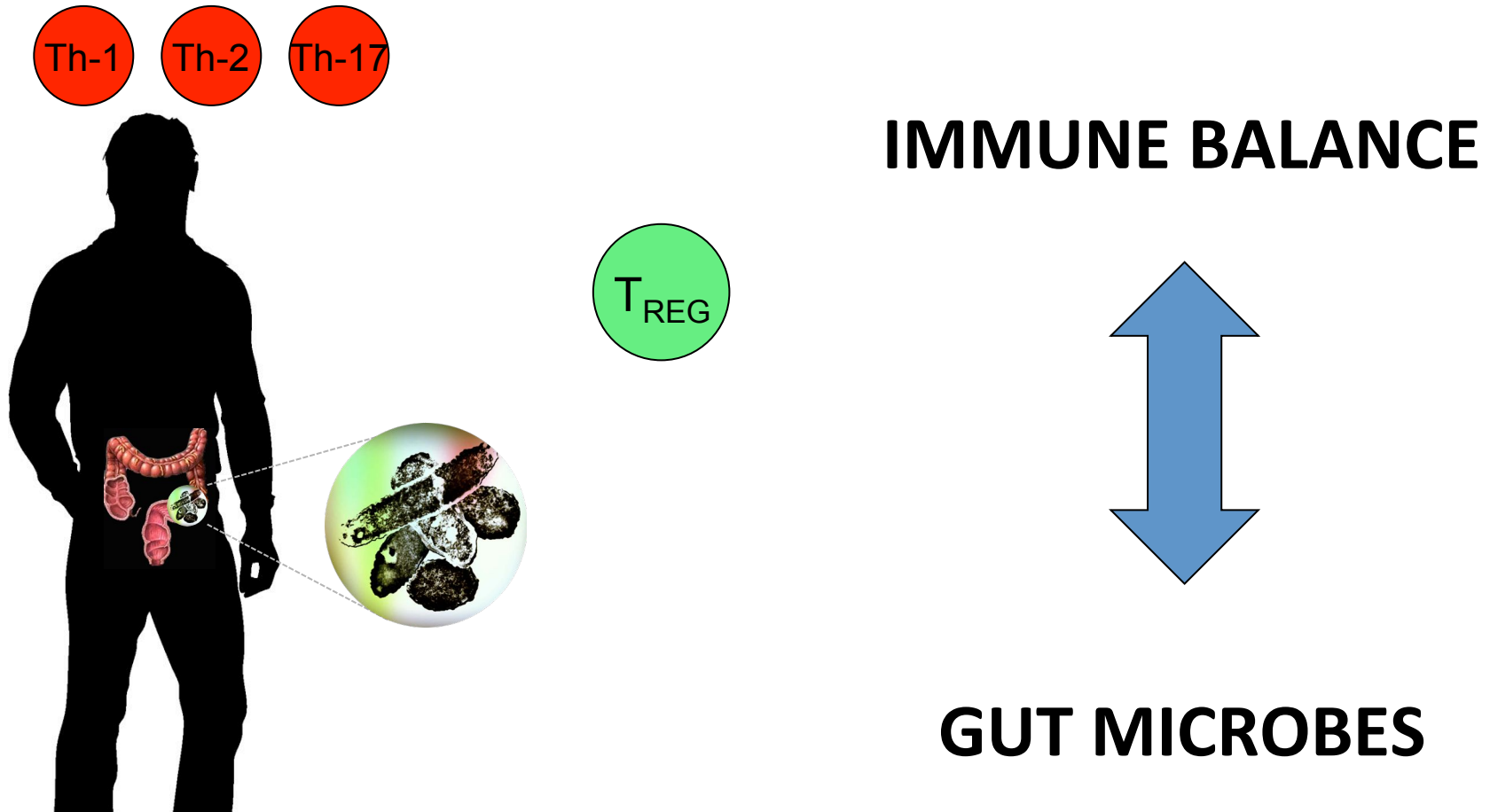
