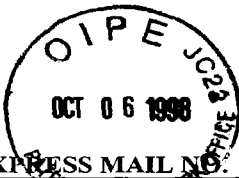


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Attorney's Docket No. 07953.0004.999

MUD 10-6-98

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Form PTO-1595 6-93 U.S. Department of Commerce RECORDATION FORM COVER SHEET Patent and Trademark Office PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Pamela R. Contag; David A. Benaron; and Christopher H. Contag Additional name(s) of conveying party(ies) attached? yes no

2. Name and address of receiving party(ies): Name: Xenogen Corporation Street Address: 860 Atlantic Avenue City: Alameda State: California Zip Code: 94501 Country: USA Additional name(s) & address(es) attached? yes no

3. Nature of Conveyance: Assignment Security Agreement Other Merger Change of Name Execution Date(s): September 18 and 22, 1998

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is A. Patent Application No(s). 08/844,336

B. Patent No(s).

Additional numbers attached? yes no

5. Name and address of party to whom correspondence concerning document should be mailed: Name: HOWREY & SIMON Internal Address: Albert P. Halluin Street Address: Box No. 34 1299 Pennsylvania Ave, N.W. City: Washington State: D.C. Zip Code: 20004-2402

6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. § 3.41).....\$ 40.00 Enclosed Authorized to be charged to Deposit Account 8. Deposit Account Number: 08-3038

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Handwritten initials

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.

Albert P. Halluin (Reg. No. 25,227) Name of Person Signing Registration No.

Handwritten signature of Albert P. Halluin

October 5, 1998 Date

Total number of pages including cover sheet, attachments and document 5

OMB NO. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments Washington, D.C. 20231

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40.00 OP

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned: **Pamela R. Contag; David A. Benaron; and Christopher H. Contag** the undersigned hereby sell(s) and assign(s) **Xenogen Corporation, 860 Atlantic Avenue, Alameda, California 94501, USA** (the Assignee) his/her entire right, title and interest

check applicable box(es) : for the United States of America (as defined in 35 U.S.C. § 100),
: and throughout the world,

in the invention(s) known as **BIODETECTORS TARGETED TO SPECIFIC LIGANDS** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on **March 27, 1998** (also known as United States Application No. **08/844,336**, filed **April 18, 1997**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisional and continuation applications thereof, to the full end of the term or terms for which such Letters Patent(s) issue, including all claims, if any, that may have arisen for infringement prior to the date of this assignment, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference that may be declared concerning the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that the undersigned has full right to convey the entire interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grant(s)

Jeffrey I. Auerbach, Reg. No. 32,680
 Melvin L. Barnes, Jr. Reg. No. 38,375
 Thane Bauz, Reg. No. P41,604
 Michael J. Bell, Reg. No. 39,604
 John A. Bendrick, Reg. No. P41,612
 Mark R. Buscher, Reg. No. 35,006
 Celine T. Callahan, Reg. No. 34,301
 Cono A. Carrano, Reg. No. 39,623
 Joseph V. Colaianni, Reg. No. 39,948
 James F. Davis, Reg. No. 21,072
 Thomas M. Dunham, Reg. No. 39,965
 Joel M. Freed, Reg. No. 25,101
 Vernon Randall Gard, Reg. No. 33,886
 Alan M. Grimaldi, Reg. No. 26,599
 Alexander J. Hadjis, Reg. No. 36,540
 Albert P. Halluin, Reg. No. 25,227
 Michael N. Haynes, Reg. No. 40,014
 Rouget F. Henschel, Reg. No. 39,221

Leslie L. Jacobs, Jr., Reg. No. 40,659
 Richard H. Kjeldgaard, Reg. No. 30,186
 Joseph P. Lavelle, Reg. No. 31,036
 David R. Marsh, Reg. No. 41,408
 Kevin W. McCabe, Reg. No. 41,182
 Joseph A. Micallef, Reg. No. 39,772
 Anthony D. Miller, Reg. No. 34,394
 Karen L. Nicastro, Reg. No. 35,968
 Bradley J. Olson, Reg. No. 40,750
 Russell O. Paige, Reg. No. P40,758
 Andrew Y. Piatnicia, Reg. No. 40,772
 Andrea G. Reister, Reg. No. 36,253
 Stephen J. Rosenman, Reg. No. 29,209
 Timothy L. Scott, Reg. No. 37,931
 Anthony W. Shaw, Reg. No. 30,104
 J. David Smith, Reg. No. 39,839
 Michael J. Songer, Reg. No. 39,841

of HOWREY & SIMON, BOX NO. 34, 1299 PENNSYLVANIA Avenue, N.W., Washington, D.C. 20004-2402, power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

Date: _____ Signature of Inventor: _____

Pamela R. Contag

Date: 22 Sept 99 Signature of Inventor: _____

David A. Benaron

Date: _____ Signature of Inventor: _____

Christopher H. Contag

Date: _____ Signature of Inventor: _____

ASSIGNMENT

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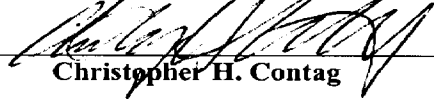
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IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

Date: 4/18/98 Signature of Inventor: 
Pamela R. Contag

Date: _____ Signature of Inventor: _____
David A. Benaron

Date: 4/19/98 Signature of Inventor: 
Christopher H. Contag

Date: _____ Signature of Inventor: _____