

# Cytokinetics Announces Presentation of Additional Results From COSMIC-HF at the HFSA 21st Annual Scientific Meeting

September 18, 2017 11:30 AM EDT

# Effects of Omecamtiv Mecarbil Were Similar in Patients with Ischemic and Non-Ischemic Heart Failure

SOUTH SAN FRANCISCO, Calif., Sept. 18, 2017 (GLOBE NEWSWIRE) -- Cytokinetics, Incorporated (Nasdaq:CYTK) today announced that additional results from COSMIC-HF (Chronic Oral Study of Myosin Activation to Increase Contractility in Heart Failure), a Phase 2 trial evaluating omecamtiv mecarbil in patients with chronic heart failure, were presented in a Rapid Fire Abstracts Presentation at the 21<sup>st</sup> Annual Heart Failure Society of America Scientific Meeting in Dallas, Texas. The results, presented by John Teerlink, M.D., Professor of Clinical Medicine at the University of California San Francisco and Director of Heart Failure at the San Francisco Veterans Affairs Medical Centers, suggest that omecamtiv mecarbil may produce similar results with regard to cardiac function, heart rate, biomarkers and adverse events in patients with ischemic and non-ischemic etiology of heart failure. Omecamtiv mecarbil, a novel investigational cardiac myosin activator that increases cardiac contractility, is being developed by Amgen in collaboration with Cytokinetics for the potential treatment of heart failure.

"We are pleased to see that the effects of *omecamtiv mecarbil* in patients with heart failure appeared similar regardless of disease etiology in COSMIC-HF," said Fady I. Malik, MD, PhD, Cytokinetics' Executive Vice President, Research and Development. "In GALACTIC-HF, we look forward to learning if these effects may translate into meaningful improvement in clinical outcomes in patients with heart failure."

#### **COSMIC-HF: Expansion Phase Design and Results**

The expansion phase of COSMIC-HF evaluated the pharmacokinetics, pharmacodynamics, safety and tolerability of oral *omecamtiv mecarbil* in 448 patients with chronic heart failure and left ventricular systolic dysfunction. Patients were randomized 1:1:1 to receive either placebo or treatment with *omecamtiv mecarbil* dosed as 25 mg twice daily or 25 mg twice daily with dose escalation to 50 mg twice daily, depending on a plasma concentration of *omecamtiv mecarbil* after two weeks of treatment. Results of COSMIC-HF, published in *The Lancet*, showed that the clinical trial met its primary pharmacokinetic objective and showed statistically significant improvements in all pre-specified secondary measures of cardiac function in the treatment group receiving pharmacokinetic-based (PK) dose titration.

Recent secondary analyses of data from COSMIC-HF evaluated the effects of *omecamtiv mecarbil* in patients with ischemic heart failure and those with non-ischemic heart failure, 64 percent and 36 percent of the trial population, respectively. The analyses suggest that *omecamtiv mecarbil* produced similar findings with regard to its pharmacodynamic response including cardiac function and ventricular size, heart rate, and NT-proBNP in patients with both ischemic and non-ischemic etiologies of heart failure. There was no difference in the mean change from baseline in troponin after 20 weeks of therapy between the ischemic and non-ischemic PK-dose titration groups that received *omecamtiv mecarbil*. Overall and cardiac adverse events were similar between the placebo and PK-dose titration groups for patients with ischemic and non-ischemic etiologies. Further studies are needed to confirm these preliminary findings.

#### About Omecamtiv Mecarbil

Omecamtiv mecarbil is a novel cardiac myosin activator. Cardiac myosin is the cytoskeletal motor protein in the cardiac muscle cell that is directly responsible for converting chemical energy into the mechanical force resulting in cardiac contraction. Cardiac myosin activators are thought to accelerate the rate-limiting step of the myosin enzymatic cycle and shift the enzymatic cycle in favor of the force-producing state. Preclinical research has shown that cardiac myosin activators increase contractility in the absence of changes in intracellular calcium in cardiac myocytes. Omecamtiv mecarbil is being developed by Amgen in collaboration with Cytokinetics. Amgen holds an exclusive, worldwide license to omecamtiv mecarbil and compounds, subject to Cytokinetics' specified development and commercialization rights. Amgen has also entered an alliance with Servier for exclusive commercialization rights in Europe as well as the Commonwealth of Independent States, including Russia. Servier contributes funding for development and provides strategic support to the program.

