Method And Device For Drug Discovery

INV-1253
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Description

Current drug discovery procedures, especially for the identification of natural compounds such as antibiotics, involve a cumbersome process for the tracing, isolation, and identification of target compounds along with assessment of their product chemistry. Moreover, such processes involve rediscovery of many known compounds. All of these limitations render the processes highly expensive and commercially impractical. **The proposed approach discloses a novel device and method for a simple and an efficient drug discovery, overcoming most prior art limitations.**

Value Proposition

The device/method:

- Is highly cost effective as compared to conventional techniques
- Is 100-1000 fold faster than conventional drug discovery approaches
- Comprises the use of microbial strains resistant to known antibiotics
- Enables an identification of the test source through its inhibition of otherwise resistant microbial strains
- Comprises the use of a microfluidic technology to prepare multi-well microtiter plates
- Would be additionally useful for screening novel compounds with anticancer and anti-inflammatory properties
- Would be commercially useful for isolation of novel biologically active compounds for large scale applications

Intellectual Property Status

Pending Utility Application 13/770,532

License Status

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