Curriculum Vitae 2025

Bahbouhi Bouchaib PhD in Immuology-Virology
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**Multidisciplinary researcher with a first specialization in immunology-virology.
Doctorate defended in 2001 at Université paul Sabatier, Toulouse, France.**

Professional career from past to present (1991 – 2025)

IA. International Research in Immunology and Virology

1991 Highest Diploma from Hassan II University, Casablanca, Master's degree in general biology, immunology option. *Obtained with distinction*.
1994-1995 First postgraduate diploma in virology, Université Philippe Maupas, Tours, France and Université Caddi Ayyad, Marrackech. *Ranked first in the entire promotion*.
1992-1995 Trainee in molecular biology and epidemiology techniques applied to hepatitis B, C and E viruses; Institut Pasteur, Casablanca, Morocco. *First international publications*.
1997- 2001 PhD in immunology and virology, Université Paul Sabatier, Toulouse, France. Doctorate focused on the human acquired immunodeficiency virus (HIV). *Obtained with distinction and honours from the examining board.*
2002-2004 Postdoctoral fellowship at Rush University and Rush Medical Center, Illinois, Chicago.
2005-2006 Postdoctoral fellowship at University of San diego (UCSD), La Jolla, Calfornia.
2007-2010 Postdoctoral fellowship at Inserm, Nantes, France.
2011 Postdoctoral fellowship at University of Louisiana, Shreveport, Louisiana.

IB. International Publications in peer-reviewed Journals

1)- Frequency of circulating autoreactive T cells committed to myelin determinants in relapsing- remitting multiple sclerosis patients. Elong Ngono A, Pettré S, Salou M, **Bahbouhi B**, Soulillou JP, Brouard S, Laplaud DA.Clin Immunol. 2012 Aug;144(2):117-26. doi: 10.1016/j.clim.2012.05.009. Epub 2012 Jun 15.PMID: 22717772 Review.

2)- T cell recognition of self-antigen presenting cells by protein transfer assay reveals a high frequency of anti-myelin T cells in multiple sclerosis. **Bahbouhi B**, Pettré S, Berthelot L, Garcia A, Elong Ngono A, Degauque N, Michel L, Wiertlewski S, Lefrère F, Meyniel C, Delcroix C, Brouard S, Laplaud DA, Soulillou JP.Brain. 2010 Jun;133(Pt 6):1622-36. doi: 10.1093/brain/awq074. Epub 2010 Apr 30.PMID: 20435630

3)- Peripheral blood CD4+ T lymphocytes from multiple sclerosis patients are characterized by higher PSGL-1 expression and transmigration capacity across a human blood-brain barrier-derived endothelial cell line. **Bahbouhi B**, Berthelot L, Pettré S, Michel L, Wiertlewski S, Weksler B, Romero IA, Miller F, Couraud PO, Brouard S, Laplaud DA, Soulillou JP.J Leukoc Biol. 2009 Nov;86(5):1049-63. doi: 10.1189/jlb.1008666. Epub 2009 Aug 20.PMID: 19696154

4)- The connexin turnover, an important modulating factor of the level of cell-to-cell junctional communication: comparison with other integral membrane proteins. Hervé JC, Derangeon M, **Bahbouhi B**, Mesnil M, Sarrouilhe D.J Membr Biol. 2007 Jun;217(1-3):21-33. doi: 10.1007/s00232-007-9054-8. Epub 2007 Aug 1.PMID: 17673963 Review.

5)- HIV infection of primary CD4+ Th2 cells, defined by expression of the chemoattractant receptor-homologous (CRTH2), induces a Th0 phenotype. **Bahbouhi B**, Landay A, Tenorio A, Al-Harthi L.AIDS Res Hum Retroviruses. 2007 Feb;23(2):269-77. doi: 10.1089/aid.2006.0151.PMID: 17331033

6)- Dynamics of cytokine expression in HIV productively infected primary CD4+ T cells.
Bahbouhi B, Landay A, Al-Harthi L.Blood. 2004 Jun 15;103(12):4581-7. doi: 10.1182/blood-2003-12-4172. Epub 2004 Feb 5.PMID: 14764521

7)- Enriching for HIV-infected cells using anti-gp41 antibodies indirectly conjugated to magnetic microbeads.
Bahbouhi B, al-Harthi L.Biotechniques. 2004 Jan;36(1):139-47. doi: 10.2144/04361RR05.PMID: 14740496

8)- Effects of L- and D-REKR amino acid-containing peptides on HIV and SIV envelope glycoprotein precursor maturation and HIV and SIV replication. **Bahbouhi B**, Chazal N, Seidah NG, Chiva C, Kogan M, Albericio F, Giralt E, Bahraoui E.Biochem J. 2002 Sep 15;366(Pt 3):863-72. doi: 10.1042/BJ20020052.PMID: 12071862

9)- Inhibition of HIV-2(ROD) replication in a lymphoblastoid cell line by the alpha1-antitrypsin Portland variant (alpha1-PDX) and the decRVKRcmk peptide: comparison with HIV-1(LAI). **Bahbouhi B**, Bendjennat M, Chiva C, Kogan M, Albericio F, Giralt E, Seidah NG, Bahraoui E.Microbes Infect. 2001 Nov;3(13):1073-84. doi: 10.1016/s1286-4579(01)01467-8.PMID: 11709287

