



## Claudia Piu

E-mail:

Sesso: Femminile Data di nascita: 04/02/1986 Nazionalità: Italiana

### ESPERIENZA LAVORATI- VA

[ 26/03/2020 – 31/05/2023 ]

#### **Dirigente Biologo**

**AOU Sassari**

**Città:** Sassari

**Paese:** Italia

Dirigente Biologo (Disciplina MICROBIOLOGIA E VIROLOGIA) presso AOU Sassari,  
STRUTTURA

COMPLESSA DI MICROBIOLOGIA E VIROLOGIA (indirizzo Viale San Pietro,35 Padiglione  
Malattie Infettive)- dipendente con  
contratto CO.CO.CO per l'emergenza sanitaria COVID-19

[ 05/2014 – 02/2020 ]

#### **Borsista di ricerca**

**Università degli studi di Sassari, Dipartimento di Scienze Biomediche**

**Città:** Sassari

**Paese:** Italia

### ISTRUZIONE E FORMA- ZIONE

[ 28/10/2022 ]

#### **Specializzazione in Microbiologia e Virologia**

**Università degli studi di Sassari**

**Indirizzo:** 07100, Sassari, Italia

**Voto finale:** 50/50 e lode

**Tesi:** Valutazione di un "host-signature test" a supporto della validazione di esami clinico  
microbiologici nelle infezioni respiratorie in età pediatrica

[ 11/2013 ]

#### **Esame di stato per l'abilitazione alla professione di Biologo**

**Università degli studi di Sassari**

**Indirizzo:** 07100, Sassari, Italia

[ 24/07/2013 ]

#### **Laurea Magistrale in Biologia Sperimentale Applicata**

**Università degli studi di Sassari**

**Indirizzo:** 07100, Sassari, Italia

**Voto finale:** 110/110 e lode

**Tesi:** Espressione del retrovirus endogeno HERV-W/MSRV in corso di Mononucleosi  
Infettiva: possibili implicazioni per l'eziopatogenesi della Sclerosi Multipla

[ 21/07/2010 ]

#### **Laurea triennale in Scienze Biologiche**

**Università degli studi di Sassari**

**Indirizzo:** 07100, Sassari, Italia

**Voto finale:** 106/110

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**Tesi:** Sviluppo di un nuovo sistema microfluidico-amperometrico per lo studio della secrezione di dopamina in cellule PC12

*Claudio Fu*

**PUBBLICAZIONI**

[2015]

**The aliens inside human DNA: HERV-W/MSRV/syncytin-1 endogenous retroviruses and neurodegeneration. The Journal in Developing Countries.**

[2016]

**JC polyomavirus expression and bell-shaped regulation of its SF2/ASF suppressor during the follow-up of multiple sclerosis patients treated with natalizumab. Journal of Neurovirology.**

[2017]

**The EGF epidermal growth factor counteracts Tat modulation of human endogenous retroviruses of the W family in astrocytes. Journal of Neurovirology**

[2018]

**Disruption by SaCas9 Endonuclease of HERV-Kenv, a Retroviral Gene with Oncogenic and Neuropathogenic Potential, Inhibits Molecules Involved in Cancer and Amyotrophic Lateral Sclerosis. Viruses.**

[2019]

**Expression of HERV Genes as Possible Biomarker and Target in Neurodegenerative Diseases. International Journal of Molecular Sciences.**

[2019]

**Early reduction of the splicing factor2/alternative splicing factor: a cellular inhibitor of the JC polyomavirus in natalizumab-treated MS patients long before developing progressive multifocal leukoencephalopathy. Journal of Neurovirology.**

[2019]

**MicroRNA-425-5p Expression Affects BRAF/RAS/MAPK Pathways In Colorectal Cancers. International Journal of Medical Sciences.**

[2019]

**Multiple Signatures of the JC Polyomavirus in Paired Normal and Altered Colorectal Mucosa Indicate a Link with Human Colorectal Cancer, but Not with Cancer Progression. International Journal of Molecular Sciences.**

[2020]

**Landscape of transcriptome variations uncovering known and novel driver events in colorectal carcinoma. Scientific Reports.**

[2021]

**Multifactorial origin of weight gain in a person living with HIV receiving cART: a case report. JHA.**

[2021]

**"Swab Team" in the SARS-CoV-2 outbreak containment among healthcare workers. The Journal in Developing Countries.**

[2022]

**Emerging Clinical Features of COVID-19 Related Pancreatitis: Case Reports and Review of the Literature. Frontiers in Medicine.**

[2022]

**Genomic Snapshot of SARS-CoV-2 in Migrants Entering Through Mediterranean Sea Routes. Frontiers in Medicine.**

*Claudio Piu*

**ABSTRACT**  
[ 2014 ]

**The human endogenous retroviruses of the W family , MSRV and Syncytin-1, are activated by the JC polyomavirus**

12th National Congress of the Italian society of Virology, Orvieto (TR).

