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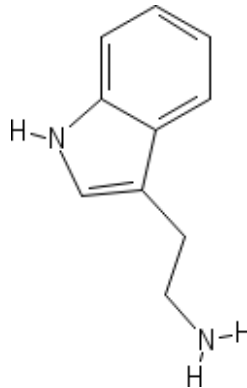
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Tryptamine

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Tryptamine is an [endogenous amine](#) derived from the [amino acid tryptophan](#) via tryptophan decarboxylase. It acts as a serotonin releasing agent and a serotonergic activity enhancer. It is primarily metabolized by [MAO-A](#) and [MAO-B](#), and is also metabolized by [SSAO](#).



Chemical Properties

PubChem Compound ID: [1150](#)**Molecular Weight:** 160.21568 [g/mol]**Molecular Formula:** C₁₀H₁₂N₂**XLogP3:** 1.6**H-Bond Donor:** 2**H-Bond Acceptor:** 1**IUPAC Name:** 2-(1H-indol-3-yl)ethanamine**InChI:** InChI=1S/C₁₀H₁₂N₂

/c11-6-5-8-7-12-10-4-2-1-3-9(8)10/h1-4,7,12H,5-6,11H2

InChIKey: APJYDQYYACXCRM-UHFFFAOYSA-N**Canonical SMILES:** C1=CC=C2C(=C1)C(=CN2)CCN

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Podcast 270 – “Tryptamine Consciousness”

Guest speaker: [Terence McKenna](#)

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[Terence McKenna](#)

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PROGRAM NOTES:

This is Tape Number 003 of the Paul Herbert Collection.



This talk was given in December 1982

[NOTE: All quotations are by [Terence McKenna](#).]

“The search for a radio signal from an extraterrestrial source is probably as culture-bound an assumption as to search the galaxy for a good Italian restaurant.”

“It is no great accomplishment to hear a voice in the head. The accomplishment is to make sure it is telling you the truth.”

“The demons are of many kinds. Some are made of ions, some of mind. The ones of ketamine, you’ll find, stutter often and are blind.”

“There is no dignity in the universe unless you meet these things [psychedelics] on your feet. And that means that you have an I/thou relationship, and you say ... ‘you’re long on talk, but what can you show me?’”

“These things [psychedelic medicines] invoke the Logos, which means they work directly on the language centers. So that the important aspect of the experience is the dialogue.”

“I think if someone tells you they’ve every drug you know they’re confessing they’re a dilettante. It’s much better to lean hard on a few.”

“I think one of the interesting things about judging a drug is to see how eager people are to do it the second time. If they’re eager to do it the second time it’s probably not worth bothering about, because what is necessary to have validity in these experiences is the terror. The terror is a stamp of validity on the experience, because it means this is real.”

“Friends, right here and now, one quanta away, there is raging a universe of active intelligence that is trans human, hyper dimensional, and extremely alien.”

“The most alien thing in the cosmos is the human soul.”

“As nervous systems evolve to higher and higher levels, they become more and more to understand the true situation in which they are embedded.”

“As nervous systems evolve to higher and higher levels they become more and more to understand the true situation in which they are embedded. And the true situation in which we are embedded is an organism, an organization of active intelligence that is on a galactic scale.”

“In other words, shamanic experience, drug experience, this is ruled out of bounds. And it is because it is the source of novelty. The cutting edge of the ingression of the novel into the plenum of being is happening there. I mean, think about it for a moment. If the human mind does not loom large in the coming history of the human race, then what is to become of us?”

“So I am saying we are at the beginning of human thought. This is the birth crisis of intelligence. And intelligence is something which is moving through the higher primates now at greater and greater speed.”

“The fact is that the densest organizational material in the universe is the human cortex. And the richest experience in the universe is the experience you’re having right now.”

“The testimony that I want to give today is that magic is alive in hyperspace, and you don’t have to believe me or follow me or do anything to validate that except form a relationship with these plant drugs.”

“There is some surety that you are dealing with a creature of integrity if you deal with a plant, but the creatures born in the demonic artifice of laboratories have to be dealt with very, very carefully.”

“DMT is like an intellectual black hole in that once you know about it, it’s very hard for anyone to understand you when you’re talking about it.”

“The future is bound to be psychedelic because the future belongs to the mind.”

“The tragedy of our cultural situation is that we have no shamanic tradition. Shamanism is primarily technique, not ritual.”

“The only intellectual, or noetic, or spiritual path worth following seems to me to be the one that builds on your own experience.”

