A Novel Vaccine Candidate for Typhoid Fever

**OCR Number:** OCR 6185

**Description:**

- *Salmonella typhi* causes typhoid fever, infecting tens of millions and killing hundreds of thousands of people every year.
- The pathology is mediated by Typhoid toxin.
- Current vaccines are only about 70-75% effective overall ([CDC](https://www.cdc.gov/td/)).
- Need for more effective vaccines to prevent the contraction and spread of this disease.
- An inactivated version of the toxin can serve as the basis for the development of novel second-generation vaccines to treat typhoid fever.
- In *in vivo* murine studies, OCR 6185 conferred full protection against typhoid fever after inoculation with Typhoid toxin, as shown in figure.

![Graph showing percent survival over days after toxin treatment with WT toxin and PtB^{1335A} toxin](image.png)

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