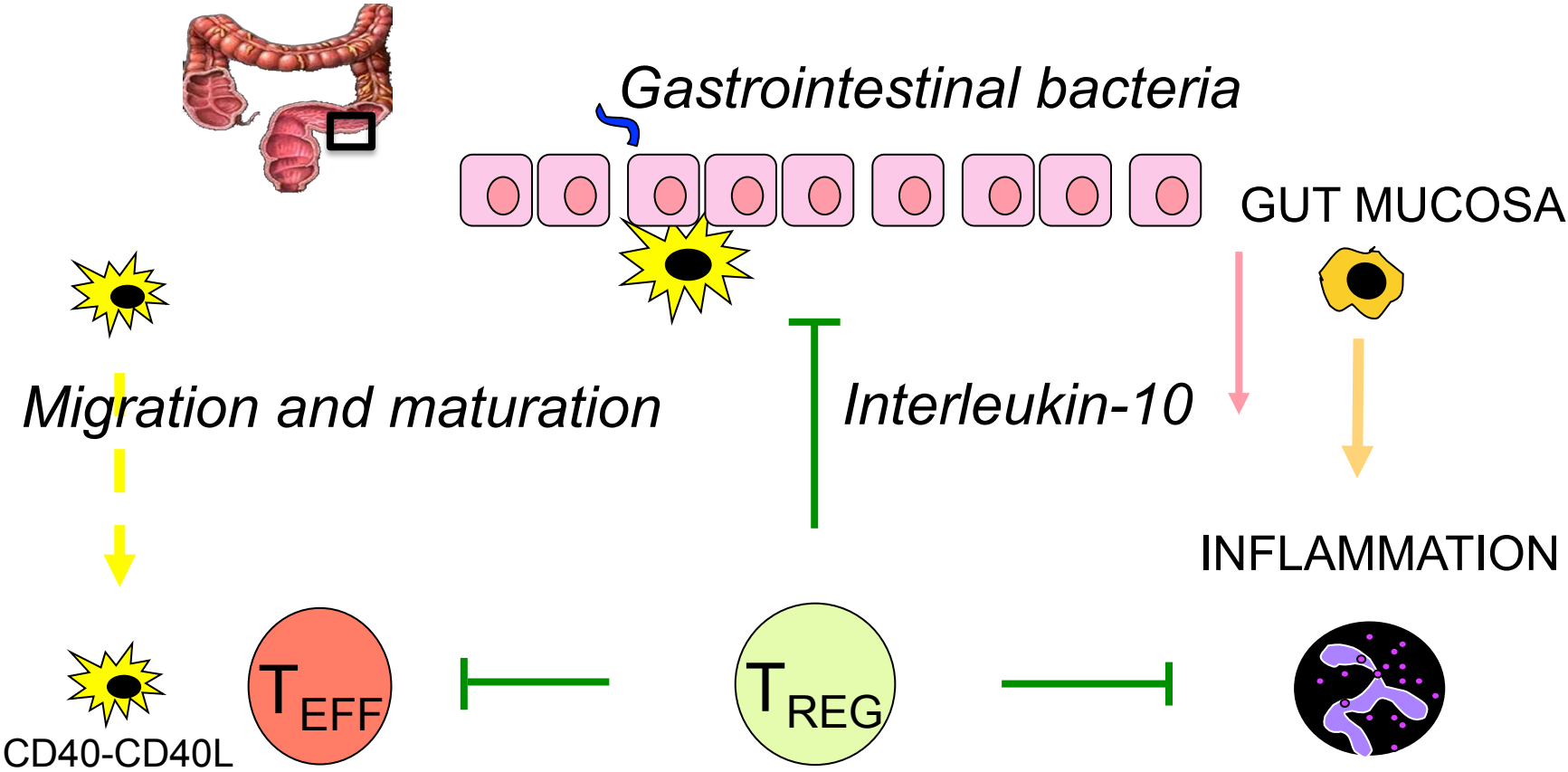


