


Role of glutamate in the brain

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Role of glutamate in the brain

What causes excess glutamate in the brain. How does glutamate work in the brain. How to balance glutamate in the brain. What happens when too much glutamate is present in the brain.

The blood-brain barrier is the network of blood vessels that supply the central nervous system. While performing the same functions as other blood vessels â that is, the supply of oxygen and nutrients â the vessels in the blood deer barrier also regulate the movement between the blood and the brain. This regulation controls the balance of the central nervous system (CNS) and protects the brain. The blood-brain barrier has unique properties that allow to regulate the movement of cells, ions and molecules between the blood and the brain. These microvessels are highly restrictive, maintaining the balance to support proper brain function and protect the CNS from inflammation, injury, toxins, pathogens and diseases. The blood-brain barrier is complex and made up of many types of cells. Endothelial cells in the blood-brain barrier act as a highly selective nutrient transporter, transporting nutrients and waste products from the CNS into the bloodstream. Endothelial cells exist throughout the body, but the CNS cells are unique. They have more mitochondria to produce more energy and a low level of leukocyte adhesion, limiting the number of immune cells that pass through the CNS. The pericytes cover the walls of the arteries and veins system. These cells contain proteins that cause them to contract, controlling the diameter of the small vessels. Pericytes regulate the formation of new blood vessels and the infiltration of immune cells and play a role in wound healing. These cells support the formation of the blood-brain barrier and maintain it as the body ages. Many other cells make up the blood-brain barrier. These include the basement membrane which, among other things, provides an additional barrier for cells to cross before reaching the brain; astrocytes, which connect blood vessels and neurons and regulate blood flow in response to activity in the brain; and immune cells, which remove debris and impact vascular permeability. One mechanism that the blood-brain barrier uses is passive transport. Vector cells are the main way many things cross the blood-brain barrier; the following can hit a spin on these cells to overcome: carbohydrates, amino acids, nucleotides, fatty acids, vitamins, sodium, glucose, thyroid hormones, insulin and leptin. Other small molecules can spread across the membrane without a vector, including oxygen, carbon dioxide, caffeine, ethanol and barbiturates. Some elements cross the blood-brain barrier using active transport. These transporters prevent unwanted substances from accumulating in the CNS by transporting them through the brain barrier into the plasma. Active transport also maintains the concentration of ions in the brain by maintaining high concentrations of (Na) and low potassium concentrations (K). This mechanism also plays a critical role in various reactions that regulate cerebral blood flow and pH in the CNS. The blood-brain barrier affects the way drugs reach the CNS and brain spinal fluid. Some lipid-soluble lipid-soluble They easily cross the blood barrier, while hydro-soluble drugs slowly cross, the choice of snc treatment medications is complicated as many factors determine how effectively they can enter the brain. Some drugs can reliably cross the blood barrier, but in some extreme cases it is necessary to direct injection of drugs in the snc. Researchers are looking for ways to circumvent the hematoencephalic barrier, an approach consists in in injecting hypertonic sugar solutions and breaking the blood-brain barrier using ultrasound and microbotal, allowing drugs to cross a temporary window. This method is experimental, and some researchers are concerned that it can cause inflammation and injury due to blood restriction. Another approach in the tests is oando the so-called trouser horse molecules to enclose the nanoparticles of treatment in a coating that allows them to cross the hematoencephalic barrier. Breaking the blood barrier has a role in some chronic neurological diseases, including sla, parkinson disease, multiple sclerosis and epilepsy. researchers generally believe that these disturbances are secondary to the primary process of the disease, but in some cases may be a cause. the cause of breaking the blood-brain barrier itself is unknown. studies show that such disturbances are multimodal "destruy joints and cause changes in metabolic processes and transports", although we do not yet know how these things interact. The integrity of the blood-brain barrier is also influenced by acute neurological disorders and injuries. ischemic strokes cause the outflow of fluid into the brain, and white blood cells infiltrate the area, disturbing homeostasis and causing edema. Some studies show that a stroke combined with other conditions, such as high blood sugar or hypertension, may worsen the degradation of the blood-brain barrier. With traumatic brain injury, vascularization of the blood-brain barrier is damaged. After injury, inflammation further destroys the blood-brain barrier, allowing things that should be blocked to move freely into the brain. photo courtesy: tim Mosholder/Unsplash can you remember the moment you realized that your important partner was the right one? Is that something you said? Is that for something you did? While the moment you met and all the moments you followed might add up