

BPF NGS Genomics Core Facility

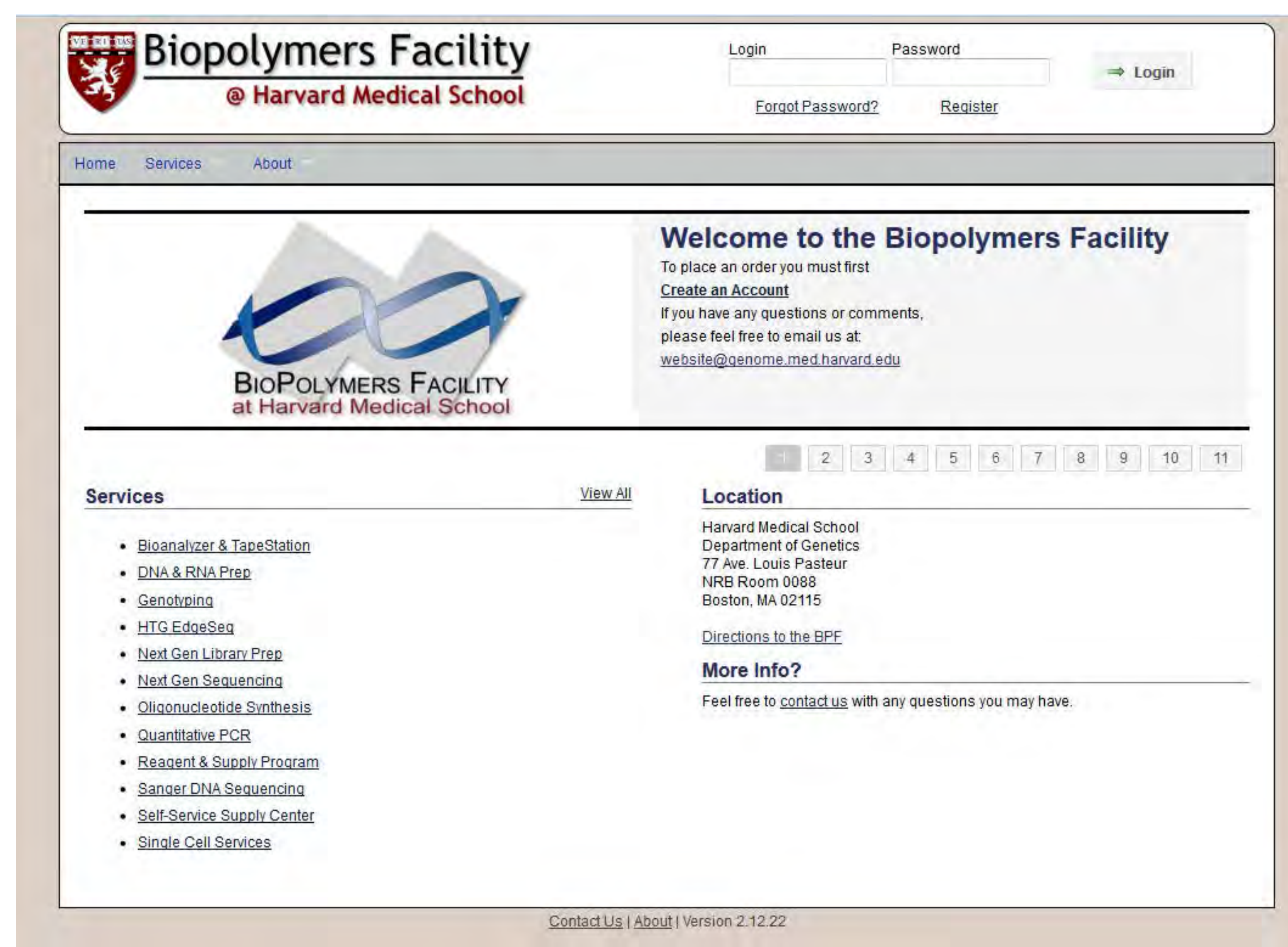
Department of Genetics Harvard Medical School

