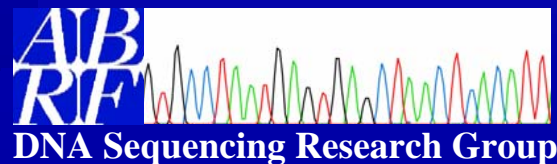


DNA Sequencing Research Group

2006 General Survey of DNA Sequencing Facilities

Debbie Adam, David Needleman, Michelle
Detwiler, Helaman Escobar, Jan Kieleczawa,
Rashmi Pershad, Peter Schweitzer, Glenis Wiebe,
and Susan Hardin



Goal of Survey

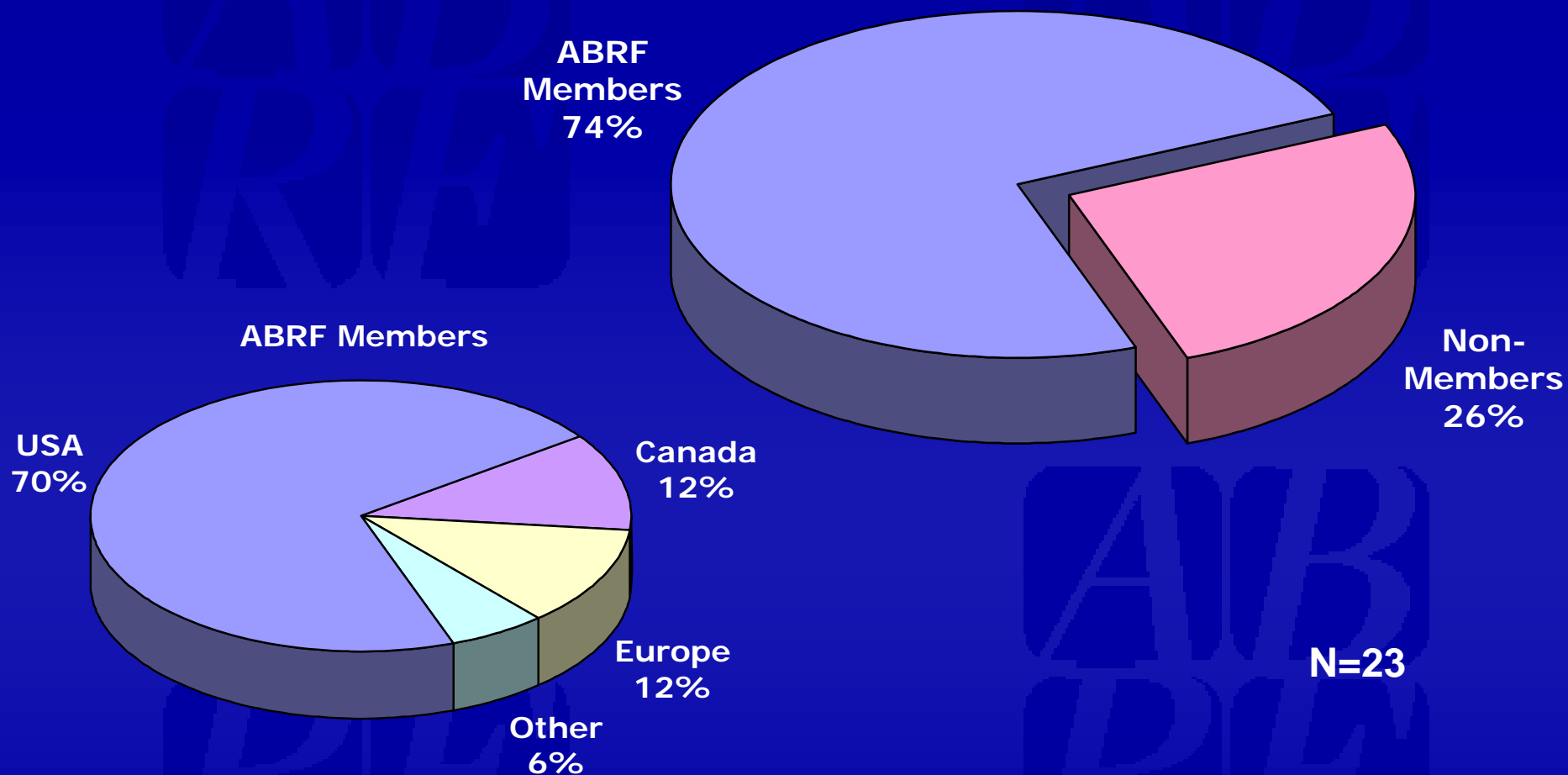
- **Facility**
- **Services**
- **Instrumentation**
- **Pricing**