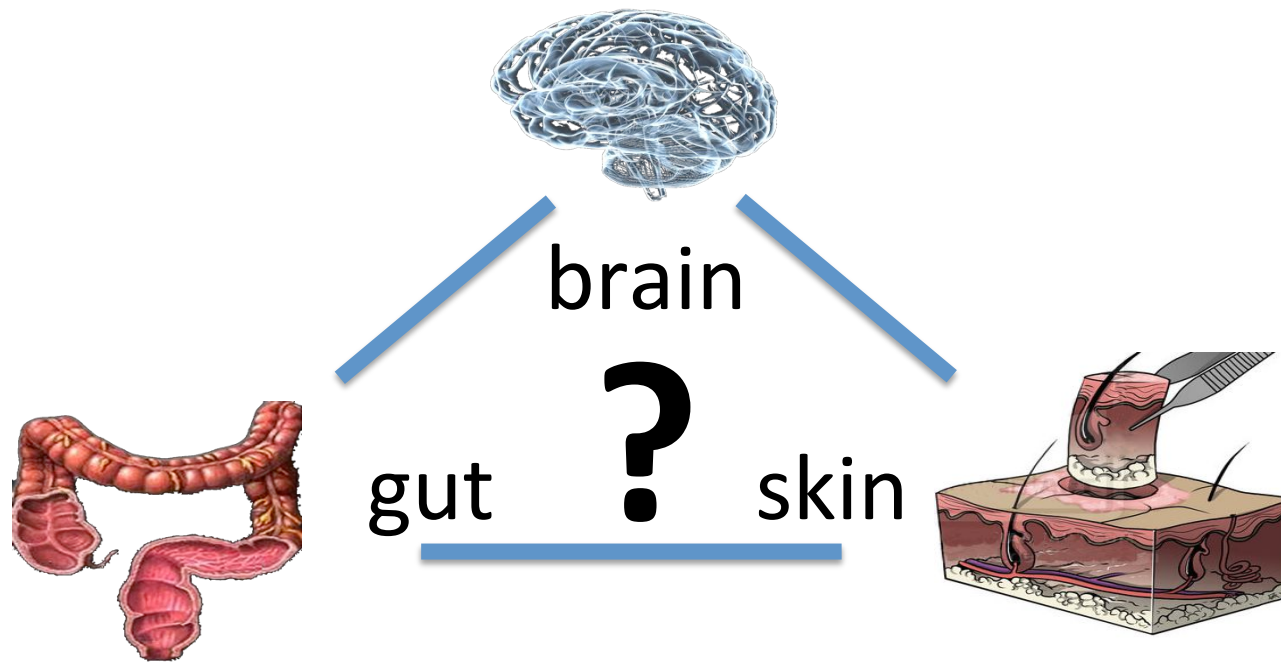
Taming your gut



Gut bacteria-triggered systemic events



Healing by gut feeling?



