ABSTRACT BOOK ABSTRACTS



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MUCOSAL DISEASES (ORAL, ANOGENITAL), EXTERNAL EYE DISEASE

## INTEGRATIVE ANALYSES REVEAL BIOLOGICAL-RELATED AND DRUG TARGET-ASSOCIATED GENES IN MUCOSAL MELANOMA

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Introduction: Melanoma is a tumor caused by the malignant transformation of pigmentproducing cells. An increasing number of studies have demonstrated that genetic factors play an important role in the development of this disease and have provided many avenues for explaining the pathogenesis and treatment of melanoma. Due to its rarity, the mucosal melanoma subtype is poorly described, and its genetic characteristics are infrequently studied.

Objective: As a complex human disease, mucosal melanoma pathogenesis may result from genetic factors combined with many other factors. Therefore, multiple perspectives are vital in genetic-based research of mucosal melanoma. The integrative analyses described here provide some basis for a better understanding of the importance of different genes in the pathogenesis of mucosal melanoma and in the development of precision treatment.

Materials and Methods: We performed deep targeted sequencing of 100 melanoma-related genes in 39 mucosal melanoma samples and conducted a further integrative analysis of the overall results.

Results: We verified genes associated with mucosal melanoma among known melanoma genes. Moreover, we classified these genes in terms of their applicability to appropriate basic functional studies (NARS, AKT1, MAP2K1, etc.) or to clinical targeted drug research (MECOM, STAG2. etc.).

Conclusions: The integrative analyses described in this study not only verified mucosal melanoma genes but also provided some basis for a better understanding of the importance of different genes in the pathogenesis of mucosal melanoma and in the development of precision treatment.





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