Survey Participation

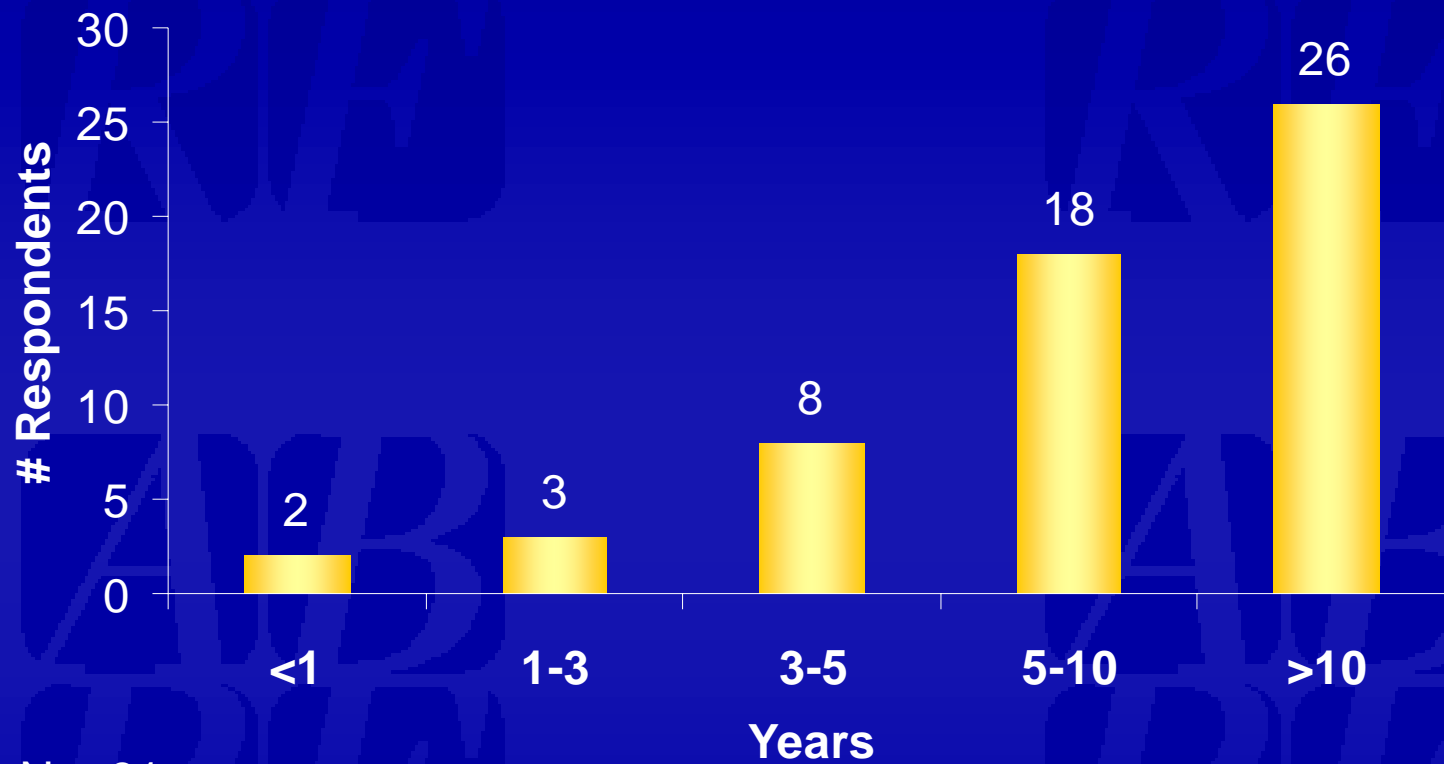
Location:	USA	Canada	Europe	Other
# Respondents:	38	10	8	5