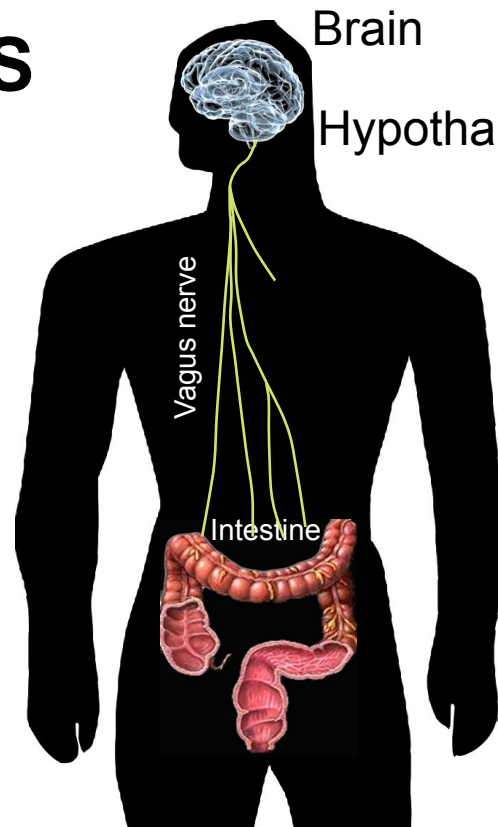
Benefits of Oxytocin

1. Builds love & trust
2. Bonds a family
3. Reduces social fears
4. Improves wound healing
5. Relieves stress



