

## TABLE OF CONTENTS

TABLE OF CONTENTS .....	3
LIST OF TABLES .....	4
THE QUESTIONNAIRE .....	23
SURVEY PARTICIPANTS .....	28
CHARACTERISTICS OF THE SAMPLE .....	28
SUMMARY OF MAIN FINDINGS .....	29
1. Medical Tests .....	49
2. Equipment Sharing .....	55
3. Cost Structure .....	74
4. Administrative Time Management .....	83
5. Procurement .....	91
6. Personnel .....	94
7. Laboratory Waste, Toxicity, and Environmental Practices .....	104
8. Staff Time .....	107
9. Technology .....	122
10. Documentation of Experiments .....	128
11. Parting Thoughts .....	130

## LIST OF TABLES

Table 1.1:	Does the laboratory outsource gene sequencing? .....	51
Table 1.2:	Does the laboratory outsource gene sequencing? Broken out by country. ....	51
Table 1.3:	Does the laboratory outsource gene sequencing? Broken out by the total square footage of the lab(s). ....	51
Table 1.4:	Does the laboratory outsource gene sequencing? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	51
Table 1.5:	Does the laboratory outsource gene sequencing? Broken out by the lab's primary focus. ....	51
Table 1.6:	Does the laboratory outsource DNA preparation? .....	52
Table 1.7:	Does the laboratory outsource DNA preparation? Broken out by country. ....	52
Table 1.8:	Does the laboratory outsource DNA preparation? Broken out by the total square footage of the lab(s). ....	52
Table 1.9:	Does the laboratory outsource DNA preparation? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	52
Table 1.10:	Does the laboratory outsource DNA preparation? Broken out by the lab's primary focus. ....	52
Table 1.11:	Does the laboratory outsource pathological analysis? .....	53
Table 1.12:	Does the laboratory outsource pathological analysis? Broken out by country. ....	53
Table 1.13:	Does the laboratory outsource pathological analysis? Broken out by the total square footage of the lab(s). ....	53
Table 1.14:	Does the laboratory outsource pathological analysis? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	53
Table 1.15:	Does the laboratory outsource pathological analysis? Broken out by the lab's primary focus. ....	53
Table 1.16:	Does the laboratory outsource the housing and feeding of lab animals? .....	54
Table 1.17:	Does the laboratory outsource the housing and feeding of lab animals? Broken out by country. ....	54
Table 1.18:	Does the laboratory outsource the housing and feeding of lab animals? Broken out by the total square footage of the lab(s). ....	54
Table 1.19:	Does the laboratory outsource the housing and feeding of lab animals? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	54
Table 1.20:	Does the laboratory outsource the housing and feeding of lab animals? Broken out by the lab's primary focus. ....	54
Table 2.1:	What was the laboratory's total spending for the lease or rental of equipment in the past year? .....	55
Table 2.2:	What was the laboratory's total spending for the lease or rental of equipment in the past year? Broken out by country. ....	55

Table 2.3:	What was the laboratory's total spending for the lease or rental of equipment in the past year? Broken out by the total square footage of the lab(s). ....	55
Table 2.4:	What was the laboratory's total spending for the lease or rental of equipment in the past year? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	55
Table 2.5:	What was the laboratory's total spending for the lease or rental of equipment in the past year? Broken out by the lab's primary focus. ....	55
Table 2.6:	What was the laboratory's total spending for the purchase of equipment in the past year? ....	56
Table 2.7:	What was the laboratory's total spending for the purchase of equipment in the past year? Broken out by country. ....	56
Table 2.8:	What was the laboratory's total spending for the purchase of equipment in the past year? Broken out by the total square footage of the lab(s). ....	56
Table 2.9:	What was the laboratory's total spending for the purchase of equipment in the past year? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	56
Table 2.10:	What was the laboratory's total spending for the purchase of equipment in the past year? Broken out by the lab's primary focus. ....	56
Table 2.11:	What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year? ....	57
Table 2.12:	What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year? Broken out by country. ....	57
Table 2.13:	What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year? Broken out by the total square footage of the lab(s). ....	57
Table 2.14:	What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	57
Table 2.15:	What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year? Broken out by the lab's primary focus. ....	57
Table 2.16:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the availability of funds for needed lab equipment and information technology? ....	58
Table 2.17:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the availability of funds for needed lab equipment and information technology? Broken out by country. ....	58
Table 2.18:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the availability of funds for needed lab equipment and information technology? Broken out by the total square footage of the lab(s). ....	58

Table 2.19:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the availability of funds for needed lab equipment and information technology? Broken out by the lab's total number of full-time equivalent employees in 2012.....	58
Table 2.20:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the availability of funds for needed lab equipment and information technology? Broken out by the lab's primary focus. ....	59
Table 2.21:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the timeliness of delivery of needed funds?.....	60
Table 2.22:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the timeliness of delivery of needed funds? Broken out by country. ....	60
Table 2.23:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the timeliness of delivery of needed funds? Broken out by the total square footage of the lab(s).....	60
Table 2.24:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the timeliness of delivery of needed funds? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	60
Table 2.25:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the timeliness of delivery of needed funds? Broken out by the lab's primary focus. ....	61
Table 2.26:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the efficiency of repairs and maintenance support for lab equipment and information technology?.....	62
Table 2.27:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the efficiency of repairs and maintenance support for lab equipment and information technology? Broken out by country. ....	62
Table 2.28:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the efficiency of repairs and maintenance support for lab equipment and information technology? Broken out by the total square footage of the lab(s). ....	62
Table 2.29:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the efficiency of repairs and maintenance support for lab equipment and information technology? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	62

