

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
October 17, 2017**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

**Molecular Templates, Inc.**

**File No. 1-32979 - CF#35386**

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Molecular Templates, Inc. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from Exhibit 10.7 to a Form 8-K filed on August 7, 2017, as modified by the same contract refiled with fewer redactions as Exhibit 10.3 to a Form 8-K/A on October 17, 2017.

Based on representations by Molecular Templates, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibit(s) will not be released to the public for the time period(s) specified:

Exhibit 10.3                      through August 7, 2027

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Brent J. Fields  
Secretary