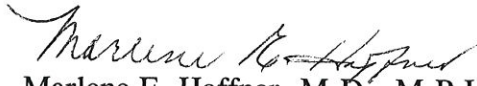


Please refer to this letter as official notification of designation and congratulations on obtaining your orphan drug designation.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Marlene E. Haffner".

Marlene E. Haffner, M.D., M.P.H.
Rear Admiral, United States Public Health Service
Director, Office of Orphan Products Development