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# 4 Dionaea Muscipula Ellis Venus Fly Trap In Vitro

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Plants Profile for *Dionaea muscipula* (Venus flytrap)

Biomimetic robotic Venus flytrap (*Dionaea muscipula* Ellis ...

*Dionaea muscipula* Ellis (Venus Flytrap): In Vitro Cultures ...

Venus Flytrap (*Dionaea muscipula*) Guide | Our House Plants

Response of *Dionaea muscipula* J. Ellis to light stress in ...

Charge induced closing of *Dionaea muscipula* Ellis trap

Venus Flytrap - Encyclopedia of Life

THE SECRETORY CYCLE OF *DIONAEA MUSCIPULA* ELLIS - ROBINS ...

*Dionaea muscipula* J. Ellis

Data Source and References for *Dionaea muscipula* (Venus ...

Venus Fly Trap - *Dionaea muscipula* - United Plant Savers

*Dionaea muscipula* Ellis (Venus Flytrap) - Medicinal Plants

Venus flytrap - Wikipedia

*Dionaea*: The Venus' Flytrap - Redfern Natural

History ...

Charge induced closing of *Dionaea muscipula* Ellis trap

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Venus Flytrap - *Dionaea muscipula* - Carnivorous Plants ...

In vitro propagation of *Dionaea muscipula* Ellis (Venus Fly ...

Anthocyanin in *Dionaea muscipula* Ellis (Venus Flytrap ...

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## KATELYN ISAIAS

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4 *Dionaea Muscipula* Ellis Venus *Dionaea muscipula* Ellis (Venus Flytrap): Conclusions and Prospects. *Dionaea muscipula* Ellis is a carnivorous plant, the

natural occurrence of which is restricted to a small area in North America. The plant catches its prey in snap traps by a rapid movement at a rate similar to that of animals. *Dionaea muscipula* Ellis (Venus Flytrap) - Medicinal

PlantsTRAP TYPE: Snap Trap One species, *Dionaea muscipula* J.Ellis (1768), occupying habitats in the southeastern United States of America (North Carolina, South Carolina). The steel trap of *Dionaea* is hardly as

<p>powerful as the ones set by trappers for wolves, beavers or bears, but it is just as effective at catching its own small prey. Venus Flytrap - <i>Dionaea muscipula</i> - Carnivorous Plants ...The Venus flytrap (VFT) (<i>Dionaea muscipula</i> Ellis) possesses an active trapping mechanism to capture insects (figure 1). In this family of intelligent botanical plants, there</p>	<p>are also other examples, such as waterwheel plant, that basically perform the same trapping mechanisms of wandering food materials in a liquid environment. B iomimetic robotic Venus flytrap (<i>Dionaea muscipula</i> Ellis ...<i>Dionaea muscipula</i> (Ellis) Common Name: Venus Flytrap, Venus' Flytrap, or Venus's Flytrap, Meadow Clam. Family: Droseraceae (Sundew</p>	<p>family) Lifespan: Perennial. Reproduction: <i>Dionaea muscipula</i> extends a short flower stalk, about 4-12 inches tall, in early summer. Venus Fly Trap - <i>Dionaea muscipula</i> - United Plant Savers Hutchin son JF (1984) In vitro propagation of <i>Dionaea muscipula</i> Ellis (Venus fly trap). Sci Hortic 22:189-194 CrossRef Google Scholar Ichiishi S, Nagamitsu T, Kondo Y,</p>
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<p>Iwashina T, Kondo K, Tagashira N (1999) Effects of macrocompon ents and sucrose in the medium on in vitro red-color pigmentation in <i>Dionaea muscipula</i> Ellis and <i>Drosera spatulata</i> Labill.<i>Dionaea muscipula</i> Ellis (Venus Flytrap): In Vitro Cultures ...<i>Dionaea muscipula</i> J. Ellis (Venus Flytrap) is a carnivorous plant from the <i>Droseraceae</i> family. This species is endemic plant from the North and South</p>	<p>Carolina in United States (Hook 2001).Accordi ng to Givnish's et al. cost-benefit model of carnivory, carnivorous plants are usually restricted to moistly, nutrient poor and sun exposed habitats, because only in such conditions carnivory is ...Response of <i>Dionaea muscipula</i> J. Ellis to light stress in ...<i>Dionaea muscipula</i> belongs to a small group of carnivorous</p>	<p>plants which have ... G., DIPALMA, J. Anthocyanin in <i>Dionaea muscipula</i> Ellis (Venus Flytrap). Nature 212, 1264 -1265 (1966 ...Anthocyanin in <i>Dionaea muscipula</i> Ellis (Venus Flytrap ...Shoot proliferation from seedling explants of <i>Dionaea muscipula</i> Ellis (Venus Fly Trap) was induced and maintained on Linsmaier and Skoog medium with 10 <math>\mu</math>M kinetin and 0.5 <math>\mu</math>M NAA. Proliferation</p>
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was influenced by cytokinin type and concentration, with kinetin being more effective than BAP. In vitro propagation of *Dionaea muscipula* Ellis (Venus Fly ...sidered Venus flytrap as a bistable vibrator, which can open and close simultaneously. The rapid trap closure of *Dionaea muscipula* Ellis has been explained by either a loss of turgor pressure of the upper epidermis or by a sudden acid-induced wall loosening of the motor cells. According to [18] experiments, both explanations are doubtful. Charge induced closing of *Dionaea muscipula* Ellis trap Charge induced closing of *Dionaea muscipula* Ellis trap Bioelectrochemistry. 2008 Nov;74(1):16-21. doi: 10.1016/j.bioelectrochem.2008.02.004. Epub 2008 Mar 4. Authors Alexander G ... Venus flytrap responses can be considered in three stages: stimulus perception, ...Charge induced closing of *Dionaea muscipula* Ellis trap *Dionaea muscipula* Ellis ex L. ... Venus fly trap in English Venus flytrap in English Venus's flytrap in English venusflugfälla in Swedish Bibliographic References. U. S. Fish and Wildlife Service, 1993: Endangered and Threatened

