



# केन्द्रीय औषधि अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

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## CERTIFICATE

This is to certify that the thesis entitled "*In-vitro screening of natural/synthetic compounds for their potential to induce differentiation and/or apoptosis in myeloid leukemia cells: Understanding differentiation pathways in myeloid cell development*" submitted to Jawaharlal Nehru University, New Delhi in the partial fulfillment of the requirement for the award of the degree of Doctor of Philosophy comprises the work done by Ms. Pooja Pal under my guidance at the CSIR-Central Drug Research Institute, Lucknow. The work presented is original and has not been submitted in part or full for any other degree or diploma of any University/Institute.

Dr. Arun Kumar Trivedi