
James R. Hunter

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São Paulo, Brazil

Professional Summary

Experienced biomedical researcher and bioinformatics specialist with a Ph.D. in Virology and over a decade of applied expertise in infectious disease research, retrovirology, and statistical genomics. Proven leadership as Chief Technology Officer and postdoctoral fellow in internationally recognized programs. Extensive publication record in peer-reviewed journals and strong command of computational biology tools, statistical modeling, and data integration.

Key Skills

- **Bioinformatics Tools:** Bioconductor, Galaxy, BLAST, NCBI, Geneious, UGENE
 - **Programming & Analysis:** R, Python, SQL, Bash
 - **Statistical Methods:** Predictive modeling, regression, survival analysis, PCA
 - **Research Areas:** HIV drug resistance, virological failure prediction, host-virus interaction, transcriptomics
 - **Soft Skills:** Scientific communication, cross-functional collaboration, academic mentoring
 - **Languages:** English (native), Portuguese (fluent), French (reading/writing), Spanish (intermediate), Hebrew (basic)
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Biomedical & Bioinformatics Experience

Chief Technology Officer

CorpoRx, Inc., Florida, USA — *Sep 2023 – Present*

Lead all bioinformatic and statistical analyses across company projects, integrating clinical datasets and computational pipelines for genomic insights.

Postdoctoral Fellow – Retrovirology (CURE2 Project)

Universidade Federal de São Paulo (UNIFESP) — *Oct 2021 – Present*

FAPESP-funded research on virological data analysis, focusing on modeling latent viral reservoirs and immune responses in HIV-1 patients.

Postdoctoral Fellow – Bioinformatics

UNIFESP — *Sep 2019 – Aug 2020*

Awarded by CAPES/PRINT to design and implement a bioinformatics platform for the UNIFESP medical school; collaborated across departments.

Researcher, Retrovirology Laboratory

UNIFESP — *May 2014 – Present*

Principal investigator for development of a predictive model for virological failure among HIV patients due to drug resistance; statistical consultant to fellow researchers.

Academic Experience

Affiliated Professor, Infectology Discipline, Escola Paulista de Medicina,

UNIFESP — *Mar 2020 – Present*

Courses on bioinformatics and statistical analysis in infectious disease and public health.

Professor of Business Administration

Various institutions in Brazil — *2002 – 2015*

Taught MBA courses in quantitative methods, statistics, and business modeling.

Education

Ph.D. in Infectious Diseases / Virology

Universidade Federal de São Paulo (UNIFESP), Brazil — *2019*

Doctoral thesis on HIV-1 drug resistance mutations.

M.C.P., Master of City Planning

Yale University, School of Art and Architecture — *1970*

B.A. in History of Art

Yale University — *1968*

Selected Publications

- Hunter JR, et al. *Antiretroviral Drug-Resistance Mutations on the Gag Gene*. Pathogens. 2022. doi:10.3390/pathogens11050534
- Diaz RS, Hunter JR, et al. *Dolutegravir-associated resistance mutations in Brazil*. BMC Infect Dis. 2023. doi:10.1186/s12879-023-08288-8
- Peçanha-Pietrobom PM, Hunter JR, et al. *Clinical Course of Hospitalized Moderately Ill COVID-19 Patients*. PLoS ONE 2021.
- Mantovani N, Hunter JR, et al. *Latency-Associated DNA Methylation Patterns among HIV-1 Infected Individuals*. Sci Rep. 2021.

Complete list available upon request.

Previous Consulting & Government Roles (*Selected Highlights*)

- **President & CEO**, Central City Association of Los Angeles — 1990 – 1991
- **Principal Consultant**, California State Assembly Economic Team — 1992 – 1993
- **Independent Consultant**, U.S. and Brazil — 1982 – 2018

References available upon request