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Claire Fraser
Herve Tettelin

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2. Name and address of receiving party(ies)

Name: The Institute for Genomic Research

Internal Address:

Street Address: 9712 Medical Center Drive

City: Rockville State: Maryland Zip: 20850

☐ Other

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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Execution Date: August 27, 2003 and September 2, 2003

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B. Patent Registration No.(s)

10/415,182

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5. Name and address of party to whom correspondence concerning document should be mailed:

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By: Sider J. J. J.

PATENT
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ASSIGNMENT

WHEREAS, WE, CLAIRE FRASER AND HERVE TETTELIN, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified United Kingdom Patent Application(s), International Patent Application(s), and application(s) for United States Letters Patent:

Title of Invention: NUCLEIC ACIDS AND PROTEINS FROM STREPTOCOCCUS GROUPS A & B

Date of Execution:

Application No(s):	GB 0026333.5	Filing Date:	October 27, 2000
	GB 0028727.6	Filing Date:	November 24, 2000
	GB 0105640.7	Filing Date:	March 7, 2001
	PCT/GB01/04789	Filing Date:	October 29, 2001
	US 10/415,182	Filing Date:	April 28, 2003

WHEREAS, THE INSTITUTE FOR GENOMIC RESEARCH, 9712 Medical Center Drive, Rockville, Maryland 20850, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application(s) and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application(s) and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNORS also agree that the U.S. serial number may be entered above by **ASSIGNEE** or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

ASSIGNORS further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as **ASSIGNEE** lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said **ASSIGNEE**, or **ASSIGNEE'S** successors and assigns.

IN TESTIMONY WHEREOF, **ASSIGNORS** have hereunto signed their name to this assignment on the date indicated below.

DATE 9/2/03 Claire Fraser
Claire Fraser
[Signature]
Witness
Beth Hays
Beth Hays
Witness

DATE 08/27/03 Herve Tettelin
Herve Tettelin
[Signature]
Witness
Mark Humway
Mark Humway
Witness