

**Name** : Dr. Manisha Deshpande  
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**Academic Qualifications** : Ph.D. Biotechnology (University of Pune)  
M.Sc. Biotechnology (Jawaharlal Nehru University)

**Teaching Experience** : Dr. D.Y. Patil Biotechnology & Bioinformatics  
Institute, Pune (August 2014 to present)

**Research Interest** : Translational Research : Applying science for the  
benefit of human health.

**Research Experience :**

1. **Principal Scientist**, Reliance Life Sciences Pvt. Ltd., Navi Mumbai, Maharashtra, India (July 2001 to August 2011) *Product research and development in Tissue Engineering/Regenerative Medicine.*
2. **Research Associate**, National Centre for Cell Science, Pune, Maharashtra, India (February 1999 to June 2001) *Research in Molecular Biology.*
3. **Junior Research Fellow**, Department of Zoology, University of Pune, Pune, Maharashtra, India (April 1993 to June 1994) *Research in Molecular Biology.*

**Publications :**

1. \*Deshpande M, Kuchroo P. (2010) A novel dermal tissue construct: development and *in vitro* characterization. *Biotechnol. Prog.* 26:1424-1430.

2. \*Deshpande M, Tipnis S, Shetty P, Ghosh D, Senmajumdar A, Viswanathan C. (2010) Immunologic properties of human dermal fibroblasts. *Hum. Immunol.* 71:1089-1098.
3. \*Deshpande M. (2008) Three-dimensional organization of dermal fibroblasts by macromass culture. *Biotechnol. Appl. Biochem.* 49:65-72.
4. \*Deshpande M, Venuprasad K, Parab PB, Saha B, Mitra D. (2002) A novel CD28 mRNA variant and simultaneous presence of various CD28 mRNA isoforms in human T lymphocytes. *Hum. Immunol.* 63:20-23.
5. \*Deshpande M. (2001) Causing a stir: biomolecular mixing *Riv. Biol.* 94:443-457.
6. Venuprasad K, Parab P, Prasad DV, Sharma S, Banerjee PR, Deshpande M, Mitra DK, Pal S, Bhadra R, Mitra D, Saha B. (2001) Immunobiology of CD28 expression on human neutrophils. I. CD28 regulates neutrophil migration by modulating CXCR-1 expression. *Eur. J. Immunol.* 31:1536-1543.
7. Sitasawad S, Deshpande M, Katdare M, Tirth S, Parab P. (2001) Beneficial effect of supplementation with copper sulfate on STZ-diabetic mice (IDDM). *Diabetes Res. Clin. Pract.* 52:77-84.
8. \*Deshpande M, Mitra D, Parab PB. (2001) Polyacrylamide gel as a matrix for the delivery of a layer or coat of other molecules. *Biotechniques.* 30:258, 261-262.
9. Deshpande M, Katdare M, Parab PB. (2000) Supplementation with soybean lipids reduces goat serum-induced apoptosis in the B cell hybridoma CC9C10. *In Vitro Cell. Dev. Biol. Anim.* 36:1-3.
10. Reddy.B.V.B., Deshpande,M. and Pandit.M.W. (1991) A computer prediction of splice sites in human genome. In Held.K.D.,Brebba.C.A. and Ciskowski.R.D.

(eds). *Computers in Biomedicine*, Proc. First International Conference, Southampton, 24-26 September 1991. Computational Mechanics, Boston, MA.

**Patents :**

1. Deshpande M, Rao H, Wangikar P, Kuchroo P. (2013) A process for the preparation of three-dimensional tissue equivalent using macromass culture. Granted Indian patent no. 255598.
2. Deshpande M, Rao H, Wangikar P, Kuchroo P. (2011) Three-dimensional tissue equivalent using macromass culture. Granted United States patent no. 7,993,922.
3. Deshpande M, Mojamdar M. (2008) Method of macromass culture for generation of macroscopic three dimensional tissue-like organization of cells. Granted European patent no. EP1730264.
4. Deshpande M, Mojamdar M. (2005) Method of macromass culture for generation of macroscopic three dimensional tissue-like organization of cells. Granted Indian patent no. 195953.

**Trainings/Workshops/ Seminars/ Conferences :**

1. Course on “Advances in Tissue Engineering” at Rice University, Houston, USA in August 2010:- Received 3.1 Continuing Education Units.
2. International Symposium on Stem Cells and Regenerative Medicine at Dhirubhai Ambani Life Sciences Centre, Navi Mumbai, Maharashtra, India, in February 2006.
3. Indo-US workshop on “Tissue engineering and stem cell technologies” at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India, in February 2004.