

CURRICULUM DIDATTICO-SCIENTIFICO DELLA PROF.SSA VALENTINA SVICHER

DATI PERSONALI

Nome e Cognome: Valentina Svicher

Luogo e data di nascita: Roma, 2 Marzo 1977

ATTUALE POSIZIONE: Professore Associato

Dipartimento: Medicina Sperimentale e Chirurgia

Indirizzo: Via Montpellier 1

Numero studio: 06 72596564

E-mail: valentina.svicher@uniroma2.it

Orario ricevimento: su appuntamento

Settore scientifico-disciplinare: Microbiologia e Microbiologia Clinica MED/07



ATTIVITA' DIDATTICA - SCIENTIFICA

Titoli accademici e di studio:

2001: **Laurea con lode** in Scienze Biologiche presso l'Università degli Studi di Roma "La Sapienza"

2006: **PhD** in Microbiologia ed Immunologia Medica, presso l'Università di Roma "Tor Vergata".

2012-2017: **Ricercatore Universitario** confermato, l'Università "Tor Vergata" SSD MED/07.

2017-oggi: **Professore Associato confermato**, Università "Tor Vergata" SSD MED/07.

2017: **Conseguimento dell'Abilitazione Scientifica Nazionale** al ruolo di Professore di I fascia per il settore scientifico disciplinare 06/A3 (MED/07).

Attività Didattica

2017-oggi: Coordinatore del corso di Microbiologia e Virologia Molecolare per il Corso di Laurea in Biotecnologie Mediche presso l'Università degli Studi di Roma "Tor Vergata".

2013-oggi: **Docente del corso di Microbiologia Generale (General Microbiology)**, CL in Lingua Inglese, Medicine and Surgery presso l'Università degli Studi di Roma "Tor Vergata".

2017-oggi: Docente del corso di Microbiologia Generale per il Corso di Laurea in Medicina e Chirurgia presso l'Università degli Studi di Roma "Tor Vergata".

2017-oggi: Docente del corso di Microbiologia per il Corso di Laurea in Tecniche della Fisiopatologia Cardiocircolatoria e Perfusionazione Vascolare presso l'Università degli Studi di Roma "Tor Vergata".

2012-oggi: **Docente di Microbiologia Generale** per il corso di laurea in Tecniche di Laboratorio Biomedico presso l'Università degli Studi di Roma "Tor Vergata".

2012-2015: **Docente di Microbiologia Generale**, CL Dietistica, Università di Roma "Tor Vergata".

2011-oggi: **Professore a contratto del corso di Microbiologia Clinica e Virologia** presso l'Università degli Studi di L'Aquila, Facoltà di Scienze MM.FF.NN.

2007-2011: **Professore a contratto del corso di Microbiologia e Microbiologia Clinica** presso l'Università degli Studi di L'Aquila, Facoltà di Scienze MM.FF.NN.

Principali progetti in ambito virologico in cui ha svolto attività di coordinamento e gestione delle attività scientifiche

2018-2019: **Principal Investigator** del progetto "DIRECT - Definition of regulatory non-coding RNA Expression Profiling in Hepatitis B and C Virus-Induced Hepatocellular Tumors" Codice Unico di Progetto (CUP): E81118000380005, finanziato nell'ambito del Bando "Mission: Sustainability".

2013-2015: **Principal Investigator** del progetto "From Functional Cure to Reactivation of HBV Infection: Identification and Functional Characterization of Genetic Elements in HBV Genome Correlated with reactivation in the setting of Immunosuppression" nell'ambito del programma di ricerca "Partnering for Cure research project"

2012-2017: **Coordinatore del WP1** “Applicazione di metodiche di full length sequencing per la definizione di marcatori genetici virali predittivi di persistenza e oncogenesi” nell’ambito del progetto “Applicazioni Omics nel settore Virologico” del Progetto di Ricerca Bandiera InterOmics PB05 1° “Sviluppo di una piattaforma integrata per l’applicazione delle scienze “omiche” alla definizione dei biomarcatori e profili diagnostici, predittivi, e teranostici”, finanziato dal MIUR

2009-2014: **Deputy** del Workpackage 7 nell’ambito del Progetto di Ricerca Europeo CHAIN, the “Collaborative HIV and Anti-HIV Drug Resistance Network”, Integrated Project no. 223131 funded for 5 years by the European Commission Framework 7 Program.

