



## Liviu Sorin ENACHE

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**Address:** Tirgu Mures, Romania (Home)

### WORK EXPERIENCE

01/04/2022 – CURRENT Romania

**TECHNICAL EVALUATOR, ISO 15189** RENAR - ROMANIAN NATIONAL ACCREDITATION BODY

21/01/2020 – 31/03/2022 Romania

**TECHNICAL EXPERT, ISO 15189** RENAR - ROMANIAN NATIONAL ACCREDITATION BODY

11/2018 – CURRENT Tirgu Mures, Romania

**LECTURER** UNIVERSITY "DIMITRIE CANTEMIR", TIRGU MURES

*Departments of Biochemistry and Microbiology, Faculty of Dental Medicine.*

11/2016 – CURRENT Tirgu Mures, Romania

**SENIOR SPECIALIST IN LABORATORY MEDICINE** EMERGENCY CLINICAL HOSPITAL TIRGU MURES

**ASSISTANT LECTURER** UNIVERSITY OF MEDICINE AND PHARMACY TIRGU MURES

*- Dept. of Clinical Biochemistry/ Laboratory Medicine (perioade: Feb - May 2009, Feb 2011 - Sep 2014)*

*- Dept. of Cell Biology (Oct 2014 - May 2017).*

05/2011 – 10/2016 Tîrgu Mureş, Romania

**SPECIALIST IN LABORATORY MEDICINE** EMERGENCY CLINICAL HOSPITAL TIRGU MURES

11/2009 – 01/2011 Lyon, France

**YOUNG RESEARCHER** INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE (INSERM)

*Group leaders: Patrice André, Vincent Lotteau.*

*Research topic: Interaction of hepatitis B and C viruses with human lipid and glucose metabolism.*

### EDUCATION AND TRAINING

01/10/2015 – 30/09/2016

**MASTER DEGREE: HEALTH SYSTEM MANAGEMENT** University of Medicine and Pharmacy Tirgu Mures, RO

**Level in EQF** EQF level 7 | **Thesis** Considerations on the implementation of a quality management system in medical laboratories

10/2008 – 09/2014

**DOCTORAL DEGREE (PHD)** Université Claude Bernard Lyon 1, FR; University of Medicine and Pharmacy Tîrgu Mureş, RO

**Final grade** Magna cum laude | **Level in EQF** EQF level 8 |

**Thesis** Chronic viral hepatitis and human lipid and carbohydrate metabolism

29/07/2013 – 09/08/2013 Iasi, Romania

**COURSE "IN SITU HYBRIDIZATION AND PCR IN PATHOLOGY MOLECULAR DIAGNOSTIC". SERIES 2, YEAR 2013** University of Medicine and Pharmacy "Grigore T. Popa"

07/2011 – 09/2011 Lyon, France

**RESEARCH INTERNSHIP** INSERM U851

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**Group leaders:** Patrice André, Vincent Lotteau.

**Topic:** development of molecular tests.

**Financing:** IFCC Professional Scientific Exchange Programme (International Federation of Clinical Chemistry and Laboratory Medicine).

11/2007 – 10/2008 Lyon, France

**CLINICAL LABORATORY TRAINING: VIROLOGY** Hôpital de la Croix Rousse

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**Topic:** Molecular diagnostic of viral infections.

11/2007 – 09/2008 Lyon, France

**CLINICAL RESEARCH COURSE: "CLINICAL RESEARCH - FROM IDEA TO PUBLICATION"** Université Claude Bernard Lyon 1

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*Original title: "Dipôme d'Université: Recherche Clinique - de l'idée à la publication"*

**Topics:**

- validation of clinical research hypotheses;

- knowledge of analysis methodology for medical diagnostic or interventional procedures;

- research project management.

06/10/2007 – 07/10/2007

**THE 7TH EFCC CONTINUOUS POSTGRADUATE COURSE IN CLINICAL CHEMISTRY** Inter-University Centre Dubrovnik

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*New Trends in Diagnosis, Monitoring and Management using Molecular Diagnosis Methods*

01/02/2005 – 31/01/2010 Tîrgu Mureş, Romania

**RESIDESHIP IN LABORATORY MEDICINE** University of Medicine and Pharmacy Tîrgu Mures

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*Clinical chemistry, hematology, immunology, bacteriology, virology, parasitology.*

10/1998 – 09/2004 Craiova, Romania

**FACULTY OF MEDICINE** University of Medicine and Pharmacy Craiova

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**Level in EQF** EQF level 6

● **LANGUAGE SKILLS**

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Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>FRENCH</b>	C1	C1	C1	C1	C1

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*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **HONOURS AND AWARDS**

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**Honours and awards**

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**'Best study' award**, at the 36th National Congress of Gastroenterology, Hepatology and Digestive Endoscopy, 8-11 June 2016, Cluj-Napoca, Romania, for the work: Elena L. Enache, Liviu S. Enache, Anca Sin, Ligia Bancu. Triplex high resolution melting assessment of IL28B rs12979860, ABCB11 rs2287622, and RNF7 rs16851720 polymorphisms predicts advanced fibrosis and response to treatment in chronic hepatitis C patients.

**'Eugen Mody' Prize** offered by the Romanian Association of Medical Laboratories in Tîrgu Mures, 2009.

## ● ORGANISATIONAL SKILLS

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### Organisational skills

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Development of the Molecular diagnostic laboratory of the Emergency Clinical Hospital Tirgu Mures and implementation of molecular diagnostic tests.  
Member of the Organization Committee of 9 annual national conferences with international participation of the Romanian Association of Medical Laboratories.

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

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Good communication skills gained through my teaching activity at the university and through my experience as a member of international and multidisciplinary research teams.

