

INFORMATION ABOUT THE PERSON FILLING THE FORM	
Name and family name	<i>Cristina Vettori</i>
Research organization	<i>Istituto di Bioscienze e Biorisorse (IBBR), UOS Firenze - CNR</i>
Position in the organization	<i>Researcher</i>
Country	<i>Italy</i>
E-mail	<i>cristina.vettori@cnr.it</i>
FACILITY ¹	
Name of the facility	<i>PGM Ion Torrent</i>
	<i>URL address</i>
Location of the facility	<i>Italy</i>
	<i>Via Madonna del Piano 10, 50019 Sesto Fiorentino (FI)</i>
	<i>UTM: 677225/ 4855586 coordinates: 43° 49' 55" N / 11° 12' 15"</i>
Start date	<i>2014</i>
Type of facility	<i>The Ion PGM™ System makes affordable, high-quality next-generation sequencing and can perform a variety of targeted gene sequencing applications.</i>
Keywords	<i>Genome resequencing; SNPs Genotyping; Quantitative gene expression;</i>
Scientific characteristics	<i>Scientific objectives: genome sequencing and genotyping of forest tree species</i>
	<i>Interest for users: new generation (high throughput) DNA and RNA sequencing</i>
	<i>Particularities in comparison to similar facilities: High throughput sequencing. Next-generation sequencing (NGS) can provide a global genetic survey of the genome and transcriptome, or of specific regions of the genome or transcriptome. Identify specific changes in DNA by rapidly and simultaneously sequencing multiple gene targets within multiple samples (target hundreds of genes simultaneously with ultrahigh-multiplex PCR using up to 6,144 primer pairs in a single primer pool). RNA sequencing using NGS technology not only provides a digital representation of absolute expression, but also can identify and characterize low-abundance transcripts.</i>
	<i>LinkTree (http://www.igv.fi.cnr.it/linktree/) NovelTree (http://www.noveltree.eu/index.php) COST Action FP0905 (http://www.cost-action-fp0905.eu/)</i>
Technical characteristics	<i>Detailed description of instrumentation: Ion Torrent™ PGM, Ion OneTouch2, Ion OneTouch ES, Ion Chef System</i>
	<i>Measured parameters: sequencing by combining simple chemistry and semiconductor technology—translating chemical signals into digital information</i>
	<i>If there is any file, map or images relevant about this infrastructure, please attach it (indicating here the name of the file).</i>
SCIENTISTS AND/OR TECHNICIANS IN CHARGE OF THE FACILITY	
Principal investigator	<i>Giovanni Giuseppe Vendramin, giovanni.vendramin@ibbr.cnr.it</i>
One line for each additional person	<i>Cristina Vettori, cristina.vettori@cnr.it</i>

¹ Note: This information could be published in the webpage of FORESTERRA.



FORESTERRA

Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration



ADMINISTRATIVE INFORMATION

Availability for participating in mutual measurements	Yes <i>Giovanni Giuseppe Vendramin, giovanni.vendramin@ibbr.cnr.it</i>
	<i>Conditions or Policy of use: to be decided at the moment of the request</i>
Availability for accessing the data collected	Yes <i>Cristina Vettori, cristina.vettori@cnr.it</i>
	<i>Conditions or Policy of use: to be decided at the moment of the request</i>
Institution that manages the facility	<i>Istituto di Bioscienze e Biorisorse (IBBR), UOS Firenze, (Institute of Bioscience and BioResources (IBBR), Division of Florence)</i>
	<i>URL address: http://ibbr.cnr.it/ibbr/</i>
Structure or institution which manages the data	<i>Istituto di Bioscienze e Biorisorse (IBBR), UOS Firenze, (Institute of Bioscience and BioResources (IBBR), Division of Florence)</i>
	<i>URL address: http://ibbr.cnr.it/ibbr/</i>
Is the facility participating in a national or international Network?	<i>LinkTree; NovelTree; COST Action FP0905</i>
	<i>URL address: http://www.iqv.fi.cnr.it/linktree/; http://www.noveltree.eu/index.php; http://www.cost-action-fp0905.eu/</i>
Is the facility open for transnational collaboration?	<i>Conditions: to be decided at the moment of the request</i>