Challenges in evidence based science evaluation: the case of Veterinary Medicine School

Author:
MPCT. Carlos Alberto Montero Corrales
Carlos.montero.corrales@una.cr
Challenge 1: From traditional metrics to alternative metrics to measure social results (streetlight effect)
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**Bibliometry**
520 scientific production (articles, congresses papers and Book chapters) between 2010-2020

**Patentiometry**
17 scientific articles were cited in 27 patents (WIPO)
9 scientific articles were cited in 10 policy documents (UN)

**Altmetrics**
6900 readers in Mendeley Around the world

Social responsible evaluation
Challenge 2: From the dispersion of academic production data, to the integration of data to generate evidence in research.

Efforts to meet the challenges

- To build a unified database from different sources. (institutional academic sistemas, Scopus Elseviers, researchs resumes and university respository)

- To get training on science evaluation techniques: Bibiometrics, Altimetry and Social Network Analysis.

- To contract professionals in statistics in the Research Vice-Rectory at the National University.
Graphic: Trajectory of the scientific production for the evaluated programmes in the Medicine Veterinary. Period: 1979-2020
Challenge 3: From traditional graphics to data visualization to make decision process.
Network: Collaboration network of the Veterinary Medicine School from contemplating the authors with 5 or more articles. Period: 1979 to 2020.
Graphic: Distribution of scientific production by research lines. Period 2010-2020

- Enfermedades zoonóticas (virales, bacterianas y parasitarias)
- Presencia, prevalencia y distribución de enfermedades
- Evaluación de factores que inciden en la eficiencia técnica de os sistemas de producción animal
- Enfermedades no zoonóticas
- Técnicas de diagnóstico de enfermedades infecciosas (parasitos, virus y bacterias)
- Epidemiología
- Estandarización de técnicas y valores para determinación de función endocrina en animales domésticos y silvestres
- Incremento de la objetividad del diagnóstico y pronóstico de la salud reproductiva de los sementales
- Diagnóstico laboratorial
- Evaluación y control de la brucelosis en función del impacto en la reproducción bovina
- Causalidad en las enfermedades
- Microscopía aplicada
- Medicina de urgencias
- Otra línea
Conclusions

• Research Evaluation is an alternative way to learn how we make science according to the results in the society. Control the process is a way to know about the management of the research programs.

• Research Evaluation challenges evaluators to seek data evidence out of the “streetlight” to cover different beneficiaries of science.

• Research Evaluation requires high data scientist capacities to create evidence from different sources.
Thank you