INFECTIOUS DISEASES IN THE PACIFIC

Persistence, emergence and re-emergence.

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Progress can be measured by how far a man can travel in a day

1873-4	Measles outbreak in Mauritius
1874	Measles outbreak in Australia
30 September 1874 December 1874	King Cakobau signs Fiji Deed of Cession. King Cakobau and family are guests of Sir Hercules
	Robinson, Governor of New South Wales, in Sydney.
21 December 1874	King Cakobau and family leave for Fiji. Kings Chaplain and son develop measles on the return voyage. Quarantined during the voyage.
12 January 1875	Royal party met by local dignitaries on arrival in Fiji. Crown Prince has a rash when disembarking.
22 January 1875	King meets 69 Fijian Chiefs and their retinues (~600 people) at Navuso on Viti Levu. Chiefs return to their home villages and islands.
>26 January 1875	Ships Wentworth and Western Star arrive from Sydney with cases of measles and several measles deaths during their voyages.

1872 Measles outbreak in South Africa

An estimated 50,000 deaths (30 per cent of the population of Fiji)

Some disease challenges

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Respiratory infections
       Acute, chronic (TB)
Sexually transmitted diseases
       (N.B. Chlamydia)
Diarrhoeal diseases
       (food and water)
Vector-borne diseases
        (the arthropod always wins)
Poverty
         (Strep., intestinal parasites)
International travel
         (constant introduction of exotic
pathogens)
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A persistent infection is one that emerged and then didn't go away

Some immediate solutions

Expand immunisation cover (Number of vaccines and vaccinees)

Deworming and soap at Schools

Free condoms (over the counter or by post) *Opposition from conservative legislators.*

Some more solutions

Sustain the PPHN and PPHLN (surveillance and evaluation)

Systematic monitoring of antibiotic resistance.

Systematic continuing professional education.

(strategic planning)

Mentorina

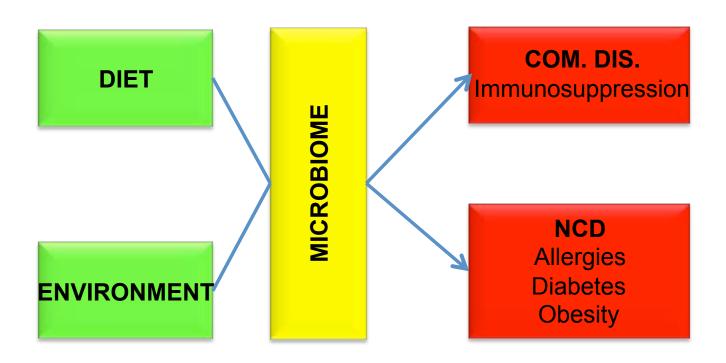
And now for something really scary.

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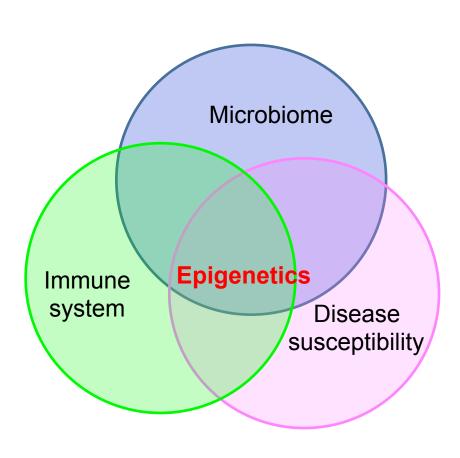
The microbiome – a link between communicable and non-communicable diseases.



The gut microbiome as a gatekeeper to health



How many generations to turn off an epigenetic switch?



Some research priorities

Systematic, ongoing mosquito taxonomy.

The competence of local mosquitoes to transmit regional arboviruses.

The gut microbiome of Pacific Islanders.

The effect of diabetes on the susceptibility to infection, the response to treatment and the reactivation of latent disease (begin with TB).

