

Appendix. 2 – Transversal Firms by technological platforms

Originator	Found Year	Developer	R&D projects	R&D Tech.
3 D Pharma (')	1993	BioCryst; Merck KGaA	DirectedDiversity ThermoFluor	cc,tbs;
Affymetrix(')	1991	Amersham Pharmacia Biotech; Beckman Coulter; Eos; Gemini Research; Gene Logic; Genetics Institute; Howard Hughes Medical Institute; Lilly; Merck & Co; Novartis; Pfizer; Roche, <i>Gene Logic, Human Genome Sciences, Incyte</i>	GeneChip, genomics library, gene expression, gene discovery, bacterial GeneChip probe arrays, inflammation, breast cancer, gene discovery, G-protein coupled receptor pathways, prostate cancer	g; gl
Alanex	1991	Aurora	Pharmacophore Directed Parallel Syn., ALANET	cc
AlphaGene	1993	Genetics Institute	FLEX, genetics libraries	g; gl
Ariad (')	1991	Genovo; Hoechst Marion Roussel; Harvard University; Stanford University	gene expression regulation technology	g
ArQule (')	1993	Abbott; ACADIA; Aurora; ICAgen; Monsanto; Ontogeny; R W Johnson Research Institute; Roche Bioscience; Sankyo; Scriptgen; Signal; Solvay; Wyeth Ayerst	Directed array, Mapping array	cc
Aurora (')	1995	Axys; Becton Dickinson; Warner Lambert, Allelix; Bristol-Myers Squibb; Cytovia; Lilly; Merck & Co; Roche Bioscience; SIDDCO	Genomics technology, Aurora screening technology, fluorescent	g; tbs
Axys (')	1997	Parke Davis; Pharmacia & Upjohn; Protein Design, <i>Luminex; ZymoGenetics</i>	New targets database, combinatorial chemistry, RAMMP, Liquid arrays, paracrine/endocrine signalling molecules gene database	cc, g; gl
Cadus	1992	Genome Therapeutics; SmithKline Beecham <i>Massachusetts Institute of Technology</i>	APEX; LIVING CHIP	tbs; g
Camb. Antib. (')	1990	ICOS; Progenitor; Wyeth Ayerst	ProxiMol, ProAb	g; gl
Camb. Comb.	1997	Dainippon; Oxford Molecular	Combinatorial chemistry technology	cc
Cognetix	1993	Merck & Co; SIBIA	Combinatorial chemistry, conopeptide libraries	cc;
CombiChem (')	1994	ICOS; Ono; Roche Bioscience	DISCOVERY ENGINE	cc
CuraGen (')	1993	Biogen; Genentech; ArQule	Quantitative Expression Analysis; PathCalling database; Multiplex Interaction Assay GeneCalling database; SeqCalling; CombiGen	g, gl; p; tbs
Digital Gene Technologies	1995	Illinois University; Polish Academy of Sciences; Salk Institute; Scripps Clinic and Research Foundation; State University of New York; University of Indiana	Total Gene Expression Analysis	g;
Discovery Technologies	1993		Combinatorial chemistry, cyclin dependent kinases, receptor tyrosine kinases,	cc., tbs;
Dyax (')	1995	Affymax; Bristol-Myers Squibb; Burnham Institute; Cambridge Antibody Technology; Chiron; Chugai; Corvas; Cytogen; DuPont; Genzyme; Merck & Co; MorphoSys; Pharmacia & Upjohn; Scios	phage display technology	cc
EnzyMed (')	1994	Merck & Co	BIOACTIV	cc.
Gemini Research	1996	Affymetrix; CeNeS; Chiroscience; Kyowa Hakko; Queensland Ins. of Medical Research	PHENOBASE	g
Gene Logic (')	1995	Japan Tobacco; Organon	rEST database, Flow-Thru Chip, GENE EXPRESS, Multiplex Selection of Transcription Factors, READS, VIRIA	g; gl; tbs
Genetics Institute (')	1980	Bayer; Chiron; Chugai; Genentech; Immunex; Kirin Brewery; Ontogeny; Rhone-Poulenc Rorer; Sankyo; Scios	DiscoverEase	g
Genome Pharmaceuticals	1992		Genomics technology, gene expression profiling, protein interaction mapping	g; p
Genome Therapeutics (')	1991	Bayer; Bristol-Myers Squibb; Hoechst Marion Roussel; Schering Plough	PathoGenome	gl; g
Genometrix	1993	GeneMedicine	DNA microarray technology	g
GENSET	1989	Genetics Institute	Identification of 5 Prime Sequences, SignalTag, Functional Polymorphic Scanning	gl; g

