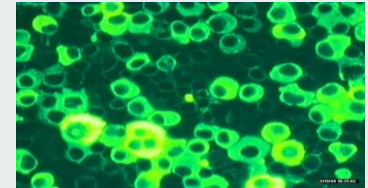
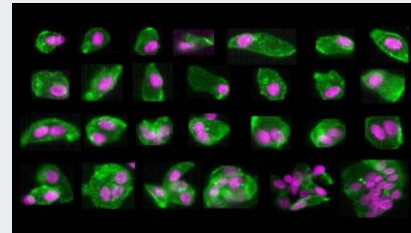




# Content Curation for Knowledge Management and Information Literacy

FAURE Gilbert MD, PhD  
Immunology  
Université Lorraine, Nancy, France



# End-users in research settings

● Universities

● Research labs

● Industry

● Hospitals

● *Producers and consumers of information: Teachers, students and trainees.*

● MDs and patients

● General audience



# Overview

## ~~é~~crire

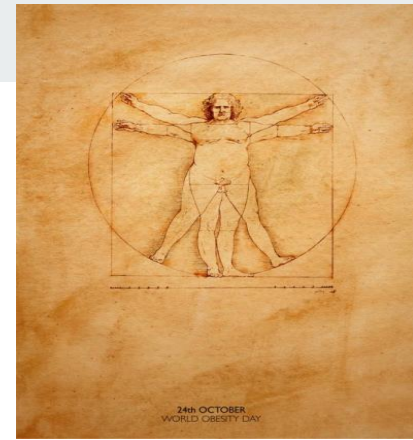
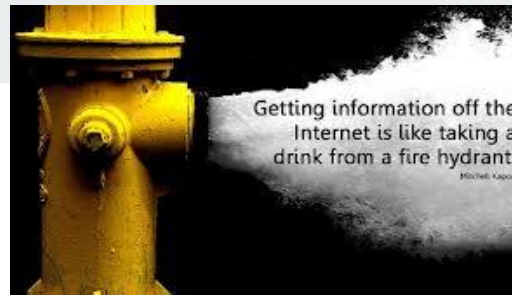
- Context = Infobesity
- From Knowledge Management to Information Literacy
- Trainees and PhD students : Europe, OCDE, UNESCO (MIL)
- Curation: What is it? Tools, Scoop.it
- Immunology and related topics : myself and others
- Others Biology topics
- Benefits and Challenges

*apprendre à lire et à*



# INFOBESITY

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- **Too much** information is killing information...
- and **Knowledge**

Surinformation, Pollution informationnelle, Harcèlement textuel

## • **Networking**

- From individuals and communities of interest
- To (social) networks

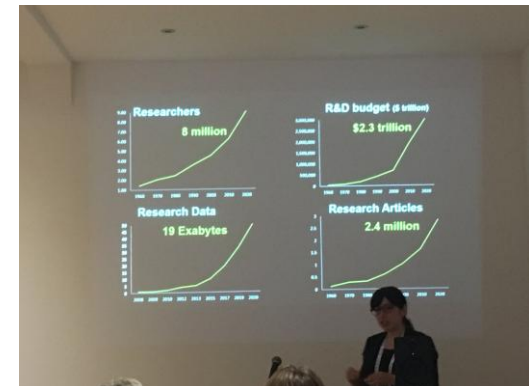


# OKM : Open Knowledge Management

- Surfing the information wave
- Keeping abreast of information

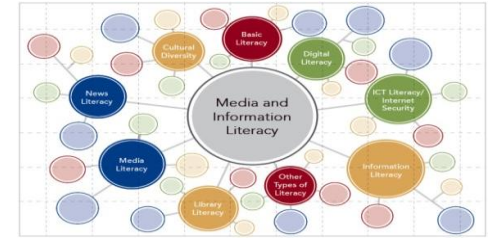


Published papers, Books, Journals + « Grey » literature:



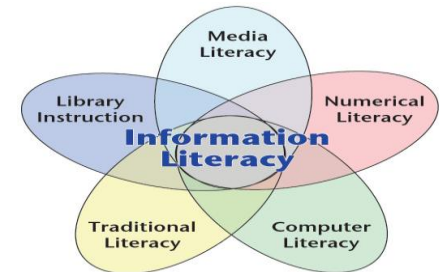
# Information Literacy (IL) in higher education

- For Postgraduate and PhD students
- **Society 2020** requires
  - Multi-skilled learners, able to think critically, to pose and solve problems
  - Become independent and life long learners



## • OCDE and UNESCO: (MIL) Media and Information Literacy

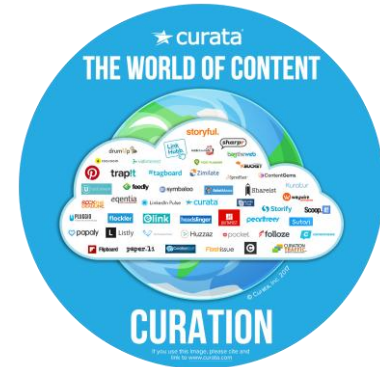
- Recognize needs of information!!
- Localize, select, organize information!



# CURATION for knowledge management

- What is curation?

A recent concept and Many Tools



- Scoop.it Vs other Tools





# Curation is... « gold panning » or « DJ playing »

## or « hunting and gathering »?

- Selecting. Agregation, distillation,
- Commenting
- Elevating : editorialisation, mash-up
- Sharing





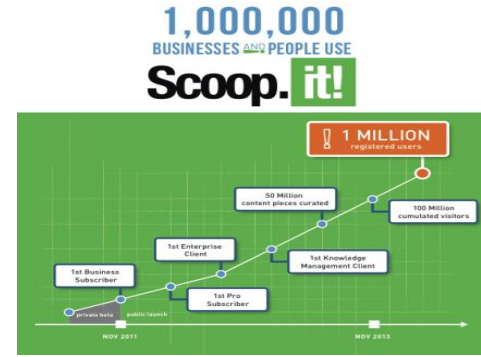
# Curation tools (>50)

- Google news
- Pearltrees, Paper.li, Pinterest, Tumblr, Storify, Sharezy, Flipboard...