Wildlife and Plants; Review of Plant Taxa for Listing as Endangered or Threatened Species. *Dionaea muscipula* J. Ellis *Dionaea Muscipula*, commonly known as Venus Fly Trap, is a carnivorous plant in the monotypic *Dionaea* genus. Venus Fly Trap plants are originated in the subtropical wetlands of the East Coast of the United States, such as South and North Carolina. Flies, arachnids, or other small

insects are the main diet of Venus Fly Traps. Guide to Venus Fly Trap: How to Grow & Care for "Dionaea ... We haven't really sold the *Dionaea muscipula* to you have we! At the end of the day a lot of people have a soft spot for these quirky plants and you'll either love or hate the idea of them. The negatives might not be negatives depending on your perspective so once you have your new plant all you

need to know is how to keep your Venus Flytrap alive, which we're talk more about later. Venus Flytrap (*Dionaea muscipula*) Guide | Our House Plants *Dionaea muscipula* Ellis Venus flytrap. Data Source. Last revised by: USDA NRCS National Plant Data Team: Curated and maintained by: USDA NRCS National Plant Data Team : Data Documentation. Documentation State Type;

Hough, M.Y. 1978. New Jersey Wild Plants. Harmony Press, Harmony. NJ: Literature:Dat a Source and References for Dionaea muscipula (Venus ...Dionaea muscipula Ellis - Venus flytrap Subordinate Taxa. This plant has no children Legal Status. Threatened and Endangered Information: This plant is listed by the U.S. federal government or a state. Common	names are from state and federal lists. Click on a place name to get a complete ...Plants Profile for Dionaea muscipula (Venus flytrap)The Venus flytrap ( <i>Dionaea muscipula</i> ) is a carnivorous plant native to subtropical wetlands on the East Coast of the United States in North Carolina and South Carolina. It catches its prey—chiefly insects and arachnids—wit h a trapping structure	formed by the terminal portion of each of the plant's leaves, which is triggered by tiny hairs (called "trigger hairs" or "sensitive hairs") on ...Venus flytrap - WikipediaDion aea muscipula (Venus Flytrap) is a species of perennial herb in the family Droseraceae. It has a self- supporting growth form. It is listed as vulnerable by IUCN and in CITES Appendix II. Venus Flytrap is native to
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Flytrap -	(2014).THE	Venus' Flytrap
Encyclopedia	SECRETORY	- Redfern
of	CYCLE OF	Natural
LifeMichaela	DIONAEA	History ...We
Libiaková,	MUSCIPULA	found that
Kristýna	ELLIS -	Venus flytrap
Floková,	ROBINS	has a short
Ondřej Novák,	...Complete	term electrical
L'udmila	monograph of	memory. 1, 2,
Slováková,	Dionaea	7 Rapid
Andrej	muscipula, the	closure of the
Pavlovič,	world famous	carnivorous
Abundance of	"Venus's	plant Dionaea
Cysteine	Flytrap".	muscipula Ellis
Endopeptidas	Described by	(Venus
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Digestive Fluid	Darwin as "the	been
of Venus	most amazing	attracting the
Flytrap	plant in the	attention of
(Dionaea	world", this	researchers
muscipula	unmistakable	and as a result
Ellis) Is	insect-eating	its mechanism
Regulated by	plant	has been
Different	produces	widely



