

DIPARTIMENTO

FACOLTÀ DI GIURISPRUDENZA





AISA

Associazione italiana per la promozione della scienza aperta

Vaccines Intellectual Property vs Commons and Open Science

«Global Technology Law and Policy»
 University of Ottawa, University of Haifa, and Bocconi University the 5th of May 2021

Roberto Caso University of Trento - AISA

IP is only a piece of a complex puzzle

- IP is only a piece of a complex puzzle
- An Italian perspective on a global disaster
- Italy is paying a very high price in terms of deaths and economic losses

Italy (worldometers)



Roberto Caso - Vaccines IP vs Commons and OS -2021

Law and Technology Policy: upstream vs downstream

- Upstream policy: role of the public sector, universities and not-forprofit research centres, IPRs and trade secret as boundaries
- Downstream policy: IPRs waivers, compulsory licenses, etc.
- When you try to solve issues with downstream policy, it means it is already too late

Relevant issues

- (Economic and geopolitical) competition vs cooperation
- Private sector (profit) vs public sector (healthcare)
- Intellectual Property vs Commons & Open science

IP logic: the (private) winner takes it all

- Competition
- The winner takes it all and takes all the decisions
- Monopolistic power is not just about price, it is about decisional power



Commodification of science, academic capitalism, «governance by numbers»

- Central Public Agency for the Evaluation of Research (ANVUR) in Italy
- Patents and scientific publications as equivalents
- Patents help advancing in the public research assessment ranking



University patents in the pandemic time?

E.g. Douglass (2021)

«But the success of the **Bayh-Dole Act**, and the discoveries it helped generate, also contributed to an increasingly complicated world of IP ownership. The act and similar legislation, as well as federal funding, contributed to the foundational science that led to the variety of COVID-19 vaccines. Its provisions also raise **questions about the role**, **and ownership**, **of federally funded research that made the vaccine possible»**.

University patents in the pandemic time?

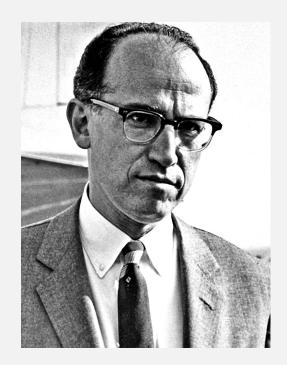
E.g. Douglass (2021)

 "In the aftermath of the COVID pandemic, the strengths and weaknesses of the IP world set out by the Bayh-Dole Act will be debated and focused on two questions: who profited from the pandemic and at what global public expense?"

No IP and cooperation (e.g. Salk)

Salk Interviewed by Ed Murrow:
 «Who owns this patent?»

 «The people, I would say. There is no patent. Could you patent the sun?»



IP and Vaccines in the past: a collective enterprise

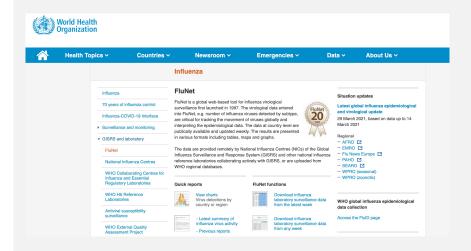
- Smallpox
- Polio
- See e.g. Blume and Mezza (2021): «Though still interwoven with public research networks, neoliberalism has redesigned the pharmaceutical-health sector. Barriers and fences limit the circulation of knowledge and reduce the public health system's capacity to react to real emergencies. The western state and its political class no longer see the provision of essential tools for public health such as vaccines as their direct responsibility».

Open Science and Flue Vaccines before pandemic → e.g. GISRS → FluNet

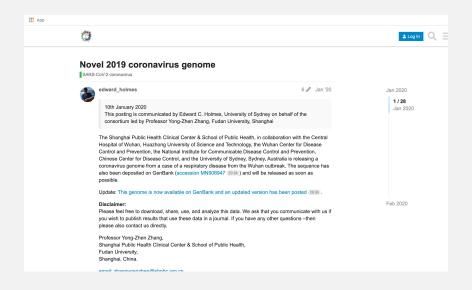
ORDER WITHOUT INTELLECTUAL PROPERTY LAW: OPEN SCIENCE IN INFLUENZA

Amy Kapczynski†

Today, intellectual property (IP) scholars accept that IP as an approach to information production has serious limits. But what lies beyond IP? A new literature on "intellectual production without IP" (or "IP without IP") has emerged to explore this question, but its examples and explanations have yet to convince skeptics. This Article reorients this new literature via a study of a hard case: a global influenza virus-sharing network that has for decades produced critically important information goods, at significant expense, and in a loose-knit group—all without recourse to IP. I analyze the Network as an example of "open science," a mode of information production that differs strikingly from conventional IP, and yet that successfully produces important scientific goods in response to social need.



A new hope. 10-01-2020: deposit of the SARS-CoV-2 genome sequence in OA repositories



 «Please, feel free to download, share, use and analyse this data» Karen Walsh, Andrea Wallace, Mathilde Pavis, Natalie Olszowy, James Griffin, Naomi Hawkins (Feb. 2021)

- «Open Movements A Panacea?»
- «Open movements provide limited remedies because they are not designed to, nor can adequately address the wide range of access barriers necessary to promote the public interest. Existing legislative mechanisms designed to remove access barriers similarly fail to effectively remedy access needs».