Table 2.30:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the efficiency of repairs and maintenance support for lab equipment and information technology? Broken out by the lab's primary focus. ....	63
Table 2.31:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the quality of training offered or funds for training on new equipment and new software?.....	64
Table 2.32:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the quality of training offered or funds for training on new equipment and new software? Broken out by country. ....	64
Table 2.33:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the quality of training offered or funds for training on new equipment and new software? Broken out by the total square footage of the lab(s). ....	64
Table 2.34:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the quality of training offered or funds for training on new equipment and new software? Broken out by the lab's total number of full-time equivalent employees in 2012.....	64
Table 2.35:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the quality of training offered or funds for training on new equipment and new software? Broken out by the lab's primary focus. ....	65
Table 2.36:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the ease of applying for funds and payment for vendors of new equipment? .....	66
Table 2.37:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the ease of applying for funds and payment for vendors of new equipment? Broken out by country. ....	66
Table 2.38:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the ease of applying for funds and payment for vendors of new equipment? Broken out by the total square footage of the lab(s). ....	66
Table 2.39:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the ease of applying for funds and payment for vendors of new equipment? Broken out by the lab's total number of full-time equivalent employees in 2012.....	66
Table 2.40:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the ease of applying for funds and payment for vendors of new equipment? Broken out by the lab's primary focus. ....	67

Table 2.41:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the influence over choice of vendors? .....	68
Table 2.42:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the influence over choice of vendors? Broken out by country. ....	68
Table 2.43:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the influence over choice of vendors? Broken out by the total square footage of the lab(s). ....	68
Table 2.44:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the influence over choice of vendors? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	68
Table 2.45:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning the influence over choice of vendors? Broken out by the lab's primary focus. ....	69
Table 2.46:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning timely and significant access to equipment shared with other labs? .....	70
Table 2.47:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning timely and significant access to equipment shared with other labs? Broken out by country. ....	70
Table 2.48:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning timely and significant access to equipment shared with other labs? Broken out by the total square footage of the lab(s). ....	70
Table 2.49:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning timely and significant access to equipment shared with other labs? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	70
Table 2.50:	How would you evaluate the support your lab receives from the university (or other parent organization) concerning timely and significant access to equipment shared with other labs? Broken out by the lab's primary focus. ....	71
Table 3.1:	Approximately what percentage of total laboratory costs is accounted for by salaries and benefits? .....	74
Table 3.2:	Approximately what percentage of total laboratory costs is accounted for by salaries and benefits? Broken out by country. ....	74
Table 3.3:	Approximately what percentage of total laboratory costs is accounted for by salaries and benefits? Broken out by the total square footage of the lab(s).....	74

Table 3.4:	Approximately what percentage of total laboratory costs is accounted for by salaries and benefits? Broken out by the lab's total number of full-time equivalent employees in 2012.....	74
Table 3.5:	Approximately what percentage of total laboratory costs is accounted for by salaries and benefits? Broken out by the lab's primary focus. ....	74
Table 3.6:	Approximately what percentage of total laboratory costs is accounted for by instruments and equipment? .....	75
Table 3.7:	Approximately what percentage of total laboratory costs is accounted for by instruments and equipment? Broken out by country. ....	75
Table 3.8:	Approximately what percentage of total laboratory costs is accounted for by instruments and equipment? Broken out by the total square footage of the lab(s).....	75
Table 3.9:	Approximately what percentage of total laboratory costs is accounted for by instruments and equipment? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	75
Table 3.10:	Approximately what percentage of total laboratory costs is accounted for by instruments and equipment? Broken out by the lab's primary focus.....	75
Table 3.11:	Approximately what percentage of total laboratory costs is accounted for by animal and biological materials?.....	76
Table 3.12:	Approximately what percentage of total laboratory costs is accounted for by animal and biological materials? Broken out by country. ....	76
Table 3.13:	Approximately what percentage of total laboratory costs is accounted for by animal and biological materials? Broken out by the total square footage of the lab(s). ....	76
Table 3.14:	Approximately what percentage of total laboratory costs is accounted for by animal and biological materials? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	76
Table 3.15:	Approximately what percentage of total laboratory costs is accounted for by animal and biological materials? Broken out by the lab's primary focus. ....	76
Table 3.16:	Approximately what percentage of total laboratory costs is accounted for by overhead (facilities, administration, marketing, utilities, etc.)?.....	77
Table 3.17:	Approximately what percentage of total laboratory costs is accounted for by overhead (facilities, administration, marketing, utilities, etc.)? Broken out by country. ....	77
Table 3.18:	Approximately what percentage of total laboratory costs is accounted for by overhead (facilities, administration, marketing, utilities, etc.)? Broken out by the total square footage of the lab(s). ....	77
Table 3.19:	Approximately what percentage of total laboratory costs is accounted for by overhead (facilities, administration, marketing,	

