

DNA Table 1. Summary of cell line samples received by Network DNA Repositories, by network and overall, T1DGC, February 10, 2011

Network	Total ASP Samples	Total ASP Participants (Families)	Mean Participants per ASP Family	Total Trio Samples	Total Trio Participants (Families)	Total Case Samples	Total Case Participants	Total Control Samples	Total Control Participants
Asia-Pacific	2407	1349 (331)	4.1	1640	882 (293)	47	25	156	78
European	9229	4898 (1250)	3.9	58	30 (10)	40	20	12	6
North American	8634	5016 (1212)	4.1	995	582 (194)	1156	844	1706	896
United Kingdom	1009	650 (163)	4.0	-	.	-	-	-	-
Overall	21279	11913 (2956)	4.0	2693	1494 (497)	1243	889	1874	980

DNA Table 2. Summary of cell line samples shipped from clinics and received at Network DNA Repositories, by network and overall, T1DGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Absolute Difference (Shipped - Received)	Tubes Broken (N)	Samples Missing (N)	Other (N)*
Asia-Pacific	4207	4207	0	0	0	193
European	9094	9094	0	0	0	8
North American	12053	12053	0	0	0	119
United Kingdom	992	992	0	0	0	5
Overall	26346	26346	0	0	0	325

* Other column may apply to either cell line or cell pack samples.

DNA Table 3. Summary of cell line sample outcomes and transformation rate, by network and overall, TIDGC, February 10, 2011

Network	Total Samples (N)	Samples Transformed (N)	Samples Failed (N)	Samples in Process (N)	Transformation Rate (%)
Asia-Pacific	2295	2249	46	0	98.0
European	4773	4721	52	0	98.9
North American	6799	6739	60	0	99.1
United Kingdom	668	631	37	0	94.5
Overall	14535	14340	195	0	98.7

Note: 30 cell line samples previously transformed subsequently failed (AP: n=8, EU: n=8, NA: n=13, UK: n=1).

DNA Table 4. Summary of EDTA cell pack samples received by Network DNA Repositories, by network and overall, T1DGC, February 10, 2011

Network	Total ASP Samples	Total ASP Participants (Families)	Mean Participants per ASP Family	Total Trio Samples	Total Trio Participants (Families)	Total Case Samples	Total Case Participants (Families)	Total Control Samples	Total Control Participants (Families)
Asia-Pacific	1346	1340 (331)	4.1	883	882 (293)	25	25	78	78
European	4867	4860 (1244)	3.9	30	30 (10)	17	17	6	6
North American	4899	4875 (1203)	4.1	573	573 (194)	836	836	894	894
United Kingdom	668	663 (163)	4.1	-	.	-	-	-	-
Overall	11780	11738 (2941)	4.0	1486	1485 (497)	878	878	978	978

Note: Values represent the total number of cell line samples ever received and does not exclude samples subsequently destroyed.

DNA Table 5. Summary of EDTA cell packs shipped from clinics and received at Network DNA Repositories, by network and overall, T1DGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Absolute Difference (Shipped - Received)	Tubes Broken (N)	Samples Thawed (N)	Samples Missing (N)	Other (N)*
Asia-Pacific	2435	2435	0	0	0	0	198
European	5215	5215	0	0	0	0	7
North American	7622	7622	0	0	8	0	133
United Kingdom	732	732	0	0	0	0	4
Overall	16004	16004	0	0	8	0	342

* Other column may apply to either cell line or cell pack samples.

DNA Table 6. Summary of DNA yield from EDTA cell packs and cell lines, by network and overall, TIDGC, February 10, 2011

Network	Total Samples (N)		Average Yield per Sample (mcg)	
	EDTA Cell Pack	Cell Line	EDTA Cell Pack	Cell Line
Asia-Pacific	2240	2249	106.23	748.68
European	4772	4721	143.19	390.70
North American	6822	6739	164.03	240.29
United Kingdom	653	631	91.34	265.75
Overall	14487	14340	144.95	370.66

Note: 30 cell line samples previously transformed subsequently failed (AP: n=8, EU: n=8, NA: n=13, UK: n=1).