to some great stories, we walk along the avenue of memories for a completely different reason, during most relationships, a partner inevitably realizes that their love interest is not as smart as they, and those moments are usuallyIn the stories that follow, the people of Reddit gave us some funny stories about those golden moments when they knew for sure that they were the smartest person in their relationship. Many small things in the world around us seem common, but for someone who has never had a certain experience, something common can be very particular. For example, some people have never noticed that the moon is sometimes visible during the When they see this phenomenon for the first time, it could be a very confused moment. Photo Courtesy: Jonas Ferlin / Pexels A Redditor (Johntheherer90) was driving along the road with the girl of him when the moon was visible right in front of them. She puzzled, she asked him why the moon had sprung up at the same time in the sun, adding that they are the same thing, so we should not be able to see them together. She had about thirty years. A Reddit Member found that the boy she went out did not know the order of the months of her. At the end of September, he said he was enthusiastic about October because he was his favorite month of him. The answer of him? Â «Right. And this is ... soon? Â »Then he did some other relevant questions about when the months were in the year. In the end he said, "Whatever! Who needs to know in the real world? " / Pexels also thought that drinking orange juice and brushing his teeth were essentially the same thing and that he didn't need to wash themselves with soap because it â â € ™ water naturally kills germs and stuff. 'Absolutely yes yes... That's why bacteria grow continuously. How did this guy overcome elementary school? This was the mystery of the day. Looking at Django Unchained with his girlfriend, the winter assembly of training has created a disconcerting moment for the Vdokie user. There is a time when the camera looks a pack of reindeer. At that moment, the (ex) girlfriend said something about her as she seemed strange to include reindeer in the movie, because somehow she has interrupted the dive. Photo Courtesy: Martin Aargent / Pexels confused by the statement, he asked him what she intended to say. She continued to explain, as if he was ignorant, that reindeer is not real animals and that they are only imaginary characters of a fairy tale. You know, like Rudolph and other Santa's reindeer. He then threw him out a word like Â «Immersionâ», but he didn't know that the reindeer existed. It is comprehensible. Here is a good example of the old saying that a person can be smart book without being Smart Street Smart. Without ruining the final joke of this story, we just say that you will be very surprised to learn the profession of this figure bizarre at the end. Photo Courtesy: Jos, Joanna, Mikela, Flynn / Flickr This boy knew he was more intelligent than his girlfriend Â «When he thought I was crazy to put pop-tarts in a toaster. Or maybe it was the time he tried to make Helper Hamburger for the first time and called from the store to ask me where he could find the burger Â «Brown.â € ™ The best part of this guy's story? He is teaching someone's sons in a public school! For this Women's Redditor, the first time you realized that she was facing a challenge was when the boy she went out at high school told her parents to be a «Meatatarianoâ because of everything. Apparently, he thought that "carnous vegetarian" had no right tone. Photo Courtesy: welcome/Flickr The same guy triedHe said the bumps on the side of the highway were supposed to help blind drivers know when they ran off the road. This was clearly a case of choosing the hot guy in high school simply because he was hot. User Reddit Dopkick had dated a girl for a few months around Christmas. They're not extremely serious, but she was serious enough that she was buying her Christmas presents. She actually found something for her that she thought was perfect, and it had a connection to a fun event involving her and her cat - so she wrote the paper as from the cat. Photo courtesy: Vadim B/Pexels thought it was cute and she would make the connection, but it wasn't funny - not even a bit. Instead, she got angry that the cat gave her a gift, but she didn't. He obviously thought he was joking, so he laughed. She only got worse when her parents supported her. If he had just bought it as a gift... When a girl got the guy who was hanging out with some crazy books and sat down to make one with him, she asked him what a name was. He told her it was a person, a place or something. There was a long silence while he thought about it. In fact, the silence went on for so long he thought he should think of the best name in the world. Photo courtesy: kaboompics/pexels was waiting in advance when he finally opened his mouth and said "Place." Now, this is how you burst the bubble of illusion and destroyed some pink glasses. What is the secret to keeping plastic plants alive? They need plenty of water, sun and love, of course! Seriously, this hilarious couple of Reddit must have had a lot of love for each other to overcome a dizzying habit that didn't reflect well on their intelligence. Photo courtesy: Ray Stone/Pexels When SobeeFy was asked how she knew for sure she was smarter than her partner, she replied, "I saw her water her plastic plant for the third time. The first two times I was kind of stunned and curious. The second time he actually said, it's - the water is fine. "" Apparently, it took a minute for his bulb