	utilities, etc.)? Broken out by the lab's total number of full-time equivalent employees in 2012.....	77
Table 3.20:	Approximately what percentage of total laboratory costs is accounted for by overhead (facilities, administration, marketing, utilities, etc.)? Broken out by the lab's primary focus. ....	77
Table 3.21:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from your institutional budget? .....	78
Table 3.22:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from your institutional budget? Broken out by country. ....	78
Table 3.23:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from your institutional budget? Broken out by the total square footage of the lab(s). ....	78
Table 3.24:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from your institutional budget? Broken out by the lab's total number of full-time equivalent employees in 2012.....	78
Table 3.25:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from your institutional budget? Broken out by the lab's primary focus. ....	78
Table 3.26:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from outside grants? .....	79
Table 3.27:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from outside grants? Broken out by country. ....	79
Table 3.28:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from outside grants? Broken out by the total square footage of the lab(s). ....	79
Table 3.29:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from outside grants? Broken out by the lab's total number of full-time equivalent employees in 2012.....	79
Table 3.30:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from outside grants? Broken out by the lab's primary focus. ....	79
Table 3.31:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from special grants from within your institution?.....	80
Table 3.32:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from special grants from within your institution? Broken out by country. ....	80
Table 3.33:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from special grants from within your institution? Broken out by the total square footage of the lab(s). ....	80



Table 3.34:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from special grants from within your institution? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	80
Table 3.35:	What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from special grants from within your institution? Broken out by the lab's primary focus. ....	80
Table 3.36:	How would you describe your laboratory's outlook for funding? .....	81
Table 3.37:	How would you describe your laboratory's outlook for funding? Broken out by country. ....	81
Table 3.38:	How would you describe your laboratory's outlook for funding? Broken out by the total square footage of the lab(s). ....	81
Table 3.39:	How would you describe your laboratory's outlook for funding? Broken out by the lab's total number of full-time equivalent employees in 2012.....	81
Table 3.40:	How would you describe your laboratory's outlook for funding? Broken out by the lab's primary focus. ....	81
Table 4.1:	Who would you say handles ordering supplies in your lab? .....	83
Table 4.2:	Who would you say handles ordering supplies in your lab? Broken out by country. ....	83
Table 4.3:	Who would you say handles ordering supplies in your lab? Broken out by the total square footage of the lab(s). ....	83
Table 4.4:	Who would you say handles ordering supplies in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012.....	83
Table 4.5:	Who would you say handles ordering supplies in your lab? Broken out by the lab's primary focus. ....	83
Table 4.6:	Who would you say handles the maintaining of the animals in your lab? .....	84
Table 4.7:	Who would you say handles the maintaining of the animals in your lab? Broken out by country.....	84
Table 4.8:	Who would you say handles the maintaining of the animals in your lab? Broken out by the total square footage of the lab(s). ....	84
Table 4.9:	Who would you say handles the maintaining of the animals in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012.....	84
Table 4.10:	Who would you say handles the maintaining of the animals in your lab? Broken out by the lab's primary focus. ....	84
Table 4.11:	Who would you say handles the inventory of chemicals, reagents, and other supplies in your lab? .....	85
Table 4.12:	Who would you say handles the inventory of chemicals, reagents, and other supplies in your lab? Broken out by country.....	85
Table 4.13:	Who would you say handles the inventory of chemicals, reagents, and other supplies in your lab? Broken out by the total square footage of the lab(s).....	85

Table 4.14:	Who would you say handles the inventory of chemicals, reagents, and other supplies in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	85
Table 4.15:	Who would you say handles the inventory of chemicals, reagents, and other supplies in your lab? Broken out by the lab's primary focus. ....	85
Table 4.16:	Who would you say handles installing equipment in your lab? .....	86
Table 4.17:	Who would you say handles installing equipment in your lab? Broken out by country. ....	86
Table 4.18:	Who would you say handles installing equipment in your lab? Broken out by the total square footage of the lab(s). ....	86
Table 4.19:	Who would you say handles installing equipment in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012.....	86
Table 4.20:	Who would you say handles installing equipment in your lab? Broken out by the lab's primary focus. ....	86
Table 4.21:	Who would you say handles paying invoices in your lab?.....	87
Table 4.22:	Who would you say handles paying invoices in your lab? Broken out by country. ....	87
Table 4.23:	Who would you say handles paying invoices in your lab? Broken out by the total square footage of the lab(s). ....	87
Table 4.24:	Who would you say handles paying invoices in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	87
Table 4.25:	Who would you say handles paying invoices in your lab? Broken out by the lab's primary focus. ....	87
Table 4.26:	Who would you say handles the supervision of time off and sick leave in your lab? .....	88
Table 4.27:	Who would you say handles the supervision of time off and sick leave in your lab? Broken out by country.....	88
Table 4.28:	Who would you say handles the supervision of time off and sick leave in your lab? Broken out by the total square footage of the lab(s). ....	88
Table 4.29:	Who would you say handles the supervision of time off and sick leave in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012.....	88
Table 4.30:	Who would you say handles the supervision of time off and sick leave in your lab? Broken out by the lab's primary focus. ....	88
Table 4.31:	Who would you say handles the budgeting and accounting in your lab? .....	89
Table 4.32:	Who would you say handles the budgeting and accounting in your lab? Broken out by country.....	89
Table 4.33:	Who would you say handles the budgeting and accounting in your lab? Broken out by the total square footage of the lab(s). ....	89

