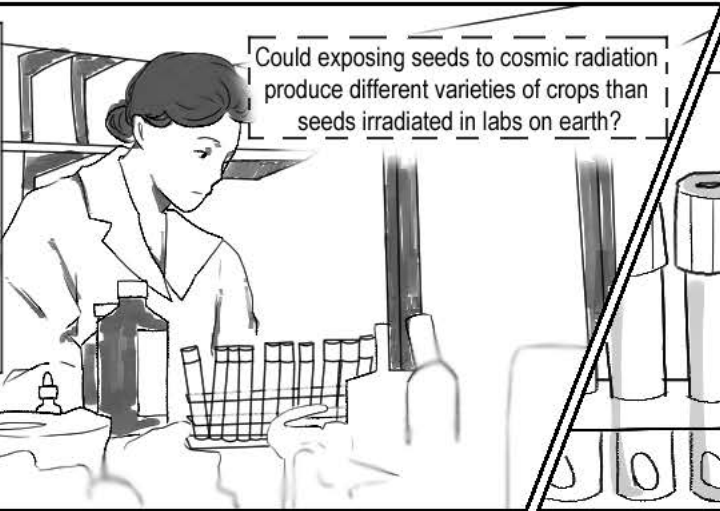
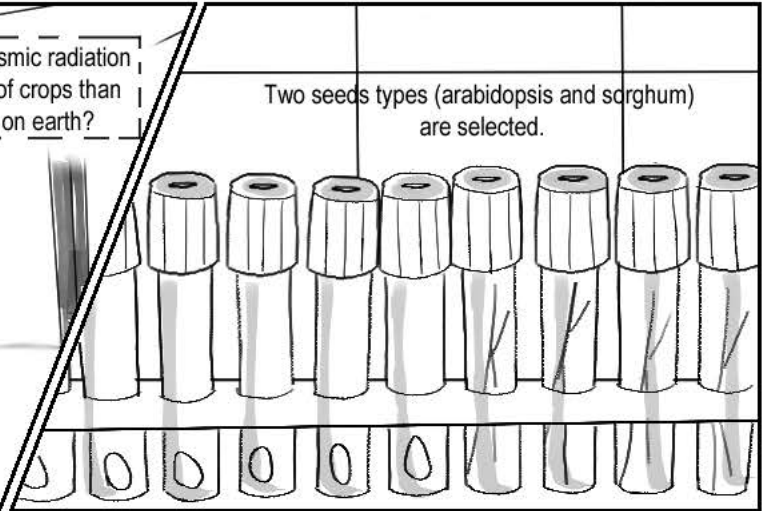


Due to the growing human population, scientists have been finding ways to increase food crops and one of many solutions was 'cosmic crops'

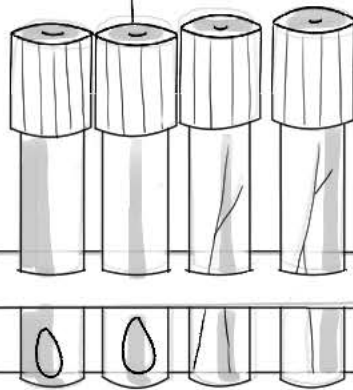


Could exposing seeds to cosmic radiation produce different varieties of crops than seeds irradiated in labs on earth?

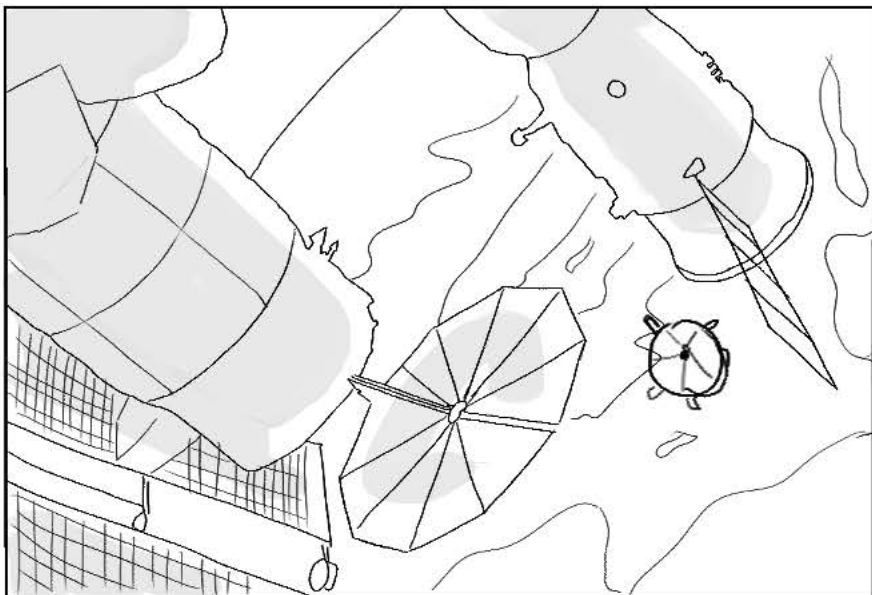
Two seeds types (arabidopsis and sorghum) are selected.



