

Priyanka Verma, Ph.D.

Dept. of Cancer Biology, 520 BRBII/III, 421 Curie Blvd, University of Pennsylvania, Philadelphia, PA
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EDUCATION

Dec 2012 Ph.D. in Biochemistry and Microbiology, National Institute of Immunology, India
April 2007 M.Sc. in Biotechnology, University of Pune, India
June 2005 B.Sc. in Chemistry and Botany, University of Lucknow, India

RESEARCH EXPERIENCES

Dec 2015-Present **Postdoctoral Researcher** (Advisor: Dr. Roger A. Greenberg)
Department of Cancer Biology,
University of Pennsylvania, USA
Jan 2013-Nov 2015 **Postdoctoral Associate** (Advisor: Dr. Tarun M. Kapoor)
Laboratory of Chemistry and Cell Biology,
The Rockefeller University, USA
May 2007-Dec 2012 **Graduate Student** (Advisor: Dr. Rajesh S. Gokhale)
Laboratory of Chemical Biology,
National Institute of Immunology, India

FELLOWSHIPS & AWARDS

Ovarian Cancer Translational Center of Excellence Feb 2020-Feb 2021
Mentored-Scientist Award, UPenn, USA
Targeting chromatin remodeler ALC1 as a therapeutic approach for HR-deficient ovarian cancer
Role: Principal Investigator \$50,000
Ann and Sol Schreiber Mentored Investigator Award, March 2017-Feb 2019
OCRA Alliance, USA
BRCA-Independent DNA Repair Pathways in Ovarian Cancer
Role: Principal Investigator \$75,000
Department of Biotechnology Research Fellowship, India July 2007-Dec 2012
Awarded Gold Medal for obtaining 1st rank in M.Sc. Exams, University of Pune, India 2007
Summer Research Internship Fellowship, Indian Academy of Science, India May 2006-July 2006
Department of Biotechnology Master's Fellowship, India July 2005-June 2007

SELECTED/INVITED PRESENTATIONS

12/2020	CSHL The PARP Family & ADP-ribosylation Meeting, USA
10/2019	Genome Integrity Discussion Group, New York Academy of Sciences, New York, USA
09/2018	Penn Genome Integrity Group Symposium, University of Pennsylvania, USA
04/2018	Genome Integrity Discussion Group, New York Academy of Sciences, New York, USA
04/2017	Basser Center for BRCA, University of Pennsylvania, USA

MENTORING EXPERIENCES

April 2020-Sep 2020	Yue Shao, Graduate Student
Nov 2019-Present	Moniher Deb, Research Specialist
Aug 2019-March 2020	Peter Debraska, Master's Student
Jan 2019-June 2019	Laura Puentes, Graduate Student
June 2017-Present	Yiwen Li, Undergrad
June 2016-Jul 2017	Dr. Sonali Patankar, Gynecologic Oncology Fellow
Jan 2016-April 2017	Katherine Novak, Undergrad

