



Technical cell culture facility

US8/UMS3444 BioSciences Gerland-Lyon Sud



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Operation through sharing of human resources, premises, equipments and operational resources in partnership with the 4 authorities Inserm, CNRS, UCBL and ENS of Lyon

Premises: The technical facility is hosted by the Institute of Protein Biology and Chemistry (IBCP), 7 passage du Vercors, 69367 Lyon, France.

User teams: Industrial and academic research teams

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Shared equipment at the facility

2, 120cm BSCs, 3 incubators.
1 Refrigerated centrifuge.
3 Cryoconservers (-196  , -152  , -150  ).
2 Transfectors (Nucleofector and Neon).
1 Tube luminometer.
1 LabCollector software.
1 collection of 500 cell lines

Biological Resource Center (CRB) Activity

CelluloNet is a member of the national infrastructure Biobanques, Inserm US13.

CelluloNet is a BRC of cell lines produced and/or used by research in biology and health research and is developing:

The receiving of lines in accordance with criteria defined by the regulatory framework and the scientific advisory board

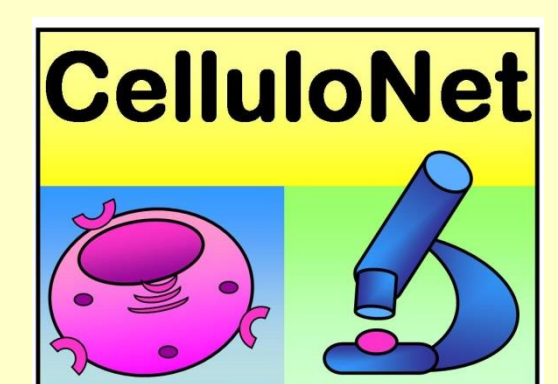
The making available of lines in accordance with transfer criteria defined by the scientific advisory board and the filer

Quality control of lines: viability, absence of contamination, morphology, specific controls

Traceability thanks to a document management system, a dedicated computer software

The quality initiative according to the NFS96-900 standard specific to BRCs

CelluloNet has a project to create a catalog of available lines and the related data.



CRB-CelluloNet@ibcp.fr

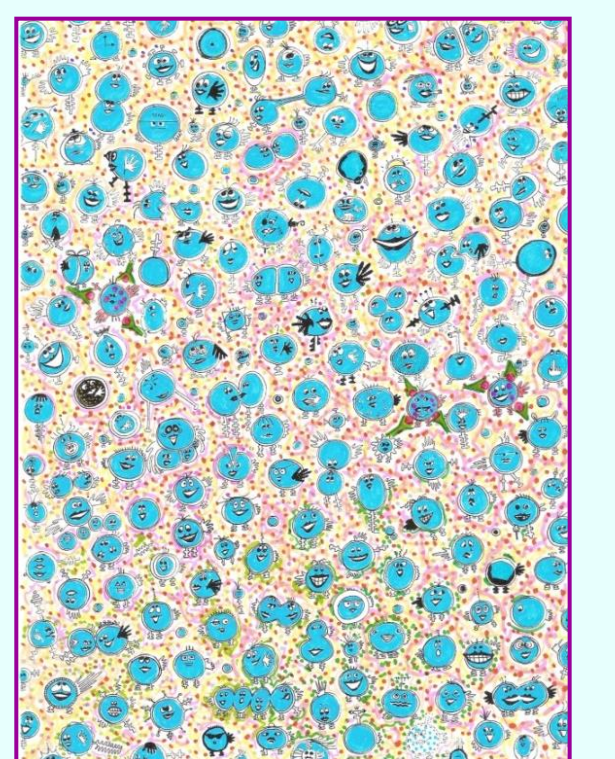
Making equipment available

Transfection devices, tube luminometer, transport cryo-conserver, roller device, incubator, etc.

Research and development activity

Exploration of cell culture protocols and manufacture of products derived from cell lines.

