

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
April 17, 2018**

**ORDER GRANTING CONFIDENTIAL TREATMENT
UNDER THE SECURITIES ACT OF 1933**

aTyr Pharma, Inc.

File No. 333-203272 - CF#36135

aTyr Pharma, Inc. submitted an application under Rule 406 requesting an extension of previous grant of confidential treatment for information it excluded from the Exhibits to a Form S-1 filed on April 6, 2015, as amended.

Based on representations by aTyr Pharma, 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 will not be released to the public for the time period specified:

Exhibit 10.7 through April 6, 2021

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

Brent J. Fields
Secretary