

Curriculum Vitae

Enrico Palermo, PhD

ENRICO PALERMO

Senior Researcher

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ACADEMIC APPOINTMENTS

2021–present

Tenured Researcher

Institut Pasteur in Italy – Fondazione Cenci Bolognetti, Rome, Italy

2019–2021

Postdoctoral Fellow

Institut Pasteur in Italy – Fondazione Cenci Bolognetti, Rome, Italy

2018

PhD in Life Sciences

Sapienza University of Rome, Italy

2015

MSc in Medical Biotechnologies

Sapienza University of Rome, Italy

RESEARCH FUNDINGS

Institut Pasteur Italia Under 40 Grant 2024

Period: 2025–2027

Funding institution: Institut Pasteur in Italy – Fondazione Cenci Bolognetti

Role: Principal Investigator (PI)

Budget: €40,000

Project:

Investigating the SARS-CoV-2 PLpro-mediated inhibition of Interferon Regulatory Factor 7 (IRF-7) signaling: from molecular analysis towards potential therapeutic targets

R.I.Pr.E.I. Grant 2022 – Pilot Project

Period: 2024–2026

Funding institution: Italian National Institute of Health (ISS)

Role: Co-Investigator / Unit responsibility

Requested budget: €50,000

Granted budget: €50,000

Project:

In-depth molecular analysis of Interferon Regulatory Factors IRF-7 and IRF-1 as potential host therapeutic targets against SARS-CoV-2-mediated innate immune evasion and hyper-inflammation

SMARTS-UP Fellowship

2023

Université Paris Cité, France

Funding obtained for **MSc student L. Pereira Estrela**, supporting international research training within a Sapienza University of Rome – Université Paris Cité Double Degree program.

MENTORSHIP AND SUPERVISION

PhD

Co-Supervisor – M. Alexandridi

Marie Skłodowska-Curie Actions PhD Program
2019–2022

Co-Supervisor – E. Pereira Pimentel

Postgraduate Program in Experimental Biology
Universidade Federal de Rondônia – Fiocruz Rondônia, Brazil
Ongoing

Co-Supervisor – Aboulaye Kone

PhD Program in Biotechnology
Africa Centre of Excellence for Neglected Tropical Diseases and Forensic Biotechnology (ACENTDFB)
Ahmadu Bello University (ABU), Zaria, Nigeria
Ongoing

MSc / BSc

Supervisor – L. Pereira Estrela, MSc

Double Degree Program
Sapienza University of Rome – Université Paris Cité
2023–2024

Supervisor – F. Biancone, MSc

Medical Biotechnologies
Sapienza University of Rome
2024–2026

Supervisor – A. Perrotti, MSc

Genetics and Molecular Biology
Sapienza University of Rome
2024–ongoing

Supervisor – G. D’Oria, BSc
Biosciences and Biotechnology
Università degli Studi di Camerino
2025

INTERNATIONAL SCIENTIFIC ACTIVITIES

Institut Pasteur / Pasteur Network

Pasteur Network 40 Under 40 – 2025

Selected among the **Pasteur Network 40 Under 40** researchers, recognizing emerging scientific talent within the international Pasteur Network.

Viruses and Human Cancers – International Course

Rome, 20–23 July 2026

Institut Pasteur / Institut Pasteur Italia

Lecturer

Lecture:

“HIV reservoirs, immune dysregulation and cancer”

Participation in round table:

“HIV persistence, immunity and cancer”

The course brought together international researchers and trainees working at the interface of virology, immunology and cancer biology.

STAPA International Network Congress (SINC)

Institut Pasteur, Paris, France

28–30 October 2026

Invited Speaker

Keynote Lecture:

“The Molecular Dialogue Between Viruses and Their Hosts: Type I IFN response and viral evasion strategies”

International scientific congress dedicated to **host–pathogen interactions**, organized by the Young Researcher Association of Institut Pasteur of Paris (STAPA), in collaboration with Institut Pasteur and the Pasteur Network. The congress brings together leading scientists and early-career researchers from across the Pasteur Network and other institutions, with a focus on scientific exchange, international collaboration and career development.

