsume 30% more calories than regular robiota is related to metabolism and fighting dents merely to maintain their weight. Thanks infection, this isn't the only role our tiny to advances in microbiology, researchers are partners play. When we think of bacteria, now investigating the role microbiota play in our first choice for bodily systems dealweight management. The research is still in ing with them likely isn't the nervous system its infancy and certainly not free from conwith it's blood-brain barrier--researchers troversy related to contradictory research have actually discovered links between gut results. Some researchers, using mice, have bacteria and mental health. In 2004, sciendiscovered that a typical modern Western diet tists found that mice lacking gut biomes were (high in saturated fats and sugar and low in more sensitive to stress, opening up new avfiber) leads to shifts in gut microflora that enues of research. Gut bacteria are known seemed to lead to weight gain and obesity. to synthesize neurotransmitter molecules. Other researchers found that transplanting an which affect the nervous system and could obese mouse's gut microflora into a lean mouse help explain these findings. However, atcaused the lean mouse to gain weight, without tempts to study mental health and the brain's any increase in caloric intake. While even functioning relating to gut flora in humans the most eager researchers are not suggesting have been contradictory or inconclusive changes in gut microbiota alone lead to the and will require future research, presentrise of obesity, they are correlated with a ing an exciting opportunity for some of the poor diet, which could be a factor in the obemany Psychology students here at Concordia. sity epidemic. This provides insight into the complex role of our gut flora in nutrition. The evolving status of research on gut flora

serves as an important lesson not to forgot that Despite their status as foreign elements suslittle things can have a big impact. Far from pended inside our digestive tract. gut mijust affecting our digestion, these tiny microflora play a key role in helping us fight crobes play a key role in many systems, ranging other, pathogenic (disease-causing) microbes. from immune protection to mental health, and we Their mere presence is beneficial as they should let their outsized influence remind us prevent harmful bacteria from gaining a footthat small things can indeed play large roles.

PAGE 7

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