Vagus nerve: the oxytocin highway

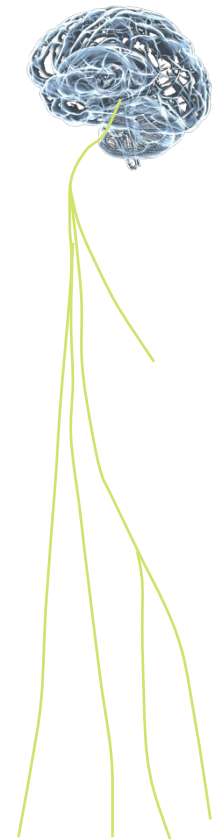
MICROBES



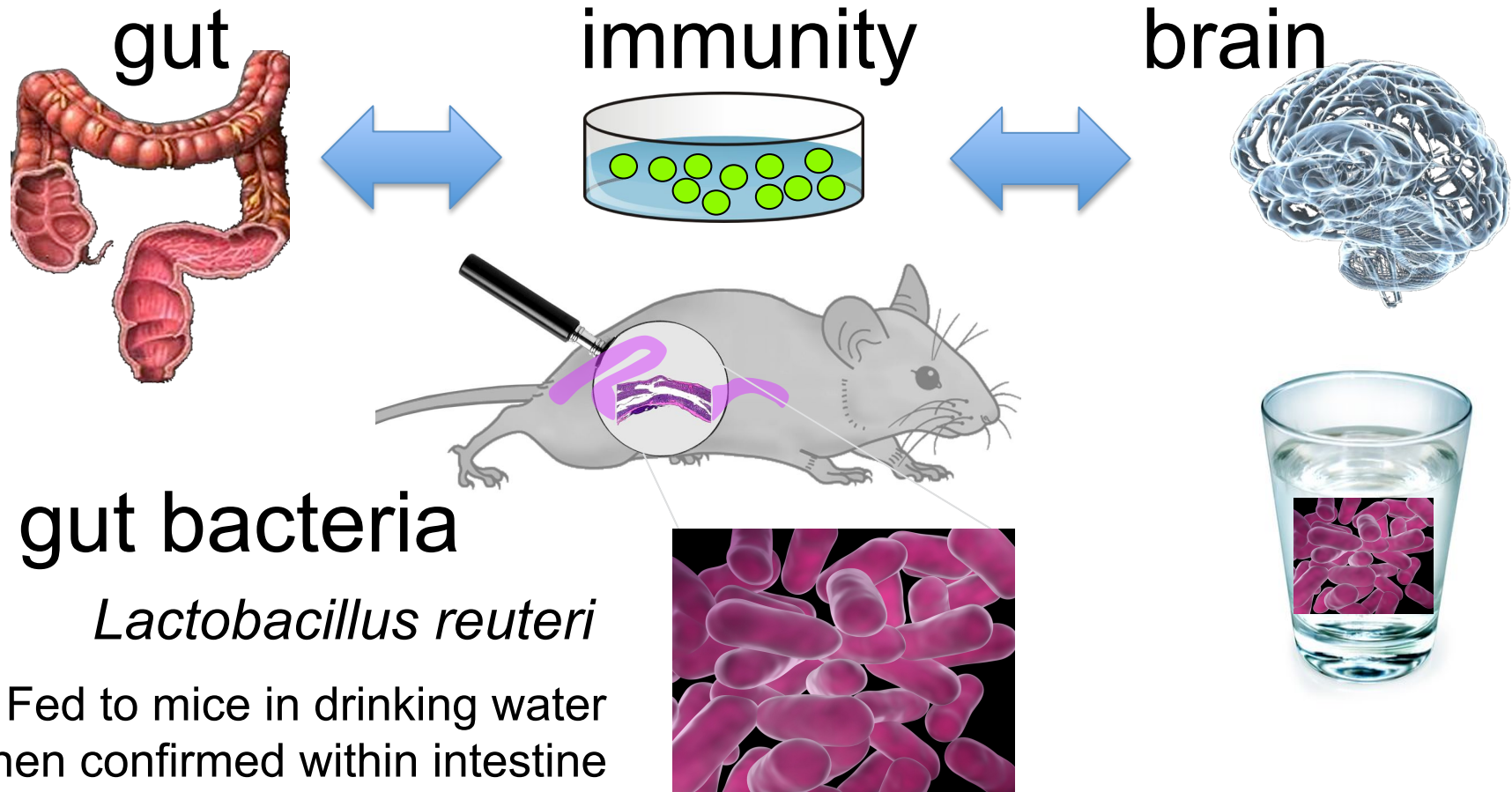
BRAIN



GUT



Why use animal models?