to turn on as well. If you think everyone knows about the two world wars, you'd be wrong. Reddit User SalSashark037 said: "One of my roommates was pointing at this girl...very cute, super sweet. We were all in the living room watching another roommate play call of duty: World at the War. She was still new at the time. In the end he asked if the game was based on a true story. We replied that specific characters did not exist, but the overall game was based on World War II. His answer: what is the Second World War? " Photo courtesy: Jonathan Andrew / PEXEL The whole group lost. You didn't know about World War II? Really? To a certain He even said, "It's not like everyone knows!" Yes, dear, the whole world knows. He wasn't even the first. Redditor Tork260 had some misadventure with his girlfriend on a hike that sent them down a hilarious trail. They were following a path he had read read When the cat came to a fork, he said they had to go north." Photo courtesy: Elysantia was crushed and almost broke up with him on the spot. Instead, he tried to "reach" him before That was a cause lost some time later. User tri sara. Toys shared the time of revelation of opening of her eyes on her boyfriend not so brilliant on Reddit. What did you make of her to convince her that she would have always been the mind of the duo? Photo of Courtesy: Francisco Francisco He insisted that women cannot be doctors, but only nurses (and vice versa). Now, before you start thinking he's a sexist pig, his reasoning is very different from what you think. He explained that the two are exactly the same, except that one is male and the other is female. He was just over 20 years old and clearly he never needed medical care. Boscoethadog turned to Reddit to complain that he couldn't make his girlfriend understand that Celsius and Fahrenheit are the same. First, Bosco, note that they are not exactly the same thing, even if they measure the same thing. Photo Courtesy: Yuriy Bogdanov/Unsplash The fiancée knows they both measure the temperature. The problem with his faith is that he thinks Celsius will mix cold and Fahrenheit will mix the heat, and he's wrong. Do you know that some scary stories are so amazing that Hollywood executives decide to turn them into movies to capture a completely new audience? Well, DrCool2016 once had a girl who loved a little too much scary stories and had difficulty keeping some of her straight stories. Photo Courtesy: Matt Briney/Unsplash She really believed that she was the headless knight riding between Lexington and Concord crying: "The English are coming! The English are coming!" In addition to mixing the genres of stories, he clearly had difficulty understanding the line between faction and faction. According to Captainsavebro on Reddit, green beans and bunnies can be incredibly confusing for some. "We were out at dinner, and he was reading the menu, and he said, "What is a bean?" I said, "Do you not know what a bean is?" He replied, "No, as if I knew what a bean is, but what is it?" What? Photo Courtesy: William Daigneault/Pexels The same boy, apparently, had never seen a rabbit hop. When a domestic rabbit jumps next to him in the living room, he yelled: "Oh, my God! What's wrong with him? Why does that jump? Have you hurt your legs?" Apparently, he thought they were walking like cats. When Segol's boyfriend, Reddit's user, took her to a luxury restaurant, ordered wine. When the waiter came back, he gave his fiancé the cap to smell. You probably can already imagine that it didn't go exactly as the waiter expected. Photo Courtesy: Rene Rainisch/Unsplash The boyfriend grabbed the cap, sucked it and licked it like a lollipop, obviously excited for the vintage of premium wine. The waiter seemed uncomfortable for several beats before pouring the wine and sneaking away. Elegant! A British user of Reddit got tired of her boyfriend's driving criticism, combined with her obvious lack of experience. He thought that he should "report in red" to change the car's march and had no idea how the rotators worked. He also thought I should drive inand he didn't know you had to give in. photo courtesy: Neonbrand/Unsplash despite everything, criticized his guide without even testingFYI: In England, most cars are manual, at least for a first car, and the roundabouts are everywhere. Redditor Aldmerinion was watching a movie with his boyfriend when he asked him: "Where was this film shot?" He replied Â «Massachusettsâ», and then in the film, a police car has passed with Â « Boston police department »on the side. Photo Courtesy: Rafael Leao / Unsplash The boyfriend turned and looked at her with an expression similar to that of Gotcha and said, Â «Ha! Massachusetts? It's in Bostonnnn! "Fortunately, for this genius, she still loves him today. It is not necessarily a bad thing to be the intelligent family of the family. The User of Reddit Hissyhissy has a former who was the largest of six children. They were 20 years old and they were together for about a week when you commented: Â «You have wide hips to be a man." He answered immediately: "It's for bringing children." Photo Courtesy: David Straight / Unsplash It was a disconcerting response until the smaller brother entered, which took him and held him to the side, leaning on his side, as he does with small children. He had to do it sit and explain to him that the wide hips are not obtained by literally bringing around the children. There is a little more. Invisible monster Redditor had a first taste of what you try to be more intelligent, when he asked his boyfriend if he wanted an apple. He said yes, so she pulled