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<p>1. Name of party or parties conveying an interest:</p> <p>Ayub Darji Carlos A. Guzman Kenneth Timmis Jürgen Wehland Siegfried Weiss Birgit Gerstel Trinad Chakraborty Petra Wachholz</p>	<p>2. Name and address of party or parties receiving an interest:</p> <p>Name: Gesellschaft fuer Biotechnologische Forschung mbH (GBF) Address: Mascheroder Weg 1, D-38124 Braunschweig Germany</p>
<p>3. Description of the interest conveyed:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement</p> <p>Execution Dates: January 5, 2000, January 5, 2000, January 18, 2000, January 5, 2000, December 22, 1999, January 3, 2000, January 5, 2000 and January 21, 2000.</p>	<p>Other:</p>
<p>4. Application number(s) or patent number(s). Additional sheet attached? YES ___ NO <u>X</u></p> <p>A. Patent Application no.(s): 09/419,545 filed October 18, 1999</p>	<p>If the document is being filed together with a new application, the execution date of the application is:</p> <p>B. Patent no.(s):</p>
<p>5. Name and address of party to whom correspondence concerning this cover sheet should be mailed:</p> <p>Name: James P. Zeller Reg. No.28,491 MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN Street Address: 6300 Sears Tower 233 S. Wacker Drive City: Chicago State: Illinois Zip: 60606-6402</p>	<p>6. Number of applications and/or patents identified on this cover sheet: 1</p> <p>7. Amount of fee enclosed or authorized to be charged: \$40.00</p> <p>8. Any additional required fee may be charged, or any overpayment credited to our deposit account: 13-2855</p>

9. To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document.

Date: 17 February 2000

James P. Zeller
Reg. No. 28,491

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Total number of pages including cover sheet, attachments, and document: 3

PATENT
REEL: 010624 FRAME: 0360

A S S I G N M E N T

US 419 545

Serial No: 09/419,545
 Filed: October 18, 1999
 Title: ATTENUATED SALMONELLA STRAIN USED AS A VEHICLE FOR ORAL IMMUNIZATION

For ten dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to Gesellschaft fuer Biotechnologische Forschung mbH (GBF), Mascheroder Weg 1, D-38124 Braunschweig Germany, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on , and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for the aforesaid consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS our hands this _____ day of _____, Nineteen Hundred and Ninety Nine.

MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 Sears Tower, 233 South Wacker Drive, Chicago, Illinois 60606-6402

Witnesses:

1) _____
Name:

2) _____
Name:

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