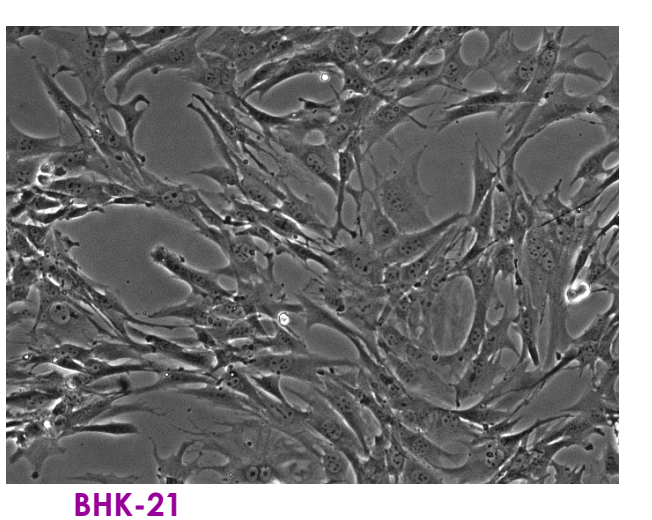
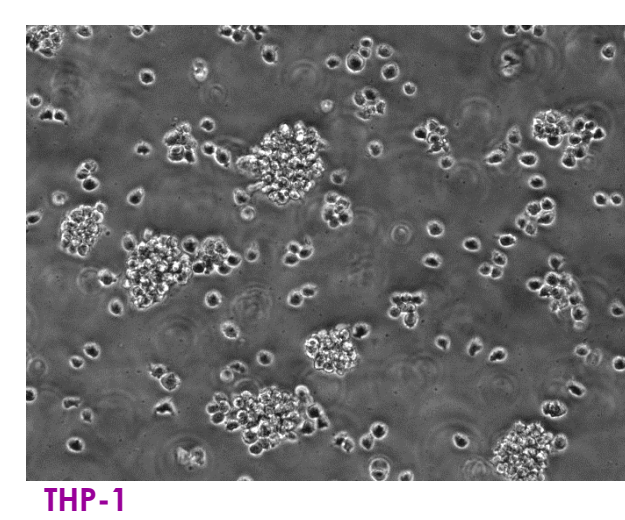
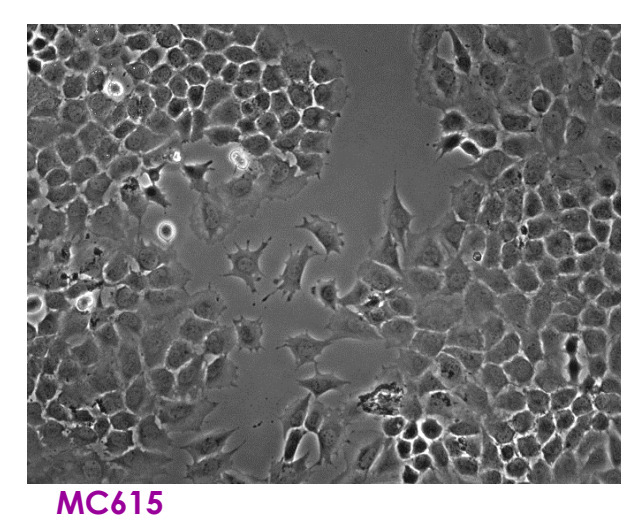
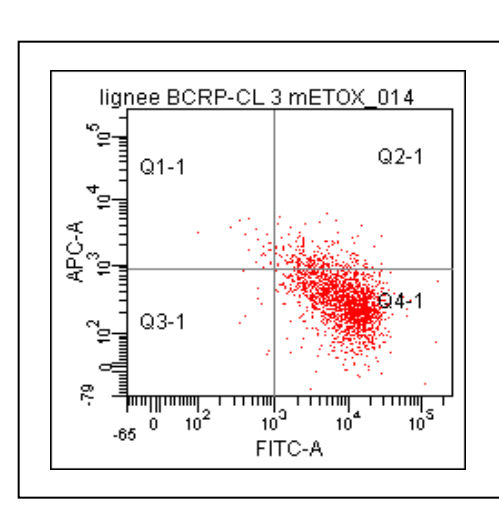
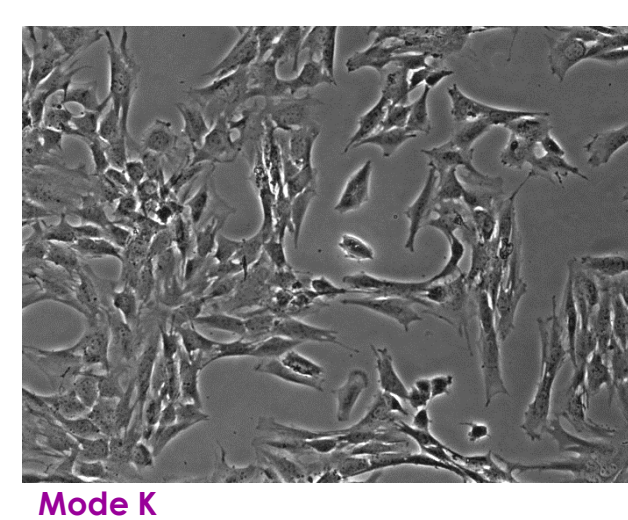
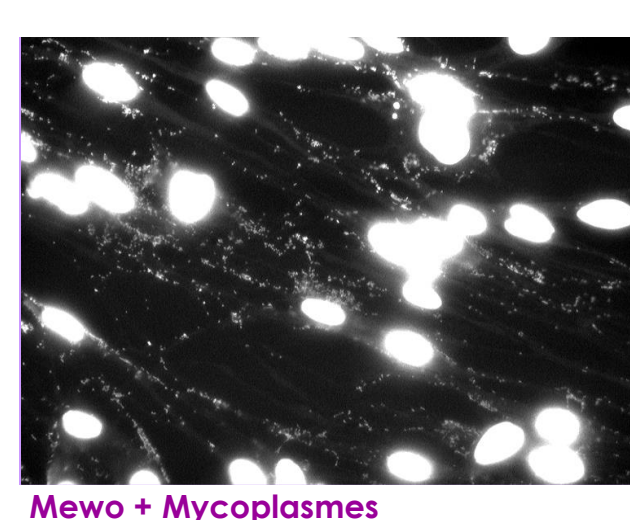
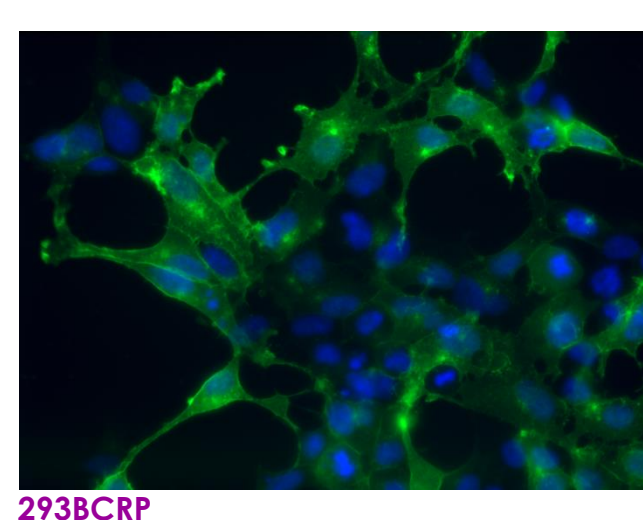
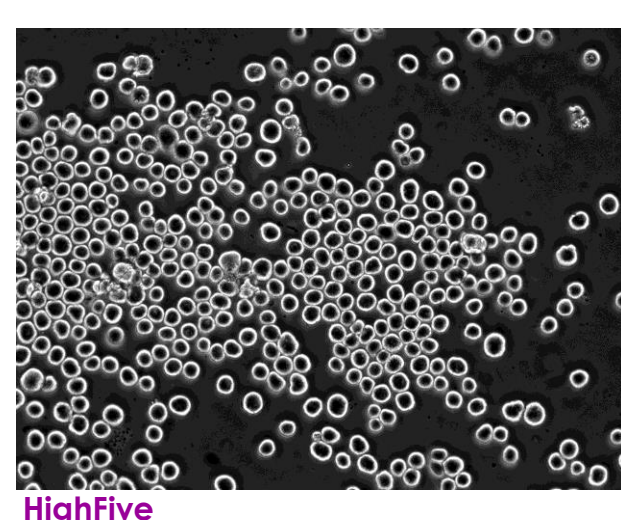
Manufacture of new cell lines: Genetically Modified (GMO) for expressing recombinant proteins, hybridomas for the production of monoclonal antibodies, human B cell lines for the conservation of genetic material, immortalization of murine cells, etc.