Mini Survey – Participant Information

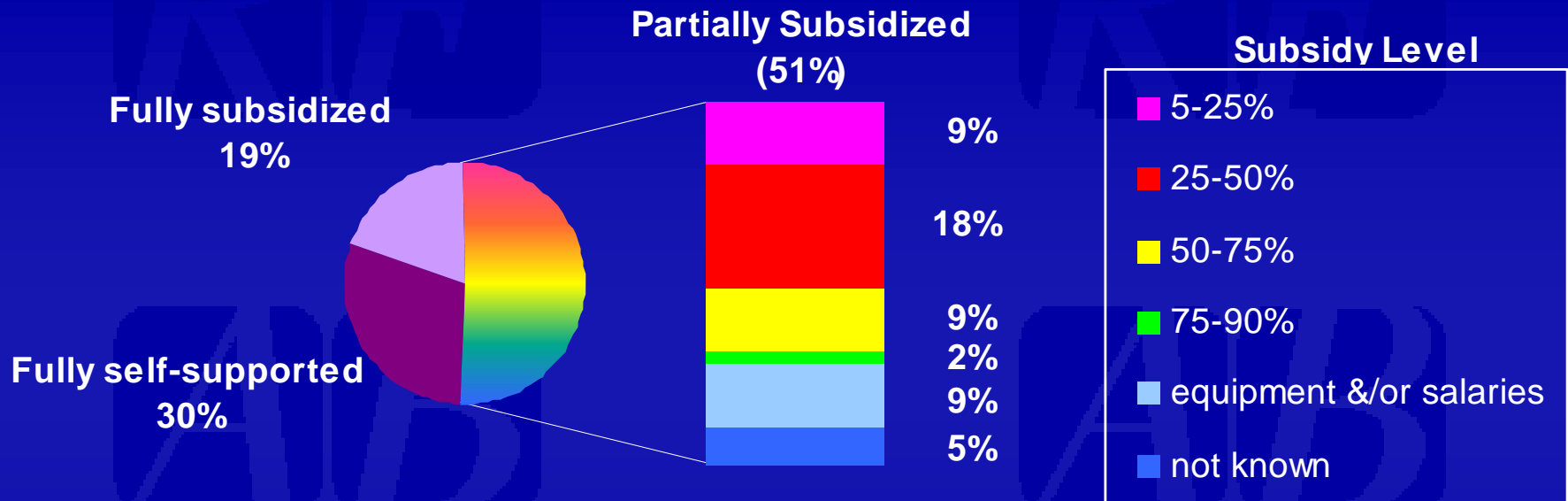


Age of Facility



N = 61

Funding

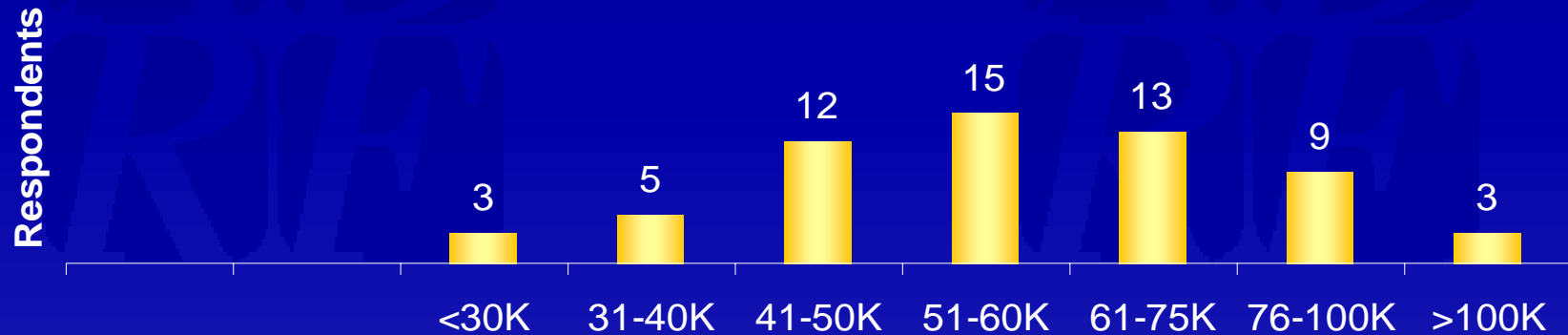


N = 61

Partial Subsidy
Range: 5% - 85%
Median: 34%

Salary Comparisons

Directors/Managers



Technicians

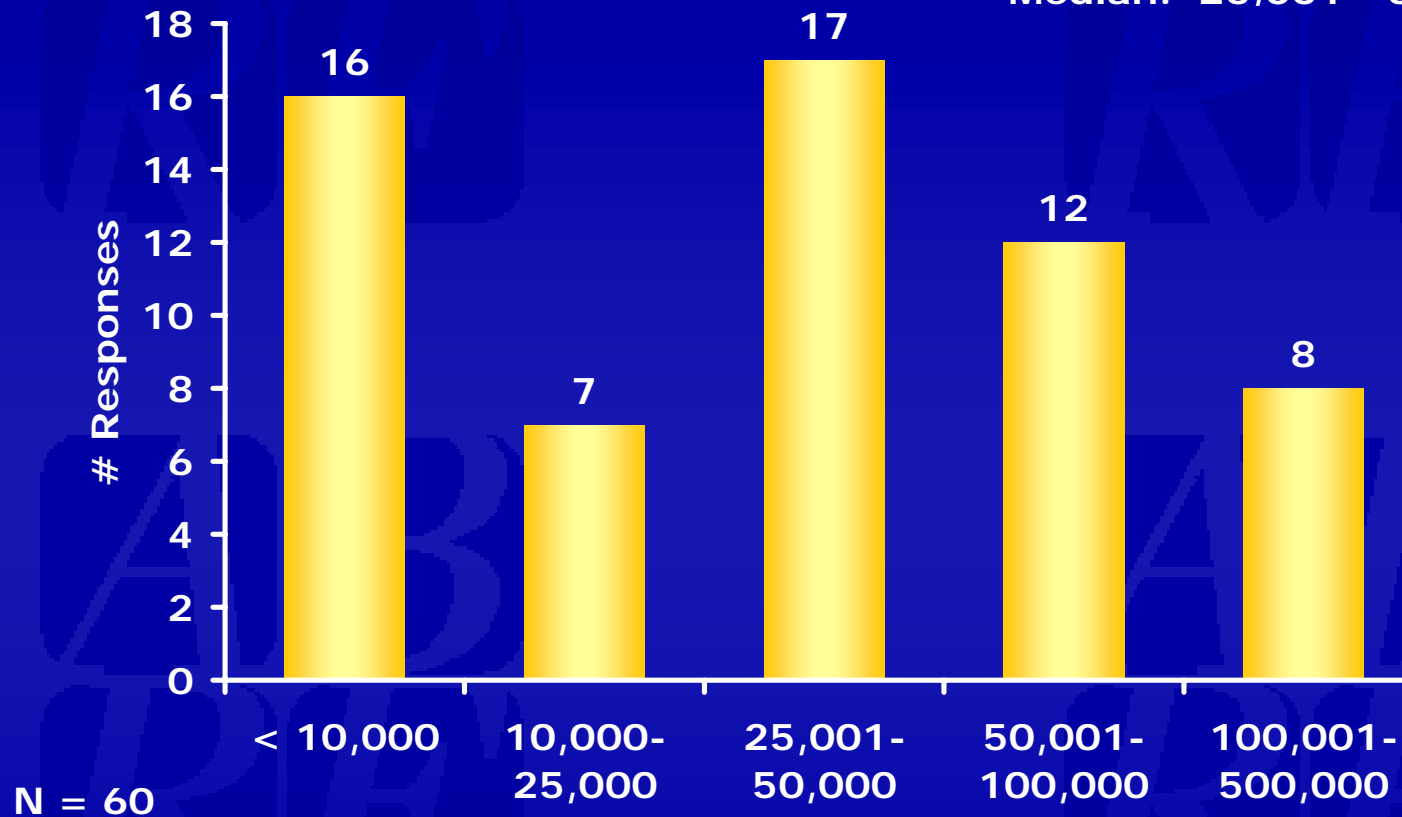


N = 60

