

# Dr. Atul Tiwari, MD

Assistant Professor | Pathologist | AI & Bioinformatics Researcher

Dedicated and accomplished Assistant Professor with a strong background in Pathology, complemented by expertise in Artificial Intelligence and Bioinformatics. As a seasoned professional in the medical and scientific community, I have demonstrated a commitment to advancing both academic and technological frontiers. My extensive knowledge and experience are underpinned by a deep-seated passion for research and education.

## Publications

- Atul Tiwari, Shaikh Abdul Hannan, Rajasekhara Pinnamaneni, Abdul Rahman Mohammed Al-Ansari, Yousef A. Baker El-Ebiary, S. Prema, R. Manikandan and Jorge L. Javier Vidalón, "Optimized Ensemble of Hybrid RNN-GAN Models for Accurate and Automated Lung Tumour Detection from CT Images" International Journal of Advanced Computer Science and Applications(IJACSA), 14(7), 2023. <http://dx.doi.org/10.14569/IJACSA.2023.0140769>
- Jain, Niharika; Gautam, Parul,; Tiwari, Atul; Mittal, Anjana; Gupta, Naveen; Yadav, Mohan Lal. When Clinico-Morphological and Molecular Studies Tell Different Stories: A Case of Myelodysplastic Syndrome. International Journal of Applied and Basic Medical Research 12(4):p 288-290, Oct–Dec 2022. | DOI: 10.4103/ijabmr.ijabmr\_776\_21
- Tiwari, Atul; Dutt, Manender; Surendhar S, Prasath Alias; Panwar, Sarika; J Sundararajan; S Karthikkumar, and P John Augustine. "Performance Evaluation Of Machine Learning Techniques For COVID-19 Prediction From The Occurrence." International Journal of Food and Nutritional Sciences 11, no. 5 Iss 1 (2022) (December 6, 2022): 2672–80.
- Shaily Sharma, Mahesh Meena, Himanshu Sharma, Dinesh Kumar Yadav, Atul Tiwari & Ved Prakash Verma (2022) Fe<sub>3</sub>O<sub>4</sub>-supported sulfonated graphene oxide as a green and magnetically separable nanocatalyst for synthesis of 2-amino-3-cyano-4H-chromene derivatives and their in-silico studies, Synthetic Communications, 52:19-20, 1926-1955, DOI:

## Contact

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### Twitter

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### WWW

<https://atultiwari.in/>

## Skills

Artificial Intelligence

Hematopathology

Flow cytometry

Medical Technology  
Researcher

Cytopathology

Histopathology

Transfusion Medicine

Drug Discovery

10.1080/00397911.2022.2120404

- Agarwal S, Tiwari A, Yadav ML. Evaluation of p63 Immunohistochemical Stain as First Line Marker in Differentiating Urothelial Carcinomas from Adenocarcinomas of Prostate. DOI:10.18410/jebmh/2021/48
- Tiwari, Dr. Atul, Dr. Ashish Kr. Gupta and Dr.Munni Yadav. Malaria Associated Pseudoeosinophilia Determined in Automated Hematology Analyzer Sysmex XN-1000. DOI:10.36347/sjams.2019.v07i12.048
- Tiwari A, Yadav ML. Melanotic neuroectodermal tumor of infancy: a rare case report. Cureus. 2019 Dec 31;11(12). DOI:10.7759/cureus.6521
- Tiwari A, Singh BM, Varshney S, Yadav ML. Incidental detection of carcinoma in-situ in fibroadenoma of the breast in a young woman: a rare Finding. Cureus. 2018 Dec 31;10(12). DOI:10.7759/cureus.3797

## Work History

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Nov-2022 -  
Current

### **Assistant Professor (Pathology)**

*Department of Pathology, Government Medical College, Chittorgarh*

- Working as an acting in-charge of Department of Pathology
- Developing Central Lab as per the norms of NMC for Medical College
- Teaching M.B.B.S. students, took graded assignments and proctored exams.
- Applied innovative teaching methods to encourage student learning objectives.

#### **Key Achievement:**

- Helped in developing the entire department for new medical college as per NMC guidelines.
- Reviewed peripheral blood smears and bone marrow aspirates of multiple leukemia and hemoglobinopathies cases

Jan-2022 –  
Nov-2022

### **Assistant Professor (Pathology)**

*Department of Pathology, RVRS Government Medical College, Bhilwara*

- Worked in Blood Bank as Medical Officer.
- Reported Hematopathology cases and did

advanced work up of the selected cases in the Central Lab.

