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Oxford BioDynamics Plc
(**"OBD"** or the **"Company"** and, together with its subsidiaries, the **"Group"**)

OBD presents latest data on the use of *EpiSwitch*[™] in predicting patient response to immunotherapy and identifying lymphoma subtypes

- *EpiSwitch*[™] biomarkers have the potential to predict patient response to treatments with immune checkpoint inhibitors anti-PD-1 and anti-PD-L1
- *EpiSwitch*[™] biomarkers have been shown to offer prognostic stratifications in lymphoma patients
- Data presented at the ASH Summit on Emerging Immunotherapies for Hematologic Diseases on 13 July 2018, in Washington DC

Oxford BioDynamics Plc (AIM: OBD), a biotechnology company focused on the discovery and development of epigenetic biomarkers based on regulatory genome architecture, for use within the pharmaceutical and biotechnology industry, has presented its latest *EpiSwitch*[™] data in a plenary talk at the American Society of Hematology (ASH) Summit on Emerging Immunotherapies for Hematologic Diseases, 12-13 July 2018, Washington DC, entitled: "Chromosome Conformation Monitoring for Prognostic Stratifications of Non-responders to Cancer Immunotherapies: Deconvolution of Epigenetic data with *EpiSwitch*[™]."

Dr Alexandre Akoulitchev, Chief Scientific Officer of Oxford BioDynamics, presented data on prognostic blood-based stratifications of patients with a common type of Non-Hodgkin lymphoma, and on predictive biomarkers for response to treatment with immune checkpoint inhibitors anti-PD-1 and anti-PD-L1. Data presented from several indications successfully demonstrated that *EpiSwitch*[™] epigenetic biomarkers identified in patients' blood could help identify patients that will not respond adequately to anti-PD-1 or anti-PD-L1 monotherapy. Based on further analysis of more than 126 patients, this validation study demonstrated 94% accuracy in predicting response to the anti-PD-L1 treatment.

Immunotherapy, particularly immune checkpoint inhibitor PD-1/PD-L1 treatments, is a type of therapy that harnesses a person's immune system to fight cancer cells. Lymphomas represent a broad range of blood cancers based on diseases of white cells. While Hodgkin lymphomas show good response to immunotherapies, response and efficacy in other lymphomas remain modest at best. OBD is actively involved in the fast moving field of immunotherapy, with a number of proprietary and commercial studies based on immune checkpoint inhibitors, monotherapies and combination therapies, for a growing list of cancer types.

Through the development of epigenetic biomarkers, OBD's *EpiSwitch*[™] technology can help pharmaceutical and biotechnology companies bring drugs to the market sooner through personalising drugs to patients most likely to respond, delivering better clinical outcomes.

Dr Alexandre Akoulitchev, Chief Scientific Officer of Oxford BioDynamics, commented:

"There have been many exciting breakthroughs in the immunotherapy of cancerous and non-cancerous hematologic diseases, including immune checkpoint inhibitors. However, questions of safety and efficacy present significant challenges, with a high demand for molecular biomarkers that may help to predict clinical outcomes.



Our aim is to develop and deliver non-invasive prognostic biomarkers in this fast developing and competitive field, and we were pleased to present strong data at this ASH Summit. Our *EpiSwitch*[™] technology could stratify and predict which patients would not respond adequately to checkpoint inhibitor therapy, with high accuracy. We are very pleased with the interest our data have generated amongst the leaders in the field.

We believe that successful epigenetic stratifications of patients using *EpiSwitch*[™] biomarkers could help improve understanding of the regulatory mechanisms in blood disorders, gain valuable insights into new targets and treatment designs, as well as help improve patients outcomes by supporting clinical decisions on the most appropriate and effective treatment option.”

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Notes for Editors

About Oxford BioDynamics Plc

Oxford BioDynamics Plc (AIM: OBD) ("Oxford BioDynamics") is a biotechnology company focused on the discovery and development of epigenetic biomarkers for use within the pharmaceutical and biotechnology industry.

The Company's award-winning, proprietary technology platform, *EpiSwitch*[™], aims to accelerate the drug discovery and development process, improve the success rate of therapeutic product development and take advantage of the increasing importance of personalised medicine.

In particular, *EpiSwitch*[™] can reduce time to market, failure rates and the costs at every stage of drug discovery. Additionally, the technology provides significant insights into disease mechanisms for drug discovery and product re-positioning programmes, and enables the personalisation of therapeutics for patients in the context of challenging pricing environments where improved clinical outcomes are critical.

Oxford BioDynamics is headquartered in the UK, and listed on the London Stock Exchange's AIM under the ticker "OBD". For more information please visit www.oxfordbiodynamics.com.