2021 3rd Quarterly vetSIG Meeting (April 30th, 2021)

Observer Reports

The meeting was held on Friday, July 30th, 2021. The taster of veterinary medical writing and main item was the talk *One Health, distributed manufacturing and medical writers' expertise* by Jennifer Bell. This was followed by a report on the results of a survey of the veterinary medical writing/communication community, by Henry Smith.

We have two observer reports, one for each of the main topic presented at the meeting, to provide readers with the perspective of an individual audience member for each part.

The actual meeting slides for Parts 1 and 2 are added as appendices (with separate page numbering).

Part 1: One Health, distributed manufacturing and medical writers' expertise

Jen's talk was based on her experience as co-author of the paper in *Build a Sustainable Vaccines Industry with Synthetic Biology* in Trends in Biotechnology (the paper can be downloaded here: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7834237/). At the heart of the concept in their paper was the bio-foundry—a small-scale, manufacturing unit that can swing onto vaccine production as soon as it has received the relevant digital code. This would facilitate cheaper vaccine production and substantially shorter supply chains (specifically cold chains), an improvement on the current centralized and capital-intensive model of the vaccines industry, of particular relevance during the current COVID pandemic.

Starting with the link to *One Health*, Jen pointed out a number of ways that bio-foundries could benefit human and animal health. In addition to the many practical and ethical aspects, Jen highlighted one point of great interest to all medical writers. Jen and her co-authors came up with ideas in a brainstorming session; their next job as medical communicators was to convert the raw ideas into section headings and text, a key skill for all of us. From there, the discussion broadened to cover Norwegian salmon—for them, could the age of antibiotics be over? (opinions differed)—and the feasibility of mobile bio-foundries (the barriers may be regulatory rather than physical).

Finally, Jen touched on publication of novel ideas and the future for bio-foundry medical writing. She suggested that authors need to weight up the magnitude of the impact factor

and the "goodness of fit" when selecting where to publish a "Eureka" concept. High impact factors are great of course, but if there is a risk of the article being incorrectly pigeonholed or subject to a reference cap, it may be worth looking at another journal. The writing for this project has so far involved journal articles, but as the concept moves to fruition, we can expect many more opportunities for medical writers, especially in the freelance field. We can be glad Jen and her fellow-authors have found a good audience for their idea, and look forward to exciting developments with the advance of biofoundries.

Henry Smith

Part 2. Survey Report

The purpose of the survey was to characterize EMWA vetSIG participants, and other veterinary medical writers and communicators. The survey included eight questions, the first three of which covered work-related demographics. Respondents had apparently come into diverse areas of veterinary medical communication by diverse routes in most cases, although there were other cases where people hoped to enter the field, and one or two where they had left it. Though specific occupations were not clarified, participants mostly worked in medical/veterinary regulatory, journal article and comms fields. Participants were mainly from Europe (especially, but not exclusively Germany and Austria), and "Specific training" and "Career advice sharing" were the most commonly cited purposes for their participation. The most extensively discussed result was that for the supplementary question on the species the participants focus on. As expected, domestic dogs had the highest ranking, but in out-of-the-blue result, humans also shared the first ranking.

Respondents and participants also shared suggestions and comments for the vetSIG as well. These included the inclusion of topics related such as freelance writing, and activities that could satisfy members with different backgrounds. This point was followed by a comment on presentations in structured meetings to cover those different backgrounds. The discussion also mentioned that the association should include members globally. The meeting closed with reminders of the next events.

Hui-Wen Chen



3rd quarterly Meet&Share in 2021



30 Jul 2021, 3 pm, CET



One Health, distributed manufacturing and medical writers' expertise

"Meet&Share" Vet SIG

Free for all in 2021 – only for EMWA members from 2022



'One Health' is an approach to designing and implementing programmes, policies, legislation and research in which multiple sectors communicate and work together to achieve better public health outcomes.

World Health Organisation

GMO ethical issues relate to big companies selling expensive technologies that underprivileged communities can't afford

Please read this opinion piece:

Build a Sustainable Vaccines Industry with Synthetic Biology https://www.cell.com/trends/biotechnology/fulltext/S0167-7799(20)30331-0

One Health' is an approach to designing and implementing programmes, policies, legislation and research in which multiple sectors communicate and work together to achieve better public health outcomes.