Overview of Services

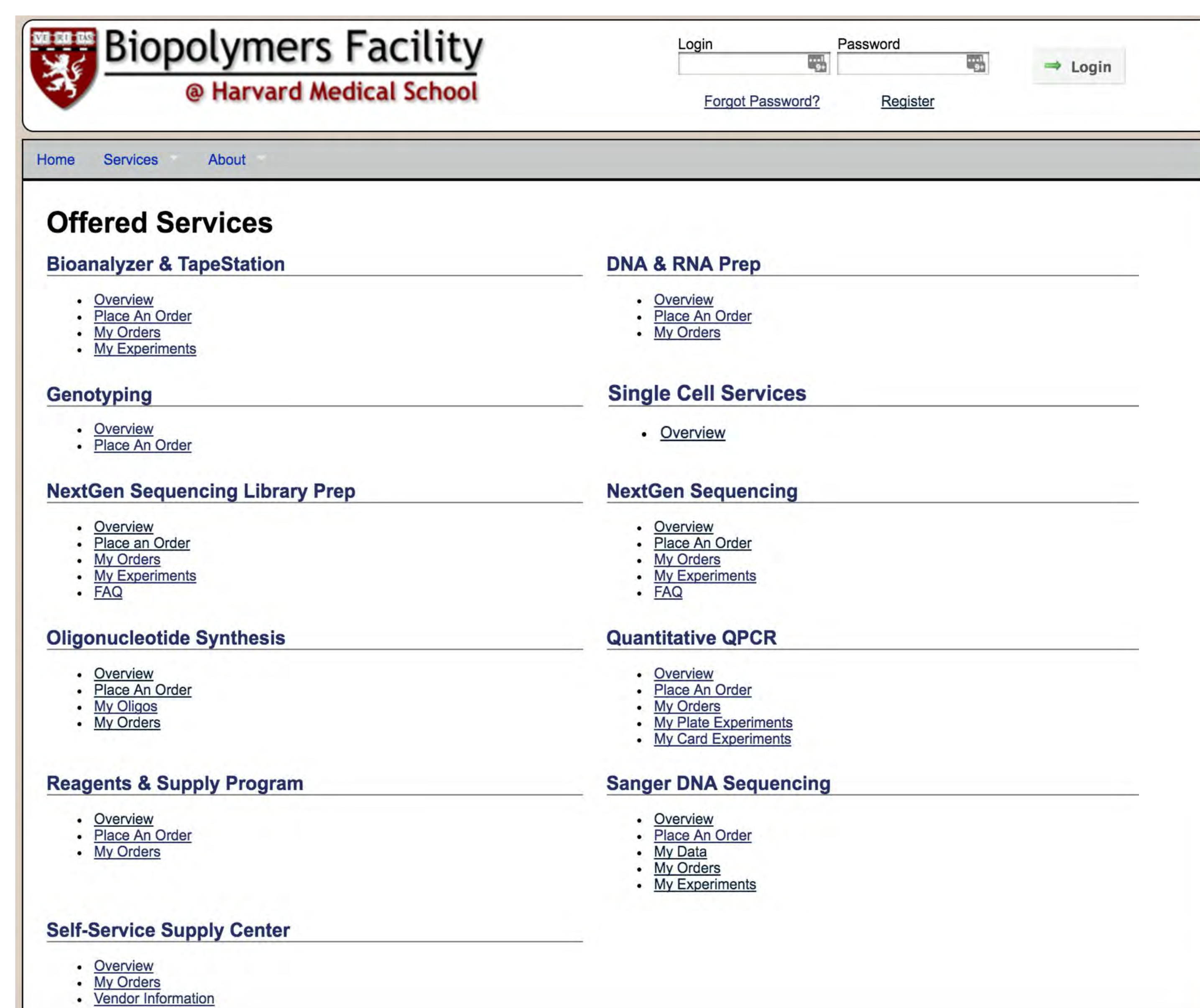


OVERVIEW

The **BPF core** facility provides genomic services to investigators in the Harvard Medical School community and beyond. Most services offered are conducted by core staff. Some instruments are available for researchers to perform self-service experiments after receiving proper training from core facility staff. The core provides consultation services to educate users about technologies and instruments in the core; to assist in experimental design and to help troubleshoot problem sample data. Protocols are available for preparing materials and methods sections in manuscripts. The core also provides letters of support to include in grant applications.



