OSE Immunotherapeutics Announces New European Patent Granted Covering CLEC-1, Novel Myeloid Immune Checkpoint Target For Cancer Immunotherapy

- ***A new protection covering CLEC-1 antagonists until 2037***
- ***Patent also granted in Japan and notice of allowance granted in the US***

Nantes, France – May 2, 2022, 7:30am CET – OSE Immunotherapeutics SA (ISIN: FR0012127173; Mnemo: OSE) today announced the grant of a new patent from the European Patent Office (EPO) strengthening the protection covering its novel myeloid cell immune checkpoint target, CLEC-1 (a C-type lectin receptor), and its use in cancer treatment. This patent provides a protection until 2037.

CLEC-1 is a C-type lectin receptor with demonstrated potential to inhibit the functions of myeloid cells and to block anti-tumor responsiveness of T-lymphocytes. Myeloid cells have the ability to accumulate in the tumor microenvironment and deregulate the immune activation of T-lymphocytes. CLEC-1 is a new therapeutic target of interest in immuno-oncology.

Dominique Costantini, Chief Executive Officer of OSE Immunotherapeutics, comments: *"This European patent is a major step that provides products targeting CLEC-1 a strong intellectual property and a broad scope as it notably covers the use of antagonist antibodies targeting CLEC-1 in cancer treatment. The patent has been extended to other major territories with the notice of allowance already granted in the United States and the patent granted in Japan."*

Nicolas Poirier, Chief Scientific Officer of OSE Immunotherapeutics adds*: "Based on our fruitful collaboration with the CR2TI research team*, we now have preclinical results identifying CLEC-1 and its antagonists as an innovative immunotherapy that releases the brakes on macrophage phagocytosis and dendritic cells antigen presentation and demonstrates synergistic anti-cancer effects, in particular when combined with chemotherapy. The latest preclinical efficacy data open the pathway for the development of monoclonal antagonist antibodies targeting new myeloid checkpoint inhibitor target CLEC-1, and for future translational clinical development of an innovative cancer immunotherapy."*

**Collaborative program between OSE Immunotherapeutics and Dr Elise Chiffoleau's (https://cr2ti.univ-nantes.fr/research/team-1) research teams (Center for Research in Transplantation and Translational Immunology (CR2TI), UMR1064, INSERM, Nantes University at Nantes University Hospital).*

ABOUT OSE Immunotherapeutics

OSE Immunotherapeutics is an integrated biotechnology company focused on developing and partnering therapies to control the immune system for Immuno-Oncology and Immuno-Inflammation. Its balanced first-in-class clinical and preclinical portfolio has a diversified risk profile:

Immuno-Oncology first-in-class products

- **Tedopi®** (innovative neoepitope combination): the Company's most advanced product; positive results for Phase 3 trial (Atalante 1) in Non-Small Cell Lung Cancer patients in secondary resistance after checkpoint inhibitor failure.
  Other ongoing combination trials sponsored by cooperative clinical research groups in oncology:
  Phase 2 in pancreatic cancer (TEDOPaM), sponsor GERCOR.
  Phase 2 in ovary cancer, in combination with pembrolizumab (TEDOVA), sponsor ARCAGY-GINECO.
  Phase 2 in non-small cell lung cancer in combination with nivolumab, sponsor Italian foundation FoRT.
- **BI 765063** (OSE-172, anti-SIRPα mAb on CD47/SIRPα pathway): developed in partnership with Boehringer Ingelheim in advanced solid tumors; positive Phase 1 dose escalation results of BI 765063 in monotherapy and in combination with ezabenlimab (PD-1 antagonist); ongoing expansion Phase 1.
- **OSE-279**, anti-PD1 – advanced preclinical stage.
- **BiCKI®**: bispecific fusion protein platform built on the key backbone component of anti-PD1 combined with a new immunotherapy target (for example: BiCKI®-IL7, preclinical stage) to increase anti-tumor efficacy.

Immuno-Inflammation first-in-class products

- **OSE-127/S95011** (humanized monoclonal antibody antagonist of IL-7 receptor): developed in partnership with Servier; positive Phase 1 results; ongoing Phase 2 in ulcerative colitis (sponsor OSE) and ongoing Phase 2a in Sjögren's syndrome (sponsor Servier).
- **FR104** (anti-CD28 monoclonal antibody): licensing partnership agreement with Veloxis Pharmaceuticals, Inc. in transplantation; ongoing Phase 1/2 in renal transplant (sponsored by the Nantes University Hospital); US IND obtained by Veloxis Pharmaceuticals, Inc. for a clinical trial; Phase 2 planned in an autoimmune disease indication.
- **OSE-230** (ChemR23 agonist mAb): preclinical stage therapeutic agent with the potential to resolve chronic inflammation by driving affected tissues to tissue integrity.

CoVepiT: a prophylactic second-generation vaccine activating cytotoxic T lymphocytes against COVID-19, developed using optimized epitopes from SARS-CoV2 viral proteins, epitopes non impacted by multi-variants. Shows good tolerance and very good level of T cell immune response. In clinical testing, a long-term memory response was confirmed at 6 months.

For more information: https://ose-immuno.com/en/
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