## **About Cytokinetics**

Cytokinetics is a late-stage biopharmaceutical company focused on discovering, developing and commercializing first-in-class muscle activators as potential treatments for debilitating diseases in which muscle performance is compromised and/or declining. As a leader in muscle biology and the mechanics of muscle performance, the company is developing small molecule drug candidates specifically engineered to increase muscle function and contractility. Cytokinetics' lead drug candidate is tirasemtiv, a fast skeletal muscle troponin activator (FSTA). Tirasemtiv is the subject of VITALITY-ALS, an international Phase 3 clinical trial in patients with ALS. Tirasemtiv has been granted orphan drug designation and fast track status by the U.S. Food and Drug Administration (FDA) and orphan medicinal product designation by the European Medicines Agency for the potential treatment of ALS. Cytokinetics is preparing for the potential commercialization of tirasemtiv in North America and Europe and has granted an option to Astellas Pharma Inc. ("Astellas") for development and commercialization in other countries. Cytokinetics is collaborating with Astellas to develop CK-2127107, a next-generation FSTA. CK-2127107 has been granted orphan drug designation by the FDA for the potential treatment of SMA. CK-2127107 is the subject of three ongoing Phase 2 clinical trials enrolling patients with spinal muscular atrophy, chronic obstructive pulmonary disease and ALS. Astellas is also conducting a Phase 1b clinical trial of CK-2127107 in elderly adults with limited mobility. Cytokinetics is collaborating with Amgen Inc. ("Amgen") to develop omecamtiv mecarbil, a novel cardiac muscle activator. Omecamtiv mecarbil is the subject of GALACTIC-HF, an international Phase 3 clinical trial in patients with heart failure. Amgen holds an exclusive worldwide license to develop and commercialize omecamtiv mecarbil with a sublicense held by Servier for commercialization in Europe and certain other countries. Astellas holds an exclusive worldwide license to develop and commercialize CK-2127107. Licenses held by Amgen and Astellas are subject to Cytokinetics' specified co-development and co-commercialization rights. For additional information about Cytokinetics, visit http://www.cytokinetics.com/

# **Forward-Looking Statements**

This press release contains forward-looking statements for purposes of the Private Securities Litigation Reform Act of 1995 (the "Act"). Cytokinetics disclaims any intent or obligation to update these forward-looking statements, and claims the protection of the Act's Safe Harbor for forward-looking statements. Examples of such statements include, but are not limited to, the properties and potential benefits of Cytokinetics' drug candidates, including *omecamtiv mecarbil*, the design, timing, results and significance of the Phase 3 clinical trial of *omecamtiv mecarbil* in subjects with chronic

heart failure and reduced ejection fraction in GALACTIC-HF; and the potential for eventual regulatory approval, commercialization and launch of Cytokinetics' product candidates. Such statements are based on management's current expectations, but actual results may differ materially due to various risks and uncertainties, including, but not limited to Amgen's decisions with respect to the design, initiation, conduct, timing and continuation of development activities for omecamtiv mecarbil; potential difficulties or delays in the development, testing, regulatory approvals for trial commencement, progression or product sale or manufacturing, or production of Cytokinetics' drug candidates that could slow or prevent clinical development or product approval, including risks that current and past results of clinical trials or preclinical studies may not be indicative of future clinical trials results, patient enrollment for or conduct of clinical trials may be difficult or delayed, Cytokinetics' drug candidates may have adverse side effects or inadequate therapeutic efficacy, the U.S. Food and Drug Administration or foreign regulatory agencies may delay or limit Cytokinetics' or its partners' ability to conduct clinical trials; Cytokinetics may be unable to obtain or maintain patent or trade secret protection for its intellectual property; Cytokinetics may incur unanticipated research and development and other costs or be unable to obtain additional financing necessary to conduct dévelopment of its products; standards of care may change, rendering Cytokinetics' drug candidates obsolete; and competitive products or alternative therapies may be developed by others for the treatment of indications Cytokinetics' drug candidates and potential drug candidates may target. For further information regarding these and other risks related to Cytokinetics' business, investors should consult Cytokinetics' filings with the Securities and Exchange Commission. Forward-looking statements are not guarantees of future performance, and Cytokinetics' actual results of operations, financial condition and liquidity, and the development of the industry in which it operates, may differ materially from the forward-looking statements contained in this press release. Any forward-looking statements that Cytokinetics makes in this press release speak only as of the date of this press release.

### Contact:

Cytokinetics
Diane Weiser
Vice President, Corporate Communications, Investor Relations
(415) 290-7757



Source: Cytokinetics, Inc