Number of Sequencing Reactions

Range: <10,000 - 500,000

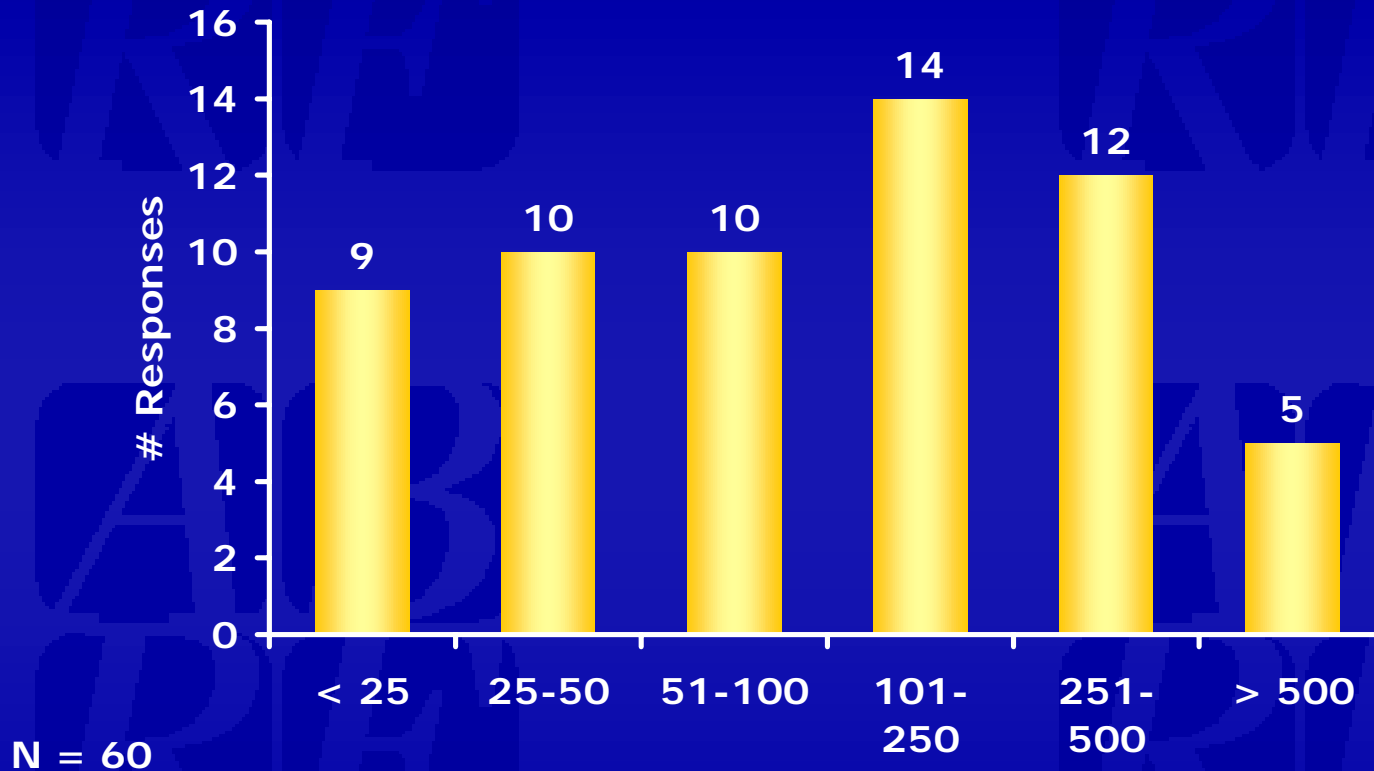
Median: 25,001 - 50,000



Number of Requestors

Range: <25 to >500

Median: 101 - 250



Additional Services

Service	Responses
Fragment Analysis	45
DNA Preparation	23
SNP Confirmation/Discovery	19
Microarray	5
RT PCR	5

