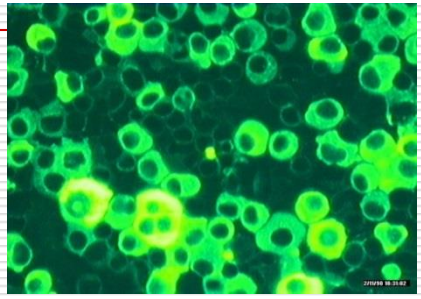
Content Curation for Information Literacy and Knowledge Management in Research settings

St Malo Sept 2017

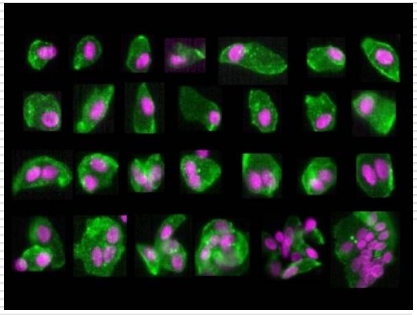


GC Faure

MD, PhD

Prof Immunology

Université Lorraine



NANCYTOMIQUE

End-users in research settings

Universities

Hospitals

Research labs

Industry

Trainees and students

Producers and consumers of information

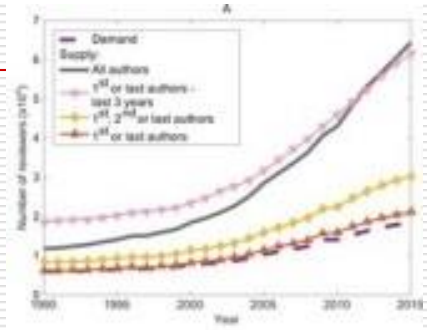
MDs and patients

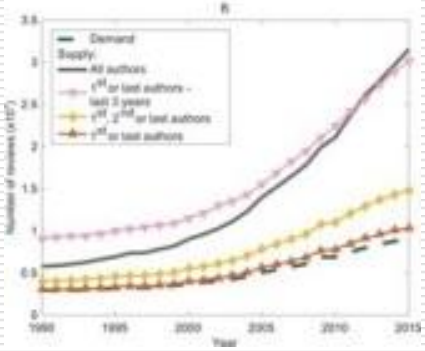
General audience

OKM : Open Knowledge Management

- Surfing the information wave
- Keeping abreast of information

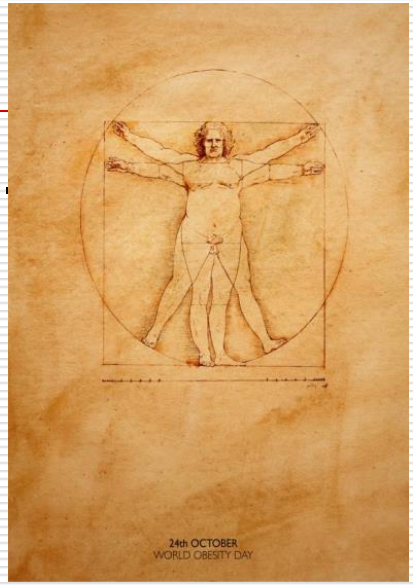
Published papers, Books, Journals



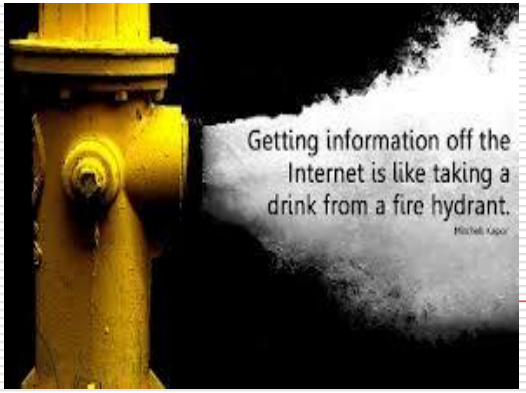


+ Grey literature: since the 90's

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:

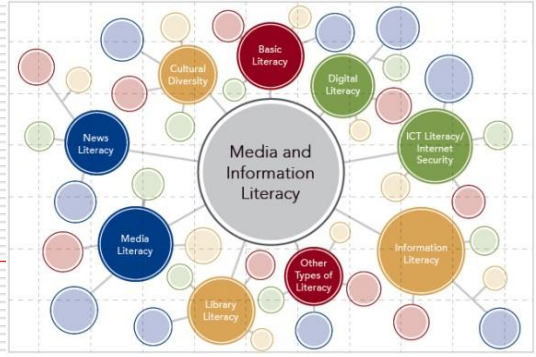
- Society 2020 requires
  - Multi-skilled learners
  - Able to think critically
  - Pose and solve problems
  - Become independent and life long learners
- Postgraduate and PhD students
- OCDE and UNESCO: (MIL) Media and Information Literacy

Recognize needs of information!!

