STAR-T Pivotal Trial Results to Be Featured as a Late-Breaking Presentation at the 2024 American Association for Thoracic Surgery Annual Meeting

April 17, 2024

PRINCETON, N.J., April 17, 2024 (GLOBE NEWSWIRE) -- CytoSorbents Corporation (NASDAQ: CTSO), a leader in the treatment of life-threatening conditions in the intensive care unit and cardiac surgery using blood purification via its proprietary polymer adsorption technology, today announced that topline results from its pivotal U.S. and Canadian Safe and Timely Antithrombotic Removal of Ticagrelor (STAR-T) randomized controlled trial will be featured as a late-breaking clinical trial presentation at the 104th Annual Meeting of the American Association for Thoracic Surgery (AATS), taking place Friday, April 26 through Tuesday, April 30, 2024 in Toronto, ON, Canada.
Details of the STAR-T presentation are as follows:

104th American Association for Thoracic Surgery Annual Meeting
Session: Adult Cardiac Scientific Session: Trials and Trends
Title: A Pivotal Randomized, Sham-controlled Trial Examining the Safety And Efficacy of Intraoperative Removal of Ticagrelor In Patients Undergoing Urgent Cardiac Surgery
Presenter: Michael J. Mack, M.D.
Session presentation date & time: April 28, 2024 at 7:30-9:00 AM EDT
Location: Metro Toronto Convention Center, Room 718B

Following the presentation at AATS, CytoSorbents will be hosting a Virtual KOL and Investor Day on Monday, May 6th at 11:30 AM to provide a review of the STAR-T pivotal trial results by the study's Principal Investigators. Additionally, the program will feature a discussion of real-world usage of CytoSorb®, that uses an equivalent polymer technology to DrugSorb-ATR and is already approved for this application in the European Union. Click here for more details and to register.

About CytoSorbents Corporation (NASDAQ: CTSO)

CytoSorbents Corporation is a leader in the treatment of life-threatening conditions in the intensive care unit and in cardiac surgery through blood purification. Its lead product, CytoSorb®, is approved in the European Union and distributed in 75 countries worldwide. It is an extracorporeal cytokine adsorber that reduces "cytokine storm" or "cytokine release syndrome" in common critical illnesses that can lead to massive inflammation, organ failure and patient death. In these diseases, the risk of death can be extremely high, and there are few, if any, effective treatments. CytoSorb is also used during and after cardiothoracic surgery to remove antithrombotic drugs and inflammatory mediators that can lead to postoperative complications, including severe bleeding and multiple organ failure. At the end of 2023, more than 228,000 CytoSorb devices had been used cumulatively. CytoSorb was originally launched in the European Union under CE mark as the first cytokine adsorber. Additional CE mark extensions were granted for bilirubin and myoglobin removal in clinical conditions such as liver disease and trauma, respectively, and for ticagrelor and rivaroxaban removal in cardiothoracic surgery procedures. CytoSorb has also received FDA Emergency Use Authorization in the United States for use in adult critically ill COVID-19 patients with impending or confirmed respiratory failure. The DrugSorb™-ATR antithrombotic removal system, based on the same polymer technology as CytoSorb, also received two FDA Breakthrough Device Designations, one for the removal of ticagrelor and another for the removal of the direct oral anticoagulants (DOAC) apixaban and rivaroxaban in a cardiopulmonary bypass circuit during urgent cardiothoracic procedures. The Company has completed the FDA-approved, randomized, controlled STAR-T (Safe and Timely Antithrombotic Removal-Ticagrelor) study of 140 patients at approximately 30 centers in U.S. and Canada to evaluate whether intraoperative use of DrugSorb-ATR can reduce the perioperative risk of bleeding in patients receiving ticagrelor and undergoing cardiothoracic surgery. This pivotal study is intended to support U.S. FDA and Health Canada marketing approval for DrugSorb-ATR in this application.

CytoSorbents' purification technologies are based on biocompatible, highly porous polymer beads that can actively remove toxic substances from blood and other bodily fluids by pore capture and surface adsorption. Its technologies have received non-dilutive grant, contract, and other funding of approximately $50 million from DARPA, the U.S. Department of Health and Human Services (HHS), the National Institutes of Health (NIH), National Heart, Lung, and Blood Institute (NHLBI), the U.S. Army, the U.S. Air Force, U.S. Special Operations Command (SOCOM), Air Force Material Command (USAF/AFMC), and others. The Company has numerous marketed products and products under development based upon this unique blood purification technology protected by many issued U.S. and international patents and registered trademarks, and multiple patent applications pending, including ECOS-300CY®, CytoSorb-XL™, HemoDefend-RBC™, HemoDefend-BGA™, VetRes®, K+ontrol™, DrugSorb™, ContrastSorb and others. For more information, please visit the Company's websites at www.cytosorbents.com and www.cytosorb.com or follow us on Facebook and X (fka Twitter).

Forward-Looking Statements

This press release includes forward-looking statements intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, but are not limited to, statements about our plans, objectives, future targets and outlooks for our business, including our future sales goals and targets, expectations regarding the future impacts of COVID-19 or the ongoing conflict between Russia and the Ukraine, statements about our growth opportunities, statements regarding the expected impacts of our cost cutting measures, statements about the results of our STAR-T clinical trial and regulatory submissions relating thereto, representations and contentions, and are not historical facts and typically are identified by use of terms such as "may," "should," "could," "expect," "plan," "anticipate," "believe," "estimate," "predict," "potential," "continue" and similar words, although some forward-looking statements are expressed differently. You should be aware that the forward-looking statements in this press release represent management's current judgment and expectations, but our actual results, events and performance could differ materially from those in the forward-looking statements. Factors which could cause or contribute to such differences include, but are not limited to, the risks discussed in our Annual Report on Form 10-K, filed with the SEC on March 14, 2024, as updated by the risks reported

in our Quarterly Reports on Form 10-Q, and in the press releases and other communications to shareholders issued by us from time to time which attempt to advise interested parties of the risks and factors which may affect our business. We caution you not to place undue reliance upon any such forward-looking statements. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, other than as required under the Federal securities laws.

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