



# DERNI Rezki

Marital status: Married

Number of children 02

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ALGERIA

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Ljubljana, Slovenia

## Objective

My goal is to leverage my extensive experience in biochemical and analytical chemistry, along with my expertise in cytopathology, immunology, and pharmacy, to develop innovative solutions. I aim to enhance early cancer detection and improve healthcare services through my skills in laboratory management and scientific research. I am committed to applying advanced technologies for early disease prevention, with a focus on making a positive impact on public health and the environment. I hold numerous innovations across various fields, some of which have already been successfully implemented, demonstrating my ability to turn ideas into practical solutions. Additionally, I seek to foster international collaboration and utilize my multilingual abilities to build effective professional relationships

## Experience

### DERNI Rezki

Biologist in public health

2012 - TO THIS DAY

I am an applied biologist specializing in public health, with expertise in applied biochemistry and cytopathology, focusing on early cancer detection. I have extensive experience in managing medical, immunological, and anatomical pathology laboratories and leading scientific and innovative projects. Fluent in four languages, I excel in international communication and collaboration. I hold multiple registered innovations, including projects on human plasma use, and am eager to implement more. Additionally, I hold certifications in car driving and maritime vessel operation, with practical experience, further enhancing my diverse professional skill set. My career combines innovation, leadership, and a broad range of technical expertise.

### oral communication

Research, innovation, and professional work

2024 - 2025

Oral Communication – Hospital, Faculty of Medicine, and Research

Laboratory of Tlemcen

I delivered an oral communication at the Hospital and the Faculty of Medicine in Tlemcen, within the Research Laboratory of Biomedical and Immunological Sciences. The presentation focused on advancing diagnostic approaches and innovative biomedical applications, with particular emphasis on improving laboratory performance, strengthening analytical reliability, and integrating research outcomes into clinical practice. This communication contributed to enhancing scientific exchange among clinicians, researchers, and laboratory specialists, and supported ongoing efforts to promote innovation, quality, and interdisciplinary collaboration in the medical and research environment of Tlemcen.

## **World Hospital Congress Geneva, Switzerland**

Certificate of Achievement

NOVEMBER 2025

During the World Hospitals Congress in Geneva 2025, I presented a research work entitled “USE OF STABLE AND STANDARDIZED HUMAN PLASMA AS A REFERENCE FOR MEDICAL ANALYSIS.” This study focuses on developing stable and standardized human plasma that can serve as a reliable reference material in medical laboratory testing, particularly in coagulation assays and high-precision analytical procedures. The innovation aims to improve the accuracy and reproducibility of laboratory results, reduce inter-laboratory variability, and enhance quality assurance in clinical diagnostics. This contribution was recognized with a Certificate of Achievement with Excellence, highlighting its scientific value and its potential impact on improving laboratory performance and fostering innovation in medical analysis.

## **Management and leadership of organizations and associations**

A position specializing in innovation and improving healthcare services.

2019 - TO THIS DAY

I have served as a key leader in the Hope Association for Diabetes, contributing significantly to remarkable outcomes in community development and charitable work. I have also been actively involved in independent public communication and awareness campaigns in the field of health biology, including appearances on television and radio to highlight important health and research issues. In addition, I have worked as a specialist in research and innovation within the Algerian Civil Society Observatory, affiliated with the National Federation of Higher Education and Scientific Research, contributing to the development of scientific initiatives and community health services. I regularly participate in blood donation campaigns and actively engage in coordinating between hospitals and charitable associations to enhance

community support and improve access to health services. Currently, I am a member of the National Civil Society Organization, where I continue to work in areas including community and health service initiatives, volunteering and innovative projects, and improving the quality of health and social services. My diverse experiences reflect my commitment to advancing community and health work and bridging scientific research with practical initiatives that serve society both nationally and internationally.

## Education

**ABOU BEKR BELKAID University** 2011

Postgraduate studies - **Biochemistry**

**University Hospital of Tlemcen** 2013-2022

Professional Training Certificate -

-Pathophysiology and prevention of uterine cancer.

-Breast cancer prevention.

-immunohistochemistry.

