

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

**12 August 2011**

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

**Rosetta Genomics Ltd.**

**File No. 1-33042 -- CF# 27021**

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Rosetta Genomics Ltd. submitted an application under Rule 24b-2 requesting an extension of a previous grant of confidential treatment for information it excluded from the Exhibits to a Form 20-F filed on June 30, 2009.

Based on representations by Rosetta Genomics Ltd. 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 4.16                      through June 30, 2013

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

Timothy S. Levenberg  
Special Counsel