

DR. ANJNI KOUL

Professor

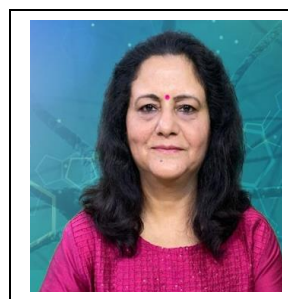
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QUALIFICATIONS

M.Sc, M.Phil, Ph.D: Chemistry

AREA OF INTEREST / SPECIALIZATION

- Chemistry Education
- Science Education

RESEARCH EXPERIENCE

- Around 29 years of Research/ Teaching experience in National and International Laboratories / Universities.
- Worked as CSIR Research Associate in School of Life Sciences, **Jawaharlal Nehru University**, New Delhi.
- Post-Doctoral Fellow in Department of Dermatology, **Case Western University, Cleveland, Ohio, U.S.A.**
- Joined DESM, NCERT in 2001 and presently working as a Professor in Department of Education in Science and Mathematics, NCERT.
- PI/Co-PI for number of research projects in chemistry and science education and published number of Chapters / Research Papers in National and International Books/ Journals in Chemistry and Science Education.
- Participated in many seminars and conferences conducted nationally and internationally.

REVIEW WORK

Reviewed and analyzed the suggestions received for

- Draft NEP 2020.
- Rationalization of syllabus for science and chemistry.
- Member of Advisory/Review Board of the various Journals.
- Evaluated number of Ph.D Thesis related to Science Education
- Reviewed many research papers of various National and International Journals

DEVELOPMENT OF TEXTBOOKS AND OTHER TEACHING-LEARNING MATERIALS

- Academic coordinator and member of the development team for number of textbooks and supplementary materials developed in Science, Science Education and Chemistry.
- Member for the development of Module on Pedagogy of Science for NISHTHA at Upper Primary and Secondary Stages (online and offline).
- Member for the development of Module on Pedagogy of Science for IMPACT at Upper Primary Stage.
- Learning Outcomes in Science at Upper Primary and Secondary Stages.
- Member Coordinator for the Development of Learning outcome in Chemistry at Higher Secondary Stage.
- Member Coordinator for the Development of Alternate Academic Calendar in Science at Secondary Stage.
- Convener for the Development of Working Paper on Science Education
- Member for the development of Working Papers on Environmental Education
- Member for the development of Working Papers on Indian Knowledge
- Member for the development of Working Papers on Computational Thinking
- Member for the development of Guidelines for SAHAJ
- Presently Working in the Development of Tactile Kit in Science for Visually Impaired Students.

DEVELOPMENT OF ON-LINE COURSE AND E-RESOURCES

- Co-ordinator of an online course entitled Teaching of Science at Upper Primary Stage, developed for teachers teaching at middle level.
- Developed e-content in Science (Class X) and Chemistry (Class XI) under PM E-Vidya.

TRAINING/ CAPACITY BUILDING PROGRAMMES

- Coordinator / resource person for conducting various Training/ capacity building programmes organized online and offline.
- Resource person for NISHTHA.
- Resource Person for various Regional Meets on dissemination on Learning Outcomes.

EXTENSION ACTIVITIES

One of the Team/ Committee Member for

- Evaluating and finalizing the projects submitted by children from different States for. 'Jawaharlal Nehru National Level Science, Mathematics and Environment Exhibition (JNNSMEE)' for children.
- State level Science, Mathematics and Environment Exhibition (SLSMEE) for children.
- Rashtriya Avishkar Abhiyan activities.

