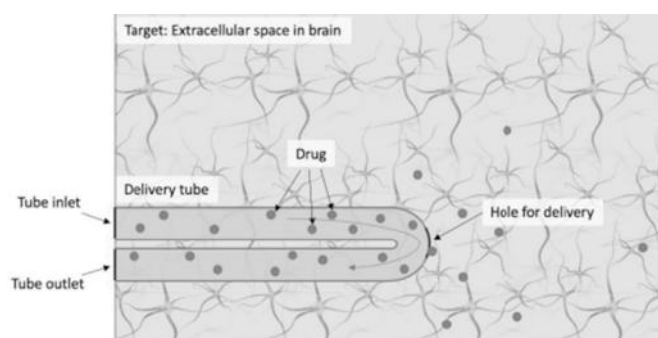


# Cellular scale implantable drug delivery device

Implantable drug delivery device to overcome blood brain barrier.

**Applications:** Drug delivery, Implantable, Neurological



| Features                                                                                                                                      | Benefits                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A circulation-type arrangement – device inlet and outlet are both located external to the body, with a delivery hole in the implantation area | Results in delivery of the medication via diffusion, rather than convection – hence is more efficient. Only a fraction of the carrier fluid exits the device |
| Cellular scale size                                                                                                                           | Mitigates potential for an immune response and allows for long term implantation                                                                             |
| Entire device is flexible                                                                                                                     | For ease of implantation and further reduction in foreign body response                                                                                      |
| Delivery hole sized and configured for desired molecule                                                                                       | So can be tailored for each specific use                                                                                                                     |
| Inbuilt sensors                                                                                                                               | Can detect the delivery of medication and the condition of a patient                                                                                         |

**Awaiting patent and Available for**

- Co-development
  - Consulting
  - Licensing
- 

To find out more, contact [enquiries@innovation.ox.ac.uk](mailto:enquiries@innovation.ox.ac.uk) and quote the project number.

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