N=61

Request Submission

Method	Responses
Electronically - LIMS	26
Paper Format	24
Electronically - Spreadsheets	15
Email	13
Paper Format - Staff Entry into LIMS	4

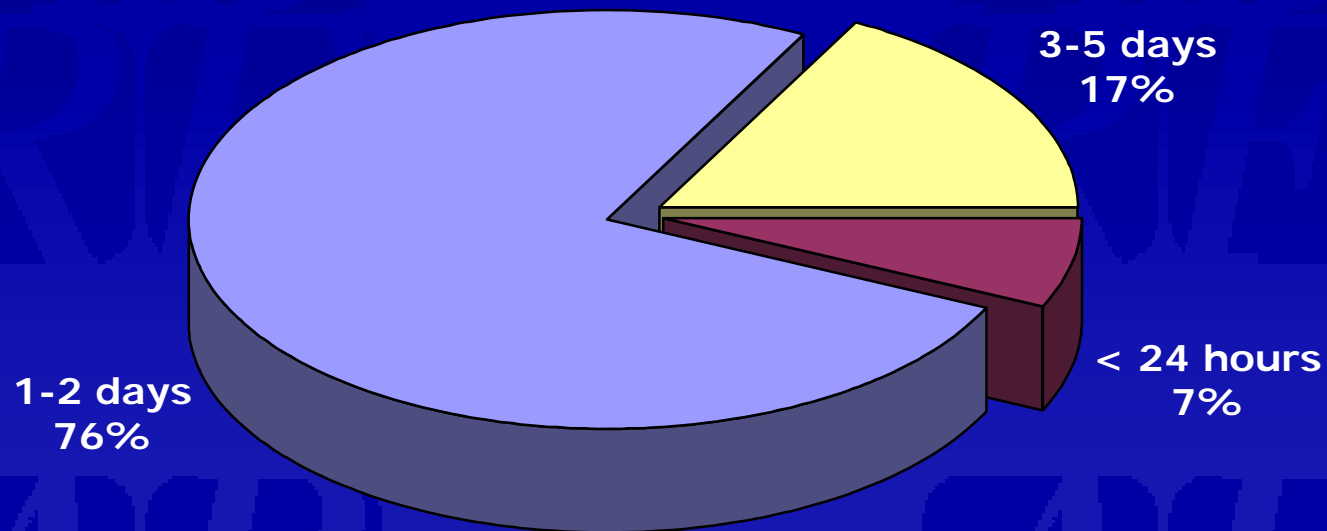
N=60

Request Processing

Method	Responses
In-house LIMS	20
Spreadsheets	14
Commercial LIMS	12
Paper Format	9