PROFESSIONAL MEMBERSHIPS

- **European Society of Virology**, Ulm, Germany
- **Microbiology Society**, London, United Kingdom
- **British Society for Antimicrobial Chemotherapy (BSAC)**, Birmingham, United Kingdom

PUBLICATIONS

Tracking the phylogenetic profile of the MF-non-coding region of measles virus. Fracella M, Knijn A, **Palermo E**, Di Carlo D, Colonnelli G, Gentile M, Maddaloni L, Pierangeli A, Scagnolari C, Lo Presti A. *Frontiers in Virology*. 2026;6:1815667. doi: 10.3389/fviro.2026.1815667.

SARS-CoV-2 mRNA Vaccination Induces Neutralizing Antibodies and Type I IFN Changes in People Living With HIV. Frasca F, Maddaloni L, D'Auria A, Fracella M, Bugani G, Falvino C, Baccolini V, Migliara G, Aloisi F, Santinelli L, **Palermo E**, Bortolani L, Lazzaro A, Ceccarelli G, Turriziani O, Mastroianni CM, Antonelli G, d'Ettorre G, Scagnolari C. *J Med Virol*. 2026 Aug;98(8):e71067. doi: 10.1002/jmv.71067. PMID: 42504161; PMCID: PMC13402915.

Seroprevalence of Zika virus and dengue virus infections in migrants in Italy. Frasca F, Romani FE, Gentilini Cacciola E, Colavita F, **Palermo E**, Maddaloni L, Rosa L, D'Auria A, Baccolini V, Migliara G, Matusali G, Ceccarelli G, Antonelli G, Maggi F, d'Ettorre G, Scagnolari C. *Front Cell Infect Microbiol*. 2025 Jul 10;15:1617029. doi: 10.3389/fcimb.2025.1617029. PMID: 40708748; PMCID: PMC12287079.

Exploring the genetic diversity of the 3' untranslated region (UTR) of Dengue virus. Lo Presti A, Knijn A, **Palermo E**, D'Auria A, Quaranta M, Pascarella S, Frasca F, Scagnolari C. *Viol J*. 2025 Jun 18;22(1):197. doi: 10.1186/s12985-025-02800-z. PMID: 40533782; PMCID: PMC12178008.

The inactivation of the Niemann Pick C1 cholesterol transporter restricts SARS-CoV-2 entry into host cells by decreasing ACE2 abundance at the plasma membrane. La Rosa P, Tiberi J, **Palermo E***, Stefanelli R, Tiano SML, Canterini S, Cortese M, Hiscott J, Fiorenza MT. *Cell Biosci*. 2024 Dec 20;14(1):148. doi: 10.1186/s13578-024-01331-4

***Co-first authorship**

Virus-like particle - mediated delivery of the RIG-I agonist M8 induces a type I interferon response and protects cells against viral infection. **Palermo E***, Alexandridi M, Di Carlo D, Muscolini M, Hiscott J. *Front Cell Infect Microbiol*. 2022 Dec 14;12:1079926. doi: 10.3389/fcimb.2022.

*** Corresponding author**

Inhibition of Glycolysis Impairs Retinoic Acid-Inducible Gene I-Mediated Antiviral Responses in Primary Human Dendritic Cells. Zevini A, **Palermo E***, Di Carlo D, Alexandridi M, Rinaldo S, Paone A, Cutruzzola F, Etna MP, Coccia EM, Olagnier D, Hiscott J. *Front Cell Infect Microbiol*. 2022 Jul 18;12:910864. doi: 10.3389/fcimb.2022.910864.

***Co-first authorship, Co-corresponding author**

The Coronavirus pandemic - 2022: Viruses, variants & vaccines. Alexandridi M, Mazej J, **Palermo E**, Hiscott J. *Cytokine Growth Factor Rev*. 2022 Feb;63:1-9. doi: 10.1016/j.cytogfr.2022.02.002.