These mice are brothers



Probiotic yogurt? Yummy.



Glow of Good Health



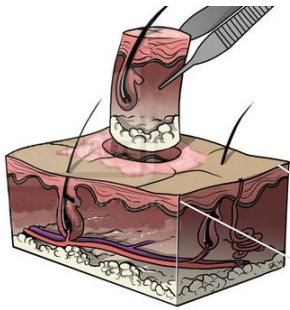
Bacteria-treated



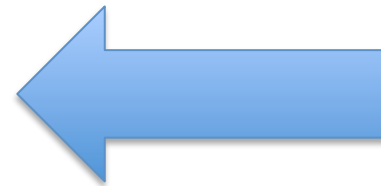
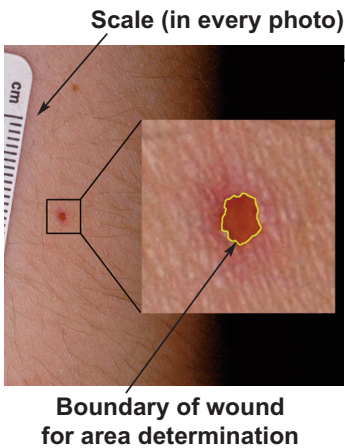
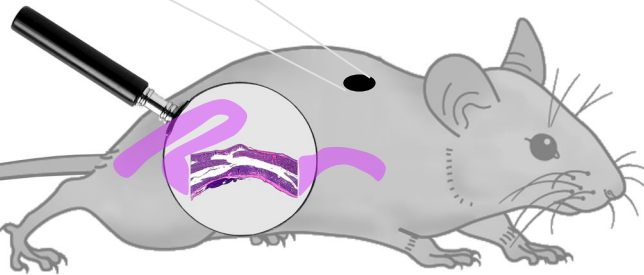
Control



Skin biopsy technique



Full thickness skin biopsy



Growing luxuriant hair





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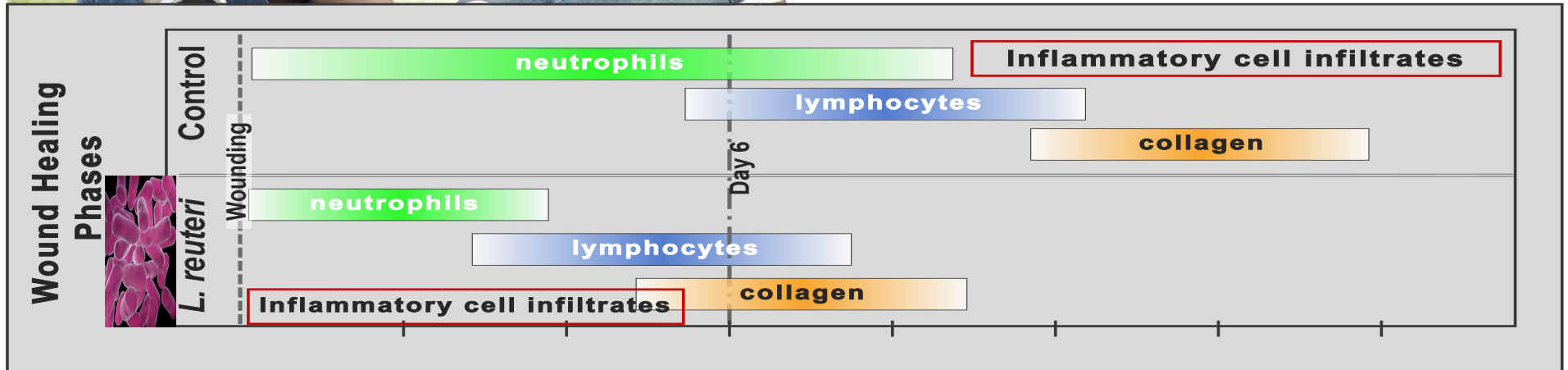
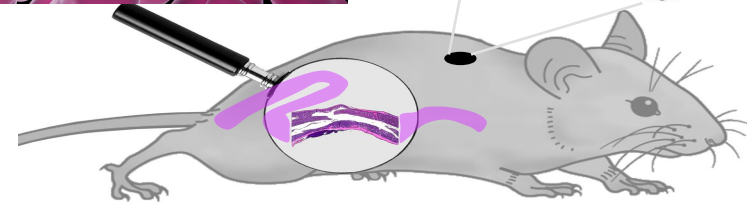
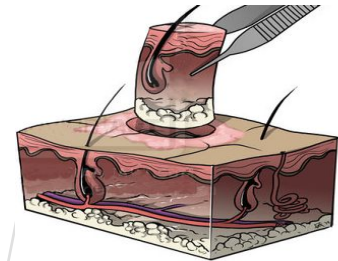
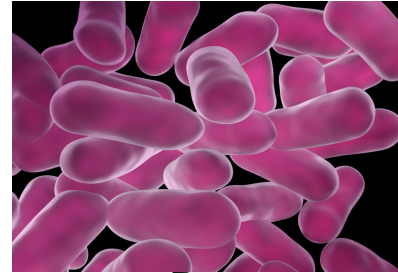
Mice That Eat Yogurt Have Larger Testicles