One batch remains in the Joint IAEA Centre laboratories to be irradiated in a machine

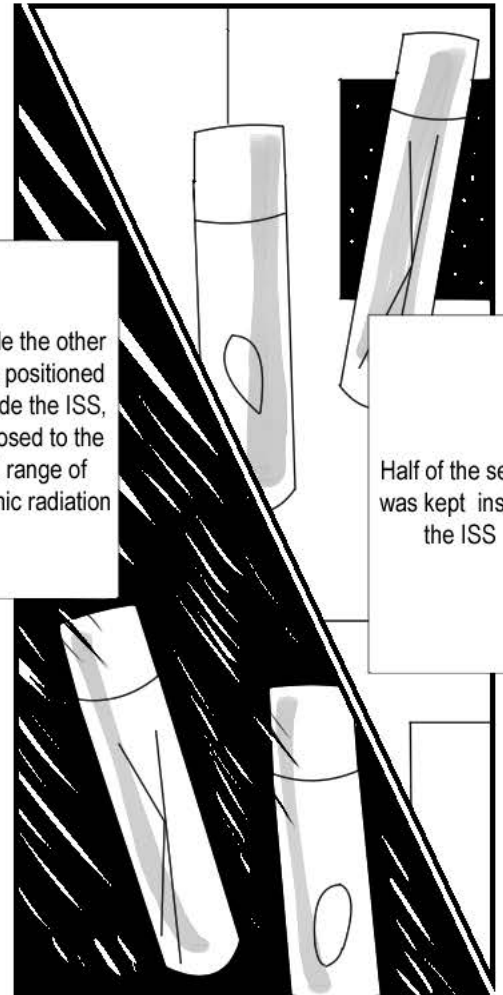


While the other batch are launched into space



While the other was positioned outside the ISS, exposed to the full range of cosmic radiation

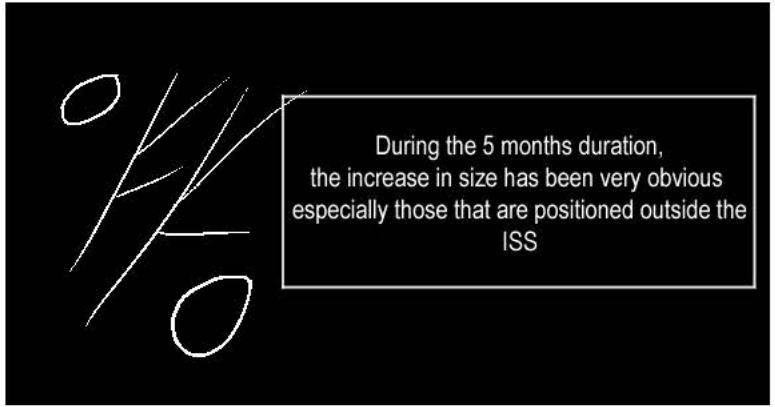
Half of the seed was kept inside the ISS



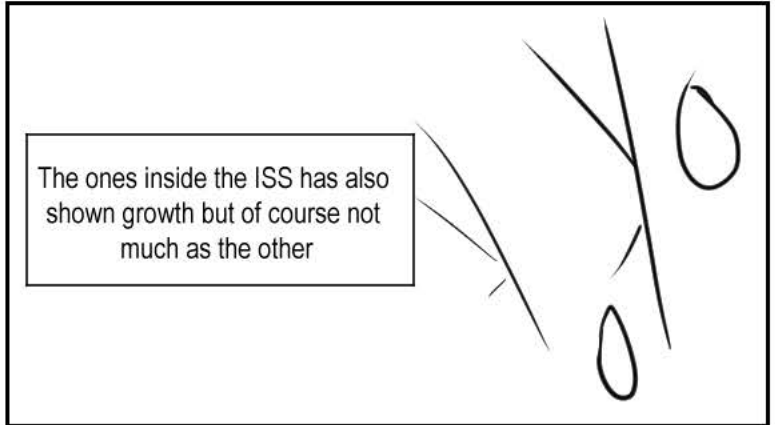
...5 MONTHS...



