VIRCAN2024 Conference: Chronic viral infections and cancer, openings for vaccines and cure

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Title: **HPV-driven mucosal carcinogenesis**.

Name: Franco Maria Buonaguro, Director Emeritus Mol Biol & Viral Oncol Unit Istituto Nazionale Tumori – IRCCS Fond Pascale, Naples, Italy

# Abstract

The burden of HPV-related cancers of the anogenital and oropharyngeal mucosa is globally 570,000 cases per year in women and 60,000 cases in men, representing 8.6% and 0.8%, respectively, of all cases of cancer occurring around the world. There are similar basic molecular mechanisms that play an important role in the etiopathogenesis of such tumors. Several cofactors, including genetic and immunological determinants, contribute to the frequency of such tumors in different populations and risk groups.

The review will focus on the molecular mechanisms involved in the progression to cancer, relevant for the correct staging of the lesion and the implementation of appropriate therapeutic strategies, including treatment de-escalation and post-operative adjuvant vaccine. In addition, the suitable indications and timing for the use of therapeutic HPV vaccines will be elaborated.

(<250 words)

# Biography

Franco M. Buonaguro, MD Past-Director Molecular-Biology and Viral-Oncology Unit, Natl

Cancer Inst (INT), Naples – ITALY; graduated cum laude in 1977 “Federico II” Medical School

Naples – Italy; board certified in Endocrinology (1982), in Microbiology-Virology (1992);

Postdoctoral fellow, Dpt Cell Biology, Argonne National Laboratory, IL,USA (1979-81); WHO Fellow and research associate, Tumor Biology Program, FHCRC, Seattle,WA,USA (1983-86), assistant member Viral Oncology, INT; promoted Associate member in 1991, full member in

2001. 2008-2022 Director Molecular Biology and Viral Oncology, AIDS Ref Center, INT. 202024 Director, GVN Italian Center; Founder and Editor-in-Chief Infectious Agents and Cancer: Publications' 260-Documents, 49-H-Index.

(Up to 100 words)

# Presenting author details

Full name: Franco Maria Buonaguro

Contact number: +39 347 444 1219

Session name: Session 3. Human papilloma virus, chronic infection & associated cancers

Category: (Invited lecture - Oral presentation -  Poster presentation)

Email: fm.buonaguro@istitutotumori.na.it