Genetic Profile and Functional Proteomics of Anal Squamous Cell Carcinoma: Proposal for a Molecular Classification

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In Brief
Anal squamous cell carcinoma is a rare tumor and the treatment standards have not suffered any improvement since 1970s. For this reason, a molecular characterization of the disease is still necessary. In this work, two molecular groups with a different protein and genetic profile were described. Additionally, some of these differences suggested biological processes that may be therapeutic targets.

Graphical Abstract
Molecular landscape of anal squamous cell carcinoma

Highlights
• Two molecular groups in anal squamous carcinoma according proteomic profile.
• Differences in possible targeted processes such as metabolism or immune response.
• Different percentage of tumor lymphocyte infiltration.
• Difference in the frequency of ATM variants, related to PPAR inhibitors.