SOME MAJOR RESEARCH PUBLICATIONS (INTERNATIONAL/NATIONAL)

- Koul, A., Chandra, J & Prasad, R. 1995. Status of Membrane Lipids in the Morphogenesis of *Candida albicans*, *Biochemistry and Molecular Biology International* 35 (6), 1215, Australia.
- Khaware, R.K., Koul, A. & Prasad, R. 1995. High membrane fluidity is Related to NaCl Stress in *Candida membranefaciens*, *Biochemistry and Molecular Biology International*, 35 (4), 875, Australia.
- Koul, A. & Prasad, R. 1996. Extraction of Membrane Lipids, in Manual on Membrane Lipids, Prasad, R., ed., Springer – Verlag Berlin Heidelberg, New York, U.S.A.
- Prasad, R., Koul, A., Mukerjee, P.K. Ghannoum M.A. Prasad, R. & Ghannoum, M.A.1996., Lipids, of *Candida albicans*, in Lipids of Pathogenic Fungi, eds. CRC Press, Boca Raton, U.S.A.
- Steven D. Leidich, Ashraf, S. Ibraghim, Yuyefu, Anjni Koul, Chad Jassup, John Vitullo, William Fonzi, Fariba Mirbod, Shigeru Nakashima, Yoshinori Nozawa & Mahmoud A. Ghannoum.1998. Cloning and Disruption of Ca PLBI, a Phospholipase B Gene Involved in the Pathogenicity of *Candida albicans*, *The Journal of Biological Chemistry (JBC)* 273 (40), p.p. 26078 – 26086, U.S.A.
- Koul, A., Vitullo, J., Reyes, G. & Ghannoum, M.A.1999. Effect of Voriconazole on *Candida glabrata* in Vitro, *Journal of Antimicrobial Chemotherapy, British Society for Antimicrobial Chemotherapy*, 44, 109-112.
- Bayor, A.S., Prasad, R., Chandra, J., Koul A, Smriti, M. Varma, A. Skurray, R.A., Firth, N. Brown, M.H., Koo Su-Pin & Yeaman, M.R.. 2000. In Vitro Resistance of *Staphylococcus aureus* to Thrombin Induced Platelet Microbicidal Protein is Associated with Alterations in Cytoplasmic Membrane Fluidity”, *Infect. Immun.* 66 (4) p.p. 3548 – 3552, U.S.A.
- Koul, Anjni . 2008. Evaluation in Science: Quality Issues’, School Science- A Quarterly Journal of Science Education, Vol.46 No.4, NCERT, India.

- Koul, Anjni.2010.'Formative Assessment in Science – An Exemplar' School Science' – A Quarterly Journal of Science Education, Vol.48 No. 3 and 4.NCERT, India.
- Mahrotra, Alka and Koul, Anjni. 2012. Is Teaching Learning of Mole Concept Really Difficult, School Science-A Quarterly Journal of Science Education, NCERT, INDIA.
- Koul, Anjni. 2013. Joy of Learning Components of Air at Middle School Level, *School Science – A Quarterly Journal of Science Education*, NCERT, India.
- Koul Anjni.2014. Impact of Innovative Approaches in Teaching Learning of Science on Rural Students at Middle School Level, *Journal of Asia-Pacific Forum on Science Learning and Teaching*, Vol. 15, Issue 2.
- Wazalwar, A.K. & Koul, Anjni.2014. A collaborative Project in Science and Mathematics at Middle School Level - A Case Study, *International Journal of Science and Mathematics Education in Southeast Asia*, Vol.37.
- Koul, Anjni . 2015. School Environment from Physical Aspects to Learning, The Primary Teacher, Vol.XXXX (1). 40-49. NCERT, India
- Mahrotra, Alka & Koul, Anjni .2016., The vital Role of Basic Mathematics in Teaching Learning of the Mole Concept, *Journal of School Science Review*, 98(362), UK.
- Koul, Anjni & Verma, Ruchi. 2016. Facilitating Teaching Learning Practices in Science, School Science-A Quarterly Journal of Science Education, 54(1), 29-34, NCERT, India.
- Koul, Anjni . 2017. Straight from the Professional Development Classroom- A Practical Experience, *Teaching of Science*, Australia, 63(1),
- Koul, Anjni. 2018. An Effective Demonstration of the Preparation of Iron(II) Sulfide, *School Science Review*, 99 (369),UK.
- Koul, Anjni & Verma, Ruchi. 2018. Science Kits as a Resource: Issues and Challenges. *Asia-Pacific Forum on Science Learning and Teaching*, Volume 19, Issue 2, Article 6.
- Koul, Anjni. 2021."Analysis of students' Learning Performance in Science at Middle Level", *International Journal of Teacher Education and Teaching*, Volume1, 60-74, Chicago.