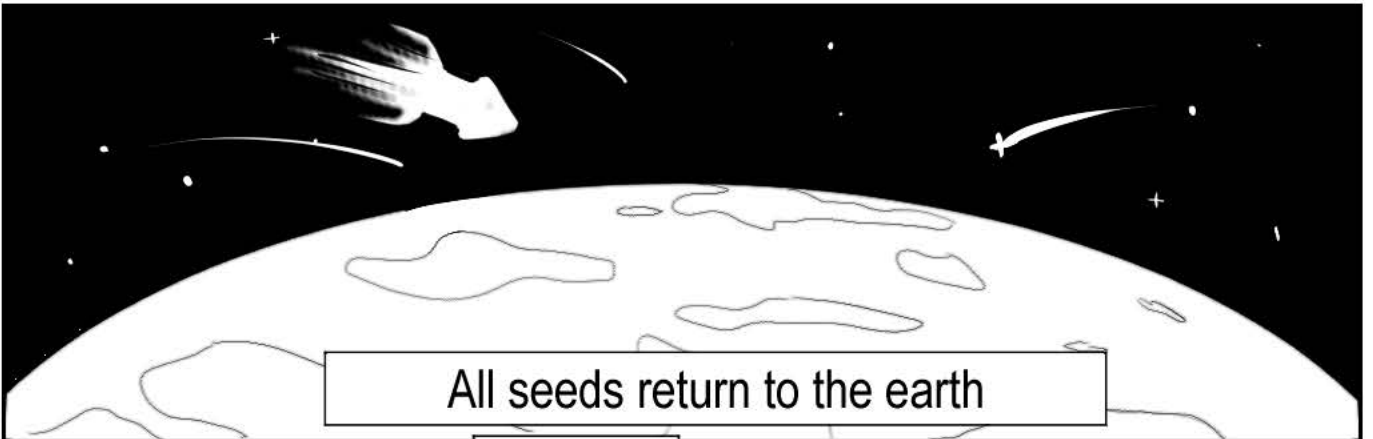
And surely,
after 5 months,
changes can be seen
on the
cosmic exposed
seeds



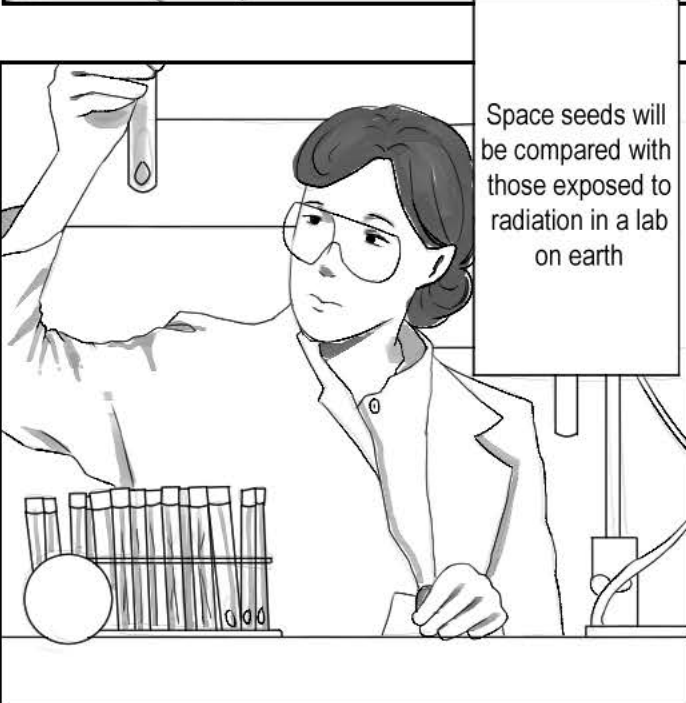
During the 5 months duration,
the increase in size has been very obvious
especially those that are positioned outside the
ISS



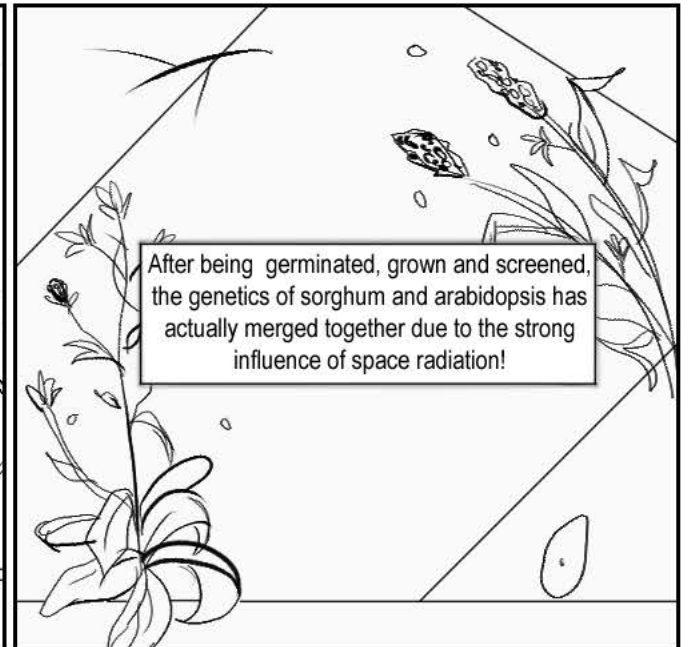
The ones inside the ISS has also
shown growth but of course not
much as the other



All seeds return to the earth



Space seeds will
be compared with
those exposed to
radiation in a lab
on earth



After being germinated, grown and screened,
the genetics of sorghum and arabidopsis has
actually merged together due to the strong
influence of space radiation!