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Genzyme (*)	1981	Bayer, PaineWebber R&D Partners, Merck & Co	Combinatorial chemistry, COMPILER, screening technology, p53/MDM2 interaction inhibitors, Solid Phase Epitope Recovery SPHERE	cc., tbs
Human Genome Sciences (*)	1992	Genetic Therapy; Isis; Transgene; SmithKline Beecham; Merck KgaA; Schering Plough; Synthelabo; Takeda	Human cDNA database, genomics technology, microbial genome database	g; gl
Hyseq (*)	1992	Kirin Brewery; Perkin Elmer, <i>University of California at San Francisco</i>	HyChip, SEQUENCING BY HYBRIDIZATION, gene discovery, cardiovascular disease	g; gl
IGEN (*)	1982	Abbott; Agouron; Amgen; Bristol-Myers Squibb; Peptide Therapeutics; Pfizer; Schering Plough; ZymoGenetics	ORIGEN	tbs
Incyte (*)	1991	Lilly; Monsanto; Roche, Abbott; Pfizer; Schering AG; Schering Plough, Abbott; Ariad; AstraZeneca; BASF; Bristol-Myers Squibb; Genentech; Glaxo Wellcome; Hoechst Marion Roussel; Johnson & Johnson; Novartis; Novo Nordisk; Organon; Pharmacia & Upjohn; Rhone-Poulenc Rorer; Roche; SmithKline Beecham, <i>Scriptgen</i>	AureusGEM, CandidaGEM, LifeSeq Atlas, LifeSeq FL, mGSD-library, GSD-screen, PathoSeq.	g, gl tbs
IRORI	1995	Bristol-M. Squibb; Rhone-Poulenc Rorer	Combinatorial chemistry	cc.
KOSAN	1995	Chiron	Combinatorial chemistry	cc.
Lexicon Genetics	1995	DuPont; Merck Genome Research Institute; ZymoGenetics	DOWNSTREAM GENE TRAPPING, LexGene, OmniBank	g
Lynx (*)	1992	BASF; DuPont; Hoechst Marion Roussel	Massively parallel signature sequencing	g
Molecumetics	1992	Bristol-Myers Squibb	MolecuSet, SMART Library Technology	cc.
MorphoSys	1992	Chiron; DuPont	HuCAL, self-assembling multimeric and multivalent structures, trinucleotide-directed mutagenesis, selectively-infective phage	cc; g; tbs
Myriad	1991	Bayer; Schering AG	Genomics tech., island hopping gene seq., ProNet	g, gl
NeoGenesis	1997	Inspire Pharmaceuticals	NeoMorph, Mass Coded Drug Discovery	cc., tbs
NeXstar	1995	Fujisawa; Glaxo Wellcome	systematic evolution of ligands by exp. enrichment	cc
NOVALON	1996	Boeh. Ing.; Genzyme; Millennium; SARCO	BIOMOLECULAR RECOGNITION SYSTEM	Tbs
Oxford Asymmetry (*)	1992	Ares Serono; Bayer; BioChem Pharma; Pfizer; Vertex	combinatorial chemistry	cc.
Panlabs (*)	1970	Arena; Berlex; Bristol-M. Squibb; Genelabs; Geron; Karo Bio; Synthelabo; UCB, <i>Tripos</i>	OPTIVERSE	Cc
Peptide Th. (*)	1986	Lilly; Novartis, Medeva	RAPiD, MolVaD	cc.; tbs
Pharmacopeia(*)	1993	AstraZeneca; Bayer; Daiichi; Novartis; Organon; Schering AG	ECLiPS	cc
Progenitor (*)	1992	Cambridge Antibody Technology	ATLAS, genomics technology, embryonic stem cell, growth factor receptor gene, yolk sac stem cell	g
Ribozyme (*)	1992	Chiron; Glaxo Wellcome; Parke Davis; Roche Bioscience; Schering AG	Target Validation & Discovery, RNA editing	g; tbs
Rosetta Inph.	1997	Bristol-Myers Squibb; Lilly	Genome Reporter Matrix, Biochips	g
Sangamo BioSciences	1995	AstraZeneca; Bayer; DuPont; Japan Tob.; Millennium; Pfizer; S.K.B.; Targeted Gen.	Universal GeneTools	g
Scotia	1994	SuperGen	Combinatorial Lipids	cc
Scriptgen (*)	1993	Boehringer Ingelheim; Lilly; Roche	ATLAS, SCAN	tbs
Sphinx (Lilly) (*)	1987	Chugai; Kyowa Hakko; Taisho	combinatorial chemistry	cc
Synteni (*)	1994	Geron; Monsanto; Schering Plough	GEM	g
Telik (*)	1986	Sankyo; Scios; Sosei	TRAP	tbs
Trega Biosciences (*)	1990	Bristol-M. Squibb, Biogen; Isis; Parke Davis, Northwest Neurologic; Procter & Gamble	combinatorial biology, ChemFolio, Tea-Bag	cc
Tripos (*)	1979	Bristol-M. Squibb, Arena Ph.; MDS Panlabs, Karo Bio, Menarini; Hoechst M. R.	ChemSpace, LeadQuest	cc
Xenometrix (*)	1991	Affymetrix; Aurora; Cerep; Gene Logic; GeneTrace Systems; Genzyme; Incyte; PHASE-1 Molecular Technology; SmithKline Beecham	Genomic library, gene response profiles, human cell line-based	g; gl
Xenova (*)	1986	Bristol-M. Squibb; Parke Davis; AstraZeneca	NatChem, QTC, ASSET	tbs, cc

