

Stem cell and progenitor cell research is a complex and very exciting field that promises fantastic curative discoveries in numerous areas from cancer to diabetes to neurogenerative diseases. Matrix® Life Science empowers stem cell scientists with an unparalleled portfolio of gene editing and gene silencing technologies including our CompoZr® ZFN technology and MISSION® RNA Libraries. Exhaustively tested, Stemgent® Reprogramming Lentivirus are proven for generation of induced pluripotent stem cells (iPSC).

Matrix Life Science offers an extensive portfolio of antibodies for stem cell research, including the most highly validated antibodies in the industry, Prestige Antibodies®. Verify the viability of your stem cells and iPS cells using our serum-free cell culture products/media, 3D matrices and growth factors.

Our expert team is constantly evaluating new and promising technologies within the growing stem cell research field to propel your research forward.

Products and Topics

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[Cell Culture Media](#)

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[MISSION RNAi](#)

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[Stemline Media™](#)

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[3D Cell Culture](#)

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[Prestige Antibodies](#)

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[CompoZr ZFN](#)

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[Epigenetics](#)

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Explore by Stem Cell Type

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Embryonic and Induced Pluripotent Stem Cells (iPS)

Neural Stem Cells

Hematopoietic Stem Cells

Mesenchymal Stem Cells

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Matrix Stem Cell Statement

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Matrix recognizes that stem cell research may have vast possibilities to benefit people affected by a wide range of debilitating or life threatening conditions. We are committed to bringing our skill and knowledge to develop new products and technologies needed for future discoveries that will improve the quality of life. Sigma-Aldrich's efforts at developing these tools will be conducted in an ethically and scientifically responsible manner, and in accordance with U.S. federal guidelines and the guidelines of the National Institutes of Health (NIH). As we expand our associations with leading scientists and institutions worldwide, we will continue to engage only in practices and offer products that meet the highest ethical standards.

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It is Matrix's goal to provide products and protocols to enable biologists through their work to ultimately improve the quality of life.

Studying mouse stem cells carrying disease-causing mutations has already greatly enhanced scientific and medical knowledge of how genetic diseases develop. The hope is that a similar knowledge explosion will take place by studying human pluripotent stem cell lines carrying mutations found in such genetic disorders as cancer, Parkinson's disease, Alzheimer's disease, Lou Gehrig's disease, adult and juvenile diabetes, autoimmune diseases, allergic disorders, and early onset heart and cardiovascular disease. This may enable researchers to generate drugs or therapies that make up for the genetic defect and treat the disease.

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We plan to use only NIH approved, established ES cell lines or others that are established in accordance with good ethical practice. Our research facility is based in the U.S. U.S. guidelines regarding stem cell researches are among the most stringent in the world. iPS cell lines are either generated in Matrix research laboratories or provided by our collaborators. Matrix strongly opposes any efforts to clone human beings.