Training activity

Practical course and training on cell line culture: cell manipulation, organizing work, regulations, health and safety, cell line culture applications.

Special training on request: mycoplasma detection, collection management, transfection, cell cloning, etc.



Examples of cell line collection:

(1) **Genetically-modified cell lines used as a model for study:** MC615 (study of chondrocytes), TIGEF (study of caprine viruses), ModeK (study of the intestinal epithelial in mice) **or as an overexpression system of a recombinant protein** for functional studies including 293BCRPclone3 (study of cancer chemoresistance), AgHuWt13 (study of congenital forms of myasthenia), etc.

(2) **Monoclonal antibody secreting hybridomes** including a series of antibodies directed against the proteins of the Nipah virus or a collection of specific antibodies of the measles virus which is a reference in the field...

(3) **"Controlled" cell lines** for developing new protocols

(4) **"Tool" cell lines:** B95.8 (production of the EBV virus used to immortalize human B lymphocytes), SP2O/Ag14 (for production of antibody-secreting hybridomes), Mewo (mycoplasma detection test), Vero (production of several viruses and titration). CTLL2 (dosage of IL-2), Sf9 and High Five (production of recombinant proteins with the *Baculovirus* system), etc.

(5) **Lines placed in a collection in the framework of an asset activity** following a change in activity, a retiring researcher, etc.

(6) **Safety level 3 lines** stored in a double envelope and in nitrogen vapor, MoT cell lines.

Due to their characterization by researchers, lines over time acquire genuine added scientific value!

