



Reversing Cancer

# **Building resources to address an Asian cancer**

Sok Ching Cheong

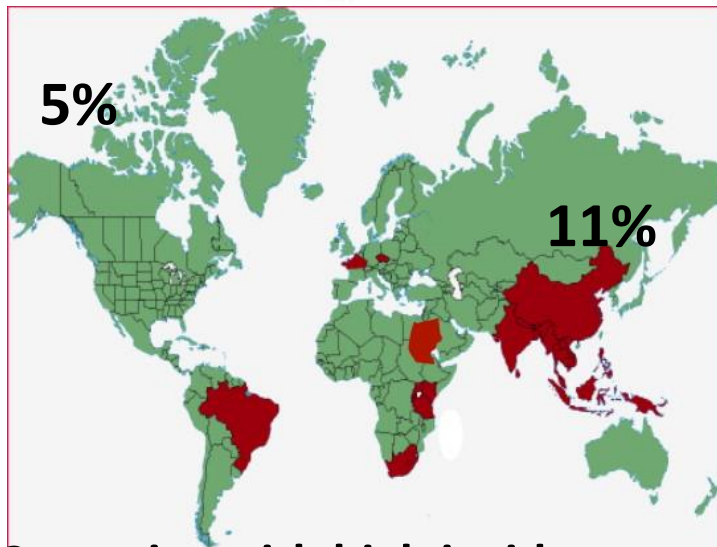
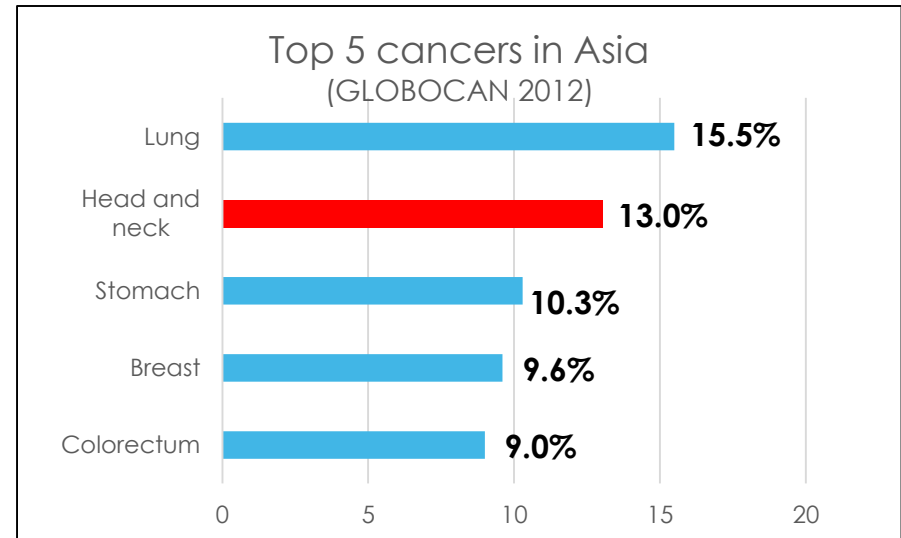
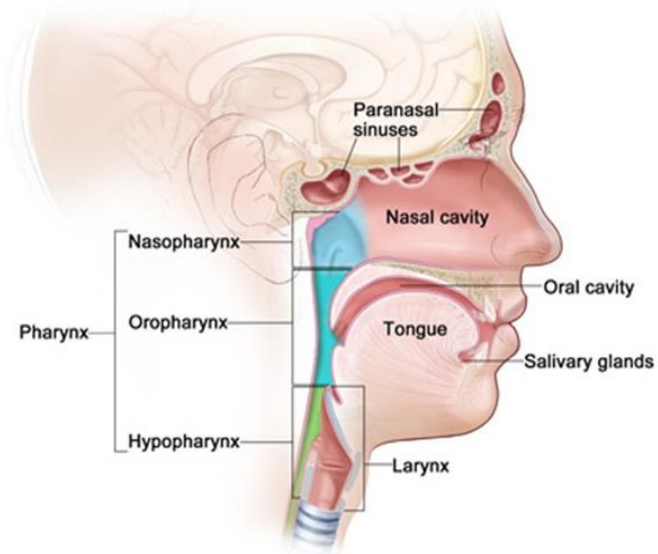
Senior Group Leader, Head and Neck Cancer Team, Cancer Research Malaysia

