

Curriculum vitae du Dr Ali SI-MOHAMMED

ETAT CIVIL

61 ans, 3 enfants

Adresse : 8, rue des Jardins 21000 Dijon

Tél : 06 84 26 23 08

Mails: aruth001@yahoo.fr

ali.si-mohammed@chu-dijon.fr

ali.si-mohammed@u-bourgogne.fr

Adresse professionnelle : UF 6117 - VIROLOGIE
Microbiologie - PBHU – CHU Dijon
2, rue Angélique DUCOUDRAY
21000 Dijon
tél : 03 80 29 56 98
fax : 03 80 29 32 80

FORMATION & TITRES

1987 Doctorat de Pharmacie, Université d'Alger
1990 Diplôme de Virologie Médicale, Institut Pasteur de Paris
1992 Diplômes d'Etudes Approfondies de Biologie & Santé, Montpellier
1997 Diplôme Inter-universitaire de Spécialité en Biologie Médicale, Caen
2000 Doctorat ès Sciences en Microbiologie, option Ecologie Microbienne, Pathogénie des Microorganismes, Agents Anti-infectieux, Paris XI
2002 Concours national de praticien hospitalier bactériologie-virologie-hygiène
2018 DU Séquençage Haut Débit, Université de Bourgogne

DIRECTION DE LABORATOIRES HOSPITALIERS

1994-2000 : Co Responsable du laboratoire de virologie de Broussais, AP-HP, Paris 14^{ème}
2000-2014 : Co Responsable du laboratoire de virologie de l'HEGP, AP-HP, Paris 15^{ème}
2022-2024 : Responsable UF6117 Séquençage Viral par NGS et Sanger, CHU Dijon

COLLABORATIONS INTERNATIONALES

2003-2005 : Diagnostic virologique des infections par les Papillomavirus humains
Pr Heather Cubie Edinburgh Medical School Infection Medicine

2010-2024 : Accompagnement des Biologistes du Sud pour l'optimisation du diagnostic virologique pour la prise en charge des PVVIH.

GROUPES DE TRAVAIL ET DOMAINES D'EXPERTISE

1998-2020 : Groupe de Virologie Médicale (AC-11 / AC-43 de l'ANRS)
- Etude de la résistance du VIH aux ARV
- Mise en place des nouvelles technologies de NGS

2000-2014 : Coordination du groupe de travail pour la prévention et prise en charge des AES

2005-2014 : Référent qualité pour l'accréditation des laboratoires – Norme ISO 15189

2012-2017 : Pilotage du processus Hygiène et Sécurité pour la prévention des risques chimiques et infectieux au laboratoire

PROTOCOLES DE RECHERCHE CLINIQUE

Investigateur & Responsable des analyses virologiques

2000 : ANRS

Compartmentalisation génétique de la production cervicovaginale en VIH

2003 : DRC-APHP (PHRC)

Néphrite interstitielle à virus BK chez le transplanté rénal : l'Unité de Virologie de l'HEGP est devenue le laboratoire référent auprès des services de transplantation rénale en Ile-de-France pour le diagnostic des infections par le virus BK

2006 : SIDACTION

Caractérisation des infections par HPV dans les lésions anales chez les patients infectés par le VIH

2015 : DRCI-Conseil Régional de Bourgogne

Apport du séquençage à haut débit pour la recherche des variants résistants archivés dans le compartiment ADN

PUBLICATIONS INTERNATIONALES

Kubik S, Marques AC, Xing X, Silvery J, Bertelli C, De Maio F, Pournaras S, Burr T, Duffourd Y, Siemens H, Alloui C, Song L, Wenger Y, Saitta A, Macheret M, Smith EW, Menu P, Brayer M, Steinmetz LM, **Si-Mohammed A**, Chuisseu J, Stevens R, Constantoulakis P, Sali M, Greub G, Tiemann C, Pelechano V, Willig A, Xu Z. Recommendations for accurate genotyping of SARS-CoV-2 using amplicon-based sequencing of clinical samples. Clin Microbiol Infect. 2021;27:1036.e1-1036.e8.

