



(11) **EP 1 578 903 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(48) Corrigendum issued on:
14.03.2012 Bulletin 2012/11

(45) Date of publication and mention
of the grant of the patent:
23.11.2011 Bulletin 2011/47

(21) Application number: **02762148.1**

(22) Date of filing: **17.04.2002**

(51) Int Cl.:
C12N 15/00 (2006.01) **C12P 21/06** (2006.01)
C12N 15/09 (2006.01) **C12N 15/63** (2006.01)
C12N 15/70 (2006.01) **C12N 15/74** (2006.01)
C12P 21/04 (2006.01) **C12Q 3/00** (2006.01)
C12Q 1/70 (2006.01) **G01N 33/53** (2006.01)

(86) International application number:
PCT/US2002/012405

(87) International publication number:
WO 2002/083872 (24.10.2002 Gazette 2002/43)

(54) **NOVEL METHODS OF CONSTRUCTING LIBRARIES COMPRISING DISPLAYED AND/OR EXPRESSED MEMBERS OF A DIVERSE FAMILY OF PEPTIDES, POLYPEPTIDES OR PROTEINS AND THE NOVEL LIBRARIES**

NEUE VERFAHREN ZUM AUFBAU VON PRÄSENTIERTEN UND/ODER EXPRIMIERTEN MITGLIEDERN EINER WEITLÄUFIGEN FAMILIE VON PEPTIDEN, POLYPEPTIDEN ODER PROTEINEN UMFASSENDE BIBLIOTHEKEN SOWIE DIE NEUEN BIBLIOTHEKEN

NOUVEAUX PROCÉDES DE CONSTRUCTION DE BIBLIOTHEQUES COMPRENANT DES MEMBRES VISUALISÉS ET/OU EXPRIMÉS DE DIVERSES FAMILLES DE PEPTIDES, POLYPEPTIDES ET PROTEINES ET NOUVELLES BIBLIOTHEQUES OBTENUES

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**

(30) Priority: **17.04.2001 US 837306**
24.10.2001 US 516
25.10.2001 US 45674

(43) Date of publication of application:
28.09.2005 Bulletin 2005/39

(73) Proprietor: **Dyax Corp.**
Cambridge, MA 02139 (US)

(72) Inventors:
• **LADNER, Robert C.**
Ijamsville, MD 21754 (US)
• **COHEN, Edward H.**
Belmont, MA 02478 (US)
• **NASTRI, Horacio G.**
Needham, MA 02492 (US)
• **ROOKEY, Kristin L.**
Revere, MA 02151 (US)

• **HOET, René**
6226 CZ Maastricht (NL)
• **HOOGENBOOM, Hendricus R.J.M.**
6214 AE Maastricht (NL)

(74) Representative: **Vossius & Partner**
Siebertstrasse 4
81675 München (DE)

(56) References cited:
DE-A1- 19 624 562 US-A- 5 223 409
US-A- 5 380 833 US-A- 5 688 666
US-A- 5 798 208 US-A- 5 846 765
US-A- 5 858 671 US-A- 5 969 108

• **DAVIES J ET AL: "Affinity improvement of single antibody VH domains: residues in all three hypervariable regions affect antigen binding" IMMUNOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS BV, NL, vol. 2, no. 3, September 1996 (1996-09), pages 169-179, XP004070292 ISSN: 1380-2933**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 578 903 B8

- | | |
|--|--|
| <ul style="list-style-type: none"> • ARDEN B: "Conserved motifs in T-cell receptor CDR1 and CDR2: implications for ligand and CD8 co-receptor binding" CURRENT OPINION IN IMMUNOLOGY, CURRENT BIOLOGY LTD, vol. 10, no. 1, February 1998 (1998-02), pages 74-81, XP004313624 ISSN: 0952-7915 • HOOGENDOORN H R ET AL: "By-passing Immunisation - Human Antibodies from Synthetic Repertoires of Germline VH Gene Segments Rearranged in Vitro" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 227, 1992, pages 381-388, XP002974448 ISSN: 0022-2836 • DE HAARD H J ET AL: "A large non-immunized human Fab fragment phage library that permits rapid isolation and kinetic analysis of high affinity antibodies" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BIRMINGHAM,, US, vol. 274, no. 26, 25 June 1999 (1999-06-25), pages 18218-18230, XP002128301 ISSN: 0021-9258 | <ul style="list-style-type: none"> • TOMLINSON I M ET AL: "THE REPERTOIRE OF HUMAN GERMLINE VH SEQUENCES REVEALS ABOUT FIFTY GROUPS OF VH SEGMENTS WITH DIFFERENT HYPERVARIABLE LOOPS" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 227, 1992, pages 776-798, XP000990787 ISSN: 0022-2836 • BARBAS S M ET AL: "HUMAN AUTOANTIBODY RECOGNITION OF DNA" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 92, March 1995 (1995-03), pages 2529-2533, XP002927212 ISSN: 0027-8424 |
|--|--|

专利名称(译)	构建文库的新方法包括多肽，多肽或蛋白质家族的展示和/或表达成员以及新文库		
公开(公告)号	EP1578903B8	公开(公告)日	2012-03-14
申请号	EP2002762148	申请日	2002-04-17
[标]申请(专利权)人(译)	拉德纳ROBERT CHARLES COHEN爱德华^ h NASTRI HORACIO摹 ROOKEY KRISTIN大号 HOET RENE HOOGENBOOM HENDRICUS - [R缩略词]		
申请(专利权)人(译)	拉德纳，ROBERT CHARLES COHEN，EDWARD H. NASTRI奥拉西奥·G. ROOKEY克莉丝汀L. HOET，RENE HOOGENBOOM，HENDRICUS R.J.M.		
当前申请(专利权)人(译)	DYAX CORP.		
[标]发明人	LADNER ROBERT C COHEN EDWARD H NASTRI HORACIO G ROOKEY KRISTIN L HOET RENE HOOGENBOOM HENDRICUS R J M		
发明人	LADNER, ROBERT C. COHEN, EDWARD H. NASTRI, HORACIO G. ROOKEY, KRISTIN L. HOET, RENÉ HOOGENBOOM, HENDRICUS R.J.M.		
IPC分类号	C12N15/00 C12P21/06 C12N15/09 C12N15/63 C12N15/70 C12N15/74 C12P21/04 C12Q3/00 C12Q1 /70 G01N33/53 C07K1/04 C07K16/00 C07K17/00 C12N1/00 C12N15/10 C12N15/11 C12N15/13 C12N15/66 C12Q1/44 C12Q1/68 C40B40/02		
CPC分类号	C07K16/005 C07K2317/51 C07K2317/515 C07K2317/55 C07K2317/622 C12N15/10 C12N15/1037 C12N15/1093 C12N15/66 C40B40/02 C40B40/08		
代理机构(译)	法思博事务所		
优先权	09/837306 2001-04-17 US		
其他公开文献	EP1578903A4 EP1578903A2 EP1578903B2 EP1578903B1		
外部链接	Espacenet		

摘要(译)

可用于构建共同展示和/或表达肽，多肽或蛋白质的不同家族成员的文库的方法和使用这些方法产生的文库。筛选那些文库和通过这种筛选鉴定的肽，多肽或蛋白质的方法。

