

Problem: Astronauts do not get fresh food in space (3 oranges + 2 apples to share each 3 mos.)
Solution: Devise micro-sprouts growing system which can work in existing greenhouse experiments currently on the ISS. We experimented with making seed packets, "ravioli packets", which would contain the seeds and allow for sprouting.

- 1) We tested and evaluated 6 different organic glues to see which was most effective. We found that corn syrup glue worked better than the others.
- 2) Next we created 'ravioli' packets of seven different microgreens and micro-sprouts: Italian mix, Umami Asian greens, broccoli, Greek cress, Kohlrabi, and onion using paper towel sheets folded in half with glue and seeds on one half.

Paper towels and rock wool both seemed to work for sprouting:



Both grew:



Glue samples:





Making our seed packets:

Finished paper towel, folded over seed packets – 7 kinds – Broccoli, Greek Cress, Kohl Rabi, Mellow blend, Umami Asian blend, Italian blend, onion:

