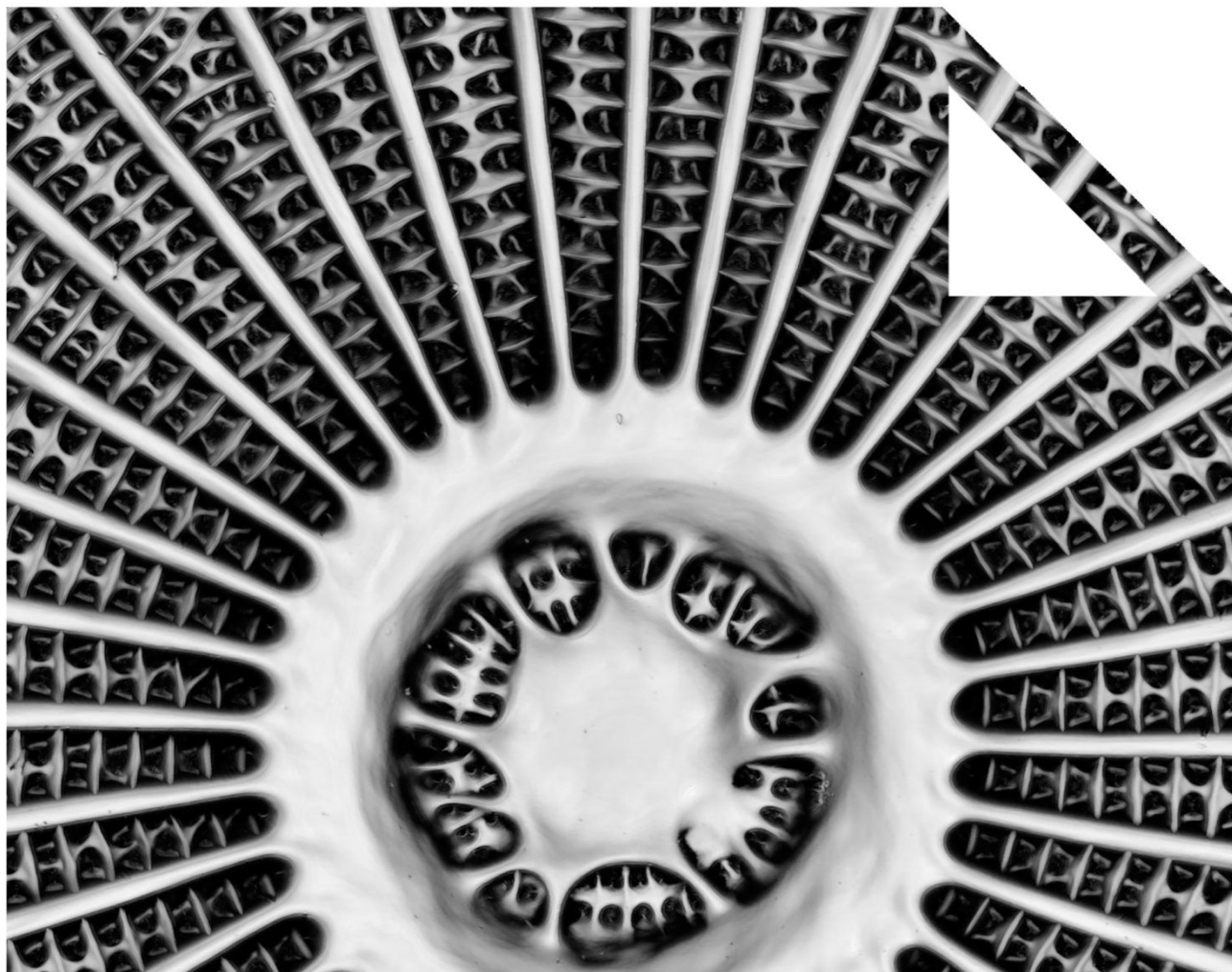


# 2015 Annual Report



## **Life sciences & technology [SV]**

### **Services & Collections**

by Pierre Devaud



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<p><b>Master + Bachelor Students Trainings</b></p> <p><b>PhD Students Seminars (modules)</b></p>	 <p><b>Scientific information</b> How to search, manage, use &amp; communicate</p>	<p><b>Scientists Trainings</b></p>
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## 1. INTRODUCTION BY LIAISON LIBRARIAN



I am pleased to share this life sciences annual report of the "Bibliothèque de l'EPFL" with you. This annual report aims to establish an overview of the services offered to and activities performed for EPFL School of Life Sciences (SV) members and students by the library in 2015. It also constitutes an inventory, as at 31 December 2015, of the life sciences documentary collections available at the library.