- Reported Cytopathology and Histopathology cases.
- Teaching M.B.B.S. students, took graded assignments and proctored exams.
- Applied innovative teaching methods to encourage student learning objectives.
- Created materials and exercises to illustrate application of course concepts.

**Key Achievement:**

- Organized multiple blood donation camps successfully.
- Diagnosed multiple leukemia cases and provided work up for hematological malignancy and hemolytic anemia patients.

**Aug-2020 –  
Jan-2022**

**Assistant Professor (Pathology)**

*Department of Pathology, RNT Medical College & Hospital, Udaipur*

- Worked as the only Flow cytometrist in the medical college.
- Diagnosed multiple critical and rare hematology diseases.
- Taught students of various medical and paramedical streams (M.B.B.S., B.D.S., B.Sc., M.Sc., M.L.T.).
- Worked as internal as well as external examiner.
- Taught hematology and flow cytometry to junior residents (post-graduate students) on-duty

**Key Achievement:**

- Diagnosed multiple leukemia cases on bone marrow aspirate and flow cytometry.
- Worked up on Hemolytic Anemia cases specifically hemoglobinopathies.

**Jul-2020 –  
Aug-2021**

**Senior Resident (Pathology)**

*Department of Pathology, SMS Medical College & Hospital, Jaipur*

- Worked in the Advanced Hematology Lab and diagnosed multiple hematological disorders.
- Worked and helped setting up state of art

Pathology Lab in State Cancer Institute, Jaipur

**Dec-2011 –  
Jul-2020**

## **Medical Officer**

*Department of Medical, Health & Family Welfare,  
Jaipur*

- Served as Medical Officer in multiple villages and districts of Rajasthan.
- Treated sick patients.
- Organized multiple health camps in the villages and schools.
- Successfully conducted various National Health Programs

## **Education**

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**Feb-2022 –  
May-2023**

### **Diploma in Artificial Intelligence (EPGMLAI): Artificial Intelligence**

*International Institute of Information Technology -  
Bangalore*

**May-2021 –  
Jul-2022**

### **Diploma in Bioinformatics (DIB): Bioinformatics**

*JSS Academy of Higher Education & Research -  
Mysuru, Karnataka*

**Jun-2018 –  
Jun-2020**

### **M.D.: Pathology**

*Mahatma Gandhi Medical College & Hospital - Jaipur,  
Rajasthan*

**Jun-2016 –  
Jun-2018**

### **D.C.P. (Diploma in Clinical Pathology): Pathology**

*Kasturba Medical College - Manipal, Udupi, Karnataka*

**May-2010 –  
May-2011**

### **D.H.A. (Diploma in Hospital Administration)**

*Medvarsity & Apollo Hospital - New Delhi*

**Aug-2005 –  
Apr-2011**

### **M.B.B.S.**

*Mahatma Gandhi Medical College & Pathology -  
Jaipur, Rajasthan*

## **Accomplishments**

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- First runner-up in E-poster presentation in Indo-Global Summit on Oncopathology

- Poster presentations in The Cyotmetry Society and Hematology Conferences

## Certifications

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<b>Aug-2022</b>	Quality Management System and Internal Audit in Medical Laboratories as per ISO 15189:2012
<b>Sep-2021</b>	Certificate in Flow Cytometry
<b>Dec-2019</b>	Clinical Nephropathology Certificate Program

## Additional Information

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- Artificial Intelligence & Machine Learning Researcher
- Take online classes and webinars for the training of AI in Healthcare
- Expert in No Code Machine Learning Tools such as - Orange, Weka, Google Vertex AI, Microsoft Azure Machine Learning Designer/Studio, Data Robot AI, Obviously AI & Big ML
- Key researcher for AI in Diagnostics and Drug-Discovery
- Also skilled in Computer Programming, Mobile App Development and Web Development
- Have expertise in - HTML, CSS PHP, Bootstrap, C, C++, dot Net, Java, Python, Kotlin, Visual Studio, Android Studio, Xamarin, Flutter etc.
- Exploring the ways to implement machine learning in the field of medical science.

## Affiliations

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- Medical Officer (Adviser) in MedPrime Technologies, Mumbai