TEAM 20: BLUE GLUE

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PROJECT GOALS

- Develop adhesive derived from mussels that is compatible with biotic and aqueous environments
- Utilize a method of obtaining material without the extinction of a species
- Design synthesis process that is more affordable and efficient than current, non-viable processes

en.wikipedia.com
ALTERNATIVE SOLUTIONS

• Refine the existing extraction method of blue mussels

• Utilize recombinant DNA technology to make yeasts or other host organisms to produce our proteins
  • Baker's Yeast
  • E. Coli
  • Eukaryotes (tobacco, potato, rabbit, mouse)

• Chemically synthesize proteins from scratch
DESIGN NORMS

- Caring
- Delightful Harmony
- Stewardship

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STATUS

Researching:

• Additional potential market applications

• Recombinant methods of production in various host organisms

• Feasibility of synthesis

• Which mussel protein

POSSIBLE OBSTACLES

• No one has successfully produced adhesive with native qualities

• Economic feasibility

• Purification and separation of the adhesive