DNA Table 7. Summary of cell line samples shipped from Network DNA Repositories to NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Samples Removed from Rutgers records (N)	Absolute Difference (Shipped - (Received+Removed from Rutgers records))
Asia-Pacific	2460	2459	1	0
European	4907	4906	1	0
North American	6804	6787	17	0
United Kingdom	670	670	0	0
Overall	14841	14822	19	0

DNA Table 8. Summary of cell line DNA aliquots shipped from Network DNA Repositories to NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Samples Removed from Rutgers records (N)	Absolute Difference (Shipped - (Received+Removed from Rutgers records))
Asia-Pacific	4345	4344	1	0
European	10311	10311	0	0
North American	14894	14882	12	0
United Kingdom	1685	1685	0	0
Overall	31235	31222	13	0

DNA Table 9. Summary of cell pack DNA aliquots shipped from Network DNA Repositories to NIDDK Central Repository (Fisher), by network and overall, TIDGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Absolute Difference (Shipped - Received)
Asia-Pacific	4067	4067	0
European	4914	4914	0
North American	6701	6701	0
United Kingdom	1326	1326	0
Overall	17008	17008	0

DNA Table 10. Summary of whole blood DNA aliquots shipped from Network DNA Repositories to NIDDK Central Repository (Fisher), by network and overall, TIDGC, February 10, 2011

Network	Samples Shipped (N)	Samples Received (N)	Absolute Difference (Shipped - Received)
Asia-Pacific	15	15	0
European	35	35	0
North American	293	293	0
United Kingdom	-	-	-
Overall	343	343	0

DNA Table 11a. Summary of available cell lines from ASP families at Network DNA Repositories and received/processed by the NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Available DNA Repository	Received Central Repository	Successful Re-growth	%	In Process	%	Contaminated	%	Failure to Expand	%
Asia-Pacific	1299	1290	1252	97.1	4	0.3	-	-	34	2.6
European	4727	4676	4672	99.9	-	-	-	-	3	0.1
North American	4773	4612	4608	99.9	1	0.0	-	-	-	-
United Kingdom	631	631	627	99.4	1	0.2	2	0.3	1	0.2
Overall	11430	11209	11159	99.6	6	0.1	2	0.0	38	0.3

DNA Table 11b. Summary of available cell lines from trio families at Network DNA Repositories and received/processed by the NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Available DNA Repository	Received Central Respository	Successful Re-growth	%	In Process	%	Contaminated	%	Failure to Expand	%
Asia-Pacific	861	839	826	98.5	1	0.1	-	-	11	1.3
European	30	30	30	100.0	-	-	-	-	-	-
North American	572	555	554	99.8	1	0.2	-	-	-	-
Overall	1463	1424	1410	99.0	2	0.1	-	-	11	0.8

DNA Table 11c. Summary of available cell lines from cases at Network DNA Repositories and received/processed by the NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Available DNA Repository	Received Central Repository	Successful Re-growth	%	In Process	%	Contaminated	%	Failure to Expand	%
Asia-Pacific	23	21	18	85.7	-	-	-	-	5	23.8
European	5	5	5	100.0	-	-	-	-	-	-
North American	794	732	732	100.0	-	-	-	-	-	-
Overall	822	758	755	99.6	-	-	-	-	5	0.7

DNA Table 11d. Summary of available cell lines from controls at Network DNA Repositories and received/processed by the NIDDK Central Repository (Rutgers), by network and overall, T1DGC, February 10, 2011

Network	Available DNA Repository	Received Central Respository	Successful Re-growth	%	In Process	%	Contaminated	%	Failure to Expand	%
Asia-Pacific	74	62	46	74.2	2	3.2	-	-	11	17.7
European	2	2	2	100.0	-	-	-	-	-	-
North American	885	835	828	99.2	2	0.2	-	-	1	0.1
Overall	961	899	876	97.4	4	0.4	-	-	12	1.3