Ha ricevuto 17 premi per pubblicazioni scientifiche e presentazioni a congressi, tra cui:

Premio Scientifico “GB Rossi”: ricercatore italiano distintosi nel campo della ricerca sull’AIDS per il miglior lavoro pubblicato dal 01/07/08 al 30/06/09 (V. Svicher et al., *Antimicrob Agents Chemother.* 53:2816-23, 2009).

Premio Scientifico “Readfiles”: ricercatore italiano distintosi nel campo della ricerca sull’AIDS per il miglior lavoro pubblicato dal 1 luglio 2007 al 30 giugno 2008 (V. Svicher et al., *J Infect Dis.* 15:1408-1418, 2008).

Premio Scientifico “Infection Lab 2016”: miglior progetto scientifico presentato nell’ambito della competizione (presenter del progetto di ricerca e ultimo autore della relativa pubblicazione [Salpini et al., *Oncotarget* 2017]).

Premio per la migliore presentazione orale al congresso *3rd European HIV Drug Resistance Workshop*, Athens, Greece, March 30 – April 1, 2005 (**presentatrice della comunicazione orale**, V. Svicher et al, 2005).

Attività di ricerca: 15 pubblicazioni selezionate

E’ autrice di 90 pubblicate su riviste "peer reviewed" e oltre 250 presentazioni a congressi sotto forma di abstracts pubblicati in proceedings o su riviste "peer reviewed" citate su PubMed.

1. **Svicher V**,, Sarmati L; Impact Study Group. Novelty in Evaluation and Monitoring of Human Immunodeficiency Virus-1 Infection: Is Standard Virological Suppression Enough for Measuring Antiretroviral Treatment Success? *AIDS Rev.* 2017
2. Salpini R, ... et al. (**Svicher V last author**). Novel HBsAg mutations correlate with hepatocellular carcinoma, hamper HBsAg secretion and promote cell proliferation in vitro. *Oncotarget.* 2017
3. Aragri M, et al. **Svicher V last author**. Multiple Hepatitis B Virus (HBV) Quasispecies and Immune-Escape Mutations Are Present in HBV Surface Antigen and Reverse Transcriptase of Patients With Acute Hepatitis B. *J Infect Dis.* 2016
4. Hermans LE, **Svicher V** (joint first authorship),et al. Combined Analysis of the Prevalence of Drug-Resistant Hepatitis B Virus in Antiviral Therapy-Experienced Patients in Europe (CAPRE). *J Infect Dis.* 2016
5. Alteri C, ..., **Svicher V last author**. Incomplete APOBEC3G/F Neutralization by HIV-1 Vif Mutants Facilitates the Genetic Evolution from CCR5 to CXCR4 Usage. *Antimicrob Agents Chemother.* 2015
6. Salpini R,, **Svicher V (last author)**. Hepatitis B surface antigen genetic elements critical for immune escape correlate with hepatitis B virus reactivation upon immunosuppression. *Hepatology.* 2015
7. Pollicita M, Surdo M, Di Santo F, **Svicher V (last author)**. Comparative replication capacity of raltegravir-resistant strains and antiviral activity of the new-generation integrase inhibitor dolutegravir in human primary macrophages and lymphocytes. *J Antimicrob Chemother.* 2014
8. **Svicher V**,, et al. The genotypic false positive rate determined by V3 population sequencing can predict the burden of HIV-1 CXCR4-using species detected by pyrosequencing. *PLoS One.* 2013
9. **Svicher V**, Cento V, Bernassola M, et. Novel HBsAg markers tightly correlate with occult HBV infection and strongly affect HBsAg detection. *Antiviral Res.* 2012
10. **Svicher V**, Alteri C, Artese A, et al. Identification and structural characterization of novel genetic elements in the HIV-1 V3 loop regulating coreceptor usage. *Antivir Ther.* 2011
11. **Svicher V**,, Ceccherini-Silberstein F, Perno CF. HIV-1 dual/mixed tropic isolates show different genetic and phenotypic characteristics and response to maraviroc in vitro. *Antiviral Res.* 2011
12. **Svicher V**, Alteri C, D’Arrigo R, et al. Treatment with the fusion inhibitor enfuvirtide influences the appearance of mutations in the human immunodeficiency virus type 1 regulatory protein rev. *Antimicrob Agents Chemother.* 2009
13. **Svicher V**, Gori C, Trignetti M, et al. The profile of mutational clusters associated with lamivudine resistance can be constrained by HBV genotypes. *J Hepatol.* 2009
14. **Svicher V**, Aquaro S, D’Arrigo R, et al. Specific enfuvirtide-associated mutational pathways in HIV-1 Gp41 are significantly correlated with an increase in CD4(+) cell count, despite virological failure. *J Infect Dis.* 2008
15. **Svicher V**, Sing T, Santoro MM, et al. Involvement of novel human immunodeficiency virus type 1 reverse transcriptase mutations in the regulation of resistance to nucleoside inhibitors. *J Virol.* 2006.