[TRANSCRIPT OF THIS TALK FROM EROWID.ORG](http://www.erowid.org)

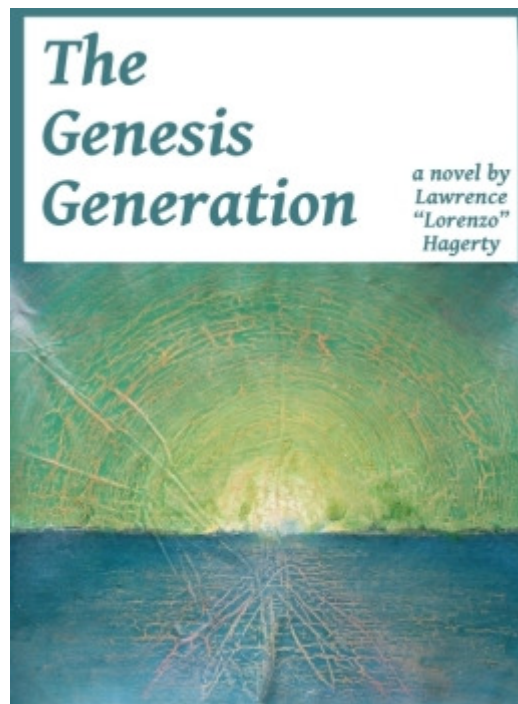
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June 10, 2011 · Filed under [Ayahuasca](#), [Consciousness](#), [DMT](#), [Extraterrestrial](#), [Genesis Generation](#), [Paul Herbert Collection](#), [Psychedelics](#), [Terence McKenna](#)

12 Comments [»](#)

1. **Jugdish Jugemu Said,**

June 11, 2011 @ [5:33 pm](#)

Congratulations on the 6th anniversary, Lorenzo! Can't wait to give this one a listen!

2. **[Tudor Alexe](#) Said,**

June 13, 2011 @ [7:45 am](#)

Thanks for another TMK talk!
Best surprise I've had today.

3. **Neutral Paradox Said,**

June 13, 2011 @ [10:03 am](#)

Congrats!

I found where this is from if your interested. In the book the Archaic Revival chapter 3 under the same title you had. But here it says it was recorded at a Lilly/Goswami conference on consciousness and quantum physics at Esalen, December 1983.

4. **anomie Said,**

June 13, 2011 @ [8:37 pm](#)

I am so very glad that I found you way back close to 6 years ago! Let me know if you could be in western NY in July...

5. **Leeroy Said,**

June 17, 2011 @ [5:55 am](#)

Notable ideas:

- approx. 27m36s – “I was informed that once a culture has complete understanding of its genetic information, it re-engineers itself for survival.”

This idea has come to the forefront in our time (30 years later!) when we are so concerned about our fragility in the face of nuclear radiation on Earth and cosmic radiation in outer space.

Consider this: shielding spacecraft against radiation is quite unfeasible for long manned journeys. The amount of shielding material required is simply too large to ever be launched into space. Currently, whenever there's extreme solar weather, ISS astronauts are either sitting there receiving strong doses, or they have to descend back to Earth. On very long space journeys you don't have the option of a protective atmosphere & magnetosphere to retreat to.

This implies that for prolonged exodus across Space our species may have to re-engineer itself into a more resilient vessel.

Our body's requirements of temperature range, air, water, food, and not receiving deadly radiation are too much to work around faced with titanic undertakings such as colonizing Space... and even the current climate change on Earth. We're very adaptable creatures they always say, but actually we're adaptable within a Garden-of-Eden-sweet-spot.

A trade-off has to occur between re-engineering ourselves and terraforming new Worlds.

This is especially worrying in the light of recent findings that point out just how advanced humans really are: <http://www.youtube.com/watch?v=aw9Jo5qNCsQ> (Stuart Hameroff's Google Tech Talk – A Marriage of Brain and Computer)

It would be naive to suggest that we will soon be able to copy entire humans into other more resilient vessels, that would become conscious.

That's just my very rough sci-fi interpretation.

6. **Leeroy Said,**

June 17, 2011 @ [6:17 am](#)

Notable ideas:

- approx 40m59s – (...) “Consciousness is somehow able to collapse the state vector and thereby cause the stuff of being to undergo what Alfred North Whitehead called the formality of actually occurring. Here is the beginning of an understanding of the centrality of human beings.”