Probiotics may endow rodents with a "mouse swagger"

By Elie Dolgin



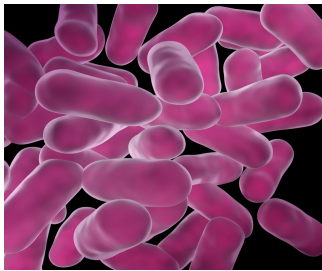
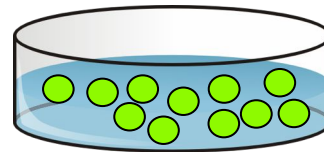
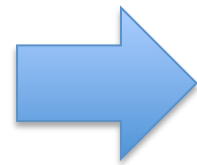
Wound healing is 2X faster



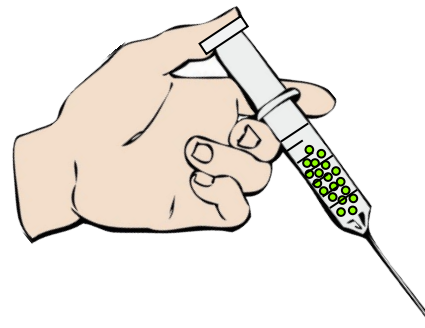
Transfer of immune cells



immune cells



gut bacteria

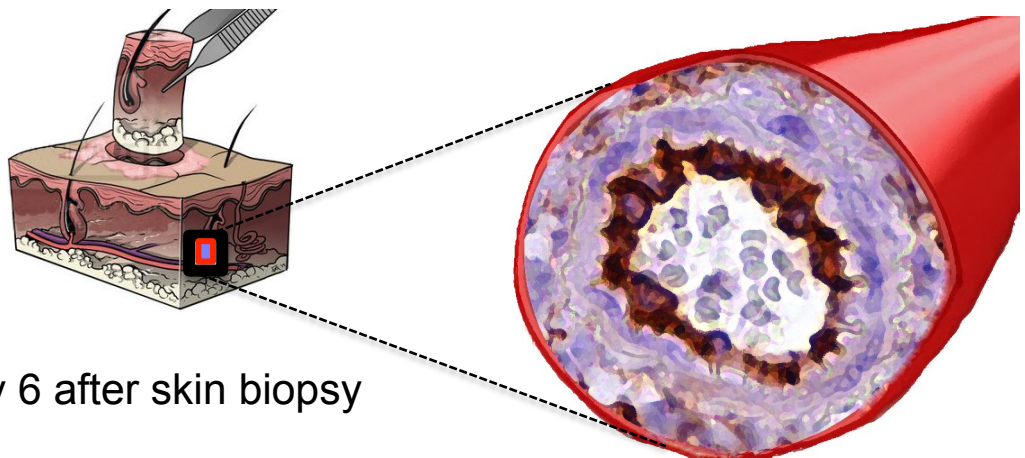


... re-creates
the effect

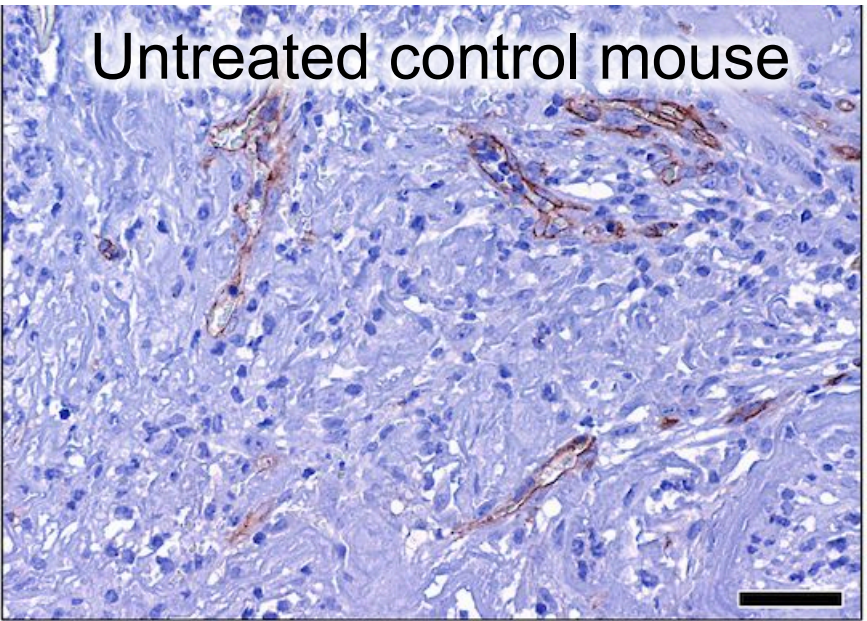
Skinny!
Shiny!
Sexy!



Angiogenesis



day 6 after skin biopsy



Untreated control mouse



Mouse eating *L. reuteri*

Pilot Study in Human Subjects

Help us discover the key to “glow of health”

You are invited to participate in a research project.

Our research aims to investigate the connection of healthful bacteria to skin health and wound healing. Previous studies show a link between probiotic bacteria, radiant skin and shiny hair.