Università degli Studi di Roma "Tor Vergata"

ACADEMIC AND SCIENTIFIC CURRICULUM OF PROF. VALENTINA SVICHER

PERSONAL DATA

Name and Surname: Valentina Svicher

Place and date of birth: Rome, 2 March 1977



CURRENT POSITION: Associate Professor of Microbiology and Clinical Microbiology

Department: Experimental Medicine and Surgery. Address: Via Montpellier 1

Phone number: 06 72596564

E-mail: valentina.svicher@uniroma2.it

Reception time: by appointment

Scientific and disciplinary sector: MED/07

SCIENTIFIC AND DIDACTIC ACTIVITY

Academic and study titles:

2001: Laurea cum laude in Biological Sciences at the University of Rome "La Sapienza"

2006: PhD in Microbiology and Medical Immunology, at the University of Rome "Tor Vergata". 2012-

2017: University Researcher at the University of Rome "Tor Vergata", SSD: MED/07.

2017-present: Associate Professor at the University of Rome "Tor Vergata" SSD: MED/07.

2017: Achievement of National Scientific Ability as Professor in the scientific sector 06/A3 (Med / 07).

Teaching activity

2017-today: Coordinator of the course of Microbiology and Molecular Virology for the Degree Course in Medical Biotechnology at the University of Rome "Tor Vergata".

2013-present: Professor of General Microbiology (General Microbiology) for the Degree Course in English Language of Medicine and Surgery at the University of Rome "Tor Vergata".

2017-today: Professor of the General Microbiology course Degree in Medicine and Surgery at the University of Rome "Tor Vergata".

2017-today: Professor of the course of Microbiology for the Degree Course in Cardiocirculatory and Cardiocirculatory Perfusion Techniques at the University of Rome "Tor Vergata".

2012-present: Professor of General Microbiology for the degree course in Biomedical Laboratory Techniques at the University of Rome "Tor Vergata".

2012-2015: Professor of General Microbiology for the degree course in Dietetics, University "Tor Vergata".

2011-present: Contract professor of the course of Clinical Microbiology and Virology at the University of L'Aquila, Faculty of Sciences MM.FF.NN.

2007-2011: Adjunct Professor of the course of Microbiology and Clinical Microbiology at the University of L'Aquila, Faculty of Sciences MM.FF.NN.

Main projects in the virological field in which he carried out activities of coordination and management of scientific activities

2018-2019: Principal Investigator of the project "DIRECT - Definition of regulatory non-coding RNA Expression Profiling in Hepatitis B and C Virus-Induced Hepatocellular Tumors" Unique Project Code (CUP): E81I18000380005, funded under the "Mission: Sustainability".

2013-2015: Principal Investigator of the project "From Functional Cure to Reactivation of HBV Infection: Identification and Functional Characterization of Genetic Elements in HBV Genome Correlated with reactivation in the setting of Immunosuppression" as part of the research program "Partnering for Cure research project"

2012-2017: Coordinator of WP1 "Application of full length sequencing methods for the definition of viral genetic markers predictive of persistence and oncogenesis" within the project "Omics Applications in Virology" of the InterOmics PB05 Flag Research Project 1 ° " Development of an integrated platform for the application of the "omics" sciences to the definition of biomarkers and diagnostic, predictive and teranostic profiles ", funded by the Ministry of University and Research. 2009-2014: Workpackage Deputy 7 under the CHAIN European Research Project, the "Collaborative HIV and Anti-HIV Drug Resistance Network", Integrated Project no. 223131 funded for 5 years by the European Commission Framework 7 Program.