Interactions with the facility occur through our web based Laboratory Information Management System (LIMS). Researchers can manage personal information; obtain overviews and detailed submission information for the experimental services we provide; place orders; monitor experiment progress; retrieve data; and access invoice and order history. We also offer open consultation hours from 1-2pm daily.



INSTRUMENTS

Many experiments utilize expensive, high-throughput instruments that require significant training and expertise to operate. The core maintains and offers many of the latest genomic analysis instruments available to assist you in your research. Staff members are trained and experienced at operating all of the instruments in the core (shown below).



SERVICES

Researchers may order full experimental services or in some cases, may receive training and perform self-service experiments. Below is a summary of all services offered by the core facility.

Category	Platform or Kit	Service	Type
DNA / RNA Sample Prep	Takara SMARTer Apollo	DNA/RNA NGS Library Prep	Full
		ChIP-Seq Library Prep	Full
		PCR Purification	Full
		cDNA Synthesis	Full
		Poly-A mRNA Isolation	Full
		Ribosomal RNA Reduction	Full
	Qiagen QiaCube	DNA and RNA Isolation / Purification	Full and Self
	Perkin Elmer Sciclone	DNA & RNA NGS Library Prep & Library QC	Full
DNA / RNA Quality Analysis	Agilent BioAnalyzer	DNA and RNA Quality & Quantity	Full and Self
	Agilent TapeStation	DNA and RNA Quality & Quantity	Full
Gene Expression Analysis	Quant Studio 7	QPCR, AQ and RQ (SYBR/TaqMan)	Full
	MiSeq, NextSeq500	NGS RNA-Seq	Full
Genotyping	ABI 3730xl	Microsatellite Genotyping	Full
Sequencing	ABI 3730xl	Sanger Sequencing	Full
	Illumina MiSeq & NextSeq 500	NGS Sequencing	Full
Single Cell Services	10X Genomics Chromium	RNA-Seq, Exome-Seq	Self
	Life Tech Countess II FL	Cell Size, Viability and Counting	Self
Oligo Synthesis	Integrated DNA Technologies Portal	Oligo Ordering and Delivery	Self
Self-Service Supply Center	Multiple Vendors	Reagent Ordering	Self
BPF Stockroom	Multiple Vendors	Reagent Ordering	Full

Contact Information

Facility Address		Payment Address
Biopolymers Facility NRB, Room 008B 77 Avenue Louis Pasteur Boston, MA 02115		Accounts Receivable Harvard University P.O. Box 4999 Boston, MA 02212
Core Directory		
Bioanalyzer / TapeStation	analysis@genome.med.harvard.edu	617-432-7481
DNA & RNA Prep	purification@genome.med.harvard.edu	617-432-7481
DNA Sequencing	dnaseq@genome.med.harvard.edu	617-432-7481
Next Generation Sequencing	nextgen@genome.med.harvard.edu	617-432-7481
Oligonucleotide Orders	oligos@genome.med.harvard.edu	617-432-6805
Quantitative PCR	qpcr@genome.med.harvard.edu	617-432-7481
Reagents and Supplies	freezer@genome.med.harvard.edu	617-432-6805
General		
Accounts	bpaccounts@genome.med.harvard.edu	617-432-7480
Billing or Administrative	finance@genome.med.harvard.edu	617-432-7480 617-432-7440
Director	director@genome.med.harvard.edu	617-432-7480
General Inquiries	info@genome.med.harvard.edu	617-432-7481
Website	website@genome.med.harvard.edu	617-432-6803