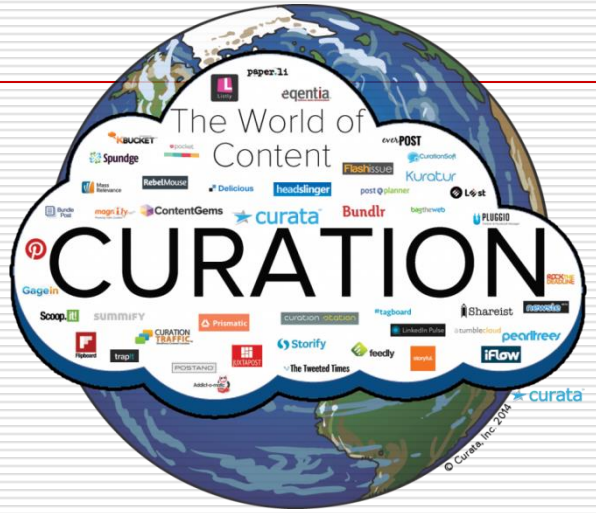
Localize information!

Select information

Organize information



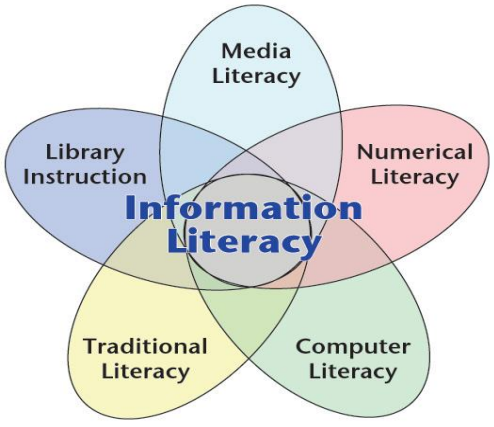
CURATION for knowledge management



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

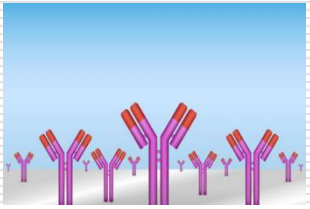
- Selection
  - Agregation, distillation,
- Commenting
  - Editorialisation
  - Elevation, mashup
- Diffusion
  - Sharing

Curation tools (>50)

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

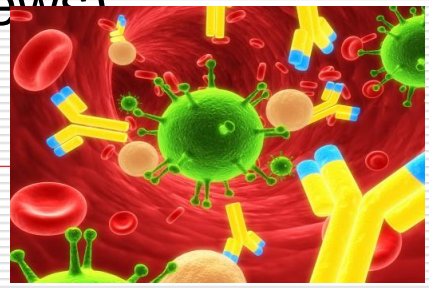
Immunology Topics

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

John Lambris

» *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

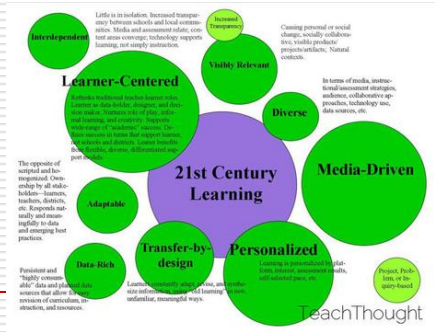
Benefits for students and trainees end-users

(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 universites 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

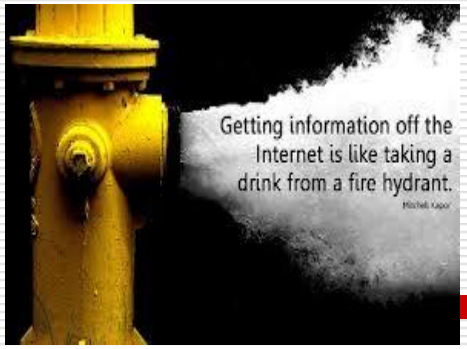
Human dependency for curation

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

No conflict of interest to declare