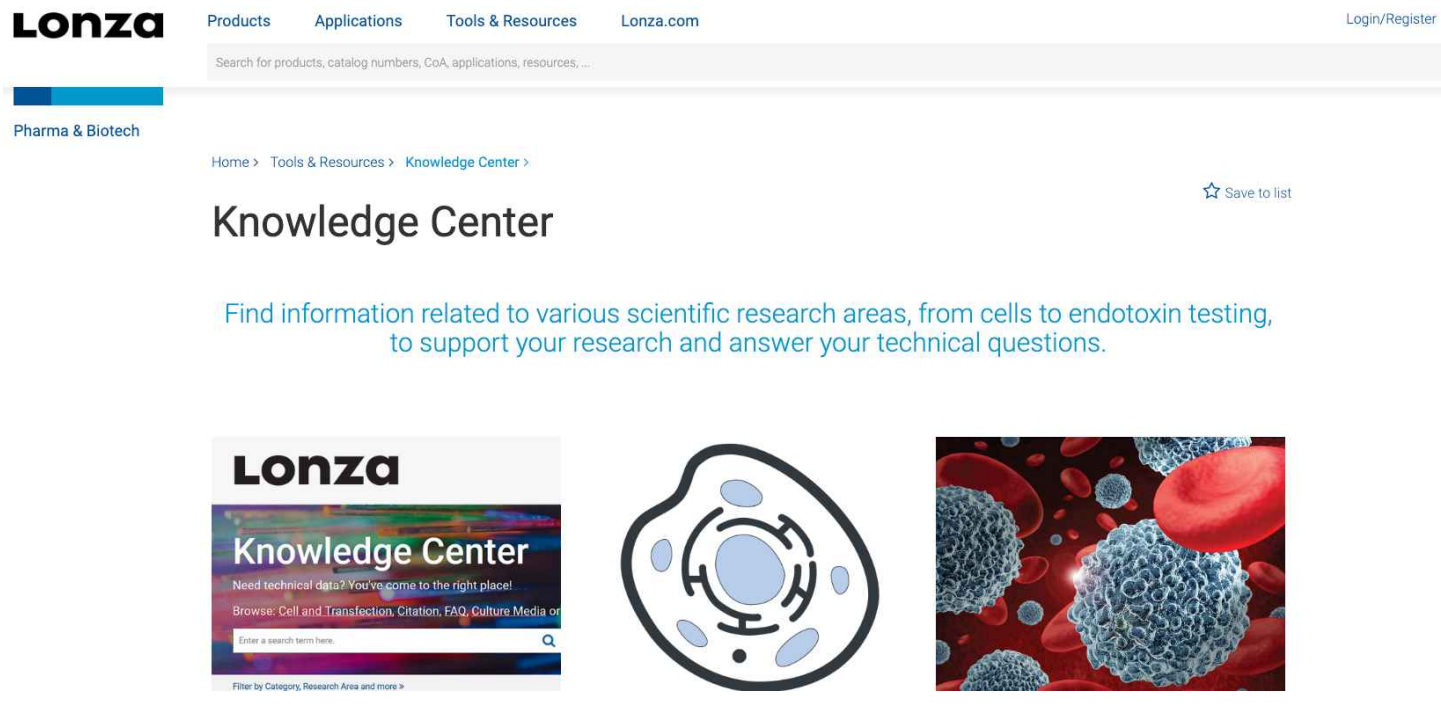
LONZA nucleofection information

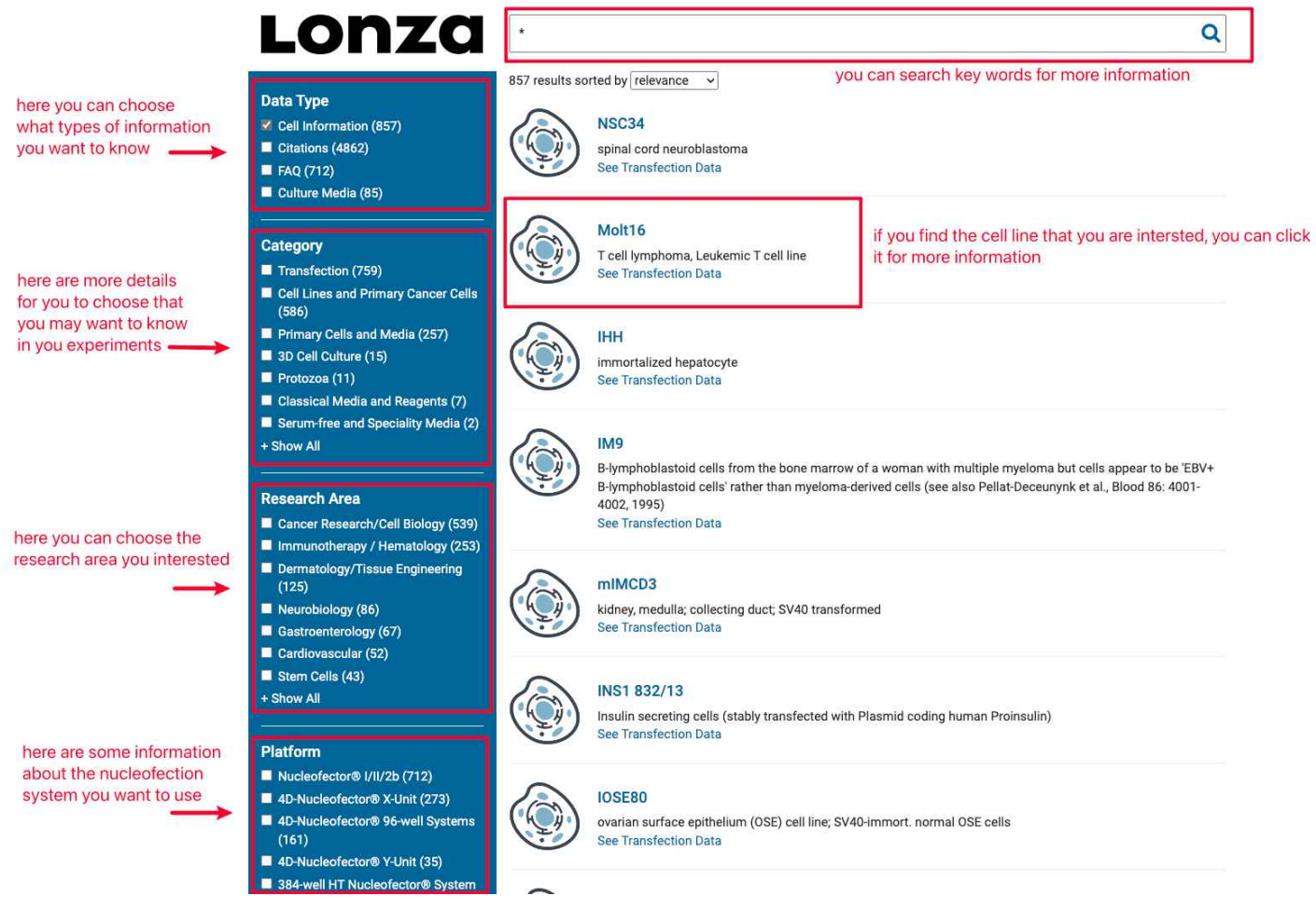
If we need to perform nucleofection with our cells, we can search for more information from LONZA Knowledge Center:

https://bioscience.lonza.com/lonza_bs/CN/en/knowledge-center



And click the cell at the centre of above picture, then we will enter into the nucleofection knowledge list:

https://knowledge.lonza.com/search-results?search=*&type=Cell%20Information&orderby=relevance



In this knowledge center, LONZA will give you some nucleofection experiment protocols for each cell line:

Lonza

mouse ESC

Embryonic stem cell (ES), mouse

Export

Stem cells derived from mouse blastocyst.

Cell Type: Embryonic SC
Tissue Origin: embryo
Species: mouse

Research Area: Cancer Research/Cell Biology
Stem Cells

Cell Characteristics: Adherent

Transfection Information

Lonza Optimized Protocol
Optimization Guideline

Filter: Any Substrate | Any Platform