For further thoughts on this extremely interesting topic I recommend <http://www.youtube.com/watch?v=aw9Jo5qNCsQ> Stuart Hameroff’s Google Tech Talk – A Marriage of Brain and Computer or <http://www.youtube.com/watch?v=LXFFbxoHp3s> Clarifying the Tubulin bit/qubit – Defending the Penrose-Hameroff Orch OR Model.

Drawing attention to this theory has important philosophical implications, as McKenna points out – “the centrality of human beings”. Lately society has moved away from that feeling – into a more mechanical idea of human beings as components in a larger system. This shift of focus has had unfortunate side effects, disempowering the individual. Watch <http://thepiratebay.org/torrent/6439394/> Adam Curtis’ All Watched Over by Machines of Loving Grace – The Use and Abuse of Vegetational Concepts. It’s a great documentary, and I found it truly ravishing.

7. [EROCx1](#) Said,

June 17, 2011 @ [10:00 am](#)

Hi Lorenzo, I can’t thank you enough for hosting 6 years of the Psychedelic Salon! Boy is time accelerating. I remember all of the excitement over episode #1 and still receive a euphoric smile every time a new episode magically appears in iTunes, even @ #270. Spreading clarity & awareness is one of the greatest services one can perform for the benefit of humanity and you do this with such an altruistic heart, it brings me great joy to know you as a friend. Wishing you the very best in all you do!

Peace & Love,
EROCx1

8. **lil b** Said,

June 17, 2011 @ [10:01 am](#)

WOW! This is an amazing talk... such a vibe on this one! Congrats on the 6th anniversary and the release of the great book-

9. [Theories on Intellectual Evolution - Marijuana.com](#) Said,

June 27, 2011 @ [1:58 pm](#)

[...] of the audio. It is a Terrence McKenna talk entitled Tryptamine Hallucinogens and consciousness. Audio only Podcast Transcript of the [...]

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10. [Keith Cycloid](#) Said,

August 23, 2011 @ [11:25 pm](#)

Thank you Lorenzo (and Diana!) — always awesome to come upon a new McKenna talk, see how he developed the ideas moving forward but also how put together everything was right from the start.

Just purchased your book, looking forward to reading it soon.

Thanks again for the Salon, it has truly become a great library/resource!

Keith

11. **Todd Said,**

September 28, 2011 @ [1:23 pm](#)

I find it interesting that Terence and apparently a few very vocal girls in his workshop thought they were “special” because they could trip on acid. I didn’t realize psilocybin has no affect on most people. ... I also find it telling how Terence will bring up occasionally that he tried to reach these same experiences in India, having ‘kneeled at the feet of gurus’, and asked them ‘to show him what they got, and was surprised when he didn’t get instant results’ 🤔 Coming from the generation of pill poppers, this arrogance doesn’t surprise me. I don’t discredit the powerful use psilocybin can have on presenting great revelations, but it seems a bit disingenuous of Terence to imply that he is special to be able to trip on acid and at the same time discredit people who can have just as profound experiences without the use of a pill crutch. I have had metaphysical experiences throughout my adult life. I personally am very grateful for the miracles I’ve personally experienced. When one consciously leaves the physical body, he looks at the physical world in a very different way. Some experiences I hesitate to state because I can see how unbelievable they would be to people who have not had the same. Keep in mind, I was not taking any drugs at the time. I committed myself many years ago to Self realization. It is part of my daily routine and is my most important mission while here. I have had many metaphysical experiences, but these are merely “sideshows” and only part of my spiritual path to communing with the Source. It seems there are many visitors of this website that are genuinely interested in the ultimate question. I would highly recommend the 2-volume set of Paramahansa Yogananda’s “The Bhagavad Gita: Royal Science of God-Realization”. From these two books, you will find all the answers to your questions and many, many more. It is all spelled out in incredibly lucid and amazingly logical explanation. This set is full of paradigm shifts that will change so much of what you’ve been indoctrinated into believing all your life as “facts”. You will be awed and amazed and will have metaphysical experience beyond the use of an external device. To me, this is true faith. With that, mountains can be moved.

12. **gonçalo Said,**

July 14, 2012 @ [4:10 am](#)

i love you lorenzo thank you for your commitment! blessings from Portugal

[COMMENT by Lorenzo: 😊 . . . and for what it's worth, some of the action in the new novel that I'm working on takes place in Portugal, which is where I still remember having the best meal of my life!]