Table 4.34:	Who would you say handles the budgeting and accounting in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012.....	89
Table 4.35:	Who would you say handles the budgeting and accounting in your lab? Broken out by the lab's primary focus.....	89
Table 4.36:	Who would you say handles the communications with building or facilities management in your lab? .....	90
Table 4.37:	Who would you say handles the communications with building or facilities management in your lab? Broken out by country.....	90
Table 4.38:	Who would you say handles the communications with building or facilities management in your lab? Broken out by the total square footage of the lab(s).....	90
Table 4.39:	Who would you say handles the communications with building or facilities management in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	90
Table 4.40:	Who would you say handles the communications with building or facilities management in your lab? Broken out by the lab's primary focus. ....	90
Table 5.1:	How does the laboratory purchase most of its equipment? .....	91
Table 5.2:	How does the laboratory purchase most of its equipment? Broken out by country. ....	91
Table 5.3:	How does the laboratory purchase most of its equipment? Broken out by the total square footage of the lab(s). ....	91
Table 5.4:	How does the laboratory purchase most of its equipment? Broken out by the lab's total number of full-time equivalent employees in 2012.....	91
Table 5.5:	How does the laboratory purchase most of its equipment? Broken out by the lab's primary focus. ....	92
Table 6.1:	What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees?.....	94
Table 6.2:	What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees? Broken out by country.....	94
Table 6.3:	What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees? Broken out by the total square footage of the lab(s).....	94
Table 6.4:	What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	94

Table 6.5:	What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees? Broken out by the lab's primary focus. ....	94
Table 6.6:	How many scientists are on your overall laboratory staff? .....	95
Table 6.7:	How many scientists are on your overall laboratory staff? Broken out by country. ....	95
Table 6.8:	How many scientists are on your overall laboratory staff? Broken out by the total square footage of the lab(s). ....	95
Table 6.9:	How many scientists are on your overall laboratory staff? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	95
Table 6.10:	How many scientists are on your overall laboratory staff? Broken out by the lab's primary focus. ....	95
Table 6.11:	How many technicians are on your overall laboratory staff? .....	96
Table 6.12:	How many technicians are on your overall laboratory staff? Broken out by country. ....	96
Table 6.13:	How many technicians are on your overall laboratory staff? Broken out by the total square footage of the lab(s). ....	96
Table 6.14:	How many technicians are on your overall laboratory staff? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	96
Table 6.15:	How many technicians are on your overall laboratory staff? Broken out by the lab's primary focus. ....	96
Table 6.16:	How many custodial, clerical, security, or other such employees that aren't scientists or technicians are on your overall laboratory staff? .....	97
Table 6.17:	How many custodial, clerical, security, or other such employees that aren't scientists or technicians are on your overall laboratory staff? Broken out by country. ....	97
Table 6.18:	How many custodial, clerical, security, or other such employees that aren't scientists or technicians are on your overall laboratory staff? Broken out by the total square footage of the lab(s). ....	97
Table 6.19:	How many custodial, clerical, security, or other such employees that aren't scientists or technicians are on your overall laboratory staff? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	97
Table 6.20:	How many custodial, clerical, security, or other such employees that aren't scientists or technicians are on your overall laboratory staff? Broken out by the lab's primary focus. ....	97
Table 6.21:	How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the technicians, office personnel, and other support staff who work in the lab? .....	98
Table 6.22:	How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the	

	technicians, office personnel, and other support staff who work in the lab? Broken out by country. ....	98
Table 6.23:	How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the technicians, office personnel, and other support staff who work in the lab? Broken out by the total square footage of the lab(s). ....	98
Table 6.24:	How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the technicians, office personnel, and other support staff who work in the lab? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	99
Table 6.25:	How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the technicians, office personnel, and other support staff who work in the lab? Broken out by the lab's primary focus. ....	99
Table 6.26:	How would you evaluate the total number of meetings held by the researchers in your lab? .....	100
Table 6.27:	How would you evaluate the total number of meetings held by the researchers in your lab? Broken out by country. ....	100
Table 6.28:	How would you evaluate the total number of meetings held by the researchers in your lab? Broken out by the total square footage of the lab(s). ....	100
Table 6.29:	How would you evaluate the total number of meetings held by the researchers in your lab? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	100
Table 6.30:	How would you evaluate the total number of meetings held by the researchers in your lab? Broken out by the lab's primary focus. ....	100
Table 6.31:	What is the prevailing attitude in the lab about socializing with your peers after work? .....	101
Table 6.32:	What is the prevailing attitude in the lab about socializing with your peers after work? Broken out by country. ....	101
Table 6.33:	What is the prevailing attitude in the lab about socializing with your peers after work? Broken out by the total square footage of the lab(s). ....	101
Table 6.34:	What is the prevailing attitude in the lab about socializing with your peers after work? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	101
Table 6.35:	What is the prevailing attitude in the lab about socializing with your peers after work? Broken out by the lab's primary focus. ....	101
Table 7.1:	How easy has it been to follow environmental and safety procedures in your lab over the past five years? .....	104
Table 7.2:	How easy has it been to follow environmental and safety procedures in your lab over the past five years? Broken out by country. ....	104

Table 7.3:	How easy has it been to follow environmental and safety procedures in your lab over the past five years? Broken out by the total square footage of the lab(s).....	104
Table 7.4:	How easy has it been to follow environmental and safety procedures in your lab over the past five years? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	105
Table 7.5:	How easy has it been to follow environmental and safety procedures in your lab over the past five years? Broken out by the lab's primary focus.....	105
Table 7.6:	How well trained is the laboratory staff in environmental and safety procedures? .....	106
Table 7.7:	How well trained is the laboratory staff in environmental and safety procedures? Broken out by country. ....	106
Table 7.8:	How well trained is the laboratory staff in environmental and safety procedures? Broken out by the total square footage of the lab(s). ....	106
Table 7.9:	How well trained is the laboratory staff in environmental and safety procedures? Broken out by the lab's total number of full-time equivalent employees in 2012.....	106
Table 7.10:	How well trained is the laboratory staff in environmental and safety procedures? Broken out by the lab's primary focus. ....	106
Table 8.1:	Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal? .....	107
Table 8.2:	Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal? Broken out by country.....	107
Table 8.3:	Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal? Broken out by the total square footage of the lab(s). ....	107
Table 8.4:	Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal? Broken out by the lab's total number of full-time equivalent employees in 2012.....	107
Table 8.5:	Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal? Broken out by the lab's primary focus. ....	107
Table 8.6:	How would you rate the effectiveness of your institution's handling of budgeting and cost analysis? .....	108