## ● JOB-RELATED SKILLS

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### Job-related skills

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#### Cell and molecular biology

Cell culture (liver-derived cell lines), generation of stable and inducible expression cell lines.  
Virus culture; lentiviral vectors; ability to work in biosafety level 3 laboratories.  
Amplification and detection of nucleic acids: PCR, qPCR, NASBA, TMA, genotyping (HRM, fluorescent probes); design of qPCR assays, multiplexing. Sanger sequencing.  
Pre-amplification and quantification of cell-free DNA and RNA in body fluids.  
Molecular cloning (Gateway, digestion-ligation); directed mutagenesis. Bacterial transformation.  
RNA interference, design of si/shRNA.  
Expression of recombinant proteins; study of protein-protein interactions; enzymatic activity tests.  
Protein electrophoresis. Western Blot. Chemiluminescence. ELISA. Immunofluorescence.  
Spectral confocal microscopy; subcellular co-localization.

**Quality management** skills gained through my experience in ISO15189 accredited laboratories. **Routine laboratory diagnostic** tests in biochemistry, immunology, hematology. Identification and antibiotic sensitivity testing of bacteria and fungi. Molecular diagnostic in viral infections.

## ● INTERNATIONAL GRANTS

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### International grants

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#### a. Hepatitis C interaction with lipid and glucose metabolism.

Financing authority: Fondation Innovation en Infectiologie (FINOVI), 321, avenue Jean Jaurès, 69007, Lyon, France; Institut National de la Santé et de la Recherche Médicale (INSERM), Délégation Régionale Rhône-Alpes, Auvergne.  
Project ID (Ref. INSERM): project number R09128CC, allocation number: RAK09026CCA.  
Period: 2009-2011.  
Role in project: member of the research team.

#### b. "Charcot" Medical Excellence Grant Programme

Financing authority: French Ministry of Foreign Affairs (MAE); Directorate General for International Cooperation and Development (DGCID); Directorate for Scientific and University Cooperation (DCSU).  
Period: 2 Nov 2007 – 30 Oct 2008.

## ● PARTICIPATION IN MULTI-CENTER STUDIES

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### Participation in multi-center studies

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Standardization and Improvement of Generic Preanalytical Tools and Procedures for In-Vitro Diagnostic. SPIDIA-DNA Program 2nd Ring Trial, under the Seventh Framework Programme. Role: Responsible investigator.

## ● REPRESENTATIVE PUBLICATIONS

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### Representative publications

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Budin CE, Cocuz IG, **Enache LS**, Rența IA, Cazacu C, Pătrîntășu DE, et al. Neutrophil-to-Lymphocyte and Platelet-to-Lymphocyte Ratio: Side by Side with Molecular Mutations in Patients with Non-Small Cell Lung Cancer—The INOLUNG Study. *Cancers*. 2024 Jan;16(16):2903. (IF2023: 4.5)

Lazar AE, Gurzu S, Kovacs A, Perian M, Cordos B, Gherghinescu MC, **Enache LS**. Cardio Protective Effects of Lipid Emulsion against Ropivacaine-Induced Local Anesthetic Systemic Toxicity—An Experimental Study. *Journal of Clinical Medicine*. 2022 Jan;11(10):2784. (IF2021: 4.964)

Budin CE, Maieran AD, Bordea IR, Cocuz IG, **Enache LS**, Enache EL, et al. Multivariate Analysis of the Predicted Probability of Smoking Behavior of Foster Care Minors: Results of a Study from Romania. *International Journal of Environmental Research and Public Health*. 2022 Jan;19(3):1173. (IF2021: 4.614)

Enache EL, Sin A, **Enache LS**, Bancu L. Triplex High-Resolution Melting Assay for the Simultaneous Assessment of IFNL3 rs12979860, ABCB11 rs2287622, and RNF7 rs16851720 Genotypes in Chronic Hepatitis C Patients. *The Journal of Molecular Diagnostics*. 2017 Nov 1;19(6):857–69 (IF2016: 4.526; corresponding author)

Enache EL, Sin A, Bancu L, Ramière C, Diaz O, André P, **Enache LS**. Duplex High-Resolution Melting Assay for the Simultaneous Genotyping of IL28B rs12979860 and PNPLA3 rs738409 Polymorphisms in Chronic Hepatitis C Patients. *International Journal of Molecular Sciences*. 2015 Sep 14;16(9):22223–42.(IF2015: 3.257)

Ramière C, Rodriguez J, **Enache LS**, Lotteau V, André P, Diaz O. Activity of Hexokinase Is Increased by Its Interaction with Hepatitis C Virus Protein NS5A. *J Virol*. 2014 Mar 15;88(6):3246–54. (IF2014: 4.439)

**Enache LS**, Enache EL, Ramière C, Diaz O, Bancu L, Sin A, et al. Circulating RNA Molecules as Biomarkers in Liver Disease. *International Journal of Molecular Sciences*. 2014 Sep 30;15(10):17644–66.(IF2014: 2.862)

Curtil C, **Enache LS**, Radreau P, Dron A-G, Scholtès C, Deloire A, et al. The metabolic sensors FXR $\alpha$ , PGC-1 $\alpha$ , and SIRT1 cooperatively regulate hepatitis B virus transcription. *FASEB J*. 2013 Dec 2;27(13):2363–72. (IF2013: 5.480)

André P, **Enache LS**, Ramière C, Scholtes C, Lotteau V. Triacylglycerol biosynthesis: another cellular lipid pathway essential to HCV replication. *Future Virology*. 2011 Feb;6(2):179–82. (IF2011: 1.210)