Substitute Form PTO-1595 Attorney Docket No.: 07148-064001 Client's Ref. No.: A21-580

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06-13-2000



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101379579 Assistant Commissioner for Patents: Please re 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Jan G. Jaworski (01/31/00) Miami University James Todd (02/24/00) Oxford, Ohio 45056 Additional name(s) attached? ☐ Yes ☑ No 3. Nature of conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name □ Other: Execution Date: January 31, 2000 and February 24. Additional names/addresses attached? ☐ Yes ☑ No 2000 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: B: Patent No(s).: 08/868.373 Additional numbers attached? ☐ Yes ☑ No 5. Name/address of party to whom correspondence concerning 6. Total number of applications/patents involved: 1 document should be mailed: RONALD C. LUNDQUIST, Ph.D. 7. Total fee (37 CFR §3.41): \$40 Fish & Richardson P.C., P.A. ☑ Enclosed 60 South Sixth Street, Suite 3300 ☐ Authorized to charge Deposit Account. Minneapolis, MN 55402 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. 06/12/2**000 JSHABAZZ 00000152 08868373** DO NOT USE THIS SPACE 01 FC:5B1 40.00 DP 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. Ronald C. Lundquist, Ph.D. Reg. No. 37,875 Name of Person Signing Total number of pages including coversheet, attachments and document: 4

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May 23, 2000 Date of Deposit

Signature

Vince Defante

Typed Name of Person Signing Certificate

PATENT

REEL: 010838 FRAME: 0633

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ASSIGNMENT

For valuable consideration, we, JAN G. JAWORSKI of, OXFORD, OHIO and JAMES TODD of, OXFORD, OHIO, hereby assign to, MIAMI UNIVERSITY an OHIO corporation having a place of business at: OXFORD, OHIO 45056, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled FATTY ACID ELONGASES, filed June 3, 1997, and assigned U.S. Serial Number 08/868,373, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

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IN WITNESS WHEREOF, I hereto set my hand and seal at Oxford Cho'6
IN WITNESS WHEREOF, I hereto set my hand and seal at 0×10^{10} this $3/$ day 3000 of, 19^{2000} L.S
JAN/G. JAWORSKI
State of Chi'o :
County of Bull :
Before me this 3/ day of January, 19, personally
appeared JAN G. JAWORSKI known to one to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.
Martha E. Weben
Notary Public My Commission Expires: April 16,2009
[Notary's Seal Here]

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IN WITNESS WHEREOF, I hereto set my hand and seal at
this 24th day February of, 19 zero Sames Torld. L.S.
L.S. IAMES TODD
JAMES TODD
State of Missouri :
; ss.
County of St. Louis:
Before me this 24th day of Hebruary, X2000, personally appeared JAMES TODD known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.
Michellia. Spudich Notary Public
My Commission Expires:
[Notary's Seal Here] MICHELE A. SPUDICH
Notary Public - Notary Section 1 Notary Section 2 Notary