Table 8.7:	How would you rate the effectiveness of your institution's handling of budgeting and cost analysis? Broken out by country. ....	108
Table 8.8:	How would you rate the effectiveness of your institution's handling of budgeting and cost analysis? Broken out by the total square footage of the lab(s).....	108
Table 8.9:	How would you rate the effectiveness of your institution's handling of budgeting and cost analysis? Broken out by the lab's total number of full-time equivalent employees in 2012.....	108
Table 8.10:	How would you rate the effectiveness of your institution's handling of budgeting and cost analysis? Broken out by the lab's primary focus. ....	108
Table 8.11:	How would you rate the effectiveness of your institution's handling of purchasing? .....	109
Table 8.12:	How would you rate the effectiveness of your institution's handling of purchasing? Broken out by country. ....	109
Table 8.13:	How would you rate the effectiveness of your institution's handling of purchasing? Broken out by the total square footage of the lab(s). ....	109
Table 8.14:	How would you rate the effectiveness of your institution's handling of purchasing? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	109
Table 8.15:	How would you rate the effectiveness of your institution's handling of purchasing? Broken out by the lab's primary focus. ....	109
Table 8.16:	How would you rate the effectiveness of your institution's handling of accounting? .....	110
Table 8.17:	How would you rate the effectiveness of your institution's handling of accounting? Broken out by country. ....	110
Table 8.18:	How would you rate the effectiveness of your institution's handling of accounting? Broken out by the total square footage of the lab(s). ....	110
Table 8.19:	How would you rate the effectiveness of your institution's handling of accounting? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	110
Table 8.20:	How would you rate the effectiveness of your institution's handling of accounting? Broken out by the lab's primary focus. ....	110
Table 8.21:	How would you rate the effectiveness of your institution's handling of reimbursements? .....	111
Table 8.22:	How would you rate the effectiveness of your institution's handling of reimbursements? Broken out by country. ....	111
Table 8.23:	How would you rate the effectiveness of your institution's handling of reimbursements? Broken out by the total square footage of the lab(s).....	111
Table 8.24:	How would you rate the effectiveness of your institution's handling of reimbursements? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	111

Table 8.25:	How would you rate the effectiveness of your institution's handling of reimbursements? Broken out by the lab's primary focus. ....	111
Table 8.26:	How would you rate the effectiveness of your institution's handling of inventory control? .....	112
Table 8.27:	How would you rate the effectiveness of your institution's handling of inventory control? Broken out by country. ....	112
Table 8.28:	How would you rate the effectiveness of your institution's handling of inventory control? Broken out by the total square footage of the lab(s).....	112
Table 8.29:	How would you rate the effectiveness of your institution's handling of inventory control? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	112
Table 8.30:	How would you rate the effectiveness of your institution's handling of inventory control? Broken out by the lab's primary focus. ....	112
Table 8.31:	How would you rate the effectiveness of your institution's handling of capital equipment acquisitions?.....	113
Table 8.32:	How would you rate the effectiveness of your institution's handling of capital equipment acquisitions? Broken out by country. ....	113
Table 8.33:	How would you rate the effectiveness of your institution's handling of capital equipment acquisitions? Broken out by the total square footage of the lab(s).....	113
Table 8.34:	How would you rate the effectiveness of your institution's handling of capital equipment acquisitions? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	113
Table 8.35:	How would you rate the effectiveness of your institution's handling of capital equipment acquisitions? Broken out by the lab's primary focus.....	113
Table 8.36:	How would you rate the effectiveness of your institution's handling of equipment maintenance?.....	114
Table 8.37:	How would you rate the effectiveness of your institution's handling of equipment maintenance? Broken out by country. ....	114
Table 8.38:	How would you rate the effectiveness of your institution's handling of equipment maintenance? Broken out by the total square footage of the lab(s).....	114
Table 8.39:	How would you rate the effectiveness of your institution's handling of equipment maintenance? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	114
Table 8.40:	How would you rate the effectiveness of your institution's handling of equipment maintenance? Broken out by the lab's primary focus. ....	114
Table 8.41:	How would you rate the effectiveness of your institution's handling of billing and collection?.....	115
Table 8.42:	How would you rate the effectiveness of your institution's handling of billing and collection? Broken out by country. ....	115



