FORM PTO-1595 1-31-92			R SHEET	SHEET U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 07680.0031-0100 Attorney Customer Number: 22,852			
To the Director of the U		ademark Office: ments or copy thereof.		Mail Stop A	ssignment R	ecordation Services	
Name of conveying party: Yunxlang Zhu			Name and address of receiving party: Name: Genzyme Corporation				
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No				Internal Address:			
Nature of conveyance:			Street Address: 500 Kendall Street				
	Assignment			City: Cambridge			
Security Agreement	☐ Chai	nge of Name	State:	MA	Zlp Code:	02142	
Other:			Additional name(s) & Address(es) attached?				
Execution Date: 11/1/2004			☐ Yes				
4. Application nur	nber:						
A. Patent Application Number:			B. Patent Number(s):				
10/943,893							
	Add	itional numbers attached?	☐ Yes	⊠ No			
Name and address of party to whom correspondence concerning document should be mailed:			6. Total number of applications and registrations involved: ONE (1)				
Name: Sapna Mehtani			7. Total fee (37 CFR 3.41): \$40				
				Enclosed (Pleacount)	ease charge o	deficiency to deposit	
				Authorized to	be charged	to deposit account	
	NEGAN, HENDER UNNER, L.L.P.	SON, FARABOW, GARRETT					
Street Address: 130	0 I Street, N.W.						
City: Washir	ngton, D.C.						
State:	Zip:	20005-3315	8.	Deposit Account I	No.: <u>06-0916</u>		
9. Statement and signature.							
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.							
		Smeulani November 17 2004					
Sapna Mehtani Signa Reg. No. 56,126 Total number of pages including cover sheet, al							

PATENT REEL: 015388 FRAME: 0781

SOLE INVENTION Worldwide Rights Attorney Docket No. 07680-0031-01000

ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, has made an invention entitled:

METHODS FOR INTRODUCING MANNOSE-6-PHOSPHATE AND OTHER OLIGOSACCHARIDES ONTO GLYCOPROTEINS AND ITS APPLICATION THEREOF

for which I executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on September 20, 2004 (Application No. 10/943,893); and

WHEREAS, Genzyme Corporation, a corporation of Massachusetts whose post office address is 500 Kendall Street, Cambridge, MA 02142 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assigner, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, provisional Application No. 60/263,078, filed January 18, 2001 (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set our hands.

County of Middlesex	 lame: Yunxiang Zhu
j	Wayland, MA 01748
State of Massachusetts.	Date: November/1/04
Subscribed and sworn to before me this 15th	F November, 2004

JENNIFER L. SOUZA Notary Public Commonwealth of Messachusetts My Commission Expires Apr 29, 2005

Page 1 of 1

RECORDED: 11/17/2004

PATENT REEL: 015388 FRAME: 0782