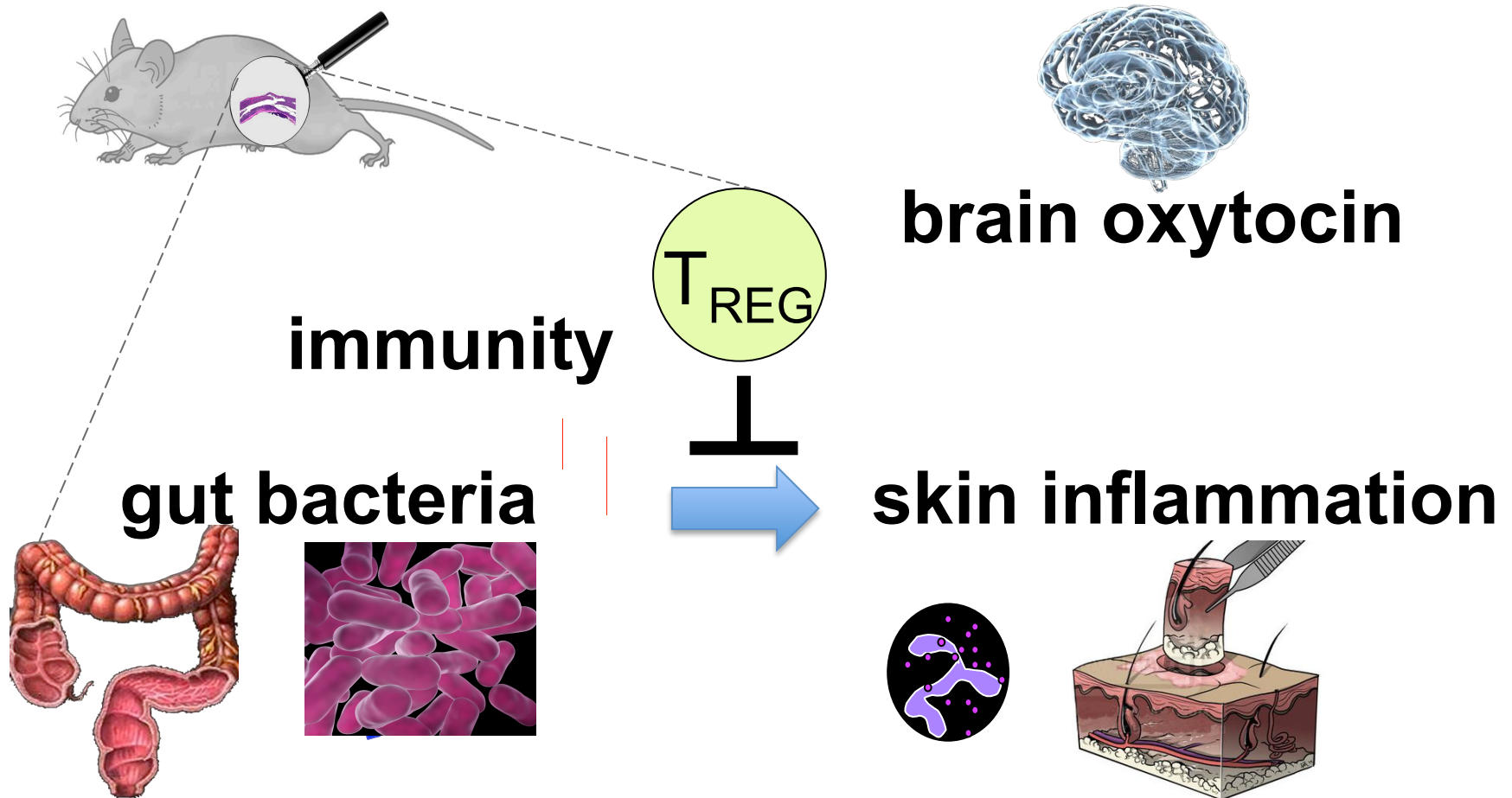
We are looking for female volunteers, ages 19-40, who are healthy and not taking any medication.

The study involves taking a probiotic supplement daily and undergoing a small skin biopsy. The total involvement is 5 weeks.

Division of Comparative Medicine
Contact: serdman@mit.edu



Taming your gut: mechanisms



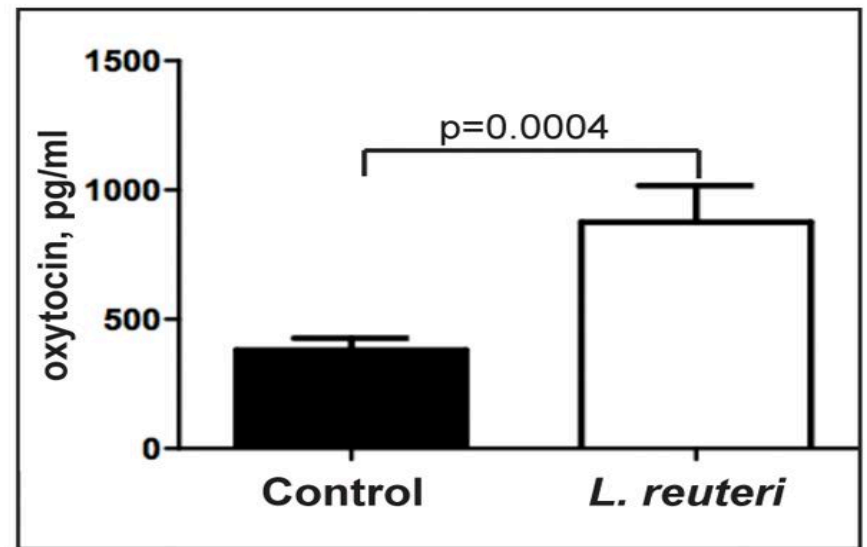
Brain-Hypothalamic pathways



Physical, mental & social fitness

Plasma Oxytocin

“my bacteria made me do it”



Healing by gut feeling

