Nurturing science culture

---科学をする文化を育む

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How to do ~~impactful~~ science?

fun

イ~~ンパクトのある~~研究をするには？

楽しい

You cannot control the impact of your science

But you can control the potential impact of your science

Having fun doing science increases the chance that it becomes impactful

External vs. internal value systems

外的 vs. 内的　評価システム

External	vs.	Internal
Impact		What satisfies you?
Impact factor		What is fun?
Ranking		What do you think is important?
Grant $$		What fascinates you?

Not under your control

Under your control

Strengthening internal value system leads to external values

内的評価システムを強化すると外的評価がついてくる

‘S/he was pursuing that question just because it was interesting to her/him, and it led to THAT discovery’

Internal value

What can we do to facilitate ‘THAT’ discovery?

どうやって「あの発見」が起きる可能性をあげるか？

Individuals’ curiosity

Do not impose your own value on others
(inside and outside science)

Remember, we might not recognize true geniuses
(so don’t kill others’ talent by our arrogance)

Example: the case of my lab
私の研究室の例

‘Whose projects did you find interesting?’

‘What kind of questions fascinate you?’

➔ ‘If you want to ask this question, how to rigorously test the idea?’
(PI only functioning as a gatekeeper of the rigor, not ‘what project to do’)

Everyone has their own original mind

Looking into next 20 years

---これからの日本へのメッセージ

20 years is not that long…

It is just about cumulative of what
you do everyday

- We should not ’box-in’ scientists
- Trust individuals’ curiosity
- The best we can do is to be ‘permissive’ of talents which is the ‘culture’ of nurturing science

Your mind is your talent

Howard Hughes Medical Institute

Whitehead Institute

MIT Biology

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