

## Molecular Templates to Present at the AACR 101<sup>st</sup> Annual Meeting

### Presentations will include a report on the development of a novel targeted toxin-based therapeutic library for oncology drug development and new preclinical data on MTI-SAM3

GEORGETOWN, Tex. - April 13, 2010 - Molecular Templates, Inc., a biopharmaceutical company focused on the discovery and development of novel targeted toxin-based therapeutics for oncology, announced today that it has been selected for two poster presentations at the 101<sup>st</sup> American Association for Cancer Research (AACR) annual meeting in Washington D.C. during April 19-21, 2010. In a presentation, entitled "Novel toxin library for the discovery of oncology therapeutics," the company will report the development of a unique targeted toxin-based therapeutic drug development platform. Researchers at Molecular Templates have created a vast library of toxin-based molecules, each with specifically directed cell-kill activity. This proprietary library is currently being used by the company to rapidly screen against a series of targets and disease-states to identify and advance novel targeted oncology therapies toward the clinic. In a separate poster presentation, researchers will present preclinical proof-of-concept of the toxin-based platform demonstrating the identification of a pre-clinical candidate for melanoma, MTI-SAM3, using an etiology-based screen in which the target was not *a priori* identified.

"Our proprietary drug development platform allows us to rapidly screen for promising oncology drug candidates based on target-specific direct cell-kill activity," said Eric Poma, president and chief executive officer of Molecular Templates. "The toxin scaffold confers a host of unique properties that differentiate it among traditional antibody and small molecule platforms. We believe we have created a novel platform to discover and develop a new class of targeted biologics and we're excited to showcase this research at this year's AACR Annual Meeting."

The schedule for the poster presentations is as follows:

Date & Time:	Tuesday, April 20, 2010 – 2:00 to 5:00 PM
Poster Title:	Discovery of a novel single chain ribosome inactivating protein that selectively kills human melanoma cells
Abstract:	4507
Location:	Exhibit Hall A-C, Poster Section 25
Session Title:	Targeting Cell Signaling
Session Category:	Experimental and Molecular Therapeutics
Date & Time:	Wednesday, April 21, 2010 – 8:00 to 11:00 AM
Poster Title:	Novel toxin library for the discovery of oncology therapeutics
Abstract:	5506
Location:	Exhibit Hall A-C, Poster Section 25
Session Title:	Novel Drug Delivery and Assay Technologies
Session Category:	Experimental and Molecular Therapeutics

Additional details of the presentations can be found on the AACR website at <http://www.aacr.org/>.

#### About MTI-SAM3

MTI-SAM3 is a novel ribosome-inactivating protein with specific cell-kill activity against melanoma. Given its unique mechanism of action and kinetics profile, Molecular Templates believes that MTI-SAM3 represents a new class of biologics that can be synergistically combined with other standard and targeted therapies in oncology.

#### About Molecular Templates

Molecular Templates is a private biopharmaceutical company focused on the discovery and development of novel targeted biologic therapies for oncology and infectious disease. Molecular Templates has introduced embedded random targeting domains into ribosome-inhibiting toxins. This strategy has resulted in a library of toxin variants that numbers in the billions. Each of these toxin variants has a distinct binding affinity but retains the parent toxin's ribosome-inhibiting properties and pharmacokinetics. These variants can be screened in a high throughput fashion for direct cell-kill activity to identify promising therapeutic candidates. For more information, please visit [www.moleculartemplates.com](http://www.moleculartemplates.com).

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