Wirten M, De Oliveira F, Bouvier-Alias M, Lambert-Niclot S, Chaix ML, Raymond S, **Si-Mohammed A**, Alloui C, André-Garnier E, Bellecave P, Malve B, Mirand A, Pallier C, Poveda JD, Rabenja T, Schneider V, Signori-Schmuck A, Stefic K, Calvez V, Descamps D, Plantier JC, Marcelin AG, Visseaux B, On Behalf Of The French National Agency For Research On Aids And Viral Hepatitis Anrs Ac Study Group. New HIV-1 circulating recombinant form 94: from phylogenetic detection of a large transmission cluster to prevention in the age of geosocial-networking apps in France, 2013 to 2017. Euro Surveill. 2019.

Maitre T, Muret P, Blot M, Waldner A, Duong M, **Si-Mohammed A**, Chavanet P, Aho S, Piroth L. Benefits and Limits of Antiretroviral Drug Monitoring in Routine Practice. Curr HIV Res. 2019;17:190-197.

Togarsimalemath SK, **Si-Mohammed A**, Puraswani M, Gupta A, Vabret A, Liguori S, Mariani-Kurkdjian P, Bagga A, Dragon-Durey MA. Gastrointestinal pathogens in anti-FH antibody positive and negative Hemolytic Uremic Syndrome. Pediatr Res. 2018;84:118-124.

Raymond S, Nicot F, Pallier C, Bellecave P, Maillard A, Trabaud MA, Morand-Joubert L, Rodallec A, Amiel C, Mourez T, Bocket L, Beby-Defaux A, Bouvier-Alias M, Lambert-Niclot S, Charpentier C, Malve B, Mirand A, Dina J, Le Guillou-Guillemette H, Marque-Juillet S, Signori-Schmuck A, Barin F, **Si-Mohamed A**, Avettand Fenoel V, Roussel C, Calvez V, Saune K, Marcelin AG, Rodriguez C, Descamps D, Izopet J; French National Agency for Research on AIDS and Viral Hepatitis (ANRS) AC11 Resistance Study Group. Impact of Human Immunodeficiency Virus Type 1 Minority Variants on the Virus Response to a Rilpivirine-Based First-line Regimen. Clin Infect Dis. 2018;66:1588-1594

Arana R, Fléjou JF, **Si-Mohamed A**, Bauer P, Etienney I. Clinicopathological and virological characteristics of superficially invasive squamous-cell carcinoma of the anus. Colorectal Dis. 2015;17:965-72.

Badoual C, Hans S, Merillon N, Van Ryswick C, Ravel P, Benhamouda N, Levionnois E, Nizard M, **Si-Mohamed A**, Besnier N, Gey A, Rotem-Yehudar R, Pere H, Tran T, Guerin CL, Chauvat A, Dransart E, Alanio C, Albert S, Barry B, Sandoval F, Quintin-Colonna F, Bruneval P, Fridman WH, Lemoine FM, Oudard S, Johannes L, Olive D, Brasnu D, Tartour E. PD-1-expressing tumor-infiltrating T cells are a favorable prognostic biomarker in HPV-associated head and neck cancer. Cancer Res. 2013;73:128-38

Piketty C, Cochand-Priollet B, Lanoy E, **Si-Mohamed A**, Trabelsi S, Tubiana R, Girard PM, Weiss L, Costagliola D; Valparaiso Study Group. Lack of regression of anal squamous intraepithelial lesions despite immune restoration under cART. AIDS. 2013;27:401-6.

Marcelin AG, Delaugerre C, Beaudoux C, Descamps D, Morand-Joubert L, Amiel C, Schneider V, Ferre V, Izopet J, **Si-Mohamed A**, Maillard A, Henquell C, Desbois D, Lazrek M, Signori-Schmuck A, Rogez S, Yerly S, Traubad MA, Plantier JC, Fourati S, Houssaini A, Masquelier B, Calvez V, Flandre P; ANRS AC11 Resistance Group. A cohort study of treatment-experienced HIV-1-infected patients treated with raltegravir: factors associated with virological response and mutations selected at failure. *Int J Antimicrob Agents*. 2013;42:42-7.

Si-Mohamed A, Badoual C, Hans S, Péré H, Tartour E, Brasnu D. An unusual human papillomavirus type 82 detection in laryngeal squamous cell carcinoma: case report and review of literature. *J Clin Virol*. 2012;54:190-3.

Etienne I, Vuong S, **Si-Mohamed A**, Fléjou JF, Atienza P, Bauer P; Cytological Diaconesses Group. Value of cytologic Papanicolaou smears and polymerase chain reaction screening for human papillomavirus DNA in detecting anal intraepithelial neoplasia: comparison with histology of a surgical sample. *Cancer*. 2012;118:6031-8.