PUBLICATIONS

1. **Verma P.**, Zhou Y., Cao Z., Deraska P., Arai E., Deb M., Li W., Li Y., Patankar S., Faryabi RB., Shi J., Greenberg RA. ALC1 and PARP activities coordinate chromatin accessibility and viability in homologous recombination deficient cells. *Nat Cell Biol.*, *Accepted for publication* 2021.
<https://doi.org/10.1101/2020.12.16.422851>. *BioRxiv*
2. Kim H., Xu H., George E., Hallberg D., Kumar S., Jagannathan V., Medvedev S., Kinose Y., Devins K., **Verma P.**, Ly K., Wang Y., Greenberg RA., Schwartz L., Johnson N., Scharpf, RB., Mills GB., Zhang R., Velculescu VE., Brown EJ., Simpkins, F. Combination PARP and ATR inhibition causes complete and durable responses in PARP inhibitor and platinum resistant ovarian cancer. *Nat Commun.* 11(1),1-16 2020.
3. Pamula MC., Carlini L., Forth S., **Verma P.**, Suresh S., Legant W., Betzig E., and Kapoor TM. High-resolution imaging reveals how the spindle midzone impacts chromosome movement. *J Cell Biol.* 218(8), 2529-2544, 2019.
4. **Verma P.**, Dilley RL, Zhang T, Gyparaki MT, Li Y, Greenberg RA. RAD52 and SLX4 act nonepistatically to ensure telomere stability during alternative telomere lengthening. *Genes Dev.* 33, 221-235, 2019.
5. **Verma P.***, Dilley RL.*, Gyparaki MT., Greenberg RA. Direct Quantitative Monitoring of Homology-Directed DNA Repair of Damaged Telomeres. *Methods in enzymology.* 600, 107-134, 2018. **(*Equal first author)**
6. Dilley RL., **Verma P.**, Cho NM., Winters HD., Wondisford A., Greenberg RA. Break-induced telomere synthesis underlies homology-directed telomere maintenance. *Nature.* 539, 54-58, 2016.
7. **Verma P.**, Greenberg RA. Non-canonical views of homology directed DNA repair. *Genes Dev.* 30,1138-1154, 2016.
8. Kleiner RE., **Verma P.**, Molloy KR., Chait BT., Kapoor TM. A chemical proteomics approach reveals a direct interaction between 53BP1 and YH2AX involved in the DNA damage response. *Nat. Chem. Biol.* 11, 807-814, 2015.
9. Anand A.*, **Verma P.***, Singh AK., Kaushik S., Pandey R., Shi C., Kaur H., Chawla M., Elechalawar CK., Kumar D., Yang Y., Bhavesh NS., Banerjee R., Dash D., Singh A., Natrajan VT, Ojha AK., Aldrich CC., Gokhale RS. Polyketide quinones are alternate intermediate electron carriers during mycobacterial respiration in oxygen-deficient niches. *Mol. Cell.* 60, 637-650, 2015. **(*Equal first author)**

10. Resmi MS., **Verma P.**, Gokhale RS., Soniya EV. Identification and characterization of a Type III Polyketide synthase involved in quinolone alkaloid biosynthesis from *Aegle marmelos* Correa. **J. Biol. Chem.** 288, 7271-7281, 2013.
11. Singh V., Jamwal S., Jain R., **Verma P.**, Gokhale R., Rao KV. Mycobacterium tuberculosis-driven targeted recalibration of macrophage lipid homeostasis promotes the foamy phenotype. **Cell Host Microbe.** 12, 669-681, 2012.
12. Swaroop PS., Raut G., Gonnade RG., **Verma P.**, Gokhale RS., Reddy DS. Anti-tuberculosis Agent Diaportheone B: Synthesis, absolute configuration, assignment and anti-TB activity of its analogues. **Org. Biomol. Chem.** 10, 5385-5394, 2012.
13. Raut N.G., Chakraborty K., **Verma P.**, Gokhale RS., Reddy DS. Synthesis of isomeric corniculatolides. **Tetrahedron Lett.** 53, 6343-6346, 2012.
14. Goyal A.*, **Verma P.***, Ananadkrishna M., Gokhale RS., Sankaranarayanan R. Molecular basis of the functional divergence of Fatty Acyl-AMP Ligase biosynthetic enzymes of *Mycobacterium tuberculosis*. **J. Mol. Biol.** 416, 221-238, 2012. (***Equal first author**) (Cover Page Article)
15. Arora P., Goyal A., Natarajan VT., Rajakumara E., **Verma P.**, Gupta R., Yousuf M., Trivedi OA., Mohanty D., Tyagi A., Sankaranarayanan R., Gokhale RS. Mechanistic and functional insights into fatty acid activation in *Mycobacterium tuberculosis*. **Nat. Chem. Biol.** 5, 166-173, 2009.

PROFESSIONAL RESPONSIBILITIES

Served as Conference Assistant at the Genomic Stability and DNA Repair, Keystone Meeting, 2020

Associate Faculty Member of F1000Prime, March 2009-Jan 2013

REFERENCES

1. Roger A. Greenberg, M.D., Ph.D.
Professor
University of Pennsylvania
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215-746-2738
2. Junwei Shi, Ph.D.
Assistant Professor
University of Pennsylvania
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3. Rajesh S. Gokhale, Ph.D.
Scientist VII
National Institute of Immunology,
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4. Tarun M. Kapoor, Ph.D.
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