investigated.  
*Dionaea*  
*Muscipula*,  
commonly  
known as  
Venus Fly  
Trap, is a  
carnivorous  
plant in the  
monotypic  
*Dionaea*  
genus. Venus  
Fly Trap plants  
are originated  
in the  
subtropical  
wetlands of  
the East Coast  
of the United  
States, such  
as South and  
North  
Carolina. Flies,  
arachnids, or  
other small  
insects are the  
main diet of  
Venus Fly  
Traps.  
*Plants Profile*  
*for Dionaea*  
*muscipula*

(*Venus*  
*flytrap*)  
We haven't  
really sold the  
*Dionaea*  
*muscipula* to  
you have we!  
At the end of  
the day a lot  
of people have  
a soft spot for  
these quirky  
plants and  
you'll either  
love or hate  
the idea of  
them. The  
negatives  
might not be  
negatives  
depending on  
your  
perspective so  
once you have  
your new  
plant all you  
need to know  
is how to keep  
your Venus  
Flytrap alive,  
which we're  
talk more

about later.  
Biomimetic  
robotic Venus  
flytrap  
(Dionaea  
muscipula Ellis  
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Charge  
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closing of  
*Dionaea*  
*muscipula* Ellis  
trap  
Bioelectroche  
mistry. 2008  
Nov;74(1):16-  
21. doi:  
10.1016/j.bioe  
lechem.2008.  
02.004. Epub  
2008 Mar 4.  
Authors  
Alexander G ...  
Venus flytrap  
responses can  
be considered  
in three  
stages:  
stimulus  
perception, ...  
Dionaea  
muscipula Ellis

(Venus Flytrap): In Vitro Cultures

...

Dionaea muscipula (Venus Flytrap) is a species of perennial herb in the family Droseraceae. It has a self-supporting growth form. It is listed as vulnerable by IUCN and in CITES Appendix II. Venus Flytrap is native to the contiguous United States. It is a photoautotroph. Individuals can grow to 0.05 m.

**Venus Flytrap**

**(Dionaea muscipula) Guide | Our House Plants**

Complete monograph of Dionaea muscipula, the world famous "Venus's Flytrap". Described by Charles Darwin as "the most amazing plant in the world", this unmistakable insect-eating plant produces leaves that bear jaw-like lobes that dramatically snap shut when triggered.

*Response of Dionaea muscipula J. Ellis to light*

*stress in ...*

Dionaea muscipula Ellis ex L. ... Venus fly trap in English Venus flytrap in English Venus's flytrap in English venusflugfälla in Swedish Bibliographic References. U. S. Fish and Wildlife Service, 1993: Endangered and Threatened Wildlife and Plants; Review of Plant Taxa for Listing as Endangered or Threatened Species.

**Charge induced closing of Dionaea**

<b>muscipula</b> <b>Ellis trap</b> TRAP TYPE: Snap Trap One species, <i>Dionaea</i> <i>muscipula</i> J.Ellis (1768), occupying habitats in the southeastern United States of America (North Carolina, South Carolina). The steel trap of <i>Dionaea</i> is hardly as powerful as the ones set by trappers for wolves, beavers or bears, but it is just as effective at catching its own small prey. <i>Venus Flytrap</i>	- <i>Encyclopedia of Life</i> 4 <i>Dionaea</i> <i>Muscipula</i> Ellis Venus <u>THE</u> <u>SECRETORY</u> <u>CYCLE OF</u> <u>DIONAEA</u> <u>MUSCIPULA</u> <u>ELLIS -</u> <u>ROBINS ...</u> <i>Dionaea</i> <i>muscipula</i> Ellis - Venus flytrap Subordinate Taxa. This plant has no children Legal Status. Threatened and Endangered Information: This plant is listed by the U.S. federal government or a state. Common names are	from state and federal lists. Click on a place name to get a complete ... <b>Dionaea</b> <b>muscipula</b> <b>J.Ellis</b> sidered Venus flytrap as a bistable vibrator, which can open and close simultaneousl y. The rapid trap closure of <i>Dionaea</i> <i>muscipula</i> Ellis has been explained by either a loss of turgor pressure of the upper epidermis or by a sudden acid-induced wall loosening of the motor
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 Conclusions and Prospects.  
 Dionaea muscipula Ellis is a carnivorous plant, the natural occurrence of which is restricted to a small area in North America. The plant catches

its prey in snap traps by a rapid movement at a rate similar to that of animals.  
**Venus Fly Trap - Dionaea muscipula - United Plant Savers**  
 Hutchinson JF (1984) In vitro propagation of Dionaea muscipula Ellis (Venus fly trap). *Sci Hortic* 22:189-194  
 CrossRef  
 Google Scholar  
 Ichiishi S, Nagamitsu T, Kondo Y, Iwashina T, Kondo K, Tagashira N (1999) Effects

of macrocomponents and sucrose in the medium on in vitro red-color pigmentation in *Dionaea muscipula* Ellis and *Drosera spathulata* Labill.  
[Dionaea muscipula Ellis \(Venus Flytrap\) - Medicinal Plants](#)  
*Dionaea muscipula* J. Ellis (Venus Flytrap) is a carnivorous plant from the Droseraceae family. This species is endemic plant from the North and South Carolina in United States

(Hook 2001).According to Givnish's et al. cost-benefit model of carnivory, carnivorous plants are usually restricted to moistly, nutrient poor and sun exposed habitats, because only in such conditions carnivory is ...

**Venus flytrap - Wikipedia**  
 We found that Venus flytrap has a short term electrical memory. 1, 2, 7 Rapid closure of the carnivorous plant *Dionaea*

*muscipula* Ellis (Venus flytrap) has been attracting the attention of researchers and as a result its mechanism has been widely investigated. *Dionaea: The Venus' Flytrap - Redfern Natural History ...*  
*Dionaea muscipula* (Ellis)  
 Common Name: Venus Flytrap, Venus' Flytrap, or Venus's Flytrap, Meadow Clam.  
 Family: Droseraceae (Sundew family)

Lifespan: Perennial.  
 Reproduction: *Dionaea muscipula* extends a short flower stalk, about 4-12 inches tall, in early summer.  
**Charge induced closing of *Dionaea muscipula* Ellis trap**  
 Shoot proliferation from seedling explants of *Dionaea muscipula* Ellis (Venus Fly Trap) was induced and maintained on Linsmaier and Skoog medium with 10 μM kinetin and 0.5 μM

NAA. Proliferation was influenced by cytokinin type and concentration, with kinetin being more effective than BAP.

*Guide to Venus Fly Trap: How to Grow & Care for "Dionaea ...*

Michaela Libiaková, Kristýna Floková, Ondřej Novák, L'udmila Slováková, Andrej Pavlovič, Abundance of Cysteine Endopeptidase Dionain in Digestive Fluid of Venus

Flytrap (Dionaea muscipula Ellis) Is Regulated by Different Stimuli from Prey through Jasmonates, PLoS ONE, 10.1371/journal.pone.0104424, 9, 8, (2014).

#### **4 Dionaea Muscipula Ellis Venus**

The Venus flytrap (Dionaea muscipula) is a carnivorous plant native to subtropical wetlands on the East Coast of the United States in North Carolina and South Carolina. It

catches its prey—chiefly insects and arachnids—with a trapping structure formed by the terminal portion of each of the plant's leaves, which is triggered by tiny hairs (called "trigger hairs" or "sensitive hairs") on ...

#### **Venus Flytrap - Dionaea muscipula - Carnivorous Plants ...**

Dionaea muscipula belongs to a small group of carnivorous plants which have ... G., DIPALMA, J.

Anthocyanin in <i>Dionaea muscipula</i> Ellis (Venus Flytrap). Nature 212, 1264 -1265 (1966 ... <i>In vitro propagation of Dionaea muscipula</i> Ellis (Venus Fly ... The Venus	flytrap (VFT) ( <i>Dionaea muscipula</i> Ellis) possesses an active trapping mechanism to capture insects (figure 1). In this family of intelligent botanical	plants, there are also other examples, such as waterwheel plant, that basically perform the same trapping mechanisms of wandering food materials in a liquid environment.
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