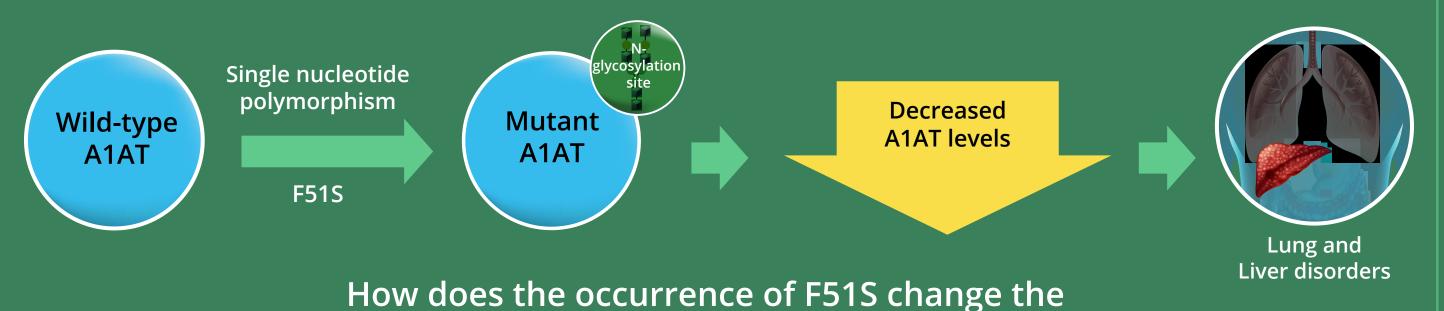
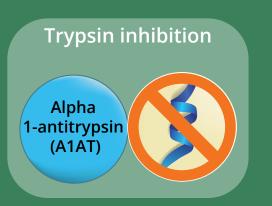
### Characterizing the rare F51S mutation of alpha 1-antitrypsin

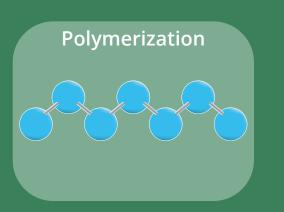
Alpha 1-antitrypsin (A1AT) deficiency caused by gene mutations is associated with lung and liver diseases

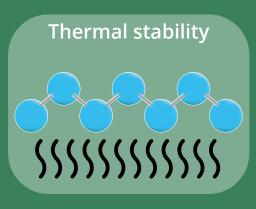


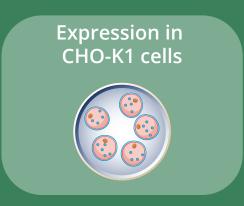
conformation and stability of the A1AT?



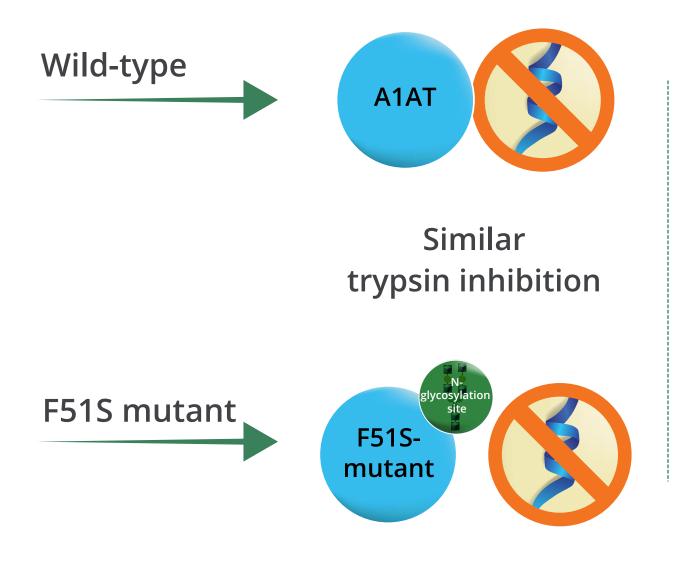


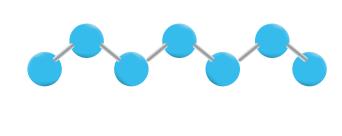




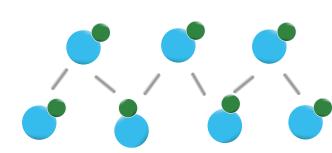


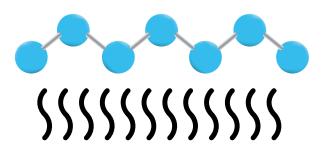
### Compared to the wild-type A1AT, mutant A1AT had...



