

Biomimicry: Innovation Inspired by Nature
Translating Science
CREATIVE COMMUNICATION



Assignment 4

Part 1: Select a scientific paper

Select a scientific paper from a peer-reviewed journal (e.g., Science, Nature, Conservation Biology, Ecology, etc.) **that highlights one of nature's organisms or ecosystems.** (You have already completed this part of the assignment.) Ensure that you have an opportunity to speak with Cindy about the paper you've selected. Make a clear copy of the paper's title, abstract and full citation; submit as part of this assignment.

Part 2: Understanding the science

Carefully read through the entire article that you have selected at least 2 times. First, to get a feel for the entire paper and a broad understanding of the topic, and second, to make notes of the key scientific facts.

Part 3: Science fiction

Based on the scientific facts you've gleaned from the article, imagine a biomimetic design that could *potentially* be generated by emulating a natural "recipe" for form, process, or system from the highlighted organism or ecosystem. Be creative and descriptive! Have fun with this!

Part 4: Translating the science

Now, using the true facts and your fictional biomimetic design, write an engaging article about your selected organism or ecosystem. The purpose of your article is to capture your audience's interest while providing understandable scientific facts. Your target audience is an adult with very little science background but with an interest in the natural world. Envision that your article will be submitted to National Geographic for publication. Don't forget an eye-catching title!

Use 12-pt font & double space. Your paper has a 4 page maximum & a 3-page minimum. ***Remember to attach the title, abstract & citation for the original scientific article***

For writing guidance and ideas, consult the 2 papers assigned for the homework the past 2 weeks. Both are available on ERES.

- "Tips to give your writing wings" (ERES folder "week 3")
- "Science and technology" from *On Writing Well* (ERES folder "week 4")