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**Università
di Genova**



OSPEDALE POLICLINICO SAN MARTINO

Sistema Sanitario Regione Liguria

Istituto di Ricovero e Cura a Carattere Scientifico

GIM34 – Rare

“Rare breast cancer subtypes: towards a better understanding of the biology to improve clinical management”

Chiara Molinelli, MD

Università degli Studi di Genova - IRCSS Ospedale Policlinico San Martino

Fundings	PNRR
Principal Investigator	Prof.ssa Lucia Del Mastro
Institutions	IRCCS Ospedale Policlinico San Martino Università di Napoli Federico II Istituto Pascale di Napoli Policlinico Agostino Gemelli

Background

Rare breast cancers have an incidence of less than 6/100,000, and they include subtypes with very different prognoses

Rare breast cancers with poor prognosis (high grade metaplastic, micropapillary, neuroendocrine and lobular pleomorphic carcinomas) account for less than 1% of all breast cancers

Due to their frequency, conducting prospective studies focused on them is extremely difficult

Due to the lack of well-defined clinical guidelines, they are treated by extrapolation from the other common cancer types and continue to have an unfavourable outcome

Study Design

- Retrospective/prospective
- Observational

Main Inclusion Criteria

- Age \geq 18 years old
- Patients diagnosed with rare breast cancer subtypes with poor prognosis, namely pleomorphic lobular carcinoma, invasive micropapillary carcinoma, high grade metaplastic carcinoma, neuroendocrine carcinoma.
- Primary tumour tissue availability
- Signed written informed consent

Objectives

- to create a **shared database** collecting both retrospective and prospective data and allowing the molecular characterization of a high number of rare breast cancer subtypes with poor prognosis
- to compare the **prognosis** of patients with these breast cancer subtypes with patients affected by ductal invasive carcinoma already included in the GIM dataset, matched for baseline clinicopathological features
- to analyse the **tumour microenvironment** through Hyperion and describe associations between single-cell biomarker expression and the clinical outcome
- to analyse the **genomic profile** through NGS technique
- to perform a **central pathology revision** of all the tissue samples through digital pathology

Proposal

- to create a **national registry** of patients diagnosed with rare breast cancer and unfavourable prognosis

- to create a national database collecting **both retrospective and prospective data** of a high number of rare breast cancer subtypes with poor prognosis

- to compare the **prognosis** of patients with these breast cancer subtypes with patients affected by ductal invasive carcinoma already included in the GIM dataset

Contatti

breast.unit@hsanmartino.it

chiara.molinelli@hsanmartino.it
