Symbiosis Centre for Stem Cell Research was established on 29th July 2016 under the Faculty of Health and Biomedical Sciences. The centre is a unique research centre in Pune that will perform research exclusively on stem cells. Primarily several areas of research in Experimental Hematology at a cellular and molecular level would be carried out with respect to aging of stem cells, microenvironment–mediated regulation of hematopoietic stem cells, leukemia/lymphoma biology, development of 3D cultures, mesenchymal stem cell biology with special focus on exosomes and micro-vesicles and signal transduction. Consecutively, research would be extended towards induced pluripotent stem cell biology with a special reference to targeted differentiation towards specific lineages and development of disease models.

The vision is to slowly develop Symbiosis Centre for Stem Cell Research into a “Centre for Stem Cell Research and Regenerative Medicine” to be associated with the Symbiosis Hospital. A (proposed) centre of such a kind would facilitate basic as well as translational stem cell research, with the potential application of generating stem cells and tissues that could be used for cell-based therapies.

Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India has identified Stem Cell Research as one of the most exciting fields of life science in view of its potential clinical applications. With this understanding Symbiosis Centre for Stem Cell Research will serve in strengthening research in one of the targeted areas as identified by DBT’s Medical Biotechnology programme.