

*CURRICULUM VITAE*

**SHRIKESH (RICK) SACHDEV, PhD**

**CURRENT POSITION**

Senior Research Associate  
Mentor: Dr. R. Michael Roberts  
University of Missouri  
240h Bond Life Sciences Center  
1201 East Rollins St.  
Columbia, MO. 65211

Cell: (573) 673-5209  
E-mail: [sachdevs@missouri.edu](mailto:sachdevs@missouri.edu)

**PREVIOUS POSITIONS**

- 9/2018-8/2019: Senior Research Associate  
Comparative Oncology, Radiobiology and Epigenetics Laboratory  
Mentor: Dr. Angela McCleary-Wheeler  
University of Missouri  
W141 Veterinary Medicine Building  
1600 East Rollins St.  
Columbia, MO. 65211
- 7/2018-8/2018: Senior Research Scientist  
Mentor: Dr. Chandrasekar Bysani,  
Margaret Proctor Mulligan Endowed Professor  
Research Career Scientist-Harry S. Truman Memorial Veterans Hospital  
Department of Medicine-Cardiology.  
University of Missouri  
Columbia, MO. 65212
- 8/2011-7/2018: Senior Research Scientist  
Mentor: Dr. David J. Pintel, Curators Distinguished Professor  
Dr. R. Philip and Diane Acuff Endowed Professor in Medical Research  
Molecular Microbiology and Immunology  
University of Missouri.
- 8/2009-7/2011: Research Scientist  
Mentor: Dr. Mark Hannink, Professor of Biochemistry  
Associate Director, Fellowships and Education, Bond Life Sciences Center  
University of Missouri.
- 4/2003-8/2009: Postdoctoral Fellow  
Mentor: Dr. Mark Hannink, Professor of Biochemistry  
Associate Director, Fellowships and Education, Bond Life Sciences Center  
University of Missouri.
- 1999-2003: Fellow of the American Leukemia and Lymphoma Society  
Mentor: Dr. Rudi Grosschedl, Professor.  
Gene Center and Institute of Biochemistry, University of Munich.
- 1998-1999: Postdoctoral Fellow  
Mentor: Dr. Mark Hannink, Professor, Biochemistry Department.  
University of Missouri.
- 1993-1998: Graduate Research Assistant - Biochemistry Department, School of  
Medicine, University of Missouri.
- 1991-1993: Graduate Research Assistant – Fisheries and Wildlife Department, School  
of Natural Resources, University of Missouri.

## EDUCATION

- 1998: Ph.D. in Biochemistry – University of Missouri, Columbia, MO.  
1993: M.S. in Fisheries and Wildlife – University of Missouri, Columbia, MO.  
1990: B.S. in Biology - McMaster University, Hamilton, Ontario, Canada.

## SELECTED AWARDS AND PROFESSIONAL AFFILIATIONS

### *Awards*

- 1998: Superior Graduate Achievement Award  
1995: Donald K. Anderson Graduate Student Teaching Award  
1993: Who's Who in America

### *Professional Affiliations*

- 1998: Sigma Xi Honorary Scientific Society  
1997: Phi Lambda Upsilon Honorary Chemistry Society