Karen Walsh, Andrea Wallace, Mathilde Pavis, Natalie Olszowy, James Griffin, Naomi Hawkins (Feb. 2021)

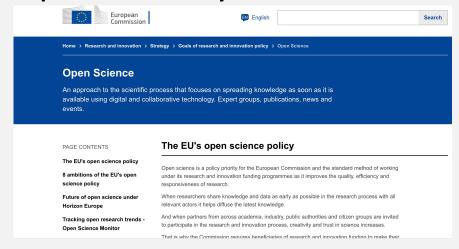
- «We propose that a systemic re-evaluation of IPR and access mechanisms is required to ensure public interest goals are (re)centred and shape both private and public responses to future crises».
- «At present, IPR reform is a low priority for national governments and international organisations, even though access to IPR subjectmatter is crucial to resolving the current pandemic and future public health crises».

EU contradictions: IP vs Open Science

An Intellectual Property Plan



Open Science Policy



«IPR reform is a low priority for national governments» → e.g. Italy (Public consultation is open)

- Ministry for the Economic Development
- Industrial Property
- «New» policy on Industrial Property policy
- On the wake of EU Intellectual Property policy
- Logic: more IP = more innovation
- E.g. more university patents



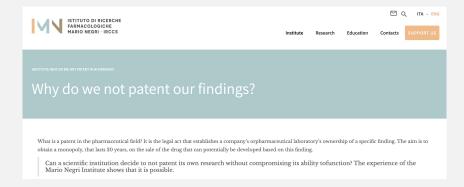
Italian Association for the Promotion of Open Science (AISA) - Mission

- To disseminate a culture of Open Science;
- To publish studies on the implementation of Open Science principles;
- To provide staff training programs to promote Open Science practices in research performing organizations (universities and research centres) which embrace the OA principles;
- To engage international cooperation through networking with legal entities involved in the promotion of Open Science;
- To promote participation in international research projects and grant applications linked to the association's mission;
- To raise awareness among decision makers, and in particular Italian and European legislators, to further the promotion of Open Science in research assessment and intellectual property policies.

AISA open letter to Italian Government

- a) Open Vaccine: Universities and public research centres do not patent technology and apply Open Access, destroying patent novelty
- b) It is necessary to change Italian legislation adding a provision on compulsory licence for public health
- c) Enhance contractual transparency → "No profit on pandemic" initiative and other initiatives

Silvio Garattini and Istituto Mario Negri: Why do we not patent our findings?



- Why, then, do we do we continue to opt out of the patenting system?
- «Because we want to be free.
 Free to choose which direction to go in and which research topics to select. If our aim were to acquire patents and use them, that would inevitably move our focus towards the most financially rewarding research».

Essential references

- S. Blume, Mezza, How the sun was privatized, 2021 https://www.eurozine.com/how-the-sun-was-privatized/
- R. Caso, <u>The Darkest Hour: Private Information Control and the End of Democratic Science</u>, Trento LawTech Research Papers, nr. 35, Trento, Università degli studi di Trento, 2018
- J.A. Douglas, Federally Funded Research, the Bayh-Dole Act, and the COVID Vaccine, Feb. 2021,
 - https://cshe.berkeley.edu/publications/federally-funded-research-bayh-dole-act-and-covid-vaccine-race-john-aubrey-douglass

Essential references

- A. Kapczynski, <u>Order Without Intellectual Property Law: Open Science in Influenza</u>, <u>Cornell Law Review</u>, <u>Vol. 102</u>, <u>No. 6</u>, <u>2017</u>, SSRN: https://ssrn.com/abstract=3066162
- Istituto Mario Negri, Why do we not patent our findings?, https://www.marionegri.it/eng/not-patenting
- M. Mazzucato, J. Ghosh, E. Torreele, On waiving covid patents, The Economist, April 20, 2021 https://www.economist.com/by-invitation/2021/04/20/mariana-mazzucato-jayati-ghosh-and-els-torreele-on-waiving-covid-patents

Essential references

- M.C. Pievatolo, Open science: human emancipation or bureaucratic serfdom?, in SCIRES.it, 2020, http://www.sciresit.it/article/view/13344
- J.E. Stiglitz, A. Jayadev, A. Prabhala, Patents vs. the Pandemic, Project Syndicate, Apr 23, 2020 https://www.project-syndicate.org/commentary/covid19-drugs-and-vaccine-demand-patent-reform-by-joseph-e-stiglitz-et-al-2020-04?barrier=accesspaylog
- K. Walsh, A. Wallace, M. Pavis, N. Olszowy, J. Griffin, N. Hawkins, Intellectual Property Rights and Access in Crisis, IIC (2021) 52:379–416 https://doi.org/10.1007/s40319-021-01041-1

References in Italian language

R. Caso, <u>La scienza non sarà più la stessa</u>. <u>Più condivisione</u>, <u>cooperazione e solidarietà dopo il Covid-19?</u>, Trento LawTech Research Papers, <u>nr. 39</u>, Trento, Università degli studi di Trento, 2020, BioLaw Journal, v. 2020, no. 1s (2020), p. <u>617-622</u>

Italian Association for the Promotion of Open Science

- Associazione Italiana per la promozione della Scienza Aperta (AISA):
 https://aisa.sp.unipi.it/chi-siamo/
- AISA Open Letter to Italian Government:

https://aisa.sp.unipi.it/lettera-aperta-su-vaccini-liberi-e-licenze-obbligatorie-le-prime-firme/

AISA statement:

https://aisa.sp.unipi.it/why-dying-for-a-patent-compulsory-licenses-contract-transparency-public-health/

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