Charpentier C, Piketty C, Laureillard D, Tisserand P, **Si-Mohamed A**, Weiss L, Bélec L. Dynamics of HIV-1 DNA level in highly antiretroviral-experienced patients receiving raltegravir-based therapy. *Eur J Clin Microbiol Infect Dis*. 2012;31:129-33.

Charpentier C, Koyalta D, Ndinaromtan M, Tchobkréo B, Jenabian MA, Day N, **Si-Mohamed A**, Weiss H, Bélec L. Distribution of HIV-1 and HSV-2 epidemics in Chad revealing HSV-2 hot-spot in regions of high-risk HIV spread. *J Infect Dev Ctries*. 2011;5:64-7.

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Charpentier C, Talla F, Nguépi E, **Si-Mohamed A**, Bélec L. Virological failure and HIV type 1 drug resistance profiles among patients followed-up in private sector, Douala, Cameroon. *AIDS Res Hum Retroviruses*. 2011;27:221-30.

Si-Mohammed A. Role of viral oncoproteins E6 and E7 in the expression of p16 (INK4a). *Ann Pathol*. 2010 Nov;30(5 Suppl 1):103-4.

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Legoff J, Kara R, Moulin F, **Si-Mohamed A**, Krivine A, Bélec L, Lebon P. Evaluation of the one-step multiplex real-time reverse transcription-PCR ProFlu-1 assay for detection of influenza A and influenza B viruses and respiratory syncytial viruses in children. *J Clin Microbiol*. 2008 ;46:789-91.

LeGoff J, Saussereau E, Boulanger MC, Chemin C, **Si-Mohamed A**, Bélec L, Maisonneuve L. Unexpected high prevalence of herpes simplex virus (HSV) type 2 seropositivity and HSV genital shedding in pregnant women living in an East Paris suburban area. *Int J STD AIDS*. 2007 ;18:593-5.

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Si-Mohamed A, Piketty C, Tisserand P, LeGoff J, Weiss L, Charpentier C, Kazatchkine MD, Bélec L. Increased polymorphism in the HR-1 gp41 env gene encoding the enfuvirtide (T-20) target in HIV-1 variants harboring multiple antiretroviral drug resistance mutations in the pol gene. *J Acquir Immune Defic Syndr*. 2007 Jan 1;44(1):1-5.

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Legoff J, Bouhlal H, Grésenguet G, Weiss H, Khonde N, Hocini H, Désiré N, **Si-Mohamed A**, de Dieu Longo J, Chemin C, Frost E, Pépin J, Malkin JE, Mayaud P, Bélec L. Real-time PCR quantification of genital shedding of herpes simplex virus (HSV) and human immunodeficiency virus (HIV) in women coinfecting with HSV and HIV. *J Clin Microbiol*. 2006;44:423-32.

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Si-Mohamed A, Goff JL, Désiré N, Maylin S, Glotz D, Bélec L. Detection and quantitation of BK virus DNA by real-time polymerase chain reaction in the LT-ag gene in adult renal transplant recipients. *J Virol Methods*. 2006;131:21-7.

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Mbopi-Kéou FX, Legoff J, Grésenguet G, **Si-Mohamed A**, Matta M, Mayaud P, Andréoletti L, Malkin JE, Weiss H, Brown D, Bélec L. Genital shedding of herpes simplex virus-2 DNA and HIV-1 RNA and proviral DNA in HIV-1- and herpes simplex virus-2-coinfecting African women. *J Acquir Immune Defic Syndr*. 2003;33:121-4.

Ndjoyi-Mbiguino A, Ozouaki F, Legoff J, Mbopi-Kéou FX, **Si-Mohamed A**, Onas IN, Avoune E, Bélec L. Comparison of washing and swabbing procedures for collecting genital fluids to assess cervicovaginal shedding of herpes simplex virus type 2 DNA. *J Clin Microbiol*. 2003;41:2662-4.

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Andréoletti L, Grésenguet G, Chomont N, Matta M, Quiniou Y, **Si-Mohamed A**, Bélec L. Comparison of washing and swabbing procedures for collecting genital fluids to assess shedding of human immunodeficiency virus type 1 (HIV-1) RNA in asymptomatic HIV-1-infected women. *J Clin Microbiol*. 2003;4:449-52.