The table below shows data for the cell type and Nucleofector™ Platform selected. Those data are either based on Lonza Optimized Protocols or on results shared from customers who performed an optimization based on our guidelines. In case no data are shown for the selected Nucleofector™ Platform, please take a look at our optimization strategy to get further guidance on how to easily determine optimal Nucleofection conditions yourself.

Protocol	Kit	Program	Cells	Efficiency	Viable Cells	Substrate		Format	Platform
	P3	96-CG-104	5e4	85-95%	58-88%	Plasmid (general)	0.4 µg	20 µl	96-well
	ES cell, mouse	A-013	5e6	80%		Plasmid (general)	9 µg	100 µl	I/II/2b
	P3	CG-104	5e4	85-95%	58-88%	Plasmid (general)	0.4 µg	20 µl	4D X-Unit

Citations (30)

An efficient and scalable pipeline for epitope tagging in mammalian stem cells using Cas9 ribonucleoprotein.
Categories: Primary Cells and Media, Transfection
Authors: Dewari PS, Southgate B, Mccarten K, Monogarov G, O'Duibhir E, Quinn N, Tyrer A, Leitner MC, Plumb C, Kalantzaki M, Blin C, Finch R, Bressan RB, Morrison G, Jacobi AM, Behlke MA, von Kriegsheim A, Tomlinson S, Krijgsveld J, Pollard SM.
In: eLife (2018) 11;7: 1-29

But to choose which is the best experiment protocol, you must refer to citation papers and test it by yourselves.