Iovance Biotherapeutics to Present Data on Tumor-Infiltrating Lymphocyte (TIL) Cell Therapy at the 2022 Tandem Meetings | Transplantation & Cellular Therapy Meetings of ASTCT™ and CIBMTR®

January 7, 2022

TIL Therapy was Successfully and Consistently Manufactured from Cryopreserved Tumor Samples Shipped from Australia

Local Cryopreservation of Tumor Samples may Address Challenges of Longer Shipment Times and Broaden Global Access for TIL Therapy

SAN CARLOS, Calif., Jan. 07, 2022 (GLOBE NEWSWIRE) -- Iovance Biotherapeutics, Inc. (NASDAQ: IOVA), a late-stage biotechnology company developing novel T cell-based cancer immunotherapies, will present data on Iovance tumor-infiltrating lymphocyte (TIL) cell therapy at the upcoming Tandem Meetings | Transplantation & Cellular Therapy Meetings of ASTCT™ and CIBMTR®, to be held February 2 – 6, 2022 in Salt Lake City, Utah, and virtually. Details for the abstracts are as follows:

Title: Successful Manufacturing of Tumor-Infiltrating Lymphocyte (TIL) Cell Therapy from Cryopreserved Melanoma Tumors Shipped from Australia
Presenting Author: Anandaraman Veerapathran**,** Iovance Biotherapeutics
Presentation Type: Poster
Abstract ID: 287

Title: Decitabine Treatment of Tumor-Infiltrating Lymphocytes (TIL) during Ex Vivo Expansion Induces a More Memory-like Phenotype, Reduces Inhibitory Receptor Expression, and Increases Functionality
Presenting Author: Rafael Cubas, Iovance Biotherapeutics
Presentation Type: Poster
Abstract ID: 270

Poster Display Hours: Wednesday, February 2, 2022 from 10:00 am to 8:00 pm; Thursday, February 3, 2022 from 7:00 am to 8:15 pm; Friday, February 4, 2022 from 7:00 am to 8:00 pm; and Saturday, February 5, 2022 from 7:00 am to 7:45 pm (all times MST)

Poster Receptions: Thursday, February 3, 2022 from 6:45 pm to 8:15 pm MST and Saturday, February 5, 2022 from 6:15 pm to 7:45 pm MST

About Iovance Biotherapeutics, Inc.

Iovance Biotherapeutics aims to be the global leader in innovating, developing and delivering tumor infiltrating lymphocyte (TIL) cell therapies for patients with cancer. We are pioneering a transformational approach to cure cancer by harnessing the human immune system's ability to recognize and destroy diverse cancer cells in each patient. Our lead late-stage TIL product candidate, lifileucel for metastatic melanoma, has the potential to become the first approved one-time cell therapy for a solid tumor cancer. The Iovance TIL platform has demonstrated promising clinical data across multiple solid tumors. We are committed to continuous innovation in cell therapy, including gene-edited cell therapy, that may extend and improve life for patients with cancer. For more information, please visit www.iovance.com.

Forward-Looking Statements

Certain matters discussed in this press release are "forward-looking statements" of Iovance Biotherapeutics, Inc. (hereinafter referred to as the "Company," "we," "us," or "our") within the meaning of the Private Securities Litigation Reform Act of 1995 (the "PSLRA"). All such written or oral statements made in this press release, other than statements of historical fact, are forward-looking statements and are intended to be covered by the safe harbor for forward-looking statements provided by the PSLRA. Without limiting the foregoing, we may, in some cases, use terms such as "predicts," "believes," "potential," "continue," "estimates," "anticipates," "expects," "plans," "intends," "forecast," "guidance," "outlook," "may," "could," "might," "will," "should" or other words that convey uncertainty of future events or outcomes and are intended to identify forward-looking statements. Forward-looking statements are based on assumptions and assessments made in light of management's experience and perception of historical trends, current conditions, expected future developments and other factors believed to be appropriate. Forward-looking statements in this press release are made as of the date of this press release, and we undertake no duty to update or revise any such statements, whether as a result of new information, future events or otherwise. Forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties and other factors, many of which are outside of our control, that may cause actual results, levels of activity, performance, achievements and developments to be materially different from those expressed in or implied by these forward-looking statements. Important factors that could cause actual results, developments and business decisions to differ materially from forward-looking statements are described in the sections titled "Risk Factors" in our filings with the Securities and Exchange Commission, including our most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, and include, but are not limited to, the following substantial known and unknown risks and uncertainties inherent in our business: the effects of the COVID-19 pandemic; risks related to the timing of and our ability to successfully develop, submit, obtain and maintain U.S. Food and Drug Administration ("FDA") or other regulatory authority approval of, or other action with respect to, our product candidates, and our ability to successfully commercialize any product candidates for which we obtain FDA approval; preliminary and interim clinical results, which may include efficacy and safety results, from ongoing clinical trials or cohorts may not be reflected in the final analyses of our ongoing clinical trials or subgroups within these trials or in other prior trials or cohorts; the risk that enrollment may need to be adjusted for our trials and cohorts within those trials based on FDA and other regulatory agency input; the new version of the protocol which further defines the patient population to include more advanced patients in our cervical cancer trial may have an adverse effect on the results reported to date; the risk that we may be required to conduct additional clinical trials or modify ongoing or future clinical trials based on feedback from the FDA or other regulatory authorities; the risk that our interpretation of the results of our clinical trials or communications with the FDA may differ from the interpretation of such results or communications by the FDA; the acceptance by the market of our product candidates and their potential reimbursement by payors, if approved; our ability or inability to manufacture our therapies using third party manufacturers or our own facility may adversely affect our potential commercial launch; the results of clinical trials with

collaborators using different manufacturing processes may not be reflected in our sponsored trials; the risk that unanticipated expenses may decrease our estimated cash balances and forecasts and increase our estimated capital requirements; and other factors, including general economic conditions and regulatory developments, not within our control.

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Source: Iovance Biotherapeutics, Inc.