U.S. PATENT DOCUMENTS

4,146,029 A 3/1979 Ellinwood
4,347,176 A 8/1982 Mehta
4,793,825 A 12/1988 Benjamin et al.
4,920,213 A 4/1990 Dale et al.
4,946,795 A 8/1990 Gibbons et al.
5,104,813 A 4/1992 Besemer et al.
5,162,237 A 11/1992 Messenger et al.
5,279,607 A 1/1994 Schentag et al.
5,472,603 A 12/1995 Schembri
5,624,850 A 4/1997 Kumar et al.
5,674,698 A 10/1997 Zarling et al.
5,716,852 A 2/1998 Yager et al.
5,744,366 A 4/1998 Kricka et al.
5,797,898 A 8/1998 Santini et al.
5,801,057 A 9/1998 Smart et al.
5,807,375 A 9/1998 Gross et al.
5,820,548 A 10/1998 Sieben et al.
5,832,296 A 11/1998 Wang et al.
5,842,787 A 12/1998 Kopf-Sill et al.
5,848,991 A 12/1998 Gross et al.
5,874,214 A 2/1999 Nova et al.
5,885,470 A 3/1999 Parce et al.
5,942,443 A 8/1999 Parce et al.
5,961,451 A * 10/1999 Reber et al. 600/322
5,961,923 A 10/1999 Nova et al.
5,976,896 A 11/1999 Kumar et al.
6,046,056 A 4/2000 Parce et al.
6,074,616 A * 6/2000 Buechler et al. 422/104
6,123,861 A 9/2000 Santini et al.
6,156,181 A 12/2000 Parce et al.
6,174,675 B1 1/2001 Chow et al.
6,176,962 B1 1/2001 Soane et al.
6,200,814 B1 3/2001 Malmqvist et al.
6,204,068 B1 3/2001 Soini et al.
6,221,677 B1 4/2001 Wu et al.
6,245,057 B1 6/2001 Sieben et al.
6,319,668 B1 11/2001 Nova et al.
6,340,588 B1 1/2002 Nova et al.
6,352,854 B1 3/2002 Nova et al.
6,368,275 B1 4/2002 Sliwa et al.
6,372,428 B1 4/2002 Nova et al.
6,429,025 B1 8/2002 Parce et al.
6,440,725 B1 8/2002 Pourahmadi et al.
6,464,687 B1 10/2002 Ishikawa et al.
6,482,593 B2 11/2002 Walt
6,491,666 B1 12/2002 Santini, Jr. et al.
6,503,231 B1 1/2003 Prausnitz et al.
6,527,762 B1 3/2003 Santini et al.
6,542,717 B1 4/2003 Zimmerman et al.
6,544,732 B1 4/2003 Chee et al.
6,551,838 B2 4/2003 Santini et al.
6,632,216 B2 10/2003 Houzego et al.
6,649,358 B1 11/2003 Parce et al.
6,789,510 B1 9/2004 Lee
6,832,296 B2 12/2004 Hooker
6,849,237 B2 2/2005 Housefield et al.
6,878,755 B2 4/2005 Singh et al.
6,887,202 B2 5/2005 Currie et al.
6,923,764 B2 8/2005 Aceti et al.
6,927,851 B2 8/2005 McCaffrey et al.
6,929,636 B1 8/2005 Von Alten
6,949,377 B2 9/2005 Ho
6,966,880 B2 11/2005 Boecker et al.
7,052,831 B2 5/2006 Fletcher et al.
7,112,444 B2 9/2006 Beebe et al.
7,178,386 B1 2/2007 Gamble et al.
7,201,872 B2 4/2007 Meron
2001/0019831 A1 9/2001 Phillips et al.
2001/0051340 A1 12/2001 Singh et al.
2001/0051766 A1 12/2001 Gazdzinski
2001/0053535 A1 12/2001 Bashir et al.
2002/0001854 A1 1/2002 Lee
2002/0034757 A1 3/2002 Cubicciotti
2002/0055127 A1 5/2002 Gindilis
2002/0072733 A1 6/2002 Flaherty
2002/0092770 A1 7/2002 Hedberg et al.
2002/0114739 A1 8/2002 Weigl et al.
2002/0132226 A1 9/2002 Nair et al.
2003/0049833 A1 3/2003 Chen et al.
2003/0061687 A1 4/2003 Hansen et al.
2003/0069560 A1 4/2003 Adamis et al.
2003/0097092 A1 5/2003 Flaherty
2003/0117491 A1 6/2003 Avni et al.
2003/0143551 A1 7/2003 Cattell
2003/0148362 A1 8/2003 Luka
2003/0153900 A1 8/2003 Aceti et al.
2003/0167000 A1 9/2003 Mullick et al.
2003/0191430 A1 10/2003 D'Andrea et al.
2003/0208133 A1* 11/2003 Mault 600/532
2003/0210607 A1 11/2003 Gilbert et al.
2003/0214057 A1 11/2003 Huang
2004/0005582 A1 1/2004 Shipwash
2004/0086872 A1* 5/2004 Childers et al. 435/6
2004/0096959 A1 5/2004 Stiene et al.
2004/0121305 A1 6/2004 Wiegand et al.
2004/0122486 A1 6/2004 Stahmann et al.
2004/0213825 A1 10/2004 Levy
2005/0009101 A1 1/2005 Blackburn
2005/0019836 A1 1/2005 Vogel et al.
2005/0054078 A1 3/2005 Miller et al.
2005/0064529 A1 3/2005 Kwon
2005/0100937 A1 5/2005 Homes
2005/0106713 A1* 5/2005 Phan et al. 435/287.2
2005/0130292 A1 6/2005 Ahn et al.
2005/0136548 A1 6/2005 McDevitt et al.
2005/0147559 A1 7/2005 Von Alten
2005/0209565 A1 9/2005 Yuzhakov et al.
2005/0221281 A1 10/2005 Ho
2005/0249633 A1 11/2005 Blatt et al.
2005/0255001 A1 11/2005 Padmanabhan et al.
2005/0255600 A1 11/2005 Padmanabhan et al.
2006/0019319 A1 1/2006 Billadeau et al.
2006/0029924 A1 2/2006 Brewster et al.
2006/0062852 A1 3/2006 Homes
2006/0106316 A1 5/2006 Palti
2006/0182738 A1 8/2006 Holmes
2006/0211933 A1 9/2006 Zimmermann et al.
2006/0257941 A1 11/2006 McDevitt et al.
2006/0264779 A1 11/2006 Kemp et al.
2006/0264780 A1 11/2006 Holmes et al.
2006/0264781 A1 11/2006 Gibbons et al.
2006/0264783 A1 11/2006 Holmes et al.
2007/0166195 A1 7/2007 Padmanabhan et al.
2007/0224084 A1 9/2007 Holmes et al.
2007/0264629 A1 11/2007 Holmes et al.
2008/0009766 A1 1/2008 Holmes et al.
2008/0113391 A1 5/2008 Gibbons et al.

FOREIGN PATENT DOCUMENTS

WO WO 94/01165 1/1994
WO WO 01/35928 5/2001
WO WO 2005/031355 A1 4/2005
WO WO 2005/121367 A1 12/2005
WO WO 2007/120904 A2 10/2007

OTHER PUBLICATIONS

Harlow, et al. Antibodies: A Laboratory Manual. Cold Spring Harbor Laboratory. New York. 1988. (Cover pages and table of contents only).

Kessler, et al. Use of the DNA flow-thru chip, a three-dimensional biochip, for typing and subtyping of influenza viruses. J Clin Microbiol. May 2004;42(5):2173-85.