

BioScientific aims to keep our researchers and customers updated with news from our various suppliers with our Newsletter–We are constantly sourcing top quality products for your research. Contact our office for the "HARD TO FIND" product!

Genetic Mapping





Among the main goals of the Human Genome Project (HGP) was to develop new, better and cheaper tools to identify new genes and to understand their function.

One of these tools is genetic mapping. Genetic mapping - also called linkage mapping - can offer firm evidence that a disease transmitted from parent to child is linked to one or more genes. Mapping also provides clues about which chromosome contains the gene and precisely where the gene lies on that chromosome.

Genetic maps have been used successfully to find the gene responsible for relatively rare, single-gene inherited disorders such as cystic fibrosis and Duchenne muscular dystrophy. Genetic maps are also useful in guiding scientists to the many genes that are believed to play a role in the development of more common disorders such as asthma, heart disease, diabetes, cancer, and psychiatric conditions.

BioScientific represent a myriad of quality products from International suppliers for various fields of research in Life Science. In this newsletter we have highlighted a few that may be of interest within the field of Genomics.



chromosome paints you might find <u>Cambio Star*FISH</u> chromosome paints useful for your project. Cambio have been supplying Star*FISH chromosome paints of exceptional quality for many years.



Genomic DNA

Highly purified genomic DNAs from Calf Thymus, Herring Sperm and Salmon Sperm are provided at 10 mg/ml. Trevigen's sheared DNA preparations have a fragment size range of 80–500 bp and are qualified for Northern, Southern, probe array, and dot blotting procedures. The format allows convenient addition to buffers to create a final recommended working concentration of 0.1 mg/ml. Quality control testing includes concentration determination, fragment sizing by gel electrophoresis, A260/A280 ultraviolet absorbance ratio, and protein content. View more information <u>www.trevigen.com.au</u>



Apoptosis is the process of programmed cell death that involves a series of biochemical events leading to a characteristic cell morphology and death, including blebbing and changes to the cell membrane, such as loss of membrane asymmetry and attachment, cell shrinkage, nuclear fragmentation, chromatin condensation, and chromosomal DNA fragmentation.

Apoptosis is mediated by a diverse range of cell signals, both extracellular and intracellular. Extracellular signals may include toxins, hormones, growth factors, nitric oxide or cytokines. Intracellular apoptotic signaling may be induced in response to stress via, heat, radiation, nutrient deprivation, viral infection, hypoxia and increased intracellular calcium concentration or the binding of nuclear receptors by glucocorticoids. These signals may positively or negatively induce apoptosis.

WWW.RAYBIOTECH.COM

iprecio Now available in Australia for use is the iPRECIO SMP-300 -

Currently until the end of April, there is a 25% discount applicable to the iPRECIO pumps , SMP-200 and SMP-300.

There is also the management system available but no discount is applicable. The purchase of the iPRECIO Management System is necessary to program the pumps.

This system of course is a software programme and only required to be purchased once – here is the link detailing the programme : http://www.iprecio.com/products/tabid/215/Default.aspx

If you require a quotation, please do not hesitate to send an email – This offer will end April 30 2017!

For a quotation please email- info@biosci.com.au



JBScreen JCSG++ is a sparse matrix screen optimized for initial screening of crystallization conditions of biological macromolecules. The screen has been formulated by researchers from the Joint Center for Structural Genomics (JCSG) [1] and from the European Genomics Consortium [2].

96 reagents have been selected with the aim to maximize the coverage of the crystallization parameter space and to reduce the redundancy of crystallization conditions within commercially available crystallization screens. Thus, a core set of 66 conditions used by the JCSG for high-throughput structural determination [1] was extended to 96 screening conditions in order to round off the pH profile and to incorporate different precipitants such as succinate, malonate and formate.

When JBScreen JCSG++ is used along with <u>JBScreen PACT++</u>, the benefits of a sparse matrix screen can be combined with the systematic investigation the precipitation behaviour of the protein.

Contact our office for further information: info@biosci.com.au



Proteomics is the study of the structure of proteins and their particular function. Proteins are a vital piece of the puzzle in living organisms, as they are the main components of the physiological metabolic pathways of cells. The proteome is the entire complement of proteins, including the modifications made to a particular set of proteins, produced by an organism or system. This will vary with time and distinct requirements, or stresses, that a cell or organism undergoes.

Genlantis was the first company to offer a commercially available <u>BioPORTER Protein Delivery Reagent</u>. This reagent delivers functional protein into the cell for protein function studies. With SoluBL21, a optimized E. coli strain for expressing insoluble proteins in soluble form, as well as cell lysis, and extraction methods, you have powerful tools for proteomic research.

Details on website www.genlantis.com

StemCultures Quality Reagents for Stable Growth Environments



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Cell lines have an innate value when used to investigate the pathophysiology and to screen for potential therapeutic targets of a variety of diseases and disorders in biological systems. CELLutions is currently marketing several novel cell line platforms which have diverse utility in a variety of academic and commercial research programs. Please let us know if you have additional cell lines you are interested in commercializing or are looking for a specific cell line to serve your research needs.

CELLutions goal is to provide novel and useful research products to provide a profound impact on a variety of research programs. Currently, CELLutions has developed a core competency in the commercialization of cell lines, enzymes, and molecular biology reagents.

For a complete listing of CELL LINES available : <u>https://www.cedarlanelabs.com/Cellutions</u>