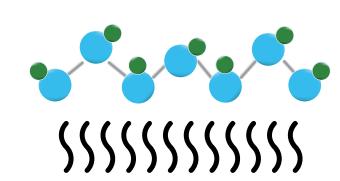


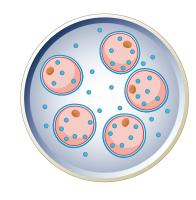
Inhibited polymerization



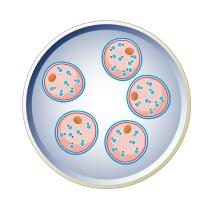


Lower thermal stability





Inhibited secretion in CHO-K1 cells



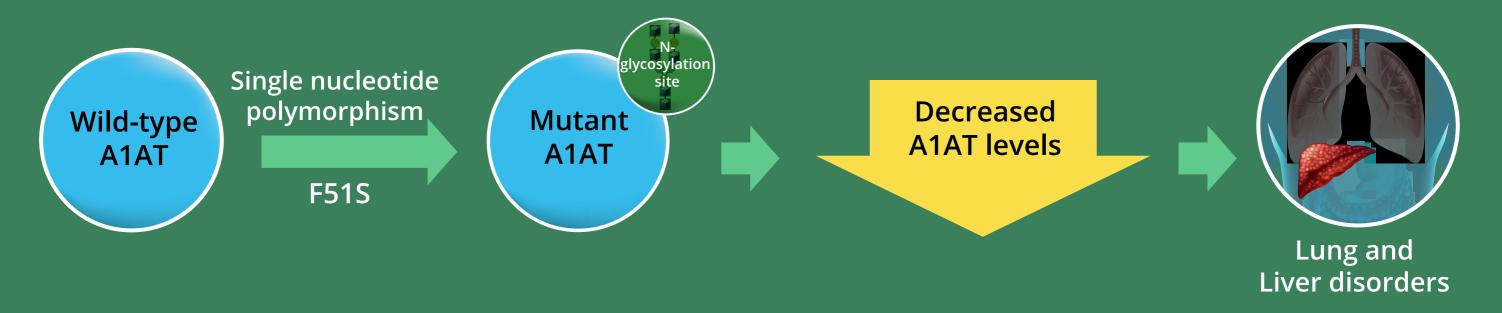
F51S mutation alters A1AT conformation and secretion, implying that it plays a role in A1AT deficiency, and can aid researchers in finding cures for lung and liver diseases caused by A1AT deficiency.



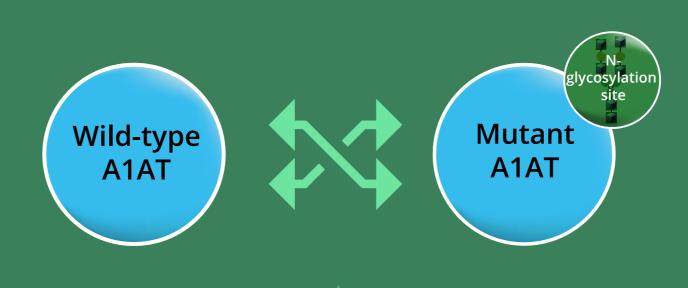


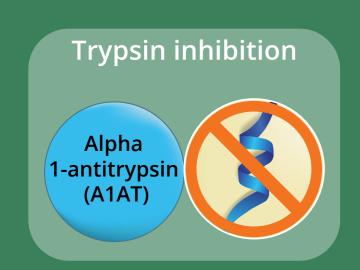
# Characterizing the rare F51S mutation of alpha 1-antitrypsin

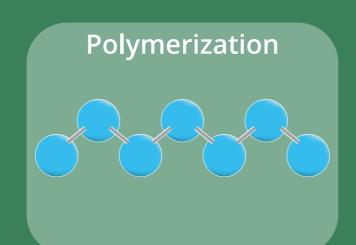
Alpha 1-antitrypsin (A1AT) deficiency caused by gene mutations is associated with lung and liver diseases

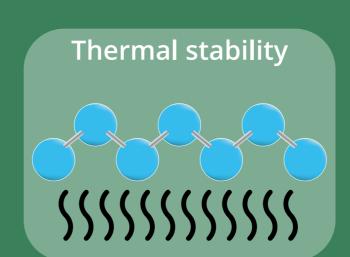


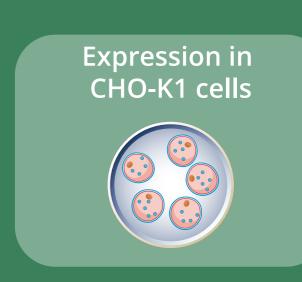
How does the occurrence of F51S change the conformation and stability of the A1AT?