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Tryptamine and *Stropharia rugosoannulata*

Two Wikipedia Articles

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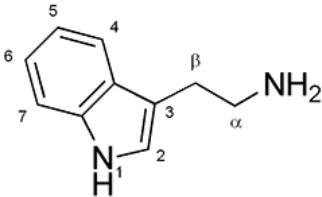
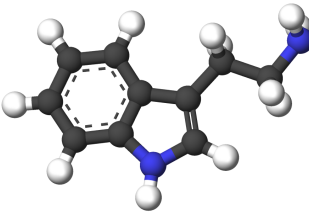
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Tryptamine

Tryptamine	
	
	
Identifiers	
CAS number	61-54-1 ^[1] ✓
PubChem	1150 ^[2]
ChEMBL	CHEMBL6640 ^[3] ✗
IUPHAR ligand	125 ^[4]
Jmol-3D images	Image 1 ^[5]
Properties	
Molecular formula	C ₁₀ H ₁₂ N ₂
Molar mass	160.22 g mol ⁻¹
✗ (verify) ^[6] (what is: ✓ / ✗ ?)	
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Infobox references	

Tryptamine is a monoamine alkaloid found in plants, fungi, and animals. It contains an indole ring structure, and is structurally similar to the amino acid tryptophan, from which it derives its name. Tryptamine is found in trace amounts in the brains of mammals and is believed to play a role as a neuromodulator or neurotransmitter.^[7]

The tryptamine chemical structure is the backbone for a group of compounds termed collectively *tryptamines*. This group includes many biologically active compounds, including neurotransmitters and psychedelic drugs.

The concentration of tryptamine in rat brains is about 3.5 pmol/g.^[8]

Plants containing tryptamine

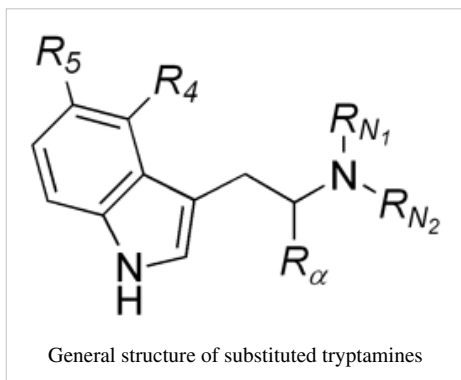
Many plants contain small amounts of tryptamine, for example, as a possible intermediate in one biosynthetic pathway to the plant hormone indole-3-acetic acid.^[1] Higher concentrations can be found in many *Acacia* species.

Role in vertebrates

Tryptamine acts as a serotonin releasing agent^[9] and a serotonergic activity enhancer.^[10] It is metabolised by MAO-A and MAO-B.^[11]

Tryptamine derivatives

Well-known tryptamines include serotonin, an important neurotransmitter, and melatonin, a hormone involved in regulating the sleep-wake cycle. Tryptamine alkaloids found in fungi, plants and animals are sometimes used by humans for their psychotropic effects. Prominent examples include psilocybin (from "magic mushrooms") and DMT (from numerous plant sources, e.g. chacruna, often used in ayahuasca brews). Many synthetic tryptamines have also been made, including the migraine drug sumatriptan and its relatives. The tables below list some tryptamines.



The tryptamine structure, in particular its indole ring, may be part of the structure of some more complex compounds, for example: LSD, ibogaine and yohimbine. A thorough investigation of dozens of tryptamine compounds was published by Ann and Alexander Shulgin under the title TiHKAL.

