OSE Immunotherapeutics Receives New European Patent Protection Through 2037 for OSE-703, a Cytotoxic Monoclonal Antibody Targeting IL-7R, in Cancer Patients

Nantes, France, September 3, 2019 – 6 p.m. CET - OSE Immunotherapeutics (ISIN: FR0012127173; Euronext: OSE) today announces the grant of a new patent from the European Patent Office (EPO) strengthening the protection covering OSE-703, a humanized monoclonal antibody directed against the extracellular domain of the alpha-chain of the receptor for interleukin-7 (CD127) making it cytotoxic for human cells expressing CD127, and its use thereof in immuno-oncology treatment.

The new patent covers OSE-703 until at least 2037. This is the first patent granted in Europe for OSE-703 and represents a major step in strengthening the product's protection. Additionally, this patent should facilitate the granting of additional patents in other major territories covered by the same patent family.

"We are very pleased with this first European patent that simultaneously reinforces OSE-703 intellectual property and its position in our portfolio as an IL-7R directed immunotherapy for cancer treatment," commented Alexis Peyroles, chief executive officer of OSE Immunotherapeutics.

OSE-703 is being explored preclinically in collaboration with Memorial Sloan Kettering Cancer Center to define its efficacy profile and potential development strategy for solid tumors with non-small cell lung cancer (NSCLC) and mesothelioma as primary models. The research program is conducted by physician-scientist Prasad S. Adusumilli, M.D., FACS, an expert in tumor immunology with a focus on the development of chimeric antigen receptor T-cell (CAR T-cell) immunotherapy.

ABOUT OSE-703

OSE-703 is a humanized monoclonal antibody directed against the extracellular domain of the alpha-chain of the receptor for interleukin-7, cytotoxic for human cells expressing CD127. Interleukin-7 (IL7) is an immune mediator known for its key role in the hematopoietic growth of T- and B-lymphocytes. Despite a theoretical anti-tumor effect, the aberrant expression of IL7 receptor (IL7R) in different types of cancer has been associated with poor prognosis (*K. Suzuki, J Clin Oncol, 2013*) and it has been demonstrated that IL7 and the presence of IL7R can have a pro-tumor effect in various cancers by decreasing cancer cell apoptosis or accelerating cell proliferation and lympho-vascular formation (*J. Lin et al., Anticancer Research, 2017*).

ABOUT OSE Immunotherapeutics

OSE Immunotherapeutics is a clinical-stage biotechnology company focused on developing and partnering therapies to control the immune system for immuno-oncology and autoimmune diseases. The company has a diversified first-in-class clinical portfolio consisting of several scientific and technological platforms including neoepitopes and agonist or antagonist monoclonal antibodies, all ideally positioned to fight cancer and autoimmune diseases. The most advanced therapeutic-candidate, Tedopi®, is a proprietary combination of 10 neo-epitopes aimed at stimulating T-lymphocytes and is currently in Phase 3 development in non-small cell lung cancer (NSCLC) after checkpoint inhibitor failure (anti PD-1 and anti PD-L1) and in Phase 2 testing in pancreatic cancer in combination with checkpoint inhibitor Opdivo®. BI 765063 (OSE-172) (anti-SIRPa monoclonal antibody) is under a license and collaboration agreement with Boehringer Ingelheim; this checkpoint inhibitor is currently under Phase 1 clinical trial

in advanced solid tumors. BiCKI® is a bispecific fusion protein platform built on the key backbone component anti-PD-1 (OSE-279) and targeting innovative targets. FR104 (an anti-CD28 mAb) has successfully completed Phase 1 testing and has potential to treat autoimmune diseases. OSE-127 (monoclonal antibody targeting the CD127 receptor, the alpha chain of the interleukin-7 receptor) is partnered with Servier under an option agreement up to the completion of a Phase 2 clinical trial planned in autoimmune bowel diseases; in parallel, Servier plans a development in the Sjögren syndrome. OSE-127 is currently under Phase 1 clinical trial.

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Forward-looking statements

This press release contains express or implied information and statements that might be deemed forward-looking information and statements in respect of OSE Immunotherapeutics. They do not constitute historical facts. These information and statements include financial projections that are based upon certain assumptions and assessments made by OSE Immunotherapeutics' management in light of its experience and its perception of historical trends, current economic and industry conditions, expected future developments and other factors they believe to be appropriate.

These forward-looking statements include statements typically using conditional and containing verbs such as "expect", "anticipate", "believe", "target", "plan", or "estimate", their declensions and conjugations and words of similar import. Although the OSE Immunotherapeutics management believes that the forward-looking statements and information are reasonable, the OSE Immunotherapeutics' shareholders and other investors are cautioned that the completion of such expectations is by nature subject to various risks, known or not, and uncertainties which are difficult to predict and generally beyond the control of OSE Immunotherapeutics. These risks could cause actual results and developments to differ materially from those expressed in or implied or projected by the forward-looking statements. These risks include those discussed or identified in the public filings made by OSE Immunotherapeutics with the AMF. Such forward-looking statements are not guarantees of future performance. This press release includes only summary information and should be read with the OSE Immunotherapeutics Reference Document filed with the AMF on 26 April 2019, including the annual financial report for the fiscal year 2018, available on the OSE Immunotherapeutics' website.

Other than as required by applicable law, OSE Immunotherapeutics issues this press release at the date hereof and does not undertake any obligation to update or revise the forward-looking information or statements.