PRESS RELEASE

Onxeo to Present Five Preclinical Studies Highlighting AsiDNA™ Unique Profile and its clinical potential in Oncology at 2019 American Association for Cancer Research Annual Meeting

Paris (France), February 13, 2019 – 6.00 pm CET - Onxeo S.A. (Euronext Paris, NASDAQ Copenhagen: ONXEO), ("**Onxeo**" or "the **Company**"), a clinical-stage biotechnology company specializing in the development of innovative drugs targeting tumor DNA Damage response (DDR) in oncology, in particular against rare or resistant cancers, today announced that results of five preclinical study supporting the differentiated profile of AsiDNA™, its first-in-class DNA Damage Response (DDR) inhibitor, including insights into the compound's unique mechanism of action, will be presented at the upcoming American Association for Cancer Research (AACR) Annual Meeting being held March 29 - April 3, 2019, in Atlanta, GA, USA.

Françoise Bono, PhD, Chief Scientific Officer, commented: *"We are thrilled to have had five AsiDNA™-related abstracts accepted for presentation at this prestigious meeting of oncology, including 2 abstracts resulting from our long-standing collaboration with Institut Curie, an internationally recognized research institution. The study to be presented notably support the absence of the emergence of resistance to AsiDNA™ after repeated treatments and the abrogation of acquired resistance to PARP inhibitors when administered in combination with AsiDNA™, two properties that make AsiDNA™ so distinctive and sustain its promising potential for future utilization in clinic. New data also provide valuable insights into the underlying mechanisms supporting these unique outcomes and their potential benefits in oncology. Furthermore, we have identified predictive biomarkers of sensitivity to AsiDNA™, a strong advantage to optimize its clinical development and which could, ultimately, open the way to personalized medicine with AsiDNA™. Lastly, these results expand the solid preclinical package on AsiDNA™, further support the strong rationale for its ongoing development in the clinical setting and confirm its interest and its value in our company portfolio."*

Titles of the five abstracts to be presented during poster sessions are:

- AsiDNA™, a targeted therapy with no acquired resistance
- AsiDNA™ abrogates acquired resistance to PARP inhibitors
- Molecular analysis of the mechanism of action of AsiDNA™ brings new clues on DNA damage response regulation
- Development of a biomarker-driven patient selection strategy for AsiDNA™ treatment (*in collaboration with Institut Curie*)
- AsiDNA™, a novel DNA repair inhibitor to sensitize aggressive medulloblastoma subtypes (*Institut Curie*)

Details on the date, time and location of the sessions during the congress will be provided when available.

About Onxeo

Onxeo (Euronext Paris, NASDAQ Copenhagen: ONXEO) is a French biotechnology company developing innovative oncology drugs based on DNA-targeting and epigenetics, two of the most sought-after mechanisms of action in cancer treatment today. The Company is focused on bringing early-stage first-in-class or disruptive compounds (proprietary, acquired or in-licensed) from translational research to clinical proof-of-concept, a value-creating inflection point appealing to potential partners.

Onxeo is developing **AsiDNA™**, a first-in-class and highly differentiated tumor DNA Damage Response inhibitor, based on an original decoy and agonist mechanism that acts upstream of multiple DDR pathways. Translational studies have demonstrated unique properties of AsiDNA ™, including an increasing sensitivity of tumor cells to AsiDNA™ after repeated treatment with AsiDNA ™ and the ability to stop and even reverse the resistance of tumor cells to PARP inhibitors, regardless the genetic mutation status. AsiDNA™ has also shown strong synergy with other tumor DNA damaging agents such as chemotherapies or PARP inhibitors. The

ongoing Phase I study DRIIV-1 (DNA Repair Inhibitor-administered IntraVenously) evaluates AsiDNA™ by systemic administration (IV) in solid tumors and has recently produced favorable tolerability and activity results.

AsiDNA™ is the first compound generated from **platON™**, the Company's proprietary chemistry platform of decoy oligonucleotides. PlatON™ will continue to generate innovative compounds targeting tumor DNA-binding functions and broaden Onxeo's pipeline.

Onxeo's R&D pipeline also includes **belinostat**, an HDAC inhibitor (epigenetics). Belinostat is already conditionally FDA-approved in the US as a 2nd line treatment for patients with peripheral T cell lymphoma and marketed in the US by Onxeo's partner, Spectrum Pharmaceuticals, under the name Beleodaq® (belinostat IV form).

For further information, please visit www.onxeo.com.

Forward looking statements

This communication expressly or implicitly contains certain forward-looking statements concerning Onxeo and its business. Such statements involve certain known and unknown risks, uncertainties and other factors, which could cause the actual results, financial condition, performance or achievements of Onxeo to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Onxeo is providing this communication as of this date and does not undertake to update any forward-looking statements contained herein as a result of new information, future events or otherwise. For a discussion of risks and uncertainties which could cause actual results, financial condition, performance or achievements of Onxeo to differ from those contained in the forward-looking statements, please refer to the section 5.7.1.4 "Risk Factors" ("*Facteurs de Risque*") of the 2017 registration document filed with the *Autorité des marchés financiers* on April 25, 2018 under number D.18-0389, which is available on the *Autorité des marchés financiers* website (www.amf-france.org) or on the Company's website (www.onxeo.com).

Contacts

Onxeo
Valerie Leroy,
Investor Relations
investors@onxeo.com
+33 1 45 58 76 00

Media Relations
Nicolas Merigeau
NewCap
onxeo@newcap.eu
+33 1 44 71 94 98

Investor Relations / Strategic Communication
Dušan Orešanský / Emmanuel Huynh
NewCap
onxeo@newcap.eu
+33 1 44 71 94 92

Investor Relations US
Brian Ritchie
LifeSci Advisors
britchie@lifesciadvisors.com
+1 212 915 2578