- World Health Organization
https://www.uho.int/news-room/g-o-detail/one-health

One Health

One Health

Health

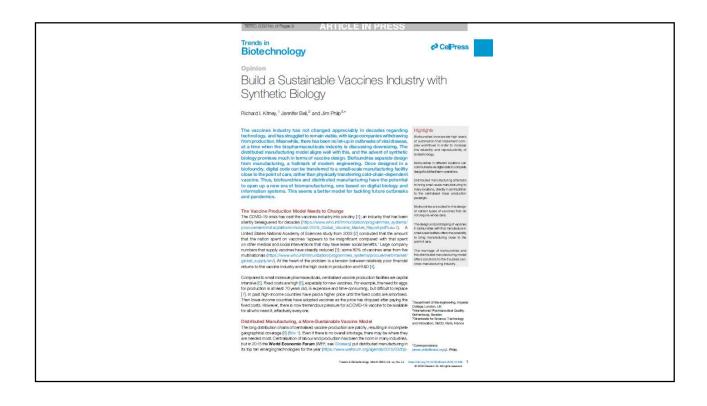
One Health

Animals

Healthy Animals

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Things we thought about became article headings:

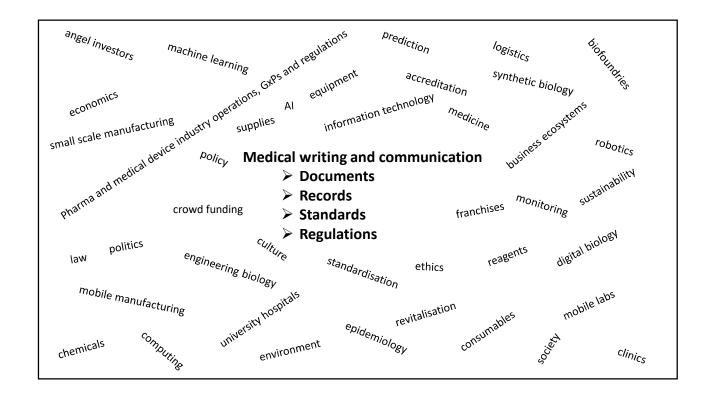
- ➤ Building sustainable industries
- > How production models are changing
- Sustainability
- > Distributed manufacturing
- Synthetic biology
- Disease outbreak vigilance
- ➤ Mobile labs used commonly in Africa
- Other technologies already in use
- > Economic viability
- > Operations robustness, standardization and quality
- ➤ Responsive regulation
- Cybersecurity
- Talent, education and skills
- Competition
- > Other sectors where distributed manufacturing works
- > Economic growth
- Overcoming challenges with current manufacturing methods
- Local essential medicines production
- > Biomedical science
- Disruption
- > Dairy farming and genomics
- Aquaculture, antibiotics and vaccines
- Funding

Headings from:

Bell, J., Philp, J. and Kitney, R.I. (2021). Addressing the post-COVID era through engineering biology. Engineering Biology, 5, 21-34.

Kitney, R.I., Bell, J. and Philp, J. (2020). Build a sustainable vaccines industry with synthetic biology. Trends in Biotechnology. Available in [cited 08 May 2021]: https://doi.org/10.1016/j.tibtech.2020.12.006





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Bell, J. (2021). Build a sustainable vaccines industry with synthetic biology - a summary. Quasar, 156, 28 – 31.

Bell, J. (2021). Distributed manufacturing of accessible treatments. Quasar, 156, 12.

Bell, J., Philp, J. and Kitney, R.I. (2021). Addressing the post-COVID era through engineering biology. Engineering Biology, 5, 21-34.

Global Biofoundries Alliance website. Available in [cited 30 July 2021]: https://biofoundries.org/

Kitney, R.I., Bell, J. and Philp, J. (2020). Build a sustainable vaccines industry with synthetic biology. *Trends in Biotechnology*. Available in [cited 30 July 2021]: https://doi.org/10.1016/j.tibtech.2020.12.006

Research Quality Association news snippet (2021). Available in [cited 30 July 2021]: https://www.therqa.com/news/r3-rna-readiness-and-response/

Scheuber, A. (2020). Imperial [College London] social enterprise to accelerate low-cost COVID-19 vaccine, Available in [cited 30 July 2021]: https://www.imperial.ac.uk/news/198053/imperial-social-enterprise-accelerate-low-cost-covid-19/#authorbox