Adjunct Professor, University of Malaya

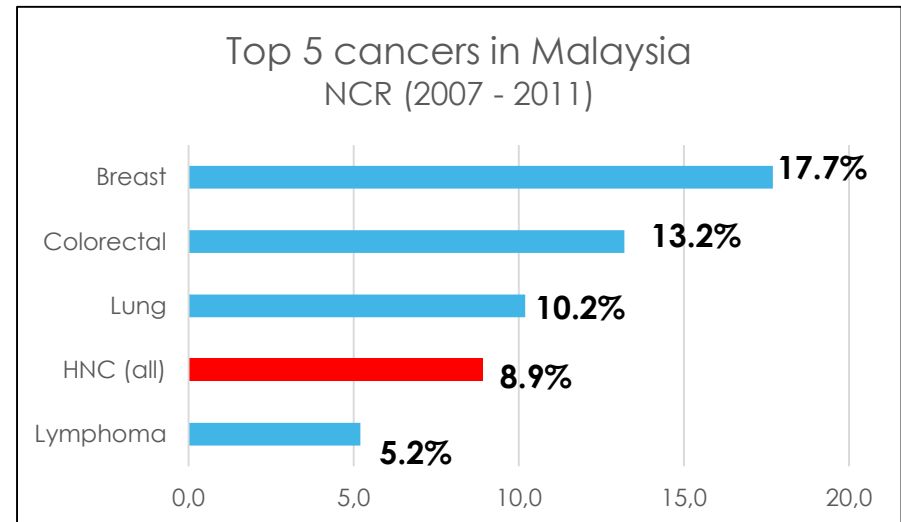
23<sup>rd</sup> August 2017

# Head and neck cancer

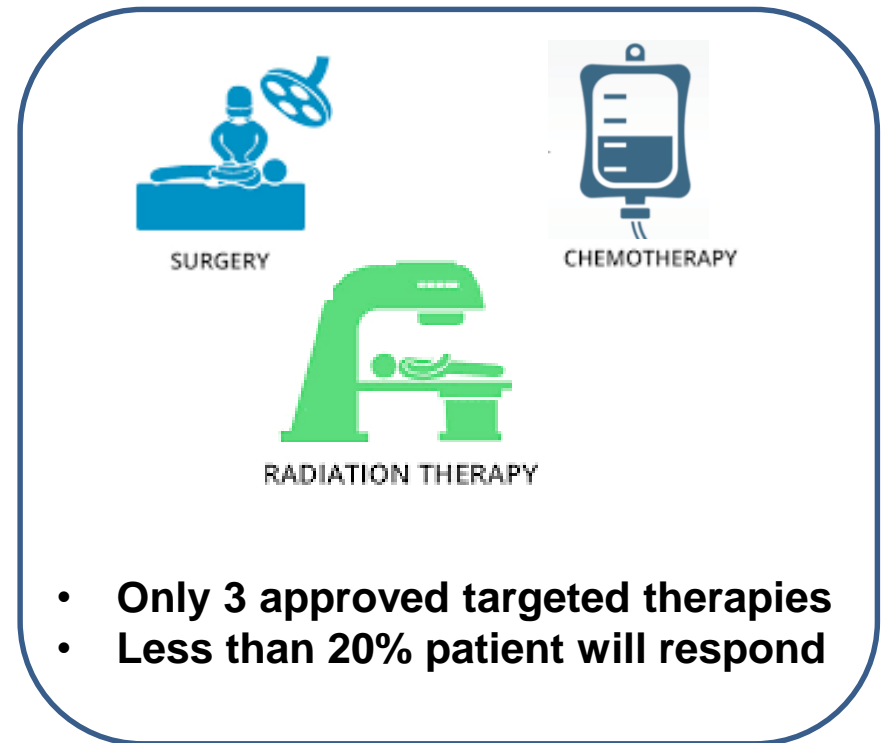
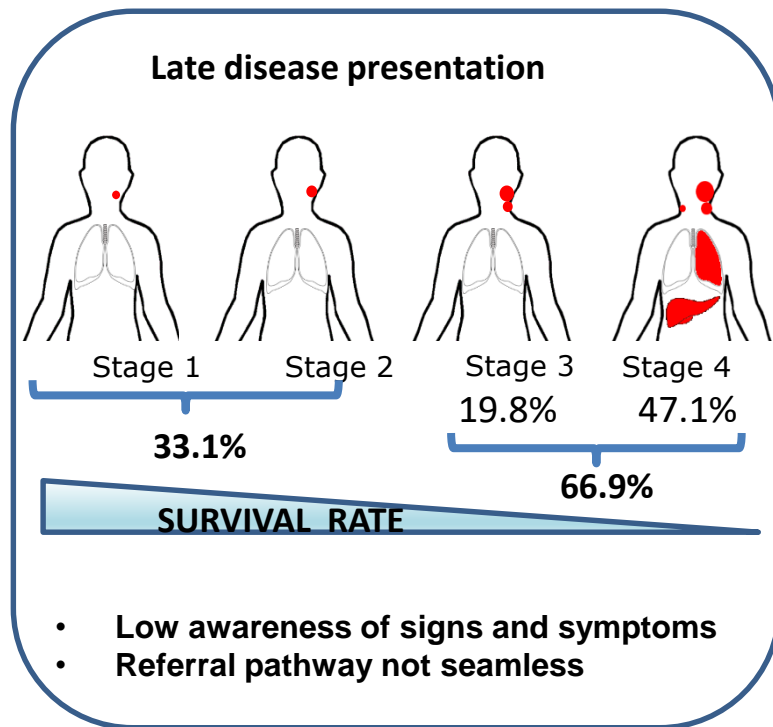
## A significant burden in Asia



**Countries with high incidence and mortality from oral cancer.**



# Challenges in clinical management



**Our GOAL:** To improve head and neck cancer management and survival through our **understanding of genetic alterations** that drive oral cancer development and by **building innovative tools**



**CRM HEAD & NECK CANCER TEAM**

# Head and Neck Cancer Research Programme

## Cancer Research Malaysia



Cancer  
Immunotherapy



Drug  
repurposing



New targets

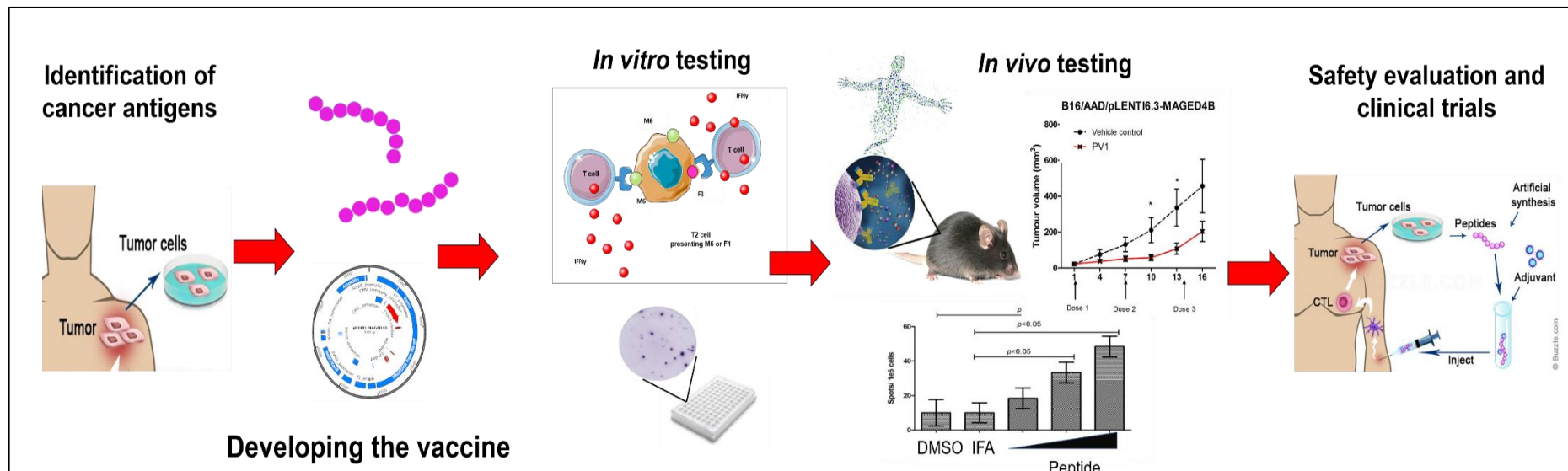
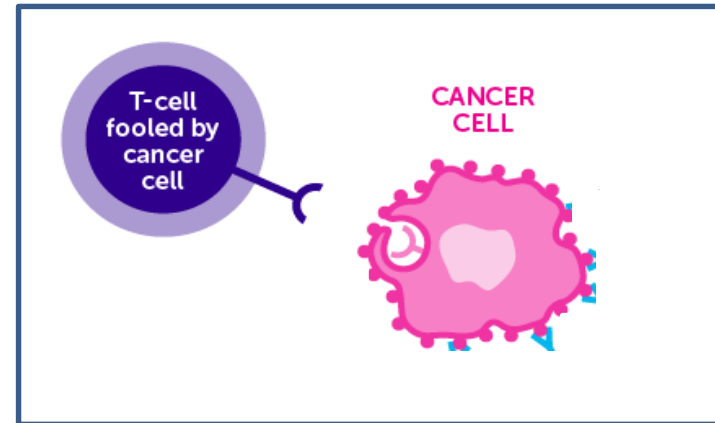
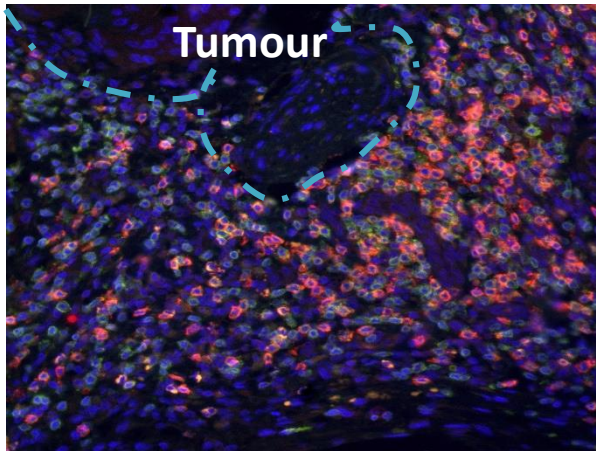


Tele-oncology

Improve clinical management, increase survival



# Cancer Immunotherapy: activating the immune system to fight head and neck cancer



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# DeSigN: Repurposing existing drugs for the treatment of head and neck cancer

- More than 10,000 small molecule inhibitors (Corsello et al. Nat Med 2017)
- Genomics of Drug Sensitivity in Cancer (GDSC; <http://www.cancerrxgene.org/>)
- Cancer Cell Line Encyclopedia (CCLE) (Barrentina et al. Nat. 2012)



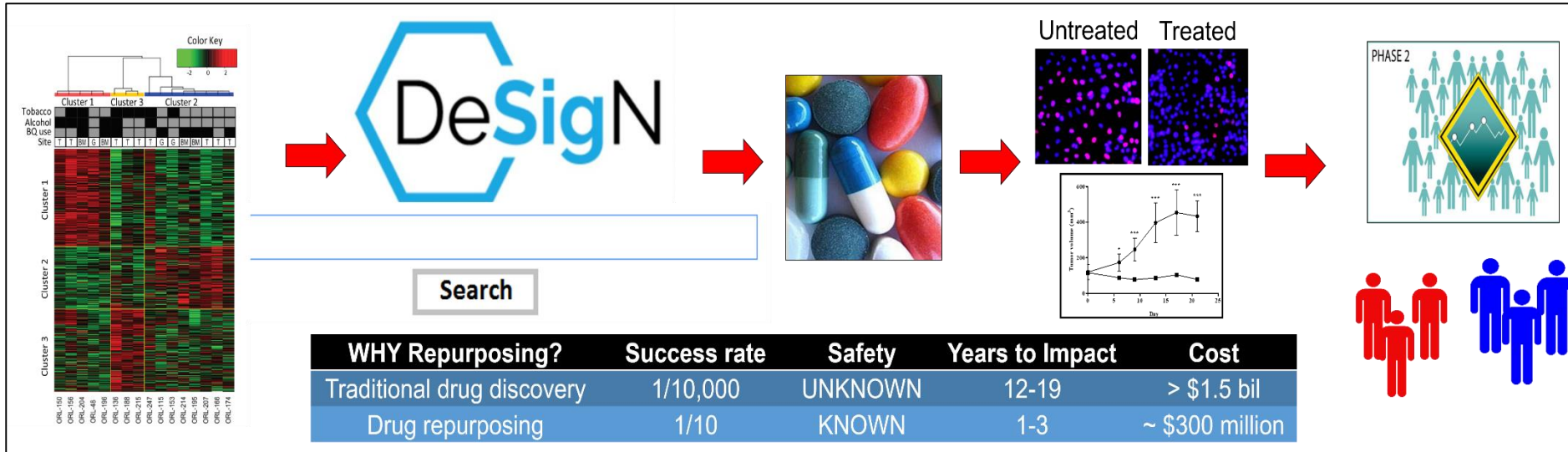
Angina →

Erectile dysfunction



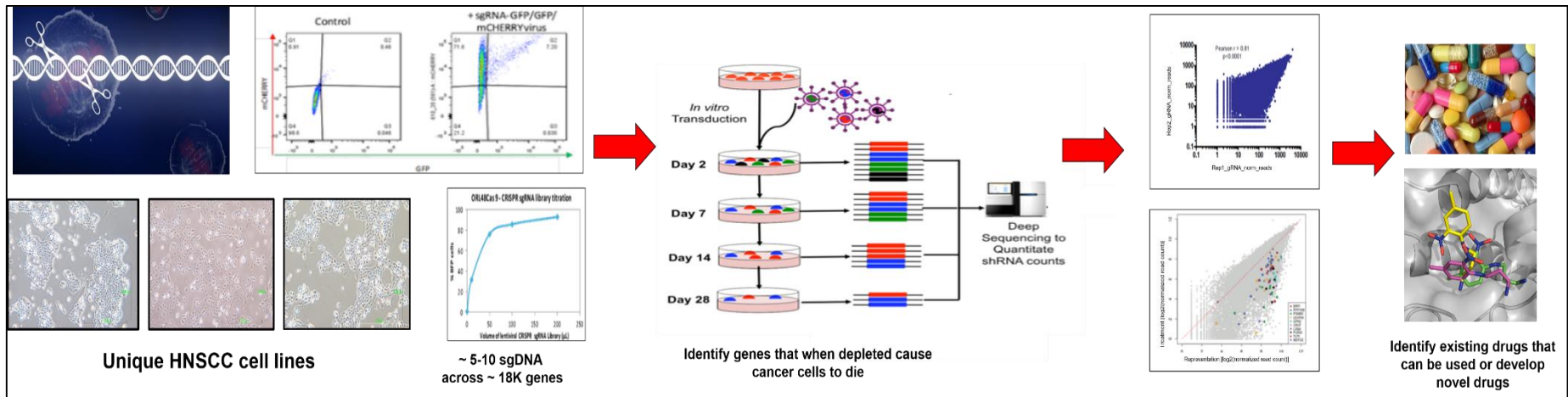
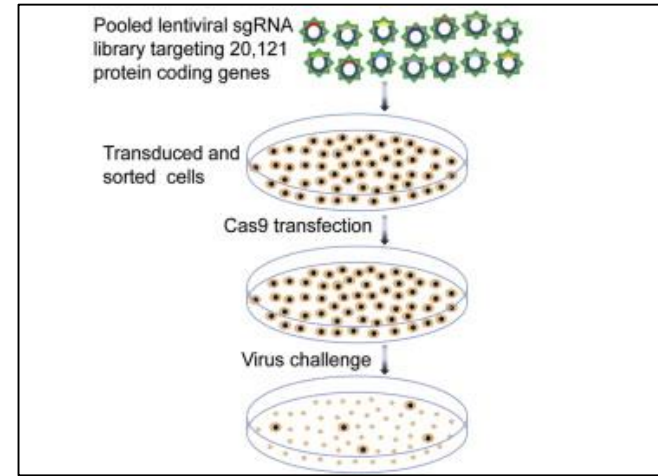
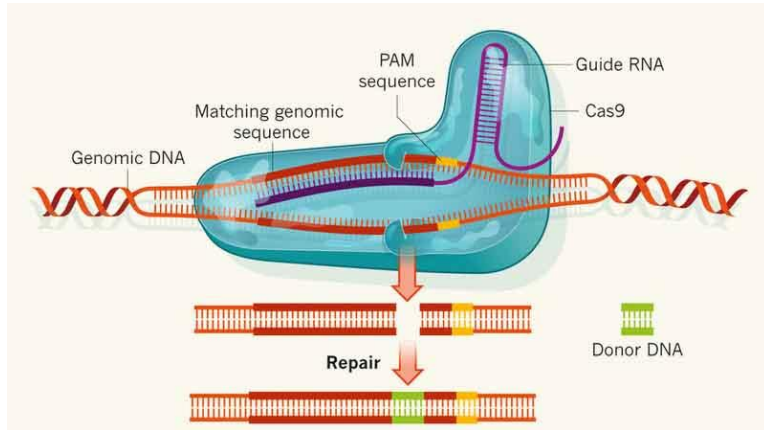
Pain →

Cancer trials



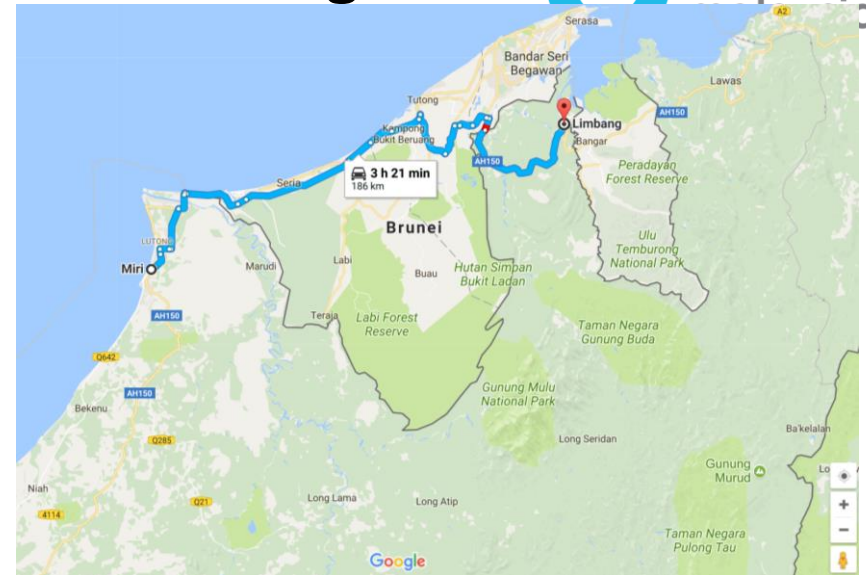
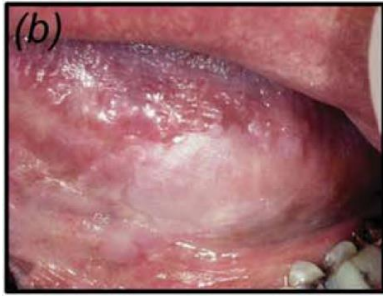
Link: at <http://design.cancerresearch.my/>.; Lee et al. BMC Genomics, 2017; Fadlullah et al. Oncotarget, 2016; Hamid et al. Int J Mol Med, 2007

