



## PERSONALIZED APPROACH TO ACUTE MYELOID LEUKEMIA

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### Abstract:

Acute myeloid leukemia (AML) is characterized by blocked myeloid-lineage differentiation and accumulation of myeloid blast cells in the bone-marrow that results in catastrophic bone-marrow failure. AML is a highly heterogeneous disease driven by different mutations that affect signaling pathways, transcription factors, and epigenetic regulators. The current treatment for AML starts with induction chemotherapy, followed by a few cycles of consolidation chemotherapy or an allogeneic hematopoietic stem-cell transplantation (allo-HSCT). The disease's prognosis and outcomes in adults and the elderly, who account for the majority of AML patients, remains poor. The ever-growing advancement in genomic technologies allows us to have an unprecedented view of the spectrum and frequency of mutations, their clonal nature, and their evolution during progression of the disease and the epigenetic modulation of the disease. Incorporating ex vivo highthroughput drug screening has the potential to tailor therapy for patients. This review provides an overview on novel targeted therapies, approved drugs, and ongoing clinical trials with the aim of personalizing AML therapy.

### Biography:

Prof. Dr. Anil Batta is presently professor & Head with senior consultant in Govt. Medical College, Amritsar. He did his M.B.B.S. and M.D. in Medical Biochemistry from Govt. Medical College, Patiala in 1984 and 1991, respectively. His research interest is mainly in clinical application especially cancer and drug de-addiction. He has supervised more than 25 M.D., M.Sc. and Doctorate researches and published more than 130 international research papers. He is the chief editor of America's Journal of Biochemistry. He is also working as advisor to the editorial board of International Journal of Biological and Medical Research. He has been deputed member Editori-



al Board of numerous International & National Medical Journals of Biochemistry. He has also been attached as technical advisor to various national and international conferences in Biochemistry. He has been attached as hi-tech endocrinal, genetics and automated labs of Baba Farid Univ. of Health Sciences, Faridkot. He has chaired various sessions in the Biochemistry meets. He has been designated as member Editorial Board of various in US and other European Countries. He is also involved in various research projects at Govt. Medical, Amritsar. He has done superspecialisation in Drug-de-addiction from PGIMER, Chandigarh.

### Publication of speakers:

1. Anil Batta Biochemical diagnosis of acute appendicitis International Journal of Medical and Health Research ISSN: 2454-9142
2. Volume 4; Issue 7; July 2018; Page No. 77-80
3. Anil Batta Burnout Syndrome in Medical Fraternity ISSN 2518-3389 (Print) ISSN 2518-3397(Online) Scholars Middle East
4. Publishers, Dubai, United Arab Emirates
5. Anil Batta Vitamin B12 and Depression Saudi Journal of Medicine ISSN 2518-3389 (Print)|ISSN 2518-3397(Online)
6. Scholars Middle East Publishers, Dubai, United Arab Emirates

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