



Sydney Health Ethics Sydney School of Public Health

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Structure: 1. The innovation landscape 2. Agendas and challenges 3. Four ways that bioethics can go wrong 4. A role for bioethics in effective regulation

Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au

My aims today:

To suggest how analysis of certain concepts in bioethics can help us to have a deeper and more nuanced debate over regulation of emerging technologies

To suggest some of the ways in which bioethics scholarship can go awry - as a pointer to what we should avoid doing

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1. The innovation landscape

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Before we get too excited...
When implementing emerging technologies, it is important to be aware of limits to knowledge
Example: Genomics

We still don't know what a lot of the genome does
Genomic data remains a poor predictor of overall health

Not all genes are penetrant

And some we thought were, aren't

Interpretation databases remain imperfect

Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au



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The culture of medicine and research Widening definitions of disease and health problems Appetite for 'information' Concern that supply creates demand Embedded in the culture of health and medicine are: A fear of 'missing' something Commercial interests Prioritisation: what should we prioritise for innovation? When and how should we say that an innovation is 'ready' for wider implementation?

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Нуре...

- A mechanism to mobilise resources to realise the aspiration of the intervention (Brown, 2003)
- "the tendency to exaggerate the value or near-future application of research results" (Caulfield, 2016)
- ...makes technology alluring
- Commercialisation pressures can be one driver



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Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au

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Hype: the problem

Hype -

- ...may increase public perception of disease severity
- ...may distort funding allocation
- ...can mean technology is implemented too early, and de-implementation is often difficult
- ...may lead to a loss of trust

Caulfield (2018) claims that we should "frame the knowing hyping of research as an unethical departure from the norms of science."

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Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au



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Problem 3: Dichotomising the debate

- In bioethics, often the most significant debates happen at the 'poles'
- There is less debate on the 'middle ground'
- This is exacerbated by pressures such as grant funding and gaining media attention – hard to be nuanced
- Credit: Siora Photography via Unsplash
- Attempting to take the middle ground can lead to criticism from both sides

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Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au





Problem 4: the problem of the perfect patient

 People and patients are viewed as highly resourced, health literate individuals living in high income settings, with little or no interdependencies

Credit: Miguel Bruna, Unsplash

 With technologies such as genomic testing, context (and family!) are vital



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If bioethics scholars can better appreciate the concepts and problems raised here, then our field will be able to have a more productive influence – as 'critical friends' – on the regulation of emerging technologies.

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Associate Professor Ainsley Newson: ainsley.newson@sydney.edu.au

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