N=57

Average Turn-Around Time Unedited Sequence



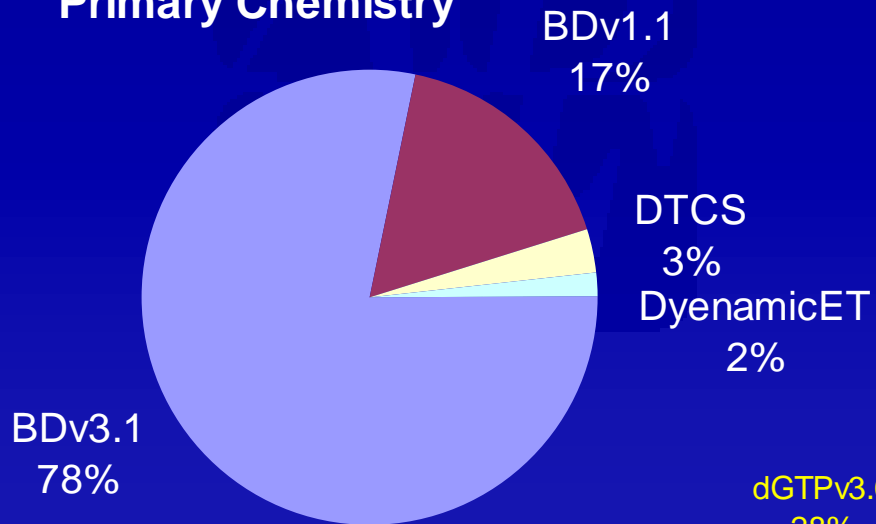
N = 58

Range: 4 hours - 5 days

Median: 1 - 2 days

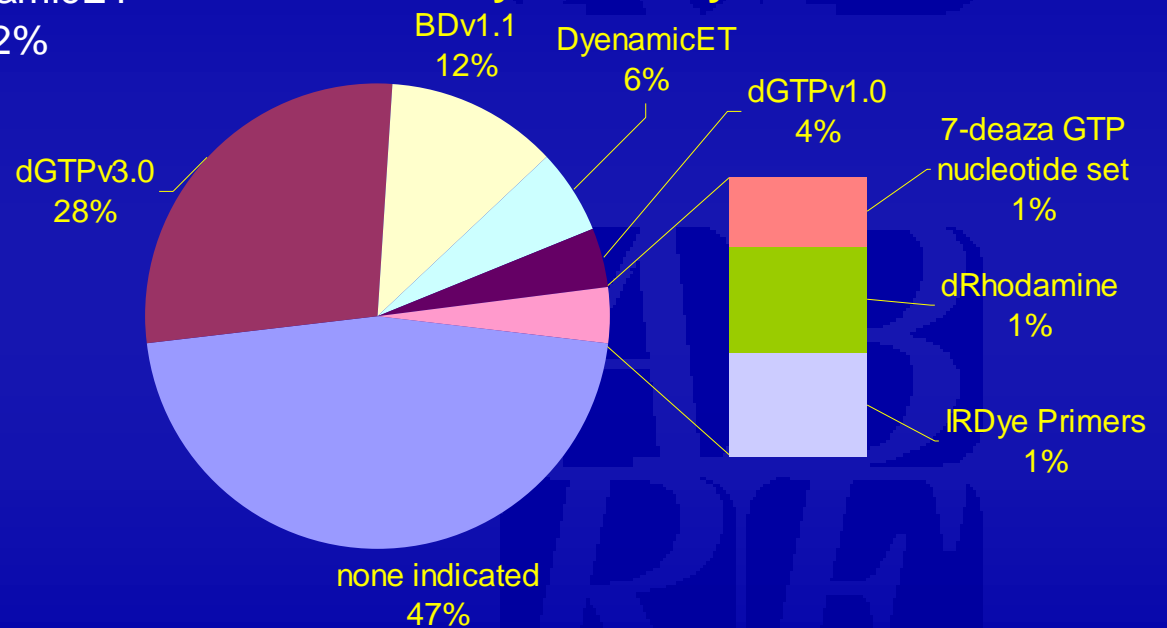
Chemistry

Primary Chemistry



N=61

Secondary Chemistry



N=61

Reaction Vessels

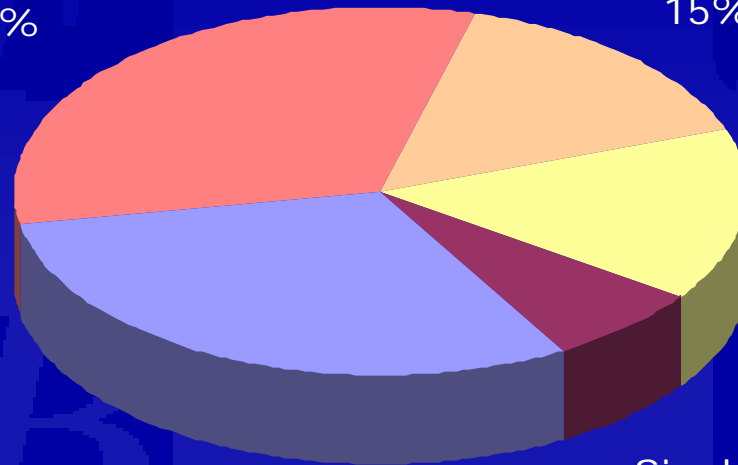
Format	Responses
96-well Plates	52
8x12 Strip Tubes	23
Single Tubes	17
384-well Plates	3