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Andréoletti L, Weiss L, **Si-Mohamed A**, Piketty C, Prazuck T, Calamy G, Malkin JE, Matta M, Mbopi-Kéou FX, Clavel F, Kazatchkine MD, Bélec L. Multidrug-resistant HIV-1 RNA and proviral DNA variants harboring new dipeptide insertions in the reverse transcriptase pol gene. *J Acquir Immune Defic Syndr*. 2002;29:102-4.

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Andreoletti L, Lescieux A, Lambert V, **Si-Mohamed A**, Matta M, Wattré P, Bélec L. Semiquantitative detection of JCV-DNA in peripheral blood leukocytes from HIV-1-infected patients with or without progressive multifocal leukoencephalopathy. **J Med Virol**. 2002;66:1-7.

Si-Mohamed A, Andreoletti L, Colombet I, Carreno MP, Lopez G, Chatelier G, Kazatchkine MD, Belec L. Quantitation of human immunodeficiency virus type 1 (HIV-1) RNA in cell-free cervicovaginal secretions: comparison of reverse transcription-PCR amplification (AMPLICOR HIV-A MONITOR 1.5) with enhanced-sensitivity branched-DNA assay (Quantiplex 3.0). **J Clin Microbiol**. 2001;39:2055-9.

Chomont N, Grésenguet G, Hocini H, Becquart P, Matta M, Andreoletti L, **Si-Mohamed A**, Carreno MP, Kazatchkine M, Bélec L. Polymerase chain reaction for Y chromosome to detect semen in cervicovaginal fluid: a prerequisite to assess HIV-specific vaginal immunity and HIV genital shedding. **AIDS**. 2001;15:801-2.

Bélec L, Tevi-Benissan C, Bianchi A, Cotigny S, Beumont-Mauviel M, **Si-Mohamed A**, Malkin JE. In vitro inactivation of Chlamydia trachomatis and of a panel of DNA (HSV-2, CMV, adenovirus, BK virus) and RNA (RSV, enterovirus) viruses by the spermicide benzalkonium chloride. **J Antimicrob Chemother**. 2000;46:685-93.

Karmochkine M, **Si Mohamed A**, Piketty C, Ginsburg C, Raguin G, Schneider-Fauveau V, Gutmann L, Kazatchkine MD, Belec L. The cumulative occurrence of resistance mutations in the HIV-1 protease gene is associated with failure of salvage therapy with ritonavir and saquinavir in protease inhibitor-experienced patients. **Antiviral Res**. 2000;47:179-88.

Si-Mohamed A, Kazatchkine MD, Heard I, Goujon C, Prazuck T, Aymard G, Cessot G, Kuo YH, Bernard MC, Diquet B, Malkin JE, Gutmann L, Bélec L. Selection of drug-resistant variants in the female genital tract of human immunodeficiency virus type 1-infected women receiving antiretroviral therapy. **J Infect Dis**. 2000;182:112-22.

Bélec L, Piketty C, **Si-Mohamed A**, Goujon C, Hallouin MC, Cotigny S, Weiss L, Kazatchkine MD. High levels of drug-resistant human immunodeficiency virus variants in patients exhibiting increasing CD4+ T cell counts despite virologic failure of protease inhibitor-containing antiretroviral combination therapy. **J Infect Dis**. 2000;181:1808-12.

Piketty C, Race E, Castiel P, Belec L, Peytavin G, **Si-Mohamed A**, Gonzalez-Canali G, Weiss L, Clavel F, Kazatchkine MD. Phenotypic resistance to protease inhibitors in patients who fail on highly active antiretroviral therapy predicts the outcome at 48 weeks of a five-drug combination including ritonavir, saquinavir and efavirenz. **AIDS**. 2000;14:626-8.

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Cancre N, Grésenguet G, Mbopi-Kéou FX, Kozemaka A, **Si Mohamed A**, Matta M, Fournel JJ, Bélec L. Hepatitis C virus RNA viremia in Central Africa. **Emerg Infect Dis**. 1999;5:484-5.

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Dr Ali SI-MOHAMMED
LABORATOIRE DE VIROLOGIE
CHU - Plateau Technique de Biologie
2, Rue Angélique Ducoudray
BP 37013
21070 DUON CEDEX
Tel. 03.80.29.56.98 - Fax 03.80.29.32.80