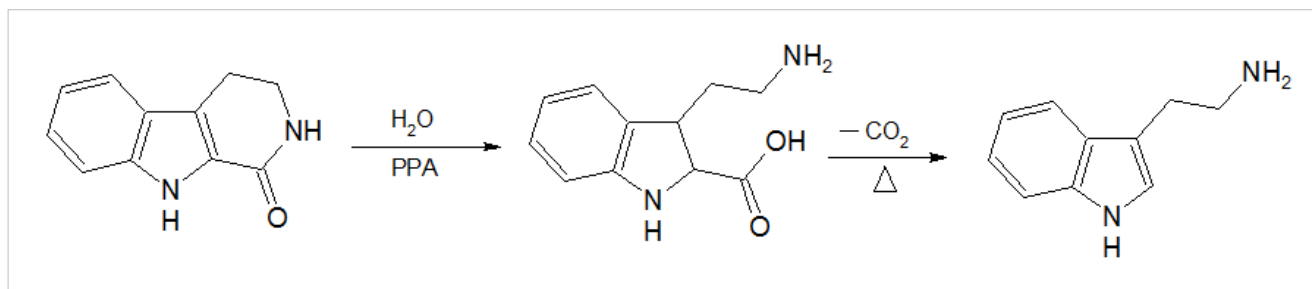
Short Name	Origin	R ^α	R ⁴	R ⁵	R ^{N1}	R ^{N2}	Full Name
Tryptamine	Natural	H	H	H	H	H	3-(2-aminoethyl)indole / 2-(1H-indol-3-yl)ethanamine
Bufotenin	Natural	H	H	OH	CH ₃	CH ₃	5-hydroxy- <i>N,N</i> -dimethyltryptamine
<i>N</i> _ω -methylserotonin (norbufotenin)	Natural	H	H	OH	CH ₃	H	5-hydroxy- <i>N</i> -methyltryptamine
Serotonin	Natural	H	H	OH	H	H	5-hydroxytryptamine
DMT	Natural	H	H	H	CH ₃	CH ₃	<i>N,N</i> -dimethyltryptamine
Melatonin	Natural	H	H	OCH ₃	O=C-CH ₃	H	5-methoxy- <i>N</i> -acetyltryptamine
5-Bromo-DMT	Natural	H	H	Br	CH ₃	CH ₃	5-bromo- <i>N,N</i> -dimethyltryptamine
5-MeO-DMT	Natural	H	H	OCH ₃	CH ₃	CH ₃	5-methoxy- <i>N,N</i> -dimethyltryptamine
5-MeO-NMT	Natural	H	H	OCH ₃	CH ₃	H	5-methoxy- <i>N</i> -methyltryptamine
NMT	Natural	H	H	H	H	CH ₃	<i>N</i> -methyltryptamine
Norbaeocystin	Natural	H	OPO ₃ H ₂	H	H	H	4-phosphoryloxy-tryptamine
Baeocystin	Natural	H	OPO ₃ H ₂	H	CH ₃	H	4-phosphoryloxy- <i>N</i> -methyl-tryptamine
Psilocybin	Natural	H	PO ₄	H	CH ₃	CH ₃	4-phosphoryloxy- <i>N,N</i> -dimethyltryptamine
Psilocin	Natural	H	OH	H	CH ₃	CH ₃	4-hydroxy- <i>N,N</i> -dimethyltryptamine
Tryptophan	Natural	COOH	H	H	H	H	α-carboxyltryptamine

α ET	artificial	CH_2CH_3	H	H	H	H	α -ethyltryptamine
α MT	artificial	CH_3	H	H	H	H	α -methyltryptamine
DALT	artificial	H	H	H	$\text{H}_2\text{C}=\text{CH}-\text{CH}_2$	$\text{H}_2\text{C}=\text{CH}-\text{CH}_2$	<i>N,N</i> -diallyltryptamine
DET	artificial	H	H	H	CH_2CH_3	CH_2CH_3	<i>N,N</i> -diethyltryptamine
DiPT	artificial	H	H	H	$\text{CH}(\text{CH}_3)_2$	$\text{CH}(\text{CH}_3)_2$	<i>N,N</i> -diisopropyltryptamine
DPT	artificial	H	H	H	$\text{CH}_2\text{CH}_2\text{CH}_3$	$\text{CH}_2\text{CH}_2\text{CH}_3$	<i>N,N</i> -dipropyltryptamine
5-MeO- α MT	artificial	CH_3	H	OCH_3	H	H	5-methoxy- α -methyltryptamine
5-MeO-DALT	artificial	H	H	OCH_3	$\text{H}_2\text{C}=\text{CH}-\text{CH}_2$	$\text{H}_2\text{C}=\text{CH}-\text{CH}_2$	5-methoxy- <i>N,N</i> -diallyltryptamine
4-HO-DET	artificial	H	OH	H	CH_2CH_3	CH_2CH_3	4-hydroxy- <i>N,N</i> -diethyltryptamine
4-AcO-DMT	artificial	H	OCOCH_3	H	CH_3	CH_3	4-acetoxy- <i>N,N</i> -dimethyltryptamine
4-HO-MET	artificial	H	OH	H	CH_3	CH_2CH_3	4-hydroxy- <i>N</i> -methyl- <i>N</i> -ethyltryptamine
4-HO-DIPT	artificial	H	OH	H	$\text{CH}(\text{CH}_3)_2$	$\text{CH}(\text{CH}_3)_2$	4-hydroxy- <i>N,N</i> -diisopropyltryptamine
5-MeO-DIPT	artificial	H	H	OCH_3	$\text{CH}(\text{CH}_3)_2$	$\text{CH}(\text{CH}_3)_2$	5-methoxy- <i>N,N</i> -diisopropyltryptamine
4-HO-MiPT	artificial	H	OH	H	$\text{CH}(\text{CH}_3)_2$	CH_3	4-hydroxy- <i>N</i> -isopropyl- <i>N</i> -methyltryptamine
Sumatriptan	artificial	H	H	$\text{CH}_2\text{SO}_2\text{NHCH}_3$	CH_3	CH_3	5-(methylaminosulfonylmethylene)- <i>N,N</i> -dimethyltryptamine
Zolmitriptan	artificial	H	H	$-(\text{CHNHC}=\text{OOCH}_2)$	CH_3	CH_3	5-(4-(<i>S</i>)-1,3-oxazolidin-2-one)- <i>N,N</i> -dimethyltryptamine
Short Name	Origin	R^{α}	R⁴	R⁵	R^{N1}	R^{N2}	Full Name

