

## TECHNOLOGY OFFER

# POC detection system for highly pathogenic avian influenza A/H5N1 virus

### Description:

An innovative, simple and fast Point-Of-Care diagnosis system to detect the influenza A/H5N1 viruses is under development. Laboratory data suggest that it might be possible to bind separately the human influenza A H5N1 virus and the highly pathogenic avian A H5N1 virus. Consequently two diagnosis test systems one for human and one veterinary use are in progress. On basis of the "lateral-flow principle" complete viruses are being bound including a reference virus. The hemagglutinin components of the viruses are captured by selective glycoprotein binding molecules which have been synthesized and further optimized, and immobilized on the strip. Detection of the viruses is performed by its neuraminidase activity which is measured by a specific selective fluorescence detection technology.

### Background:

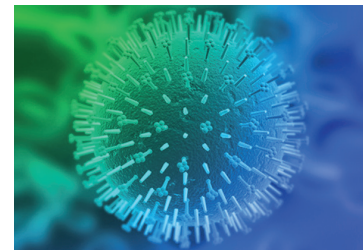
High pathogenic human and avian influenza A H5N1 viruses are a threat for human and veterinary populations. Therefore early detection of these viruses is an important instrument for health care.

### Potential Application:

- Human and avian influenza virus detection
- Fast and simple POC diagnosis system

### Benefits:

- Fast detection of highly pathogenic influenza A H5N1 viruses
- Distinguish between avian and human influenza A H5N1
- No compromises with regard to stability, storage or transport
- Potential for detection of various viruses



### IP Status:

EP20060119398  
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### Type of Co-Operation:

- License Agreement
- Ownership

### Keywords:

- Point-Of-Care
- Influenza A H5N1 subtype
- Diagnosis

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