# CRISPR/Cas9 screens: killing cancer one gene at a time

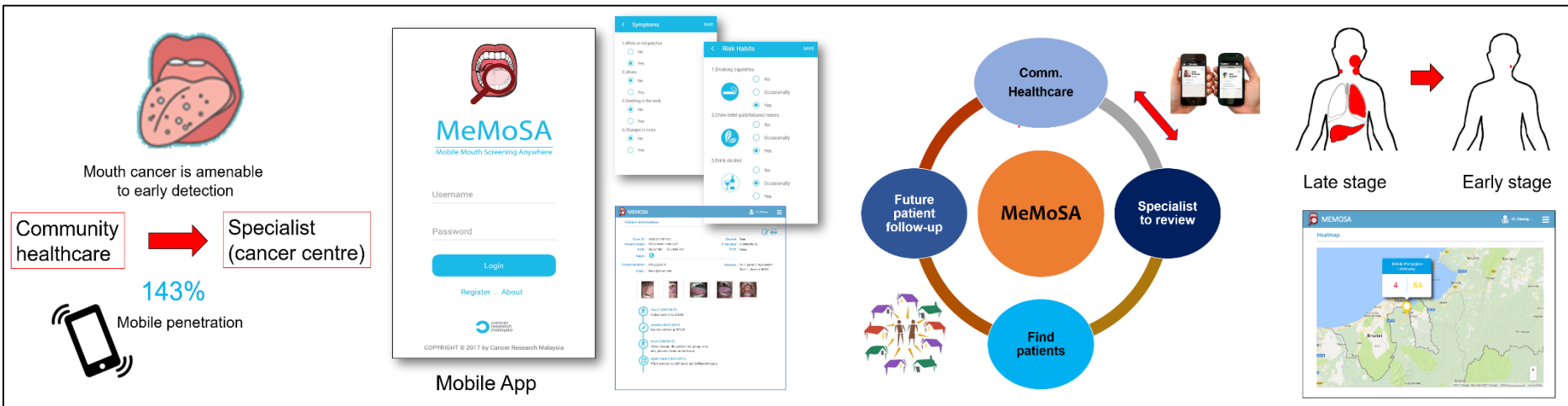




# MeMoSA: Mobile Mouth Cancer Screening Anywhere



- 1) Amenable to examination
- 2) Intervention before malignant transformation



Saleh et al. APJCP, 2012; Saleh et al. APJCP, 2014; Saleh et al. Comm Dent Oral Epi, 2016  
 Haron et al. Telemed & eHealth, 2017



Reversing Cancer



# Thank You

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# More information Malaysian Head and Neck Cancer Research




 Cancer Research Malaysia 🙏 feeling thankful at   
Cancer Research Malaysia.  
Published by Addin Sufiya Dan Kami [?] · 27 July · Petaling Jaya · 🌐


Did you know that June was Cancer Immunotherapy Month? As a reflection, we speak to Cancer Research Malaysia's very own Cancer Immunotherapy Groundbreakers.

The immunotherapy team in Cancer Research Malaysia (CRM) is made up of these dedicated scientists: Prof. Dr Cheong Sok Ching, Dr Vyomesh Patel, Dr Lim Kue Peng, Ms. Gan Chai Phei, Ms. Chai San Jiun and Mr. Samuel Fong.

Read the full article from the link below.



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Our very own Immunotherapy Groundbreaker, Prof Dr Cheong Sok Ching is featured in Focus Malaysia's TOP CLASS segment to inspire young talents to consider a career in the sciences.

She is a Malaysian scientist who has dedicated her career to the study of...



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