

REDUCTION OF SULFADIAZINE RESIDUES BY CELL SURFACE DISPLAY LACCASE TECHNOLOGY IN POULTRY MANURE

PROBLEM

- Use of sulfadiazine residues in poultry breeding has become more popular in recent years
- This resulted in the bioaccumulation of antibiotics in farm animals and their wastes causing in environmental pollution
- Modern techniques that deal with this are costly and pollutive

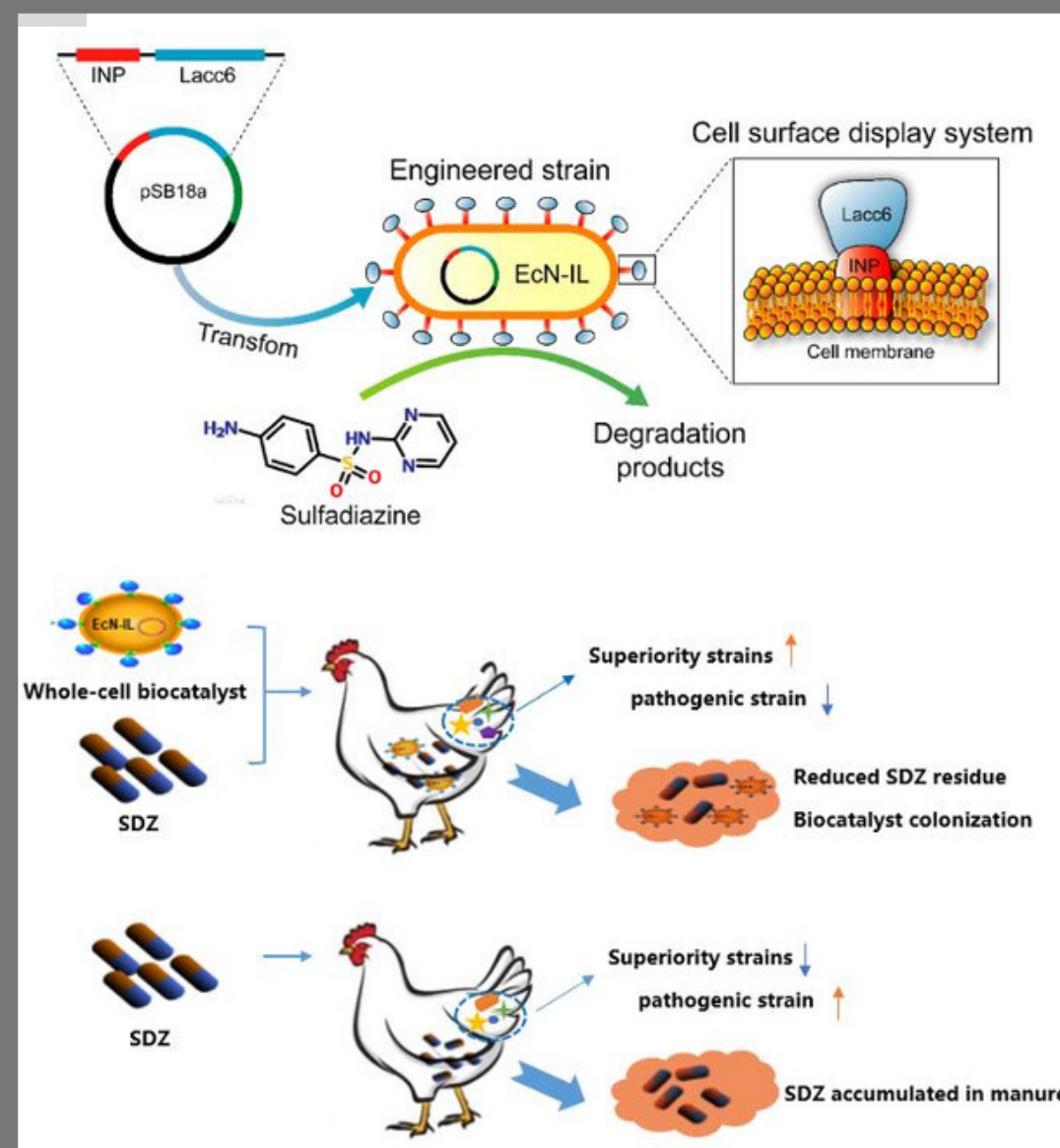
SOLUTION

The study from which our topic was derived provides a technique that shows laccase lacc 6 (originated from *Pleurotus ostreatus* HAUCC 162) through cell surface display technology - *Pleurotus ostreatus* HAUCC 162 is found on the surface of *E. coli* Nissle 1917 (EcN). The engineered strain serves as a whole-cell biocatalyst capable of degrading laccase.

ABOUT US

We are a team made up of students from all over the world. There are students ranging from grades 9-11, and we cherish the opportunity that IGEM has given us to get to know each other. We hope to take this experience as a chance to grow and develop not only in our interested majors but also overall as a well-rounded person. Even though there is still much to learn over the course of a few weeks, we still maintain high hopes for our results in the competition.

Design Process



—LZU-HS-China-C



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