Treatment of Bacterial Sepsis

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Description:

- This invention constitutes both the synthetic and natural-occurring glucose analogs for bacterial sepsis treatment.
- In one case, the analog can be 2-Deoxy-D-glucose (2DG) (Figure 1), a synthetic glucose analog that is widely used as a PET-CT imaging agent for cancer diagnosis.
- In another case, the analog can be mannoheptulose, a natural occurring glucose utilization inhibitor that can be found in avocado.
- Both glucose analogs prove to significantly improve the survival rate of mice suffering from bacterial sepsis, demonstrating their use as potential drugs or food supplements for treating bacterial septic patients.

- Intellectual property – A patent application has been filed.

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Figure 1. 2DG promotes survival during LPS sepsis