She has received 17 awards for scientific publications and congress presentations, including:

"GB Rossi" Scientific Prize as distinguished Italian researcher in the field of AIDS research for the best work published from 1 July 2008 to 30 June 2009 (V. Svicher et al., *Antimicrob Agents Chemother.* 53: 2816-23, 2009).

"Readfiles" Scientific Award as distinguished Italian researcher in the field of AIDS research for the best work published from 1 July 2007 to 30 June 2008 (V. Svicher et al., *J Infect Dis.* 15: 1408-1418, 2008).

Scientific Award "Infection Lab 2016" for the best scientific project presented in the competition (presenter of the research project and last author of the related publication [Salpini et al., *Oncotarget* 2017]).

Award for the best oral presentation at the 3rd European HIV Drug Resistance Workshop, Athens, Greece, March 30 - April 1, 2005 (oral communication presenter, V. Svicher et al, 2005).

Research activity: 15 selected publications

She is author of 90 articles published in peer reviewed journals and over 250 presentations at congresses in the form of abstracts published in proceedings or in peer reviewed journals cited on PubMed.

1. Svicher V,, Sarmati L; Impact Study Group. Novelties in Evaluation and Monitoring of Human Immunodeficiency Virus-1 Infection: Is Standard Virological Suppression Enough for Measuring Antiretroviral Treatment Success? *AIDS Rev.* 2017
2. Salpini R, ... et al. (**Svicher V last author**). Novel HBsAg mutations correlate with hepatocellular carcinoma, hamper HBsAg secretion and promote cell proliferation in vitro. *Oncotarget.* 2017
3. Aragri M, et al. **Svicher V last author**. Multiple Hepatitis B Virus (HBV) Quasispecies and Immune-Escape Mutations Are Present in HBV Surface Antigen and Reverse Transcriptase of Patients With Acute Hepatitis B. *J Infect Dis.* 2016
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5. Alteri C, ..., **Svicher V last author**. Incomplete APOBEC3G/F Neutralization by HIV-1 Vif Mutants Facilitates the Genetic Evolution from CCR5 to CXCR4 Usage. *Antimicrob Agents Chemother.* 2015
6. Salpini R,, **Svicher V (last author)**. Hepatitis B surface antigen genetic elements critical for immune escape correlate with hepatitis B virus reactivation upon immunosuppression. *Hepatology.* 2015
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8. **Svicher V**,, et al. The genotypic false positive rate determined by V3 population sequencing can predict the burden of HIV-1 CXCR4-using species detected by pyrosequencing. *PLoS One.* 2013
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11. **Svicher V**,, Ceccherini-Silberstein F, Perno CF. HIV-1 dual/mixed tropic isolates show different genetic and phenotypic characteristics and response to maraviroc in vitro. *Antiviral Res.* 2011
12. **Svicher V**, Alteri C, D'Arrigo R, et al. Treatment with the fusion inhibitor enfuvirtide influences the appearance of mutations in the human immunodeficiency virus type 1 regulatory protein rev. *Antimicrob Agents Chemother.* 2009
13. **Svicher V**, Gori C, Trignetti M, et al. The profile of mutational clusters associated with lamivudine resistance can be constrained by HBV genotypes. *J Hepatol.* 2009
14. **Svicher V**, Aquaro S, D'Arrigo R, et al. Specific enfuvirtide-associated mutational pathways in HIV-1 Gp41 are significantly correlated with an increase in CD4(+) cell count, despite virological failure. *J Infect Dis.* 2008
15. **Svicher V**, Sing T, Santoro MM, et al. Involvement of novel human immunodeficiency virus type 1 reverse transcriptase mutations in the regulation of resistance to nucleoside inhibitors. *J Virol.* 2006.