Content Curation for Information Literacy and Knowledge Management in Research settings

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End-users in research settings

Universities
Hospitals
Research labs
Industry
Trainees and students

Producers and consumers of information

MDs and patients
General audience
OKM : Open Knowledge Management

• Surfing the information wave
• Keeping abreast of information
Published papers, Books, Journals

+ Grey literature: since the 90’s

“Between the extremes of black and white”

- published journals
- books
- professional society conference proceedings
- preprints
- e-prints
- technical reports
- lectures
- numeric data sets
- audiovisual media
- blogs
- fora, etc.

Grey = Deep
Recent Evolutions and Concerns

INFOBESITY

- **Too much** information is killing information...
- **and Knowledge**
  - Surinformation, Pollution informationnelle,
  - Harcèlement textuel
- **Networking**
  - From individuals and communities of interest
  - To (social) networks
Information Literacy (IL) in higher education:

- Society 2020 requires
  - Multi-skilled learners
  - Able to think critically
  - Pose and solve problems
  - Become independent and life long learners

- Postgraduate and PhD students

- OCDE and UNESCO: (MIL) Media and Information Literacy
  Recognize needs of information!!
  Localize information!
  Select information
  Organize information
CURATION for knowledge management

What is curation?

- A recent concept
- Many tools

- **Scoop.it** Vs other tools
- Experiences with Scoop.it in immunology
- Other experiences for
  - Other fields of Research,
  - Science mediation
  - Information literacy
Curation is... gold panning
Or DJ playing

- Selection
  - Aggregation, distillation,
- Commenting
  - Editorialisation
  - Elevation, mashup
- Diffusion
  - Sharing
Curation tools (>50)

- Google news
- Pearltrees, Paper.li, Pinterest, Tumblr, Storify, Sharezy, Flipboard...
- **Scoop.it**
  - A french and californian start-up
  - Various plans (Individual, Education, Business)
  - Growing
Immunology Topics

with colleagues from Portugal, Schweiz, Spain, US, France

- Basic Science, Biotechnologies, BioTherapies
  - Immunology (>6K scoops, >75K visitors, >106K views)
  - From Flow Cytometry to Cytomics (>4K scoops, >21K views)
  - Immunology and Biotherapies (>6K scoops, >17K views)
  - Mucosal Immunity (>3,3K scoops, >10K views)

- Immuno-Pathology
  - Autoimmunity, (>2,8K scoops, >8,5K views)
  - Allergy and clinical immunology
Other Immunology projects using Scoop.it

• Industry Consultant
  – K Maggon Immunotherapies
    Biotherapies 10 topics!

• Teachers, researchers and students
  – MdC Nancy Immune monitoring
  – RC NY USA Diabetes
  – JL USA Complement and PNH 10 topics
  – XW China ENT
  – MH Nancy allergie alimentaire
  – Master students

» Vs resources using other curation tools: Pinterest, Tumblr, PaperLi, Flipboard
Finding information
Focused or serendipitous

Building and enrichment of content hubs

- **Traditional searching** (Pubmed, Google scholar)
- **Crawling of internet**, personalized +++
  - Sources: Published Journals,
  - Websites, Blogs, Press releases
  - Social networks (Twitter, Linkedin, Facebook..) Research social networks (Researchgate..)
- **Curating when browsing** (Use of applet)
- **Reposting** of scoops (from followed topics)
- **Creation** of scoops + publishing (Slideshare)
Sharing and retrieving

OPEN and actualized webmagazine

Tagged, commented, discussed

Attractive (pictures)

Rediffused on other networks (Twitter, Linkedin (25) Facebook, Google+

Via e-mails, newsletters

Are Searchable for retrieving
Benefits for teachers and researchers end-users

(1) *Keeping abreast* of scientific (and societal) information for individual continuous education and *e-learning*

(2) **Building leadership** in a dedicated field

(3) Joining a network of specialists and **communities of interest**

(4) Open serendipitous research fields
Benefits for students and trainees end-users

1. Building personal content hubs for their master and PhD training projects
2. Becoming information literate and able to surf the information wave
3. Becoming information literate for future life long learning in universities, research centers or industry
Opportunities in training

New ways of teaching: **Flipped learning**

Help students master information techniques; **learning by reading**

Stimulating **curiosity** in a field and adjacent areas
Challenges

Human dependency for curation

A « day to day » duty for scientists and researchers like « walking the dog »

Permanence of tools

Individualism of researchers

Reluctance to share
Summary

• Probably the best curation tool on the web for serious information
  – Crawling engine and enrichment capacities

• A virtual dedicated scientific news webmagazine and content Hub

• easy to browse, and attractive
  – For information literacy and curiosity
  – The Search engine inside is a major asset

• The human factor of curation is the added value compared to algorithms: selection, editorialism

• And also the limit, requiring everyday work
Disclaimer
once upon a time...

Europe SCICOM meetings
Paris MRES Comité stratégique IST
UHP Nancy 1 Chargé de mission DOC
AUF: ASSIM: maître toile
(http://www.assim.refer.org)

http://www.scoop.it/u/gilbertcfaure
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