



Across		
1	HISTOGRAM	A plot of the distribution of photon arrival times.
2	SCATTERING	A process in which a photon changes the direction of flight when incident on a larger particle.
3	PHOTON	An elementary particle that carries electromagnetic force.
4	CCD	A camera in CYRIL that detects light.
5	FIBRES	Cables that can transport light.
6	MAESTROS	Metabolight's TR NIRS system.
7	VIOLET	Visible light colour with the shortest wavelengths.
8	HALOGEN	Type of gas used in incandescent lamps.
9	RAINBOW	A meteorological phenomenon when drops of water disperse, reflect and refract light.
10	CRITICAL	Total internal reflection occurs when the incident light ray is at an angle larger than the ____ angle in an optic fibre.
11	LASER	Light Amplification by Stimulated Emission of Radiation.
12	SUPERCONTINUUM	A laser that emits broadband light.
13	HAEMOGLOBIN	The carrier of oxygen in blood.
14	ELECTRON	A charged elementary particle.
15	ABSORBS	A leaf is green because it reflects green light and ____ light of other colours.
16	TIMERESOLVED	A type of NIRS that measures the time of flight of photons.
17	EPOXY	The material used to house LEDs.
18	MITOCHONDRIA	The place where CCO is found in cells.

Down		
3	PLASMA	Hot gas in which electrons are no longer bound.
6	METABOLISM	The production of energy in cells.
10	CYTOCHROME	CYRIL stands for _____ Research Instrument and appLication.
19	MONOCHROMATIC	Light of only one wavelength.
20	INFRARED	An invisible part of the light spectrum following red wavelengths.
21	REFRACTIVE	An index describing the reflection properties of a material.
22	SPECTROMETER	A device that separates light into its different wavelengths.
23	OXYGENATION	The process of adding oxygen.
24	TUNGSTEN	A metal used to make filaments in light bulbs.
25	LED	A light source out of semiconductors.