⌈ **Selected Tryptamines** ⌋ (see also Table of naturally occurring tryptamines)

Synthesis

The **Abramovitch–Shapiro tryptamine synthesis** is an organic reaction for the synthesis of tryptamines starting from a β -carboline.^[12]




References









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- [6] <http://en.wikipedia.org/w/index.php?title=Special:ComparePages&rev1=413418001&page2=Tryptamine>

External links

- Tryptamine FAQ (http://www.erowid.org/psychoactives/faqs/faqs_tryptamine.shtml)
- Tryptamine Hallucinogens and Consciousness (<http://www.tryptamind.com/tryptamine.html>)
- Tryptamind Psychoactives (<http://www.tryptamind.com/>), reference site on tryptamine and other psychoactives.
- Tryptamine (T) entry in TiHKAL • info (<http://tihkal.info/read.php?domain=tk&id=53>)

Stropharia rugosoannulata

<i>Stropharia rugosoannulata</i>	
	
Scientific classification	
Kingdom:	Fungi
Division:	Basidiomycota
Class:	Agaricomycetes
Order:	Agaricales
Family:	Strophariaceae
Genus:	<i>Stropharia</i>
Species:	<i>S. rugosoannulata</i>
Binomial name	
<i>Stropharia rugosoannulata</i> Farlow ex Murrill (1922)	
Synonyms [ⓘ]	
<i>Geophila rugosoannulata</i> (Farl. ex Murrill) Kühner & Romagn. (1953) <i>Naematoloma rugosoannulatum</i> (Farl. ex Murrill) S.Ito (1959) <i>Psilocybe rugosoannulata</i> (Farl. ex Murrill) Noordel. (1995)	

<i>Stropharia rugosoannulata</i>	
	
<i>Mycological characteristics</i>	
	gills on hymenium
	cap is convex or flat
	hymenium is adnate
	stipe has a ring
	spore print is purple
	ecology is saprotrophic
	edibility: choice

Stropharia rugosoannulata, commonly known as the **wine cap stropharia**, "garden giant", **burgundy mushroom** or **king stropharia** (Japanese: *saketsubatake*), is an agaric of the family Strophariaceae found in Europe and North America, and introduced to New Zealand.

Unlike many other members of the genus *Stropharia*, it is widely regarded as a choice edible and cultivated for food.

The king stropharia can grow to 20 cm high with a reddish-brown convex to flattening cap up to 30 cm across, the size leading to another colloquial name **godzilla mushroom**.[□] The gills are initially pale, then grey, and finally dark purple-brown in colour. The firm flesh is white, as is the tall stem which bears a wrinkled ring. This is the origin of the specific epithet which means "wrinkled-ringed".^[1]

It is found on wood chips and bark mulch across North America in summer and autumn. Described as very tasty by some authors, king stropharia is easily cultivated on a medium similar to what it grows on naturally. Antonio Carluccio recommends sautéing them in butter or grilling them.[□]

In Paul Stamets' book *Mycelium Running*, a study done by Christiane Pischl showed that the king stropharia makes an excellent garden companion to corn. The fungus also has a European history of being grown with corn.

A 2006 study, published in the journal *Applied and Environmental Microbiology*, found the king stropharia to have the ability to attack the nematode *Panagrellus redivivus*; the fungus produces unique spiny cells called acanthocytes which are able to immobilise and digest the nematodes.^[2] See nematophagous fungus.

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