**Hunting and laboratory private sector** 2015-2019

Professional Certificate -

-Proper use of medical analysis and pharmaceutical procedures

**Technical Training School in Marine Fisheries and Aquaculture Ghazaouet.**

2022

Professional Certificate -

-Marine Engine Chief

**ABOU BEKR BELKAID University** 2024

Master 2 - **Applied Chemistry**

**ABOU BEKR BELKAID UNIVERSITY** 2024

patent certificate -

**ABOU BEKR BELKAID UNIVERSITY** 2024

**East Carolina University USA**

International Certificate -

-Participation in scientific research and innovation

**East Carolina University, USA/ESAN University, Peru/State University of Applied Sciences, Poland/Université Aboubekr Belkad Tlemcen, Algeria**

10.2024

participating in an English language International Virtual Exchange course promoting peace and understanding amongst the collaborating institutions -

get driving type: -

-driving license for a type B car since 2012

-driving license for motorcycles , type A since 2024

## **ABOU BEKR BELKAID UNIVERSITY**

Linguistic containment -

-Arabic Language Level Mother Tongue

-French language level B2

-English language level B2

-German language level B2

## **National Blood Agency of Algeria**

Specialized training - **September 2025: I received my Tokin certificate in serology and blood transfusion methods.**

## **University of Liechtenstein**

Formation in management - **Professional training 2023**

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## **Skills**

### **1. Scientific and Research Specialization:**

Cancer cell expert, focusing on cervical and breast cancer prevention.

Specialized in applied biochemistry and public health biology, with extensive training in cancer cytology and tumor diagnosis.

### **2. Diverse Professional Background:**

Professional experience spans pharmacy, pathological anatomy labs, medical analysis, and immunology labs, offering a broad understanding of healthcare and scientific research.

### **3. Innovation and Development:**

Holds multiple scientific contributions and patents, including projects on human plasma applications.

Active in advancing scientific progress through a record of achievements in innovation.

### **4. Training and Mentorship:**

Skilled in training, coaching, and mentoring students, providing critical guidance across educational levels.

## 5. Leadership and Community Engagement:

Leads charitable organizations and plays a key role in the leadership of the National Federation of Higher Education and Scientific Research.

Active in the Supreme Council for Youth, organizing major conferences like the Bechar conference on climate change and the Tipaza conference on entrepreneurship

## 6. Academic Collaboration with Global Universities and Institutes:

Engaging with renowned international universities such as University of Liechtenstein and University of Edinburgh through digital platforms like Zoom.

contributing to knowledge and experience exchange on an international level.

Obtaining several specialized certificates from the Arab Planning Institute, including:

- Development Planning in Arab Countries.
- Best International Practices in Digital Transformation.
- Economic Platforms and Their Role in Foreign Trade.
- The Role of Economic Modeling in International Planning

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## Projects

### **Biological cooperation and integration with artificial intelligence**

I am working on an innovative research project that integrates human plasma, biochemistry, and artificial intelligence. The project focuses on advancing our understanding of cancer and other chronic diseases at the cellular and molecular levels, aiming to improve diagnostic accuracy and develop innovative therapeutic strategies. By leveraging plasma as both a reference in medical analyses and a potential tool in immunological applications, combined with cutting-edge technologies and AI-driven data analysis, this research seeks to accelerate discovery processes and contribute to personalized medicine, while enhancing healthcare services and outcomes.

### **PhD project**

The joint PhD project between the University of Abou Bekr Belkaid Tlemcen and the University of Ljubljana in Slovenia aims to explore the potential of human plasma in innovative approaches for cancer and immunological disease diagnosis and therapy. The research integrates applied biochemistry, cellular biology, and artificial intelligence to

establish plasma as a reference in medical analyses and to develop therapeutic strategies based on its components. By leveraging AI for the analysis of biochemical and molecular data, the project seeks to improve diagnostic accuracy, accelerate scientific discoveries, and support personalized medicine. This collaboration aspires to enhance healthcare services and patient outcomes while fostering sustainable scientific cooperation between the two institutions.

### **Human Plasma and Artificial Intelligence: New Horizons in Early Diagnosis and Innovative Cancer Therapy.**

My participation in the World Health Assembly in Geneva provided an opportunity to present an innovative research project that integrates human plasma, applied biochemistry, and artificial intelligence. The project aims to develop accurate tools for the early diagnosis of cancer and immunological diseases, while exploring novel therapeutic strategies based on plasma components. By leveraging AI to analyze cellular and molecular data, the research seeks to accelerate scientific discoveries and advance personalized medicine solutions. This approach aligns with the World Health Organization's vision to improve healthcare services, enhance patient quality of life, and foster international collaboration in medical and technological innovation.