## Scoop.it!

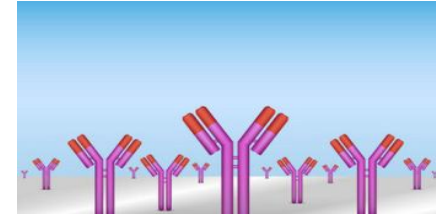
- A french and californian start-up
- Various plans (Individual, Education, Business)



# 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 Clin Immunology



# Other Immunology topics using Scoop.it

• Industry Consultant: K Maggon Immunotherapies & Biotherapies  
10 topics!



• Teachers, researchers and students

– **M de Carvalho Nancy Immune monitoring**

– **R Creusot NY USA Diabetes**



– J Lambris USA Complement and PNH (10)



John Lambris

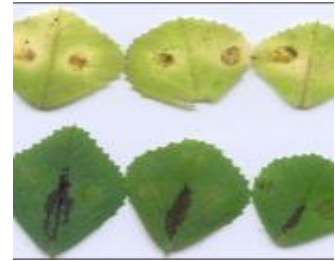
– *X Wu China ENT* and some Master students

# Other Life Sciences active topics

- Chris Upton + **Helpers** U.Victoria
  - Virology and bioinformatics 97K views
  - Next Generation sequencing 5,6k
- C.Jacquet, IPM Lab Toulouse 101K: *Plants immunity, pathogens...*
- Institut Pasteur de Tunis 17K

Ed Rybicki @edrybicki  
Ken Yaw Agyeman-Badu @Kenzibit  
Rebecca Kressman @thebodyhorrors  
Jeff Habig @jhabig  
Ben Hetman @ben\_hetman  
Linda O'Reilly @linda07009  
R. Burke Squires @burkesquires  
Naomi Osborne @Naomi\_Osborne\_  
David Loiret @david\_loiret  
Marion Koopmans @MarionKoopmans  
Hannah Davis @Hannah  
Jung Choi @jung\_gt

Julia Paoli  
Chad Smithson  
Nick Tang  
Alice Gibbons



معهد باستور  
Institut تونس  
Pasteur de Tunis

# 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)

# Curating information

- Title
- Illustration
- comments
- Tags

## THE ART of a CURATED POST

What should a piece of curated content look like?  
Paint the perfect post by including these five elements ...

- 1 New Title**  
Always create a headline that is different than the article you are curating.
- 2 New Image**  
To add originality and avoid copyright issues, create a new image for your post.
- 3 Body Text**  
Include a link to the original article, attribution of the author and your own commentary.
- 4 Quote**  
Draw in an interesting and useful quote from the original article.
- 5 Call-to-action**  
Provide readers with an additional resource to expand their knowledge on the topic.

Download our eBook today!

★ curata

If you use this graphic or framework, please cite and link to [www.curata.com](http://www.curata.com).

# Sharing .... and Retrieving

- OPEN and actualized webmagazine

- Tagged, commented, discussed

- Attractive (pictures)

- Diffusion on other networks (Twitter, LinkedIn (25) Facebook, Google+ ...

- Via e-mails, newsletters

- Are Searchable for retrieving





# Benefits for teachers and researchers end-users

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(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

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(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** **either** in universities, research centers or industry

# Apollo Research Institute Future Workskills 2020 study



- *Skills a student employs to successfully curate information include:*
- **curiosity**, media literacy, ability to make connections across disciplines,
- **information literacy**, the ability to evaluate and understand perspective, synthesize and evaluate information,
- **and a good dose of self-direction.**



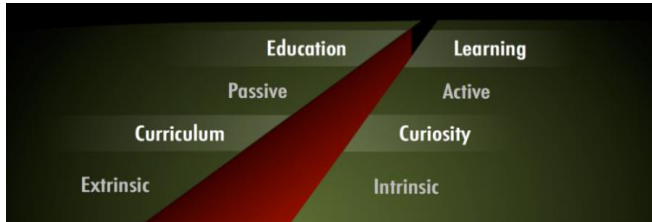
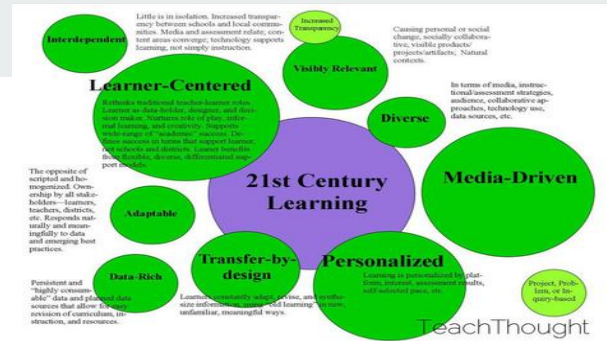
- **To pursue a career in scientific research, the 6Cs :** *Curiosity, courage, challenges, continuation, concentration and confidence*
- **Curiosity is the most important (Honjo)**

# Opportunities for curation 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 of curation

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- **Human dependency** for curation

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

- **Permanence** of tools

- **Individualism** of researchers



## 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, curiosity and serendipity
  - « Search engine inside » is a major asset to retrieve information
- The **human factor of curation** is the **added value** compared to algorithms: selection, editorialism, but also ***the limit***, requiring everyday work



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

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