N=61

Post-Reaction Clean Up

96-well filter
plates -
Commercial
32%

96-well filter
plates -
Homemade
15%

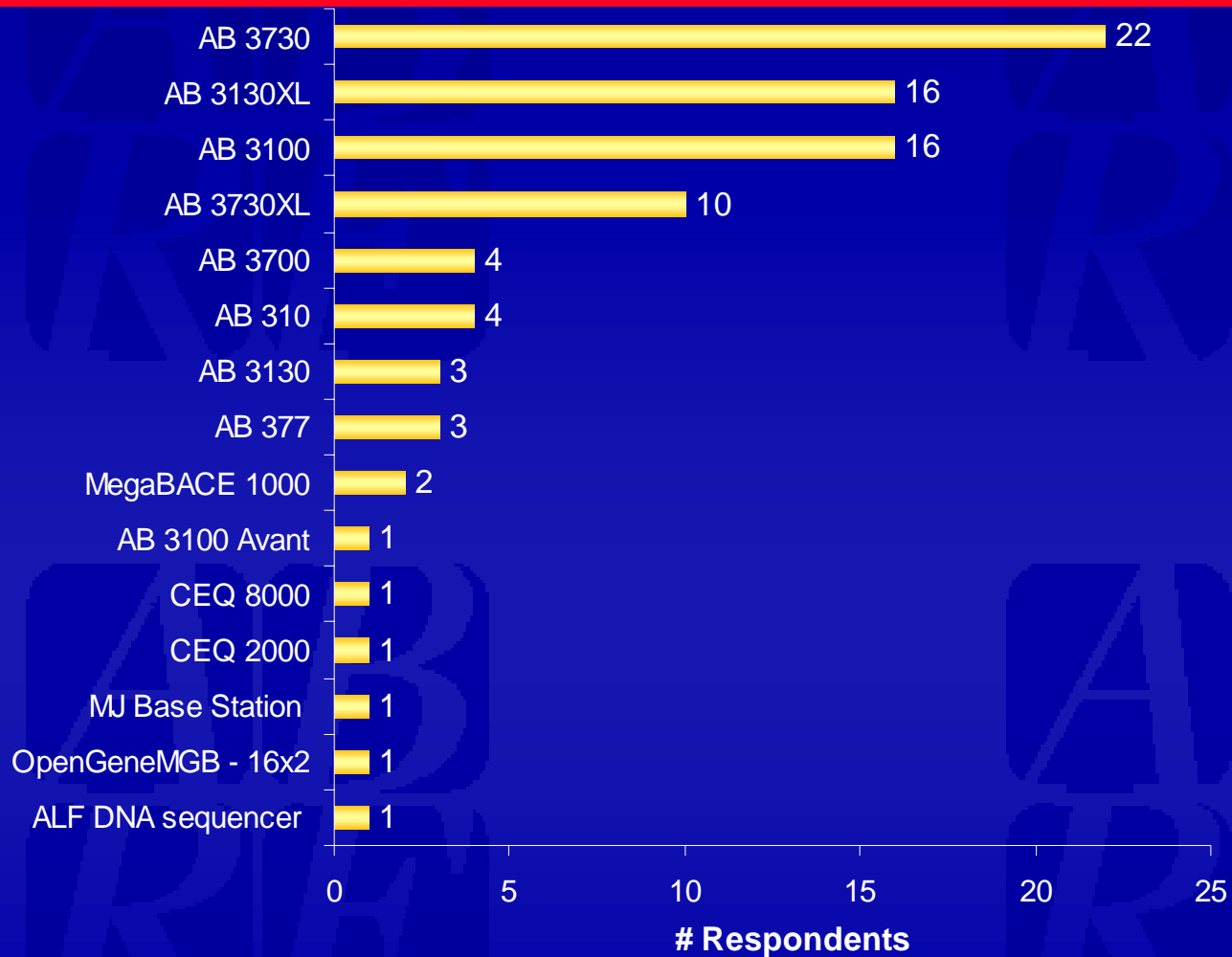


Magnetic
Beads
15%

Alcohol
Precipitation
31%

Single Spin
Columns
7%

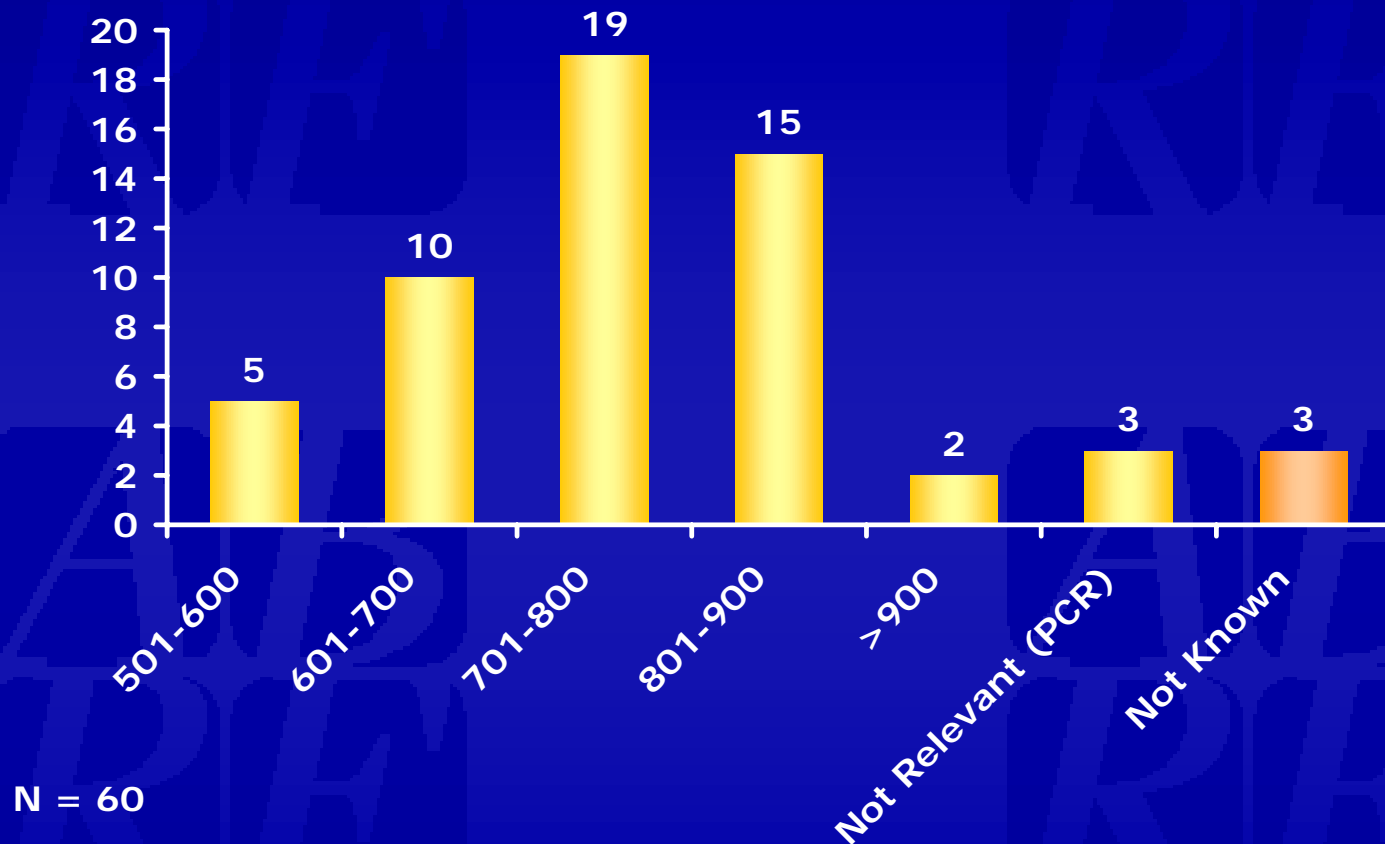
Instrumentation - Sequencers



Q/KB>20 Read Length

Range: 501 to >900 bases

Median: 701 - 800 bases



Prices - Low Throughput (Internal)

Service	Entire Survey	USA	Canada	Europe	Other
Count	45	29	7	5	4
Range	\$1.35 - \$30.00	\$1.35 - \$15.00	\$5.27 - \$21.95	\$4.00 - \$8.61	\$12.00 - \$30.00
Median	\$8.78	\$9.00	\$8.78	\$6.07	\$15.09
Mode	\$10.00	\$10.00	\$8.78	N/A	N/A

N=49

Prices

- **Billing for Repeats (n=58)**
 - Always at Full Price - 16%
 - Sometimes - 60%