Fighting HIV-1 Persistence: At the Crossroads of "Shoc-K and B-Lock". Acchioni C, **Palermo E***, Sandini S, Acchioni M, Hiscott J, Sgarbanti M. *Pathogens*. 2021 Nov 20;10(11):1517. doi: 10.3390/pathogens10111517

***Co-first authorship**

Antiviral Potential of the Antimicrobial Drug Atovaquone against SARS-CoV-2 and Emerging Variants of Concern. Carter-Timofte ME, Arulanandam R, Kurmasheva N, Fu K, Laroche G, Taha Z, van der Horst D, Cassin L, van der Sluis RM, **Palermo E**, Di Carlo D, Jacobs D, Maznyi G, Azad T, Singaravelu R, Ren F, Hansen AL, Idorn M, Holm CK, Jakobsen MR, van Grevenynghe J, Hiscott J, Paludan SR, Bell JC, Seguin J, Sabourin LA, Côté M, Diallo JS, Alain T, Olnagier D. *ACS Infect Dis.* 2021 Nov 12;7(11):3034-3051. doi: 10.1021/acsinfecdis.1c00278.

Type I Interferons in COVID-19 Pathogenesis. **Palermo E***, Di Carlo D, Sgarbanti M, Hiscott J. *Biology (Basel).* 2021 Aug 26;10(9):829. doi: 10.3390/biology10090829.

***Co-corresponding author**

Dolutegravir-Based Regimen for Maintenance of Viral Suppression in People Living with HIV: 48-Week Results in Real-Life Setting. Di Carlo D, Falasca F, **Palermo E**, Mezzaroma I, Fimiani C, Siccardi G, Celani L, Di Campli FM, d'Ettorre G, Antonelli G, Turriziani O. *AIDS Res Hum Retroviruses.* 2021 Jun;37(6):478-485. doi: 10.1089/AID.2020.0196.

Dengue Virus Targets Nrf2 for NS2B3-Mediated Degradation Leading to Enhanced Oxidative Stress and Viral Replication. Ferrari M, Zevini A, **Palermo E**, Muscolini M, Alexandridi M, Etna MP, Coccia EM, Fernandez-Sesma A, Coyne C, Zhang DD, Marques ETA, Olnagier D, Hiscott J. *J Virol.* 2020 Nov 23;94(24):e01551-20. doi: 10.1128/JVI.01551-20.

The global impact of the coronavirus pandemic. Hiscott J, Alexandridi M, Muscolini M, Tassone E, **Palermo E**, Soultioti M, Zevini A. *Cytokine Growth Factor Rev.* 2020 Jun;53:1-9. doi: 10.1016/j.cytogfr.2020.05.010.

Activation of latent HIV-1 T cell reservoirs with a combination of innate immune and epigenetic regulators. **Palermo E**, Acchioni C, Di Carlo D, Zevini A, Muscolini M, Ferrari M, Castiello L, Virtuoso S, Borsetti A, Antonelli G, Turriziani O, Sgarbanti M, Hiscott J. *J Virol.* 2019 Aug 14. pii: JVI.01194-19. doi: 10.1128/JVI.01194-19

Alternate NF-κB independent signaling re-activation of latent HIV-1 provirus. Acchioni C, Remoli AL, Marsili G, Acchioni M, Nardolillo I, Orsatti R, Farcomeni S, **Palermo E**, Perrotti E, Barreca ML, Sabatini S, Sandini S, Parolin C, Lin R, Borsetti A, Hiscott J, Sgarbanti M. *J Virol.* 2019 Aug 28;93(18). pii: e00495-19. doi: 10.1128/JVI.00495-19

An optimized retinoic acid-inducible gene I agonist M8 induces immunogenic cell death markers in human cancer cells and dendritic cell activation. Castiello L, Zevini A, Vulpis E, Muscolini M, Ferrari M, **Palermo E**, Peruzzi G, Krapp C, Jakobsen M, Olnagier D, Zingoni A, Santoni A, Hiscott J. *Cancer Imm Immunother.* 2019 Aug 28. doi: 10.1007/s00262-019-02380-2

SIRT1 modulates the sensitivity of prostate cancer cells to VSV oncolysis. Muscolini M, Castiello L, **Palermo E**, Zevini A, Ferrari M, Olnagier D, Hiscott J. *J Virol.* 2019 Jul 17;93(15). pii: e00626-19. doi: 10.1128/JVI.00626-19.

Dengue Virus Immunopathogenesis: Lessons Applicable to the Emergence of Zika Virus. Olnagier D, Amatore D, Castiello L, Ferrari M, **Palermo E**, Diamond MS, Palamara AT, Hiscott J. *Journal of molecular biology*, 2016, vol. 428, no. 17, pp. 3429-3448, 2016