As this report demonstrates, in 2015 the library offers a great deal of services to and represents a great information resource for SV members and students. Yet, alongside traditional services such as collection development or information literacy trainings (i.e how to search, manage, use and communicate scientific information), more research-oriented services dealing with scholarly communication issues (e.g. open-access publishing, research data management, text & data mining, copyrights) are developed. This year, two services related to the rapid changes of scholarly communication currently underway are growing in importance:

Publish support ([publish-support.bib@epfl.ch](mailto:publish-support.bib@epfl.ch))

Unsustainable business models led by some scientific publishers offer the library the opportunity to promote open-access, sustainable and peer-reviewed publishing. With this service, the library intends to assist EPFL scientists in need of help with their publishing efforts and their understanding of new scholarly communication practices.

Data Management Plan ([datamanagementplan@epfl.ch](mailto:datamanagementplan@epfl.ch))

With the strong emergence of data management requirements imposed on scientists by funders and publishers, the need to assist EPFL scientists facing Research Data Management Plan (DMP) arises. With this service, the library intends to support EPFL scientists in need of help to adapt their fundraising practices to new data management requirements.

The success of these services in 2015 clearly demonstrates that they respond to a growing need among SV members. They show that the need for more research-oriented library services exists among scientists and that they are willing to consider the library as a partner when it comes to helping them with research issues such as publishing or fundraising.

More generally, I thank all my librarian colleagues for contributing to another successful year. I would also like to extend my thanks to Dr Harald Hirling, Deputy of SV Dean and SV representative to the "Commission de la Bibliothèque (COB)", for his precious collaboration and his availability. And we could not reach our goals without the contributions of all SV members and students, to whom I also extend my sincere thanks.

Pierre Devaud

## 2. ACADEMIC SUPPORT AND SERVICES ...

In 2015, the library offers the following services and support to the SV members and students.

## ... To HIGHER EDUCATION/HIGHER EDUCATION SERVICES

### **Introducing the library services and information literacy trainings**

The following trainings and presentations are given by the library to the Life Sciences and Technologies [STV] Bachelor/Master students.

<p><b>"Semaine d'intégration – AGEPoly</b> [BA– Sept. 2015]</p> <p>A presentation given to Bachelor students (coming from all EPFL sections).</p> <p><i>Topics discussed:</i> discovery of the library and its services available to students.</p> <p><i>Type:</i> face-to-face session + video<sup>1</sup>.</p>	100 stud.	1h20min.
<p><b>"Métier d'étudiant"</b> [BA – Sept. 2015]</p> <p>2 presentations and 2 orienteering sessions given to Bachelor students (coming from all EPFL sections).</p> <p><i>Topics discussed:</i> discovery of the library and its services available to students.</p> <p><i>Type:</i> face-to-face session.</p>	320 stud.	2 x 5h (10h)
<p><b>"Journée d'accueil nouveaux étudiants"</b> [BA – Sept. 2015]</p> <p>A presentation given to STV Bachelor students.</p> <p><i>Topics discussed:</i> discovery of the library and its services available to students.</p> <p><i>Type:</i> face-to-face session.</p>	220 stud.	20min.
<p><b>"Enjeux Mondiaux"</b> [BA – Feb. to May 2015]</p> <p>A series of 5 training sessions and 6 practical exercise sessions to Bachelor students (coming from all EPFL sections).</p> <p><i>Topics discussed:</i> Information retrieval (tools, type of documents, citation, reference tools).</p> <p><i>Type:</i> face-to-face sessions.</p>	1'552 stud.	12 x 90min. (18h)
<p><b>International Day</b> [MA – Sept. 2015]</p> <p>A presentation (and a visit) given to international Master students (coming from all EPFL sections).</p> <p><i>Topics discussed:</i> discovery of the library and its services available to students.</p> <p><i>Type:</i> face-to-face session.</p>	320 stud.,	6h40min.
<p><b>"Journée d'accueil nouveaux étudiants"</b> [MA – Sept. 2015]</p> <p>A presentation given to STV Master students.</p> <p><i>Topics discussed:</i> discovery of the library and its services available to students.</p> <p><i>Type:</i> face-to-face session.</p>	28 stud.	20min.
<p><b>Scientific thinking courses</b> [MA – Sept. 2015]</p> <p>A training session given to STV Master students (students following the Master in Life Sciences and Technologies).</p> <p><i>Topics discussed:</i> information retrieval, scientific communication, reference manager, PubMed.</p> <p><i>Type:</i> face-to-face session.</p>	44 stud.	90min.
<p><b>Scientific literature analysis in Bioengineering</b> [MA – Sept. 2015]</p> <p>A training session given to STV Master students (students following the Scientific literature analysis in Bioengineering course).</p> <p><i>Topics discussed:</i> information retrieval, scientific communication, reference manager, Web of Science, PubMed.</p> <p><i>Type:</i> face-to-face session.</p>	9 stud.	2h45min.

**Table 1:** Trainings and presentations given by the library to STV Bachelor/Master students in 2015.

<sup>1</sup> <https://youtu.be/-HN96t6W87E>

Efforts to develop information literacy trainings for STV Bachelor/Master students will continue in 2016. Among other things, the library plans on offering more systematic trainings to STV Master students in collaboration with the STV section. