

genetic modification of future humans

16.Mai 2021

**Workshop thGAP – Transgenic Human Genome
Alternatives Project**

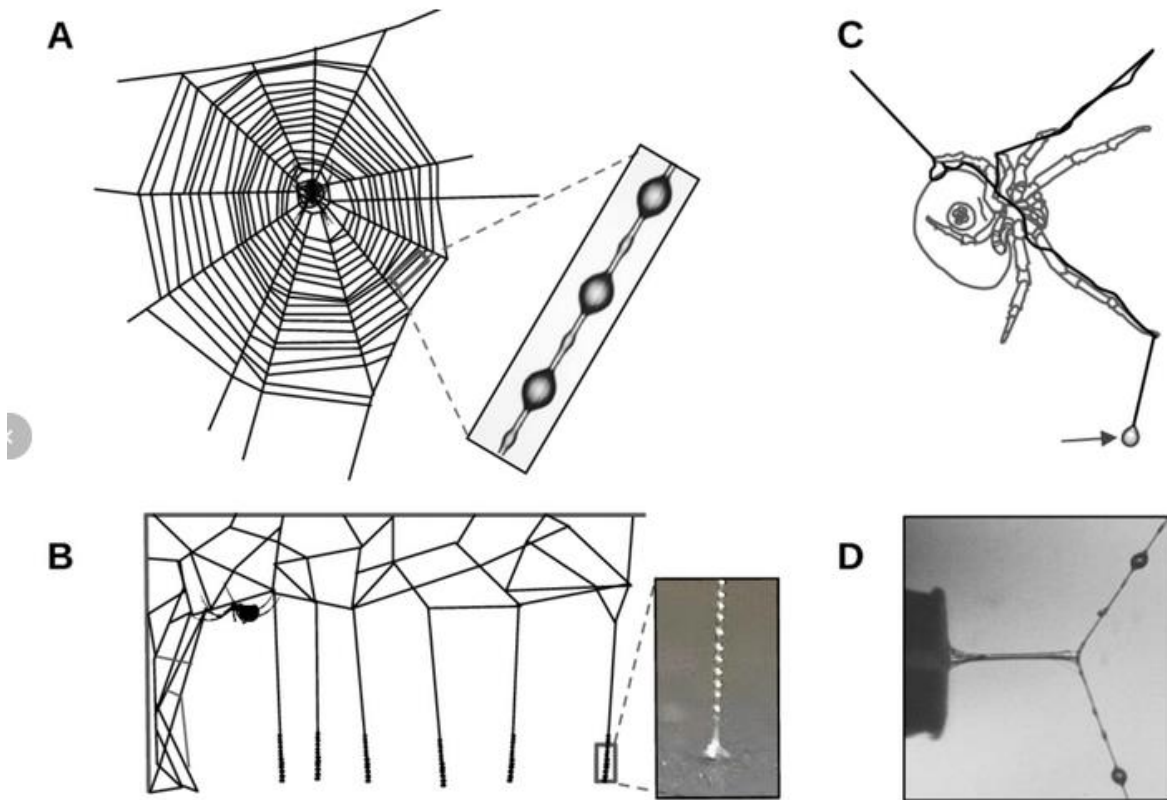
Parasteatoda tepidariorum

Gene symbol

LOC107439103



**„Möge die heilige Berührung der Großmutter Spinne
Und der Weberin der Schicksale
Mich vor Schaden schützen
Und das Pferd, das ich reite, die Maschine
Vor allen Krankheiten bewahren
Wenn ich durch dieses große und wunderbare Netz klettere.“
(Kaldera und Schwartzstein 2003: 190)**



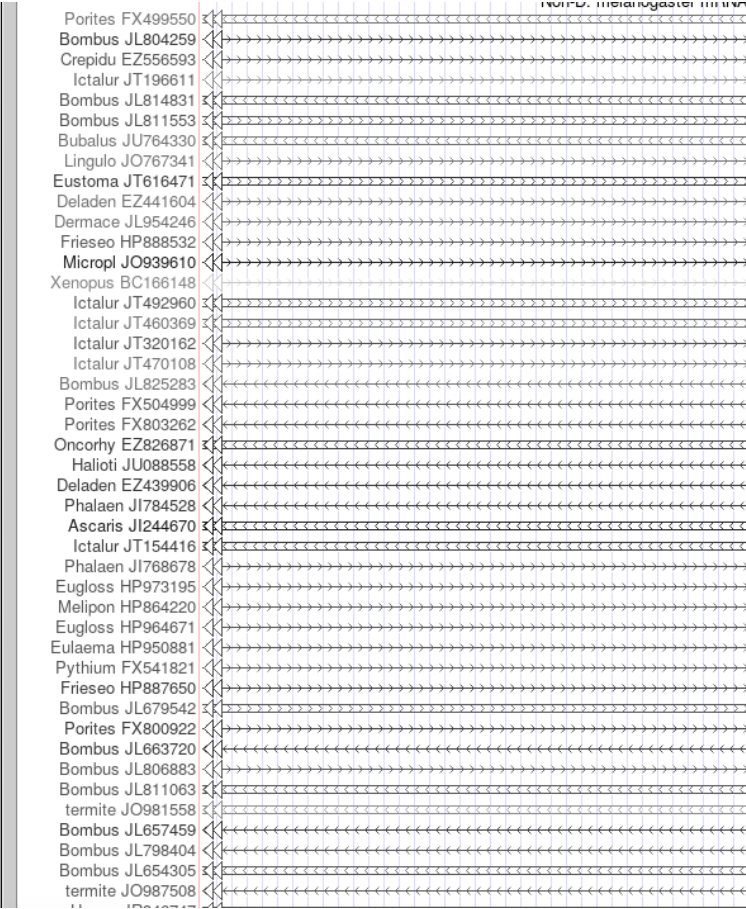
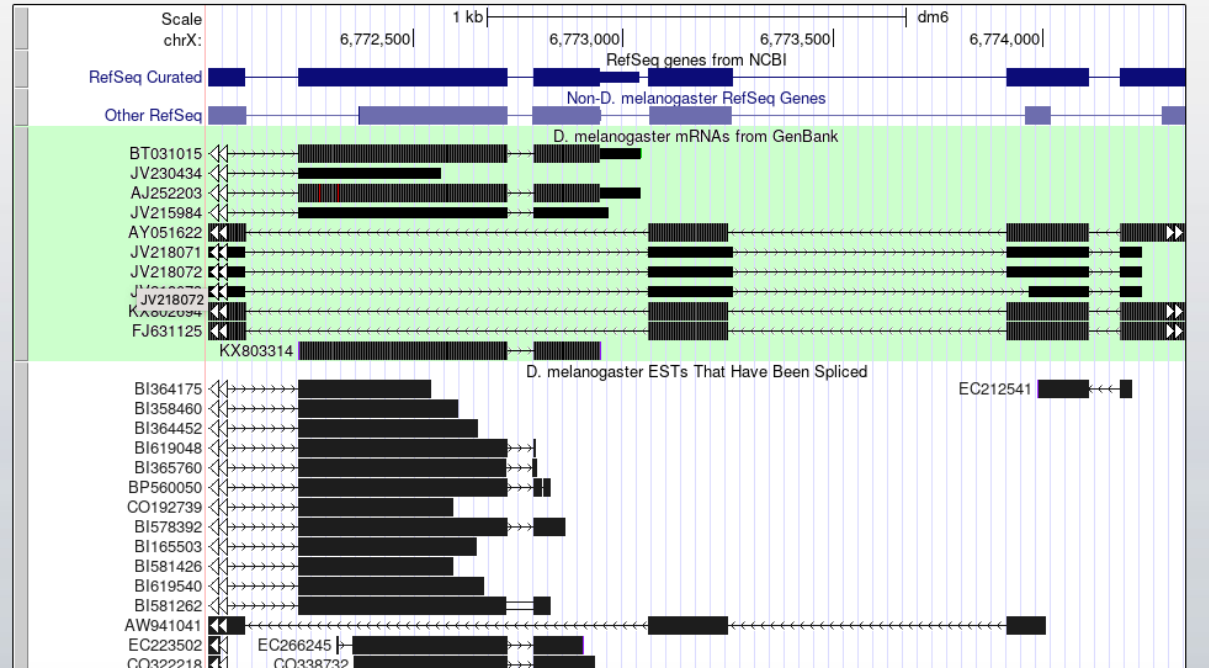
Aggregate spider glue from three spider types. (A) Orb weavers coat the web's sticky capture spiral with glue, (B) the bolas spider creates a large droplet of glue specialized for capturing moths, and (C) cobweb weavers cover the lower portion of their triplines with glue to create 'gumfoot' threads. (D) A stretching glue droplet after contacting a probe that was subsequently withdrawn at a constant rate. Inset images courtesy of Brent Opell.

Wie heisst das dazugehörige Gen?

Spinnen können unter Wasser schwimmen, sie haben Härchen am Körper, an welchen sich wiederum Härchen befinden. In diesen Zwischenräumen bilden sich Luftblasen, welche einen Schutzmantel aus Luft formen. Damit schützen sie sich vor dem Wasser und sind wieder trocken und ohne Bewegungseinschränkung wenn sie an Land kommen.

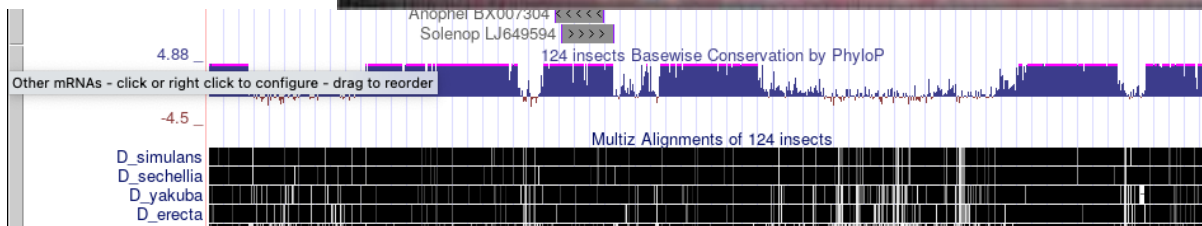
Spinnen stellen Seidenfäden für ihre Netze her, welche als stabilstes Bio-Material der Erde bezeichnet werden.

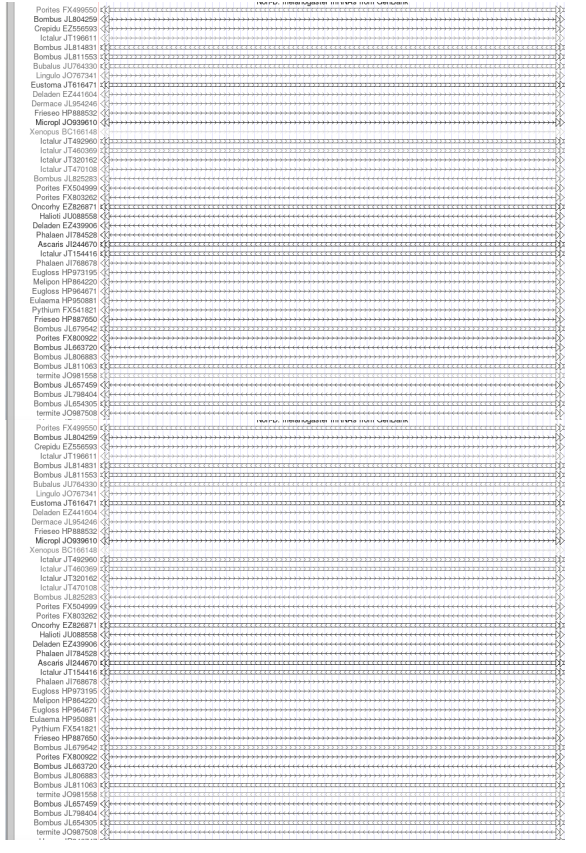
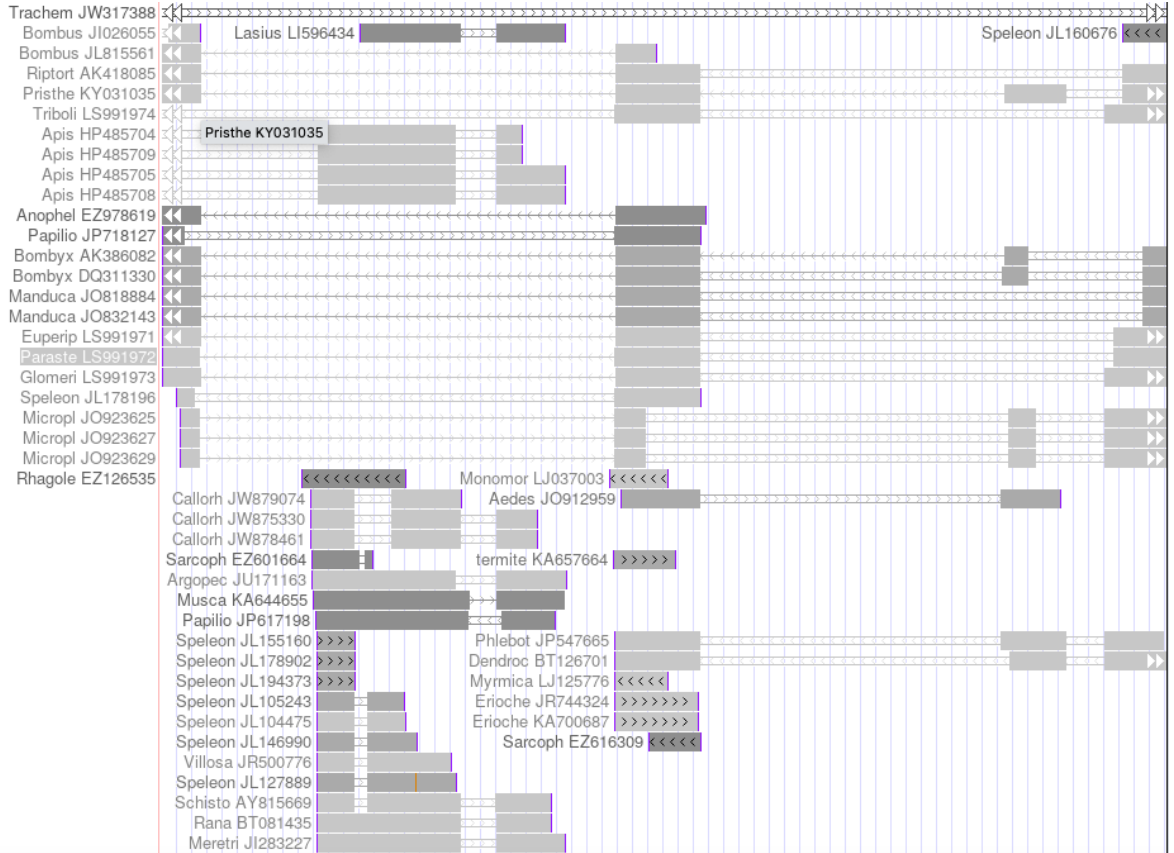
Wie heisst das Gen?

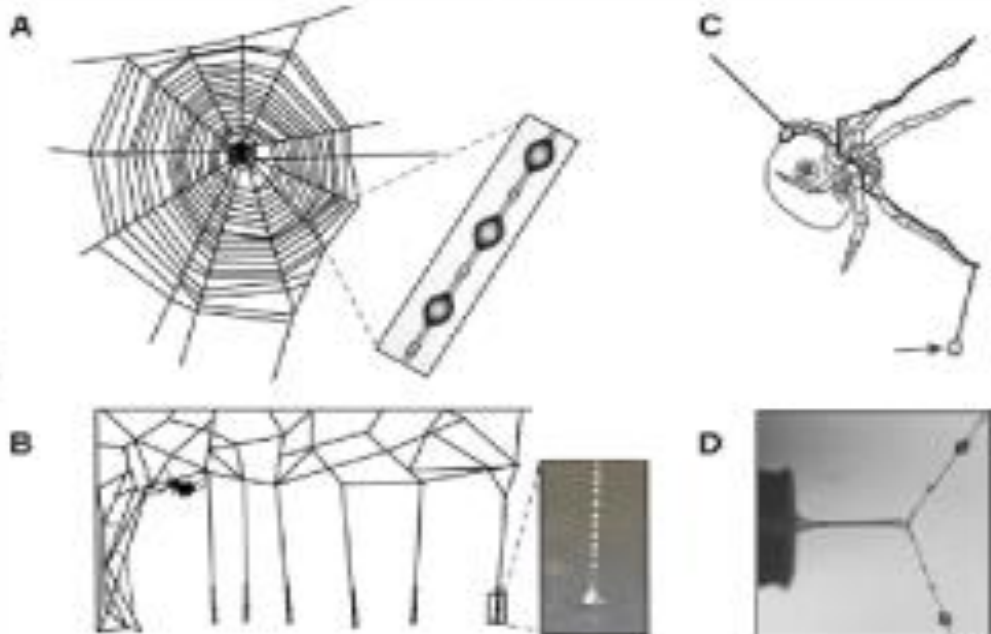




LOC107439103







Aggregate spider glue from three spider types. (A) Orb weavers coat the web's sticky capture spiral with glue, (B) the bolas spider creates a large droplet of glue specialized for capturing moths, and (C) tarantula weavers cover the lower portion of their trip-lines with glue to create 'gumfoot' threads. (D) A stretching glue droplet after contacted a probe that was subsequently withdrawn at a constant rate. (not to scale) courtesy of Brent Coveil.



Porties FX46950	
Bombus J180429	
Orepeda E256693	
Ictalur JT196811	
Bombus J1814831	
Bombus J1811553	
Butalis J1764330	
Lingula J0767341	
Eustoma J1616471	
Daladen E244104	
Dermace J1954246	
Frieseo HP88832	
Micropl J093810	
Xenosus C1161148	
Ictalur JT462960	
Ictalur JT460399	
Ictalur JT320162	
Ictalur JT470108	
Bombus J1825383	
Porties FX504999	
Porties FX803262	
Oncophy E268871	
Halioti J088598	
Daladen E2439906	
Phallex J1784528	
Ascasis J1244670	
Ictalur JT154116	
Phallex J1768676	
Euglossa HP973195	
Melipon HP84220	
Euglossa HP84671	
Eulasma HP95881	
Pythium FX541821	
Frieseo HP887650	
Bombus J1679540	
Porties FX800622	
Bombus J1663720	
Bombus J1806883	
Bombus J1811093	
termitis J0981958	
Bombus J187459	
Bombus J1798404	
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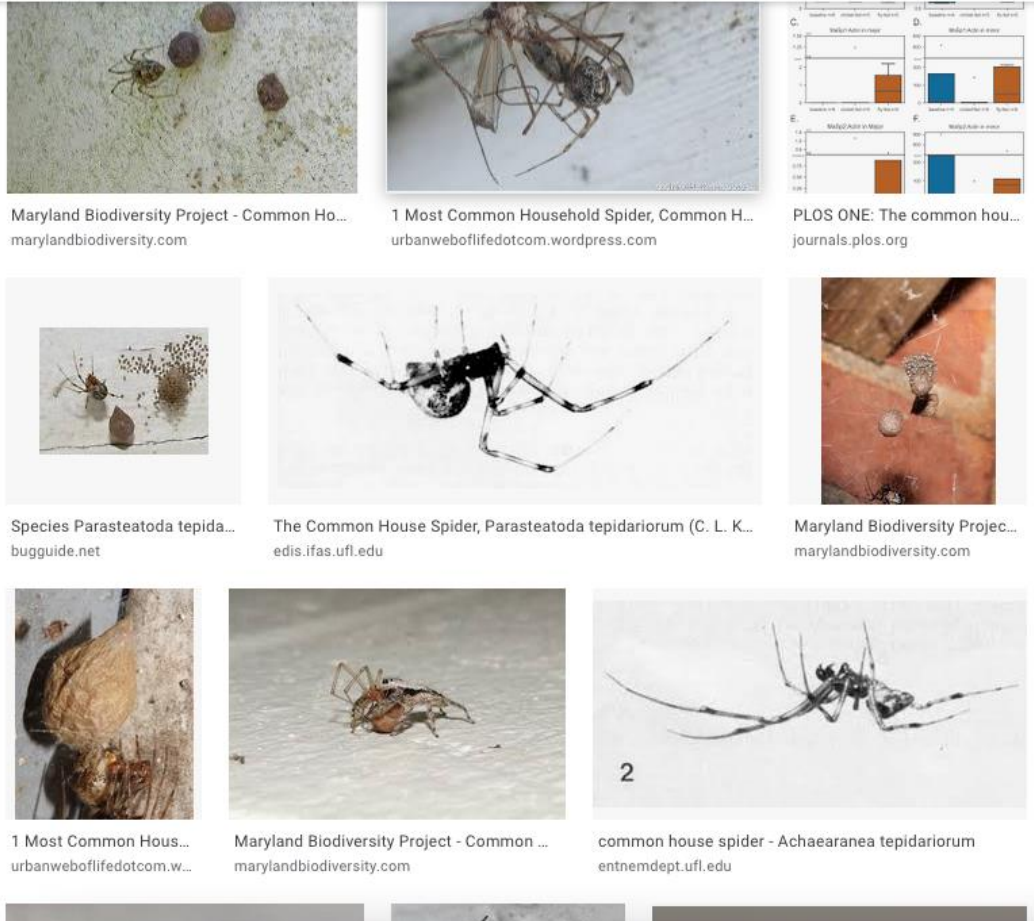
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Porites FX499550	
Bombus JL804259	
Crepidu EZ556593	
Ictalur JT196611	
Bombus JL814831	
Bombus JL811553	
Bubalus JU764330	
Lingulo JO767341	
Eustoma JT616471	
Deladen EZ441604	
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Frieseo HP888532	
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Xenopus BC166148	
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Halioti JU088558	
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Phalaen JI768678	
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termite JO981558	
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termite JO987508	

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Bombus JLI14811
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Xeropsis BC19148
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Onophy EZ62871
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Bombus JL654305
termitis JO87598

Google LOC107439103 mesocentin [Parasteatoda tepidariorum (common house spider)



a RNAi

Day after 1st injection

Mating 0 10 20

dsRNA injection

Inject ~1-2 μ l of dsRNA solution (1-2 μ g/ μ l) for target gene multiple times

Egg laying

RNAi effect

+

++

+++

++++

c Multi-color FISH

Stage 7

Pt-hh

Pt-noto1

DNA

d Laser ablation

Stage 7

00:07:00

b Microinjection

16- to 128-cell stage

Microinjection:

1. Cell labeling (e.g. FITC-dextran)
2. Expression of exogenous constructs (e.g. mRNA coding for Histone-IdEosFP)
3. eRNAi (e.g. dsRNA for target gene + FITC-dextran)

Closeup

FITC-dextran

Histone-IdEosFP

eRNAi cell clone for Pt-otd

Stage 2

50 μ m

Stage 7

50 μ m

50 μ m

EvoDevo - BioMed Central

The common house spider *Parasteatoda tepidariorum* | EvoD

Die Bilder sind eventuell urheberrechtlich geschützt. Weitere Infos

Ähnliche Bilder Mehr ansehen