out one from the fridge and gave it. He seemed confused before asking her to cut him. Photo Courtesy: Shelley Pauls / Unsplash before criticizing it for his laziness, the reason is actually quite embarrassing. She had never eaten a whole apple before now, and she didn't know how to do it. She was 27 years old. Think about how different the world would be different if he was man in the Eden garden! The world is full of misunderstanding on organ donation. Some think that the doctors will not try to revive if you are a donor of organs, which is completely false. In reality, the organs are considered for donation only after a person died or is already cerebrally died and linked to vital support. Even then, the family takes the final decision on the organs. Photo Courtesy: PeterzieGler / Pixabay of all the absurd theories that are around, this takes the cake: "He was making his license renew, and asked him if he wanted to become an organ donor. He said no. When I asked him why, he told me that it was because he didn't want the government to knock for him or he still needed him. He really thought that becoming a donor of organs meant that, at any time, the organs of him could be taken. "Internet is full of examples of people who stupidly make comments showing their lack of mathematical skills. Immediately calculate the time intervals is just the tip of the Iceberg. Perhaps We usually think of time in terms of decades and centuries, but we tend to forget that the millennia exist. Photo Courtesy: Tom Parkes / Unsplash This incorrect reasoning line is responsible for giving us this jewel of a comment on Reddit: Â «He said The occasions that wanted it to be born in 2030 so that we can live to see the year 3000. There are 970 years of people. "This story is rather funny, but it's even a bit tragic. It's sad when a relationship It comes to a sudden end, all because a person is unreasonable. This is the story of how a redditor was left out to the cold from his girlfriend, who must not have been thinking very clearly that day. Photo Courtesy: Jay Heike / unsplash "I was going to take it when my truck broke. I call her to let her know that I can't do it. She continues to get angry with me and screams, 'But you have two trucks! Why isn't it just take the second truck? Â € ™ Perhaps because I'm already 20 miles from home, where my other van is parked. But it wasn't a good excuse for her. To punish me, she attacked me while I was talking. I never worried about recalling it. "According to Redditor, Sacrosanct, came out with a girl who claimed to have a doctorate in "Emotionology ". He asked what the thesis of his masters wrote and on what his dissertation was. He looked at him as if he started eating ticks, but he continued to insist that it was a legitimate field and get angry if his friends didn't call it "Doctor" when he introduced him. Photo of courtesy: Abby Thompson / UNSplash held a book of "words e Unacceptable colors "that could not be used in his presence because oozed negativity and raised badly. Even worse, his gaggle of friends believed her. It was as stupid he could be contracted and widespread. On the other hand, completely logical concepts seemed absolutely Aliens to you, as it could not grasp them at all. The surprise parties are so exciting as they are exciting. The thought of being able to surprise someone you love is exciting, but it's really difficult to pull it was Ori without the quest of honor he finds out. No one wants to be the person who pours beans. Photo of courtesy: Samantha Gades / Unsplash An Redditor shared his experience as a woman's boyfriend who ruined the surprise in a very hilarious way: "He called to the RSVP at a surprise party, and called the person for whom the party It was. When I asked her what he was thinking, he said that the invitation was not clear. I looked at the invitation, and he said in great letters' Shhhh! It's a surprise party! Sometimes, the road to realize the Your companion is not too bright is paved with many clues. For a profitable user, his girlfriend wanted to ask questions and then discuss his reply. He asked about the distance between two millet interstate markers, and when he told her Subtract the two numbers on markers to find the answer, sustained and angry when the answer told you. Photo of courtesy: Alief Vinicius / Unsplash constantly refused to recognize very simple truths, and in the end stopped to discuss things with she. Example: if you read an article And he tried to talk about it, she would discuss the really basic parts and ignore the most complex complex of the real article. He didn't have the ability to accept a person's experience. Even the major of her college is written incorrectly on her facebook page of her â not that you could tell her this. Some people choose to become vegetarians for ethical reasons or for health reasons, but some become vegetarians by choice. A woman has decided to make her dog a vegetarian because she heard that she would be cannibalism for an animal eating meat. (It must be enough curious by all the natural shows of the National Geographic.) Photo Courtesy: Brooke Cagle / Unsplash Ajlmd had this to say, "He told me that he does not allow his dog to eat meat because he would be cannibalism. He said that in the Cartoon movie, animals all understand and act as a family, so an animal that eats another would be against the laws of nature. Okay for us human eating meat because â € œNoi we are not animals; we are human beings ! â € ™ I really had to ask you to never repeat his logic to anyone else ".

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