[ 2014 ]

**The expression of MSRV and ERVWE1 endogenous retroviruses of the W family is regulated by HIV and Tat: inference for neuroAIDS.**

12th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2014 ]

**The regulation of expression of HERV-W MSRV and Syncytin by Tat differs according to cell differentiation and is mediated by TNF-alpha**

12th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2015 ]

**Basal expression and modulation of human endogenous retroviruses (HERV-W) in microgravity.**

13th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2015 ] **Survey on the codon usage optimization by the John Cunningham virus.**

13th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2015 ]

**Effects of HIV p17 variants on the expression of HERV-W/MSRV in monocytes-macrophages and astrocytes.**

13th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2015 ]

**Follow up of multiple sclerosis therapies of JCV positive or negative patients: study of the negative regulator SF2/ASF in PBMCs**

13th National Congress of the Italian society of Virology, Orvieto (TR)

[ 2018 ]

**Presence and expression of genes and proteins of the JC polyomavirus in paired colorectal cancer and adenomatous polyps, and possibility of a hit-and-run mechanism.**

Congresso nazionale SIV-ISV, Roma (RO)

[ 2018 ]

**MS patients under Natalizumab therapy undergo a drop of SF2/ASF, cellular inhibitor of the JCV polyomavirus, before the onset of Progressive Multifocal Leukoencephalopathy**

Congresso nazionale SIV-ISV, Roma (RO)

[ 2018 ]

**In vitro CRISPR/CAS9 gene-editing of HERV-Kenv, a potentially neuropathogenic and oncogenic retroviral gene, inhibits molecules involved in amyotrophic lateral sclerosis and cancer**

Congresso nazionale SIV-ISV, Roma (RO)

*Claudia Piu*

[ 2018 ]

**Disruption of the HERV-Kenv gene by SaCas9/gRNAs, and mechanisms involved in amyotrophic lateral sclerosis and cancer**

Joint Meeting of the International-Society-for-NeuroVirology (ISNV) and the Society-on-NeuroImmune-Pharmacology (SNIP), Chicago

[ 2017 ]

**The epidermal growth factor interferes with HIV-Tat-mediated modulation of human endogenous retroviruses of the W family in astroglial cells.**

Congresso nazionale SIV-ISV, Milano (MI)

[ 2017 ]

**Role of the SF2/ASF proto-oncogene, inhibitor of JCV polyomavirus, in the origin of colorectal cancer and JCV detection**

Congresso nazionale SIV-ISV, Milano (MI)

[ 2017 ] **Circolazione dei virus influenzali nella regione Sardegna dal 2009 al 2017.**

Congresso nazionale SIV-ISV, Milano (MI)

#### **PARTECIPAZIONE A CONGRESSI**

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[ 22/10/2022 ] **IV Congresso Regionale SIMIT Sardegna**

[ 15/10/2021 – 16/10/2021 ] **III Congresso Regionale SIMIT Sardegna**

[ 10/11/2021 – 11/11/2021 ]

**XXIV Congresso regionale multidisciplinare di medicina di laboratorio -  
convegno virtual live -**

[ 22/09/2014 – 24/09/2014 ] **12th NATIONAL CONGRESS OF THE ITALIAN SOCIETY FOR VIROLOGY**

[ 14/09/2015 – 16/09/2015 ] **13th NATIONAL CONGRESS OF THE ITALIAN SOCIETY FOR VIROLOGY**

[ 25/06/2017 – 28/06/2017 ]

**ONE VIROLOGY ONE HEALTH. Il mondo dei virus umani, animali e  
ambientali**

#### **PARTECIPAZIONE A CORSI DI FORMAZIONE**

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[ 13/12/2021 ] **Formazione generale per lavoratori**

[ 26/11/2021 ]

**Nuove frontiere nella diagnostica microbiologica: opportunità e limiti del  
sequenziamento**

[ 04/11/2021 ] **Il ruolo del laboratorio nella pandemia da Sars-COV-2**

[ 23/10/2021 ]

**Infezioni da COVID-19: varianti, epidemiologia, terapie, vaccini e misure di  
contenimento**

[ 14/12/2020 – 15/12/2020 ] **Corso di formazione specifica - rischio alto per lavoratori**

[ 30/07/2019 – 20/12/2019 ] **Proteggere dall'influenza con la vaccinazione II edizione**

#### **COMPETENZE LINGUI- STICHE**

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**Lingua madre: italiano**

*Claudia Aru*

**Altre lingue:**

**inglese**

**ASCOLTO B1 LETTURA B1 SCRITTURA B1**

**PRODUZIONE ORALE A2 INTERAZIONE ORALE B1**

**COMPETENZE DIGITALI**

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | Gestione autonoma della posta e-mail | Windows | Google | Utilizzo del browser | Android | Posta elettronica | Microsoft Office | Gmail | Whatsapp | Social Network | GoogleChrome | Gestione PDF | InternetExplorer | Buona padronanza del pc dei software ad esso correlati e del pacchetto Office | Skype | Instagram | office | Editing foto e video | Google Drive | Mozilla Firefox | Elaborazione delle informazioni | Ottima conoscenza della Suite Office (Word Excel Power Point) | Social

*Claudia Pro*