Device for Removal of Amylase from Body Fluids (Yissum)

code: 7-2007-1807

Aaron Palmon, HUJI, Faculty of Dental Medicine, Institute of dental sciences

Categories	Biomarkers, Diagnostics
Development Stage	Working prototype
Patent Status	Provisional patent filed
Market Size	The 2007 global market for biomarkers was $5.6 billion, increasing to over $12.8 billion by 2012, at a compound average annual growth rate (CAGR) of 18%.

Highlights

- Saliva is an easily obtainable body fluid to use when searching for disease biomarkers, hormones etc.
- Amylases constitute 60% of saliva fluids and mask the presence of other protein components
- Device removes amylase from oral and other body fluids to increase efficiency of analysis for other proteins . The device also enables if desired to obtain the amylase separately for any desired purpose
- Working prototype completed; characterization of results obtained from device needed

Our Innovation

- Device that removes amylase from saliva and other body fluids, such as sweat, lacrimal, gastro-intestinal, and pancreatic fluids, serum and urine. The device also enables to obtain the amylase separately

Key Features

- Low-cost, durable, easy-to-use device
- Provides higher volume of sample for analysis
- Removes broad spectrum of amylase
- Removes fluid debris, eliminating need for pre-separation treatment of sample

Development Milestones

- Characterization of results obtained from prototype

The Opportunity

- Possible applications in biomarker discovery, clinical trials and molecular diagnostics
- Biomarkers reduce time and cost for Phase I and II clinical trials by replacing clinical endpoints, producing over $200 million in revenue in 2007 and expected to quintuple in the next four years
- Biomarkers promise a smoother integration of diagnostics and therapeutics
- Biomarkers required for personalized medicine

Contact for more information:

Ariela Markel, VP, Business Development, Healthcare, +972-2-6586608

Yissum Research Development Company of the Hebrew University of Jerusalem
Hi-Tech Park, Edmond J. Safra Campus, Givat-Ram, Jerusalem P.O. Box 39135, Jerusalem 91390
Israel Telephone: 972-2-658-6688, Fax: 972-2-658-6689