



Nanotechnology for Hematology, Blood Transfusion, and Artificial Blood

Micro and Nano Technologies

2022, Pages 285-311

Chapter 13 - Nanotechnology for blood test to predict the blood diseases/blood disorders

Setti Sudharsan Meenambiga, Punniavan Sakthiselvan, Sowmya Hari, Devasena Umair

Show more 

 Outline |  Share  Cite

<https://doi.org/10.1016/B978-0-12-823971-1.00005-2> 

[Get rights and content](#) 

Abstract

This chapter briefly describes different types of blood disorders such as anemia, bleeding disorders and blood cancer (including its types and pathogenesis). Some of the current diagnostic and treatment modalities practiced and the various challenges are discussed. Nanodiagnostics employs umpteen varieties of nanostuctures and nanodevices that have the potential to detect diseases. The potential applications of nanoparticles and nanosensors in diagnosing anemia, blood cancer, and bleeding disorders are highlighted with the focus on their efficacy. The presented overview deals with alternative solutions to manage blood diseases providing innovative noninvasive approaches for diagnosis and treatment.

[Recommended articles](#)

References (0)

Cited by (5)

[A comprehensive review on the biomedical frontiers of nanowire applications](#)

2024, Heliyon

[Show abstract](#) ✓

[Porous Conductive Textiles for Wearable Electronics](#) ↗

2024, Chemical Reviews

[Thalassemia and Nanotheragnostics: Advanced Approaches for Diagnosis and Treatment](#) ↗

2023, Biosensors

[SQUID PENS MEDIATED SILVER NANOPARTICLES SYNTHESIS, ITS CHARACTERISATION, AND BIOLOGICAL ACTIVITIES](#) ↗

2023, Rasayan Journal of Chemistry

[PALMYRA SPROUT MEDIATED SYNTHESIS OF SILVER NANOPARTICLE AND ITS ANTIBACTERIAL ACTIVITY](#) ↗

2023, Oxidation Communications

[View full text](#)

Copyright © 2022 Elsevier Inc. All rights reserved.