Table 8.43:	How would you rate the effectiveness of your institution's handling of billing and collection? Broken out by the total square footage of the lab(s).....	115
Table 8.44:	How would you rate the effectiveness of your institution's handling of billing and collection? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	115
Table 8.45:	How would you rate the effectiveness of your institution's handling of billing and collection? Broken out by the lab's primary focus. ....	115
Table 8.46:	How would you rate the effectiveness of your institution's handling of contract negotiation with lab suppliers? .....	116
Table 8.47:	How would you rate the effectiveness of your institution's handling of contract negotiation with lab suppliers? Broken out by country. ....	116
Table 8.48:	How would you rate the effectiveness of your institution's handling of contract negotiation with lab suppliers? Broken out by the total square footage of the lab(s). ....	116
Table 8.49:	How would you rate the effectiveness of your institution's handling of contract negotiation with lab suppliers? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	116
Table 8.50:	How would you rate the effectiveness of your institution's handling of contract negotiation with lab suppliers? Broken out by the lab's primary focus. ....	116
Table 8.51:	How would you rate the effectiveness of your institution's handling of safety and environmental regulation compliance? .....	117
Table 8.52:	How would you rate the effectiveness of your institution's handling of safety and environmental regulation compliance? Broken out by country. ....	117
Table 8.53:	How would you rate the effectiveness of your institution's handling of safety and environmental regulation compliance? Broken out by the total square footage of the lab(s). ....	117
Table 8.54:	How would you rate the effectiveness of your institution's handling of safety and environmental regulation compliance? Broken out by the lab's total number of full-time equivalent employees in 2012.....	117
Table 8.55:	How would you rate the effectiveness of your institution's handling of safety and environmental regulation compliance? Broken out by the lab's primary focus. ....	117
Table 8.56:	How would you rate the effectiveness of your institution's handling of lab employee job training?.....	118
Table 8.57:	How would you rate the effectiveness of your institution's handling of lab employee job training? Broken out by country. ....	118
Table 8.58:	How would you rate the effectiveness of your institution's handling of lab employee job training? Broken out by the total square footage of the lab(s).....	118

Table 8.59:	How would you rate the effectiveness of your institution's handling of lab employee job training? Broken out by the lab's total number of full-time equivalent employees in 2012.....	118
Table 8.60:	How would you rate the effectiveness of your institution's handling of lab employee job training? Broken out by the lab's primary focus. ....	118
Table 8.61:	How would you rate the effectiveness of your institution's handling of the documentation of experiments? .....	119
Table 8.62:	How would you rate the effectiveness of your institution's handling of the documentation of experiments? Broken out by country. ....	119
Table 8.63:	How would you rate the effectiveness of your institution's handling of the documentation of experiments? Broken out by the total square footage of the lab(s).....	119
Table 8.64:	How would you rate the effectiveness of your institution's handling of the documentation of experiments? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	119
Table 8.65:	How would you rate the effectiveness of your institution's handling of the documentation of experiments? Broken out by the lab's primary focus.....	119
Table 9.1:	Does the lab use a Laboratory Management System or some form of commercial lab management software package?.....	122
Table 9.2:	Does the lab use a Laboratory Management System or some form of commercial lab management software package? Broken out by country. ....	122
Table 9.3:	Does the lab use a Laboratory Management System or some form of commercial lab management software package? Broken out by the total square footage of the lab(s). ....	122
Table 9.4:	Does the lab use a Laboratory Management System or some form of commercial lab management software package? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	122
Table 9.5:	Does the lab use a Laboratory Management System or some form of commercial lab management software package? Broken out by the lab's primary focus. ....	122
Table 9.6:	How many tablet computers does the lab maintain?.....	124
Table 9.7:	How many tablet computers does the lab maintain? Broken out by country. ....	124
Table 9.8:	How many tablet computers does the lab maintain? Broken out by the total square footage of the lab(s). ....	124
Table 9.9:	How many tablet computers does the lab maintain? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	124
Table 9.10:	How many tablet computers does the lab maintain? Broken out by the lab's primary focus. ....	124
Table 9.11:	How many laptop computers does the lab maintain?.....	125

Table 9.12:	How many laptop computers does the lab maintain? Broken out by country. ....	125
Table 9.13:	How many laptop computers does the lab maintain? Broken out by the total square footage of the lab(s). ....	125
Table 9.14:	How many laptop computers does the lab maintain? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	125
Table 9.15:	How many laptop computers does the lab maintain? Broken out by the lab's primary focus. ....	125
Table 9.16:	How many desktop computers does the lab maintain? ....	126
Table 9.17:	How many desktop computers does the lab maintain? Broken out by country. ....	126
Table 9.18:	How many desktop computers does the lab maintain? Broken out by the total square footage of the lab(s). ....	126
Table 9.19:	How many desktop computers does the lab maintain? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	126
Table 9.20:	How many desktop computers does the lab maintain? Broken out by the lab's primary focus. ....	126
Table 11.1:	Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort? ....	130
Table 11.2:	Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort? Broken out by country. ....	130
Table 11.3:	Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort? Broken out by the total square footage of the lab(s). ....	130
Table 11.4:	Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	130
Table 11.5:	Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort? Broken out by the lab's primary focus. ....	130
Table 11.6:	To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and other information resources on laboratory management? ....	131
Table 11.7:	To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and other information resources on laboratory management? Broken out by country. ....	131
Table 11.8:	To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and	

	other information resources on laboratory management? Broken out by the total square footage of the lab(s). ....	131
Table 11.9:	To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and other information resources on laboratory management? Broken out by the lab's total number of full-time equivalent employees in 2012. ....	131
Table 11.10:	To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and other information resources on laboratory management? Broken out by the lab's primary focus. ....	131

## THE QUESTIONNAIRE

### MEDICAL TESTS

1. Do you use any metrics to measure how many medical tests your laboratory conducts, the technical and scientific labor time needed to conduct these tests, or the direct and indirect costs of such tests? If so, have you developed these metrics? How useful are they?
2. Does the laboratory outsource \_\_\_\_\_?
  - A. Gene sequencing
  - B. DNA preparation
  - C. Pathological analysis
  - D. The housing and feeding of lab animals