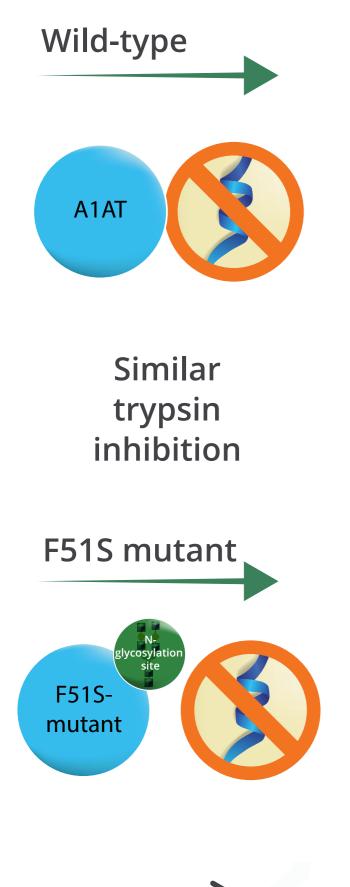


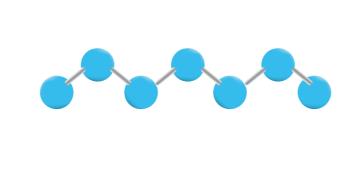


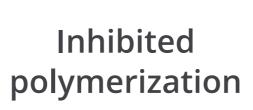


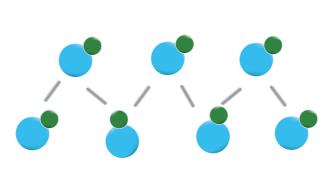


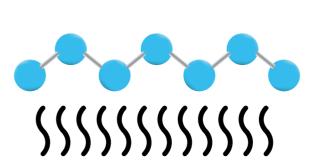
Compared to the wild-type A1AT, mutant A1AT had...



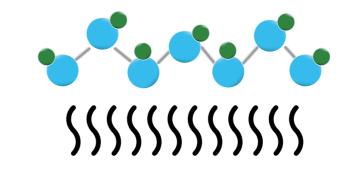


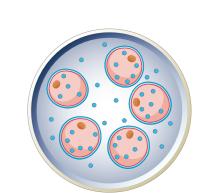




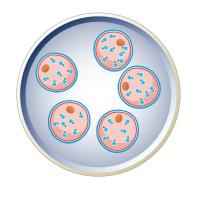


Lower thermal stability





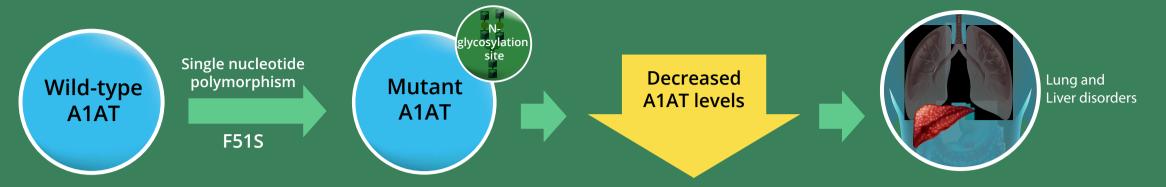
Inhibited secretion in CHO-K1 cells



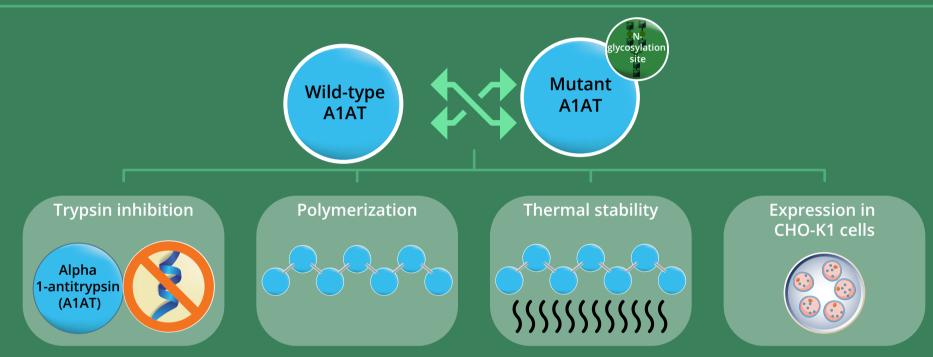
F51S mutation alters
A1AT conformation and secretion,
implying that it plays a role in A1AT
deficiency, and can aid researchers
in finding cures for lung and liver
diseases caused by A1AT deficiency.

## Characterizing the rare F51S mutation of alpha 1-antitrypsin

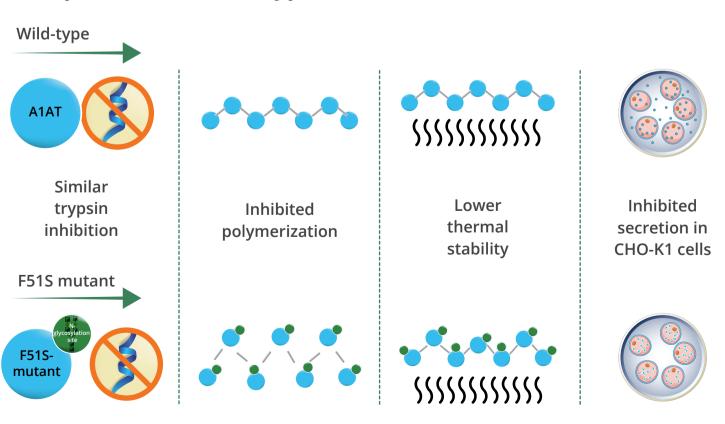
Alpha 1-antitrypsin (A1AT) deficiency caused by gene mutations is associated with lung and liver diseases



How does the occurrence of F51S change the conformation and stability of the A1AT?



#### Compared to the wild-type A1AT, mutant A1AT had...



F51S mutation alters
A1AT conformation and
secretion, implying that it
plays a role in A1AT
deficiency, and can aid
researchers in finding cures
for lung and liver diseases
caused by A1AT deficiency.