10)- Replication of HIV-1 viruses in the presence of the Portland alpha1-antitrypsin variant (alpha1-PDX) inhibitor.
Bahbouhi B, Seidah NG, Bahraoui E.Biochem J. 2001 Nov 15;360(Pt 1):127-34. doi: 10.1042/0264-6021:3600127.PMID: 11695999

11)- Purification and characterization of a Ca2+-independent endoprotease activity from peripheral blood lymphocytes: involvement in HIV-1 gp160 maturation. Bendjennat M, **Bahbouhi B**, Bahraoui E.Biochemistry. 2001 Apr 17;40(15):4800-10. doi: 10.1021/bi0018739.PMID: 11294648

12)- Effect of alpha-1 antitrypsin Portland variant (alpha 1-PDX) on HIV-1 replication.
Bahbouhi B, Bendjennat M, Guétard D, Seidah NG, Bahraoui E.Biochem J. 2000 Nov 15;352 Pt 1(Pt 1):91-8.PMID: 11062061

13)- Seroepidemiological study of an acute hepatitis E outbreak in Morocco.
Benjelloun S, **Bahbouhi B**, Bouchrit N, Cherkaoui L, Hda N, Mahjour J, Benslimane A.Res Virol. 1997 Jul-Aug;148(4):279-87. doi: 10.1016/s0923-2516(97)88365-3.PMID: 9272579

14)- Anti-HCV seroprevalence and risk factors of hepatitis C virus infection in Moroccan population groups. Benjelloun S, **Bahbouhi B**, Sekkat S, Bennani A, Hda N, Benslimane A.Res Virol. 1996 Jul-Aug;147(4):247-55. doi: 10.1016/0923-2516(96)89656-7.PMID: 8837233

II. Teachning

2011 – 2024 (5 years of discontinuous salaried activity) Part-time teacher of undergradutae students in public and private schools, Nantes, France. Trainer in adult education centers.
Subjects taught : life sciences, mathematics and physics-chemistry.

III. Literary creativity and writing of books recognized and published by publishers in France. *Note that all these books are not self-published, but are recognized and edited by well-established publishing houses.*

2018 - 2024
1. A scientific book on immunology. Published by Harmattan, 2023. France.
2. A literary book and autobiographical story. Published by Spinelle, 2018. France.
3. A thriller novel. Published by Maia, 2021. France.
4. A collection of short stories. Published by Prem'Edit, 2020. France.
5. A collection of short stories. Published by Book envol, 2024. France.
6. A novel. A collection of short stories. Published by Lys Bleu, 2018. France.

2024-2025

1. Research Article
Bahbouhi., B. (2025). Two Theorems To Verify Goldbach's Strong Conjecture ; or To Refute it By an Uninterrupted Sequence of Composite Odd Numbers In The Interval [n - 2n]. J Math Techniques Comput Math, 4(2), 01-12.

2. Research Article
New Methods Based on the Calculation of Specific Decimal Fractions for Decomposing an Integer into a Product of Prime Factors. Journal of Automation and Robotics Research.
Bouchaib Bahbouhi
 DOI 10.33140/JRAR.05.03.03

3. Research Article
Demonstrating Goldbach's Strong Conjecture by Deduction using $4x \pm 1$ Equations in Loops and Gaps of 4
Bahbouhi Bouchaib. Journal of Automation and Robotics Research.
 DOI 10.33140/JRAR.06.01.06

4. Short Communication
How to Pose the Mathematical Problem of the Goldbach's Strong Conjecture? A New Idea for a New Solution
Bahbouhi Bouchaib. Journal of Automation and Robotics Research.
DOI10.33140/JRAR.06.01.05

5. Research Article
New Mathematical Rules and Methods for the Strong Conjecture of Goldbach to be Verified
Bouchaib Bahbouhi. Journal of Automation and Robotics Research.
 DOI 10.33140/JRAR.06.01.04

6. Research Article
Verification of Goldbach's Strong and Weak Conjectures at Infinity Using Basic and Accessible Mathematics
Bouchaib Bahbouhi. Journal of Automation and Robotics Research.
DOI 10.33140/JRAR.06.01.02

7. Research Article
Natural Equidistant Primes (NEEP) and Cryptographic Coding of the Goldbach's Strong Conjecture
Bahbouhi Bouchaib. Journal of Current Trends in Computer Science Research.
DOI 10.33140/JCTCSR.04.01.04

8. Research Article
Proving Goldbach's Strong Conjecture by Analyzing Gaps Between Prime Numbers and their Digits
Bouchaib Bahbouhi. Journal of Mathematical Techniques and Computational Research.
DO10.33140/JMTCM.04.01.04

9. Research Article
A New Method for Testing Whether a Number Is Prime
 Bouchaib Bahbouhi. Journal of Mathematics Research.
DOI:10.5539/jmr.v16n3p28