### EQUIPMENT SHARING

3. What was the laboratory's total spending for the lease or rental of equipment in the past year?
4. What was the laboratory's total spending for the purchase of equipment in the past year?
5. What was the laboratory's total spending—including both purchase and lease/rental—for equipment in the past year?
6. How would you evaluate the support your lab receives from the university (or other parent organization) concerning the \_\_\_\_\_?
  - A. Availability of funds for needed lab equipment and information technology
  - B. Timeliness of delivery of needed funds
  - C. Efficiency of repairs and maintenance support for lab equipment and information technology
  - D. Quality of training offered or funds for training on new equipment and new software
  - E. Ease of applying for funds and payment for vendors of new equipment
  - F. Influence over choice of vendors
  - G. Timely and significant access to equipment shared with other labs
7. What do you think needs to be changed about how your organization goes about purchasing and deploying information technology, lab equipment, and supplies?

## **COST STRUCTURE**

8. Approximately what percentage of total laboratory costs is accounted for by each of the following?
- A. Salaries and benefits
  - B. Instruments and equipment
  - C. Animal and biological materials
  - D. Overhead (facilities, administration, marketing, utilities, etc.)
9. What percentage of the funds for your lab (for all purposes, including salaries and overhead) come from \_\_\_\_\_?
- A. Your institutional budget
  - B. Outside grants
  - C. Special grants from within your institution
10. How would you describe your laboratory's outlook for funding?
- A. Excellent
  - B. Good
  - C. Fair
  - D. Poor
  - E. Dire
11. If you have had to make cuts in your budget over the past five years, which areas (i.e. equipment, supplies, lab or office space, salaries and personnel, etc.) have suffered the brunt of these cuts? To what degree?

## **ADMINISTRATIVE TIME MANAGEMENT**

12. Who would you say handles \_\_\_\_\_ in your lab?
- A. Ordering supplies
  - B. The maintaining of the animals
  - C. The inventory of chemicals, reagents, and other supplies
  - D. Installing equipment
  - E. Paying invoices
  - F. The supervision of time off and sick leave
  - G. The budgeting and accounting
  - H. The communications with building or facilities management

## **PROCUREMENT**

13. How does the laboratory purchase most of its equipment?

- A. Through the university, company, or other main institution
  - B. Through a consortium
  - C. Directly purchased by the lab from manufacturers
  - D. Directly purchased by the lab from distributors
14. How does your organization monitor its inventory of chemicals, biological agents, and other key supplies in order to maintain stocks but not to accumulate excessive stocks? What kind of stock level reporting procedures do you have?
- PERSONNEL**
15. What was the total number of full-time equivalent employees of your lab(s) in 2012, including clerical staff, scientists, doctoral students, technicians, and all other employees?
16. How many \_\_\_\_\_ are on your overall laboratory staff?
- A. Scientists
  - B. Technicians
  - C. Custodial, clerical, security, or other such employees that aren't scientists or technicians
17. How much flexibility do you have in devising job descriptions and defining the responsibilities and training practices of the technicians, office personnel, and other support staff who work in the lab?
- A. Pretty much have complete freedom to hire who I want and train them the way I want
  - B. Have some freedom but administrators determine some of this
  - C. Don't have much freedom and feel a bit hemmed in
  - D. It's a real problem and we are often stuck with personnel we can't use or who don't meet our needs
18. How would you evaluate the total number of meetings held by the researchers in your lab?
- A. Too many meetings
  - B. The right number of meetings
  - C. Not enough meetings
19. What is the prevailing attitude in the lab about socializing with your peers after work?
- A. Interferes with work and wastes time
  - B. Helps build relationships and is a productive use of time

20. How much control do you have over the salary and bonuses of your staff? Should you have more or less control? If the current set-up were changed more to your liking, what might be the impact on lab productivity and effectiveness?

### **LABORATORY WASTE, TOXICITY, AND ENVIRONMENTAL PRACTICES**

21. How easy has it been to follow environmental and safety procedures in your lab over the past five years?
- A. Very easy, not a big problem for us
  - B. Relatively easy with occasional glitches or problems
  - C. Not always easy but we get done what we have to get done
  - D. It's been problematic and we have safety or productivity issues as a result
22. How well trained is the laboratory staff in environmental and safety procedures?
- A. I would call our lab dangerous
  - B. Not very well trained
  - C. As well trained as we need to be
  - D. Well trained
  - E. Exceptionally well trained

### **STAFF TIME**

23. Approximately what percentage of the lab budget for salaries is dedicated to individuals primarily involved in equipment maintenance, ordering and stocking supplies, and routine waste removal?
24. How would you rate the effectiveness of your institution's handling of \_\_\_\_\_?
- A. Budgeting and cost analysis
  - B. Purchasing
  - C. Accounting
  - D. Reimbursements
  - E. Inventory control
  - F. Capital equipment acquisitions
  - G. Equipment maintenance
  - H. Billing and collection
  - I. Contract negotiation with lab suppliers
  - J. Safety and environmental regulation compliance
  - K. Lab employee job training
  - L. The documentation of experiments
25. What are the biggest two or three administrative headaches you experience that waste the time of your scientists or consume a higher-than-necessary portion of their budgets?