 - Never - 24%

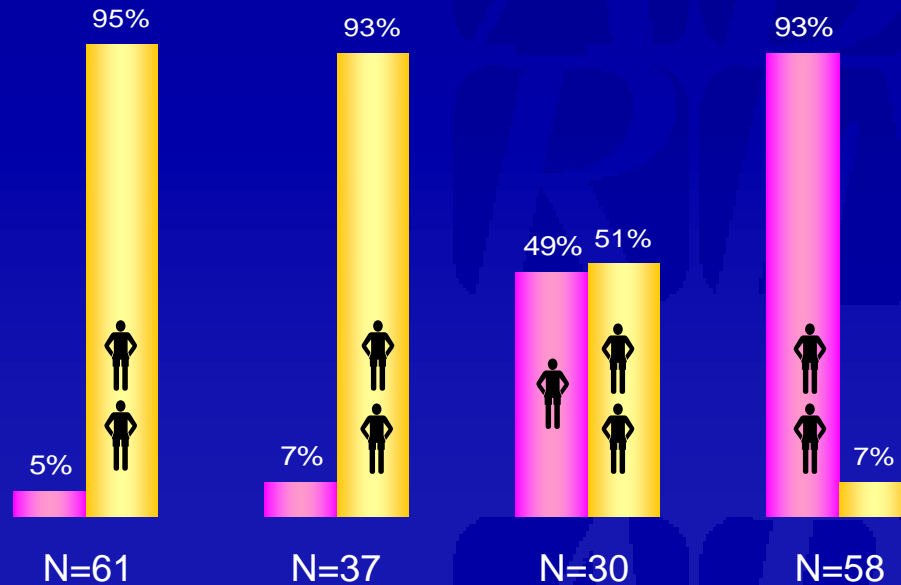
“Depends on whether the user has pissed me off...”

- **User Response to Prices (n=56)**
 - Favourable - 86%
 - Unfavourable - 9%
 - Mixed - 5%

Survey Comparisons

Sequencing Technology

■ capillary
■ slab gel



In-House Sequencing
(Rxn & Run)

Range
Median

1998

Max \$37

\$15

2000

\$5 - \$25

\$13

2003

\$6 - \$23

\$13

2005

\$1 - \$30

\$7.01

Turnaround Time

Range
Median

3-168hrs

51hrs

20-96hrs

53hrs

14-96hrs

36hrs

Acknowledgements

- All of the labs who participated in the survey

THANKS!

- Chris Walls (University of Utah) for survey design

check out our poster (P081), and watch for full survey results in JBT later this year!

www.abrf.org/DSRG