## PUBLICATIONS

1. **Sachdev, S.**, E. M. Rottjakob, J. A. Diehl, and M. Hannink. 1995. I $\kappa$ B- $\alpha$ -mediated inhibition of nuclear transport and DNA-binding by Rel proteins are separable functions: Phosphorylation of C-terminal serine residues of I $\kappa$ B- $\alpha$  is specifically required for inhibition of DNA-binding. *Oncogene* **11**:811-823.
2. Rottjakob, E. M., **S. Sachdev**, C. A. Leanna, T. A. McKinsey, and M. Hannink. 1996. PEST-dependent cytoplasmic retention of v-Rel by I $\kappa$ B- $\alpha$ : Evidence that I $\kappa$ B- $\alpha$  regulates cellular localization of c-Rel and v-Rel by distinct mechanisms. *J. Virology* **70**:3176-3188.
3. **Sachdev, S.**, J. A. Diehl, T. A. McKinsey, A. Hans, and M. Hannink. 1997. A threshold nuclear level of the v-Rel oncoprotein is required for transformation of avian lymphocytes. *Oncogene* **14**:2585-2594.
4. **Sachdev, S.**, A. Hoffmann, and M. Hannink. 1998. Nuclear localization of I $\kappa$ B $\alpha$  is mediated by the second ankyrin repeat: the I $\kappa$ B $\alpha$  ankyrin repeats define a novel class of *cis*-acting nuclear import sequences. *Mol. Cell. Biol.* **18**:2524-2534.
5. **Sachdev, S.** and M. Hannink. 1998. Loss of I $\kappa$ B $\alpha$ -mediated control over nuclear import and DNA-binding enables oncogenic activation of c-Rel. *Mol. Cell. Biol.* **18**:5445-5456.
6. **Sachdev, S.**, S. Bagchi, D. D. Zhang, A. Mings, and M. Hannink. 2000. Nuclear import of I $\kappa$ B $\alpha$  is accomplished by a Ran-independent transport pathway. *Mol. Cell. Biol.* **20**:1571-1582.
7. **Sachdev, S.**, L. K. Bruhn, H. Sieber, A. Pichler, F. Melchior, and R. Grosschedl. 2001. PIASy, a nuclear matrix-associated SUMO E3 ligase, represses LEF1 activity by sequestration into nuclear bodies<sup>^</sup>. *Genes Dev.* **15**:3088-3103. Comment in *Genes Dev.* 2001 Dec 1;15(23):3053-8.
8. Ghosh, D., **S. Sachdev**, M. Hannink, and R. M. Roberts. 2005. Coordinate regulation of basal and cAMP-activated expression of hCG $\alpha$  by Ets2 and CREB. *Mol. Endocr.* **19**:1049-66.
9. Roberts, R. M., T. Ezashi, S. Westfall, **S. Sachdev**, and M. Hannink. 2006. Epigenetics and embryonic stem cells (Chapter 18) in Jinglun Xue (Ed) *Epigenetics: Principles, Protocols and Practice*. Shanghai Science and Technology Publishers, Inc. pp.273-281 & pp.355-372.
10. Srinivasan, R., S-W. Jang, R. M. Ward, **S. Sachdev**, T. Ezashi, and J. Svaren. 2007. Regulation of NAB corepressor expression in Schwann cells. *BMC Mol. Biol.* **8**:117.
11. Westfall, S. D., **S. Sachdev**, P. Das, L. B. Hearne, M. Hannink, R. M. Roberts, and T. Ezashi. 2008. Identification of oxygen-sensitive transcriptional programs in human embryonic stem cells. *Stem Cells Dev.* **17**:869-82.
12. Ezashi T., B. P. Telugu, A. Alexenko, **S. Sachdev**, S. Sinha and R. M. Roberts. 2009. Derivation of

- induced pluripotent stem cells from pig somatic cells. Proc. Natl. Acad. Sci. USA. **106**:10993-8.
13. Powell, M. D., G. Manandhar, L. Spate, M. Sutovsky, S. Zimmerman, **S. Sachdev**, M. Hannink, J. Green, R. S. Prather, and P. Sutovsky. 2010. Discovery of putative oocyte quality markers by Exac Tag proteomics. Prot. Clin. Apps. **4**:337-51.
  14. Cirak S., F. Von Deimling, **S. Sachdev**, W. J. Errington, R. Herrmann, G. Osse, C. Bonnemann, K. Brockmann, S. Hinderlich, T. H. Lindner, A. Steinbrecher, K. Hoffmann, G. G. Prive, M. Hannink, P. Nurnberg, and T. Voit. 2010. *Kelch-like homolog 9* mutation is associated with an early onset autosomal dominant distal myopathy\*. Brain 2010 July;133(Pt7):2123-35. Comment in Brain 2010 July:133(Pt7):1865-8.
  15. Roberts D., U. V. Pedmale, J. Morrow, **S. Sachdev**, E. Lechner, X. Tang, N. Zheng, M. Hannink, P. Genschick, and E. Liscum. 2011. Modulation of phototropic responsiveness in Arabidopsis through ubiquitination of phototropin 1 by the CUL3-Ring E3 ubiquitin ligase CRL3(NPH3). Plant Cell. **ct;23(10)**:3627-40.
  16. Roeseler D. A., **S. Sachdev**, T. Joshi, C. H. Hwang, D. Xu, M. Hannink, and S. Waters. GBX2 target gene identification reveals Usher Syndrome genes PCD15 and USH2A. 2011. J Nurse-Midwifery **356(1)**:351.
  17. Roeseler D. A., **S. Sachdev**, D. M. Buckley, T. Joshi, D. K. Wu, D. Xu, M. Hannink, and S. T. Waters. 2012. Elongation factor 1 alpha1 and genes associated with Usher syndrome are downstream targets of GBX2. PLoS One. **7(11)**:e47366.
  18. **Sachdev S.**, Z. Sun, and M Hannink. Discrete amino acids within the Kelch domain of BTB-Kelch proteins contribute to protein stability and association with substrate. 2019 Manuscript to be submitted.
  19. Wilkins J., S. Sachdev, J.L. Lo, and M. Hannink. Loss of PGAM5, a Serine/Threonine Phosphatase, results in anoikis. 2019 Manuscript in prep.
  20. **Sachdev S.**, Song Mi, D. J. Pintel, and K. Singh. DNA Polymerase  $\alpha$  and Primase Activities With Immunoaffinity-Purified DNA Polymerase  $\alpha$  from a small number of cells. 2019 Manuscript in prep.