## **TECHNOLOGY**

26. Does the lab use a Laboratory Management System or some form of commercial lab management software package?
27. If the lab does use a Laboratory Management System (or some form of commercial lab management software package), which package do you use and why? If not, why not and what do you use in its place?
28. How many \_\_\_\_\_ computers does the lab maintain?
  - A. Tablet
  - B. Laptop
  - C. Desktop
29. Has the increasing use of tablets, laptops, and other mobile computing devices significantly affected your lab's computer procurement and use practices? If so, how?

## **DOCUMENTATION OF EXPERIMENTS**

30. How does the laboratory keep records and document the development of experiments? Does it use any kind of online system for lab documentation? Are descriptions of procedures kept on a computer network? How is access restricted?
31. What are the most problematic areas at your institution regarding its laboratory management?

## **PARTING THOUGHTS**

32. Has your laboratory or your parent organization ever conducted workflow or a best practices formal study to improve your laboratory productivity or work effort?
33. To the best of your knowledge, how much has your laboratory spent over the past five years on conferences, publications, and other information resources on laboratory management?
34. What does your institution do best in terms of laboratory management?

## **SURVEY PARTICIPANTS**

Arizona State University  
Braintree Hospital  
Brandeis University  
Converting Biophile Laboratories  
Eastern Gateway Community College  
Faculty of Medicine of the University of Porto  
The Hebrew University of Jerusalem  
Illinois College  
Interfaith Community Clinic  
Northwestern University Feinberg School of Medicine:  
    Department of Pediatrics and Lurie Children's Hospital  
Omdurman Ahlia University  
Peninsula College of Medicine & Dentistry  
Pontificia Universidad Católica de Chile  
South African National Blood Service  
Texas A&M Health Science Center  
Trident Technical College  
University of Miami  
University of Minnesota  
University of Nebraska  
University of New England  
University of North Texas Health Science Center  
University of Washington  
University of Western Australia

## CHARACTERISTICS OF THE SAMPLE

Overall sample size: 23

### By Country

United States	15
Other <sup>1</sup>	8

### By Total Square Footage of the Lab(s)<sup>2</sup>

1,500 square feet or less	11
More than 1,500 square feet	10

### By the Lab's Total Number of Full-Time Equivalent Employees in 2012<sup>3</sup>

Less than 10	11
10 or more	11

### By the Lab's Primary Focus<sup>4</sup>

Research	9
Education	6
Both	7

---

<sup>1</sup> Australia (x2), Chile, England, Israel, Portugal, South Africa, and Sudan

<sup>2</sup> Two survey participants did not answer this question

<sup>3</sup> One survey participant did not answer this question

<sup>4</sup> One survey participant did not answer this question

**Country, broken out by the total square footage of the lab(s).**

<b>Square Footage</b>	<b>United States</b>	<b>Other</b>
<b>1,500 square feet or less</b>	72.73%	27.27%
<b>More than 1,500 square feet</b>	70.00%	30.00%

**Country, broken out by the lab's total number of full-time equivalent employees in 2012.**

<b>Total Employees</b>	<b>United States</b>	<b>Other</b>
<b>Less than 10</b>	90.91%	9.09%
<b>10 or more</b>	45.45%	54.55%

**Country, broken out by the lab's primary focus.**

<b>Focus of Lab</b>	<b>United States</b>	<b>Other</b>
<b>Research</b>	88.89%	11.11%
<b>Education</b>	50.00%	50.00%
<b>Both</b>	42.86%	57.14%

\* \* \* \* \*

**Total square footage of the lab(s), broken out by country.**

<b>Country</b>	<b>1,500 square feet or less</b>	<b>More than 1,500 square feet</b>
<b>United States</b>	53.33%	46.67%
<b>Other</b>	50.00%	50.00%

**Total square footage of the lab(s), broken out by the lab's total number of full-time equivalent employees in 2012.**

<b>Total Employees</b>	<b>1,500 square feet or less</b>	<b>More than 1,500 square feet</b>
<b>Less than 10</b>	63.64%	36.36%
<b>10 or more</b>	40.00%	60.00%

**Total square footage of the lab(s), broken out by the lab's primary focus.**

<b>Focus of Lab</b>	<b>1,500 square feet or less</b>	<b>More than 1,500 square feet</b>
<b>Research</b>	55.56%	44.44%
<b>Education</b>	50.00%	50.00%
<b>Both</b>	40.00%	60.00%

**Lab's total number of full-time equivalent employees in 2012, broken out by country.**

Country	Less than 10	10 or more
United States	66.67%	33.33%
Other	14.29%	85.71%

**Lab's total number of full-time equivalent employees in 2012, broken out by the total square footage of the lab(s).**

Square Footage	Less than 10	10 or more
1,500 square feet or less	63.64%	36.36%
More than 1,500 square feet	40.00%	60.00%

**Lab's total number of full-time equivalent employees in 2012, broken out by the lab's primary focus.**

Focus of Lab	Less than 10	10 or more
Research	66.67%	33.33%
Education	50.00%	50.00%
Both	16.67%	83.33%

\* \* \* \* \*

**Lab's primary focus, broken out by country.**

Country	Research	Education	Both
United States	57.14%	21.43%	21.43%
Other	12.50%	37.50%	50.00%

**Lab's primary focus, broken out by the total square footage of the lab(s).**

Square Footage	Research	Education	Both
1,500 square feet or less	50.00%	30.00%	20.00%
More than 1,500 square feet	40.00%	30.00%	30.00%

**Lab's primary focus, broken out by the lab's total number of full-time equivalent employees in 2012.**

Total Employees	Research	Education	Both
Less than 10	60.00%	30.00%	10.00%
10 or more	27.27%	27.27%	45.45%