



## Blueport: Injectable Vaccine Portal

Researchers at Colorado State University have discovered a unique alternative to traditional vaccinations. When a small bolus of a specific insoluble bead is injected subcutaneously, the beads form a matrix that allows for the integration of vasculature. Similar to an artificial lymph node, the site has enhanced immune sensitivity. The material has a blue hue, making the site visible and inspiring the Blueport name. Within a couple of weeks the Blueport has full vasculature and several immune cell types are localized to the bolus. Antigen injected into the Blueport respond with immune responses similar to antigen + adjuvant combinations suggesting that an adjuvant would be unnecessary when vaccinating the Blueport. Also, in eradication campaigns the Blueport can act as a reporter, denoting those who have been vaccinated. The Blueport remains intact for months and can be easily removed by syringe once there is no longer a need for additional vaccinations.

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#### **Patent Information**

None filed yet, not disclosed.

#### **Inventor Information**

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#### **Publications**

None submitted

### **Features and Benefits**

- Takes the place of conventional adjuvants and maintains the enhanced immune activity.
- Immuno-stimulatory portal integrates into tissue within weeks, and can easily be removed.
- Provides an easily visible “spot” for public health vaccination plans and making the site of vaccine administration easily visible.



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