

September 24, 2019

To All:

**Company name:** Human Metabolome Technologies, Inc.  
**(Code number:** 6090 TSE Mothers)

Human Metabolome Technologies, Inc. has concluded a joint research agreement with the University of California, San Francisco (UCSF), to identify biomarkers for mental illness.

Human Metabolome Technologies Inc., collectively, we plan to verify the metabolite PEA (Phosphoethanolamine), a major biomarker candidate for major depressive disorder (hereinafter “depression”), at other facilities. We are pleased to announce that we have signed a joint research agreement with Professor Owen Wolkowitz (<https://profiles.ucsf.edu/owen.wolkowitz>) and Professor Synthia Mellon ( <https://bms.ucsf.edu/faculty/synthia-mellon-phd>) both at the University of California, San Francisco (UCSF), for the following purposes:

Using PEA measurement technology owned by HMT, we will measure PEA in the plasma of patients with depression, healthy control subjects, and patient groups treated with various anti-depressants at the University of California, San Francisco (UCSF), and examine the clinical utility of PEA measurement as a diagnostic marker for MDD. In addition, using the above samples, we will conduct new biomarker search with our patented technology (CE-FTMS (Orbitrap MS)) owned by HMT.

HMT will continue to collaborate with domestic and overseas research institutions for the purpose of advancing clinical and academic research for mental illness.

There will be no undue impact on business performance.

\* Notes on UCSF, metabolomics analysis, and CE-FTMS will be included below.

**\* About Human Metabolome Technologies, Inc. (HMT)**

HMT is a bio-venture founded in 2003 based on the research results of the Institute for Advanced Life Sciences at Keio University in Tsuruoka City. We are promoting the development of clinical tests using biomarkers that objectively evaluate specific diseases and provide metabolite analysis services for researchers from companies and public research institutions. The company was listed on TSE Mothers in December 2013, the 10th anniversary of its founding. (<http://humanmetabolome.com/>)

**\*University of California Disclaimer**

The information stated above was prepared by HMT and reflects solely the opinion of the corporation. Nothing in this statement should be construed to imply any support or endorsement of HMT, or any of its products, by the Regents of the University of California, its officers, agents and employees.

**Inquiries about news**

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