

1 Filed on behalf of: Junior Party FAN

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14 UNITED STATES PATENT AND TRADEMARK OFFICE
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19 BEFORE THE PATENT TRIAL AND APPEAL BOARD
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24 HEI-MUN CHRISTINA FAN and STEPHEN QUAKE
25 Junior Party
26 (Patent 8,195,415),
27

28 v.
29

30 YUK-MING DENNIS LO, ROSSA WAI KWUN CHIU, and KWAN CHEE CHAN
31 Senior Party
32 (Application 13/070,266),
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37 Patent Interference No. 105,922 (DK)
38 (Technology Center 1600)
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42 **DECLARATION OF J. CHRIS DETTER, Ph.D.**

SEQUENOM EXHIBIT 1087

Sequenom, Inc. v. Stanford

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42 DECLARATION OF J. CHRIS DETTER, Ph.D.

EXHIBIT 2050

QUAKE v. LO, Interference No. 105,920
FAN v. LO, Interference No. 105,922

1 The undersigned, J. Chris Detter, Ph.D., does hereby declare and state that:

2 1. I make the following declaration based on my knowledge and belief.

3 **My Educational and Professional Background**

4 2. I earned my B.S. in Biology at Baylor University in 1995 and my Ph.D. in
5 medical sciences (molecular genetics and microbiology) at University of Florida in Gainesville
6 in 1999.

7 3. After receiving my Ph.D., I worked as the Team and Technical Leader for the
8 Research and Development Genomic Technology Group at the Lawrence Livermore National
9 Laboratory (“LLNL”) as part of the Joint Genome Institute from September, 1999 until May,
10 2001, where I developed DNA library creation protocols and methods for high-throughput
11 sequencing for the human genome sequencing project.

12 4. From May, 2001 until September, 2005, I was the Group Leader in the
13 Genomics/Cloning Technology Group at LLNL, during which time I managed the high-
14 throughput library creation process for the Joint Genome Institute.

15 5. From September, 2005 until February, 2009, I was the Team Leader for the
16 Sequencing Technology Team at the Joint Genome Technology Group (B-6) at the Los Alamos
17 National Laboratory (“LANL”), during which time I managed a highly automated sequencing
18 team focused on the genome finishing process. Also, from October, 2006 until April, 2007, I
19 was acting Group Leader for the Joint Genome Institute-Genome Technology Group (B-5) in the
20 Bioscience Division of LANL, where I managed a diverse genomic sequencing and
21 computational biology group.

22 6. Since February, 2008, I have been the Genome Sciences Center Director and
23 Group Leader (B-6) at LANL, where I manage a diverse genomic sequencing and computational
24 biology group of about 45 individuals. In addition, since September, 2011, I have been the

1 Acting Bioscience Deputy Divisional Leader at LANL, in which position I assist the Division
2 Leader in programmatic, strategic and tactical mission areas for Bioscience. As of October 2012,
3 I am now the BioThreat, BioDefense Program Director for LANL.

4 7. I received additional technical training an automated DNA sequencing at Perkin-
5 Elmer Corporation in 1997, at Amersham in 1999, at Applied Biosystems in 2000, at Affymetrix
6 in 2000, at 454 Life Sciences in 2006, and I consider myself to be an expert on high-throughput
7 sequencing on the Roche 454, Illumina and Pacific Biosciences (PacBio) platforms.

8 8. I have published numerous scientific research papers in the areas of chromosomal
9 mapping and genome sequencing, as listed on my *curriculum vitae*, which is being submitted
10 with this declaration as Exhibit 2051.

11 **My Understanding of this Proceeding**

12 9. I am informed that a patent interference, identified above, has been declared
13 between a patent of Hei-Mun Christina Fan and Stephen Quake (collectively “Fan”) and an
14 application of Yun-Ming Dennis Lo, Rossa Wai Kwun Chiu, and Kwan Chee Chan (collectively
15 “Lo”).

16 10. I am informed the Fan patent in the interference is U.S. Patent No. 8,195,415,
17 which issued on June 5, 2012 (“the Fan ’415 patent”; Exhibit 2011) assigned to The Board of
18 Trustees of the Leland Stanford Junior University (“Stanford”).

19 11. I understand the Fan ’415 patent (Exhibit 2011) issued from U.S. Application
20 Serial No. 12/696,509, filed on January 29, 2010 (“the Fan ’509 application”; Exhibit 2012),
21 which published as U.S. Patent Publication No. 2010/0138165 on June 3, 2010 (“the Fan ’165
22 publication”; Exhibit 2013).

23 12. I am informed the Fan ’509 application (Exhibit 2012) is a divisional application
24 from U.S Application Serial No. 12/560,708, filed on September 16, 2009 (“the Fan ’708

1 application”; Exhibit 2014), which published as U.S. Patent Publication No. 2010/0112575 on
2 May 6, 2010 (“the Fan ’575 publication”; Exhibit 2023).

3 13. I am informed the Fan ’708 application (Exhibit 2014) claims the benefit of U.S.
4 Provisional Application Serial No. 61/098,758, filed on September 20, 2008 (“the Fan ’758
5 provisional”; Exhibit 2015).

6 14. I understand that the Fan ’415 patent is involved in the above-captioned
7 interference against U.S. Application Serial No. 13/070,266 filed on March 23, 2011 (“the Lo
8 ’266 application”; Exhibit 2016), which published as U.S. Patent Publication No. 2011/0003637
9 on January 5, 2012 (“the Lo ’637 publication”; Exhibit 2017).

10 15. I am informed the Lo ’266 application (Exhibit 2016) is a continuation application
11 from U.S. Application Serial No. 12/614,350, filed on November 6, 2009, and published as U.S.
12 Patent Publication No. 2010/0112590 on May 6, 2010 (“the Lo ’350 application”; Exhibit 2008),
13 which is a continuation-in-part from U.S. Application Serial No. 12/178,181, filed on July 23,
14 2008 (“the Lo ’181 application”; Exhibit 2009), and published as U.S. Patent Publication No.
15 2009/0029377 on January 29, 2009 (“the Lo ’377 publication”; Exhibit 2020), which claims the
16 benefit of U.S. Provisional Application Serial No. 60/951,438, filed on July 23, 2007 (“the Lo
17 ’438 provisional”; Exhibit 2010).

18 **Independent Witness**

19 16. I have been retained in this matter by Rothwell, Figg, Ernst & Manbeck, P.C. of
20 Washington, D.C. (“Rothwell”).

21 17. My main contacts at Rothwell are Sharon Crane, Ph.D., Esq., Seth Cockrum,
22 Ph.D., Esq., and Danny Huntington, Esq.

23 18. I have had no previous contact with Rothwell or these main contacts.

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