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Outline

- □ Background
- □ SQCCCRC Experience
- ☐Genome Project
- ☐ Advantages and challenges
- ☐ Future Directions



About Oman...

- □ Southeastern coast of the Arabian Peninsula at the confluence of the Gulf of Oman and Arabian Gulf.
- ☐ The current population of Oman is 5,480,479 (62% Omanis)
- □ 2/3 of the population are youth
- ☐ Mainly public health system



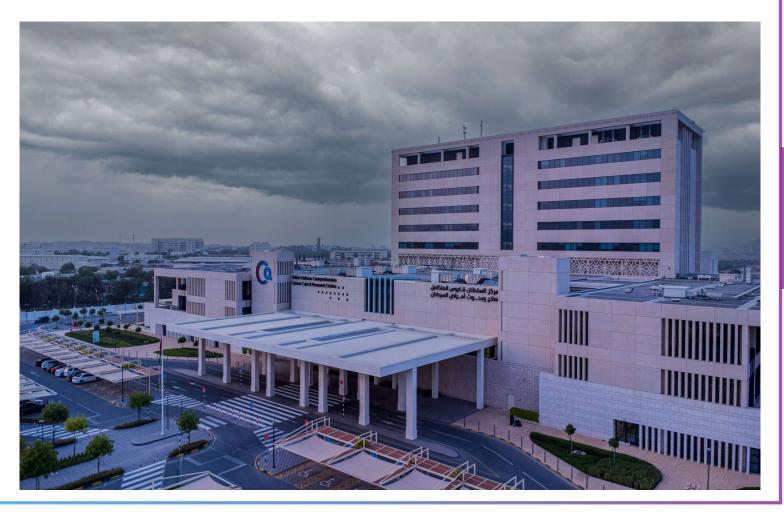
How it started



☐ Royal Decree to establish SQCCCRC

☐ 3rd September 2021: Outpatient Clinics

☐ 7th February 2023: University Medical City



Sultan Qaboos Comprehensive Cancer Care and Research Center (SQCCCRC)

- □ Commissioned in 2021 (Genomics Department Sep 2021)
- **□** Solid cancers
- ☐ Based on 6 programs (GI, Breast, Women's Health, GU, H&N, Rare)
- ☐ Genetic Counselling part of the MDT team



Oman Genome Project



Genomics Department

- □VUS in 68% of the cases !!!
- □ Positive moderate and low risk genes in 9% of the cases



Pathogenic Variants

APC risk Allel c.3920C>T

Fanconi genes

ERCC5

XRCC2

ATM

NBN

XPC

Difficulties

> Gathering information about family history

> Pathology reports

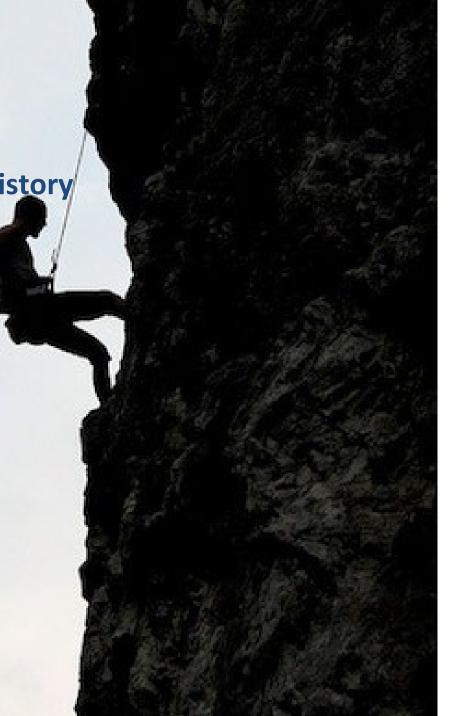
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► Missing and/or Hiding information

▶ Patients knowledge

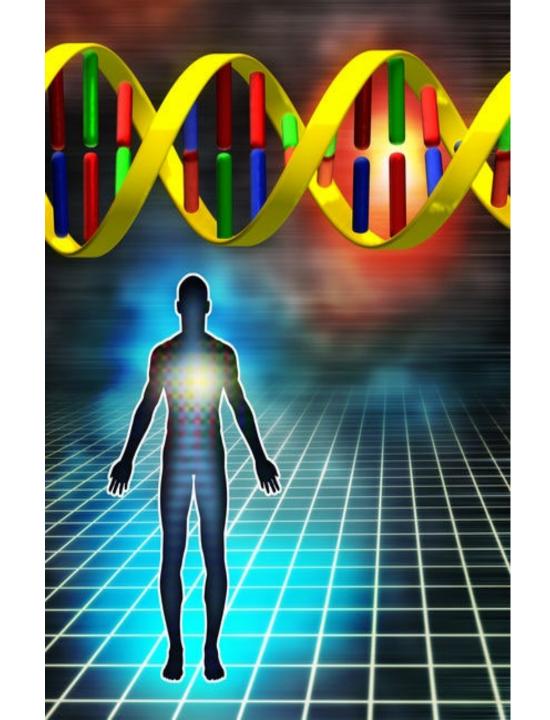
≻Molecular tests

➤ Counselling for VUCs



Future Directions

- **≻One** National Team
- ➤ Data Sharing! Local/Regional/International
- ➤ Learn from other experts.





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Thank you

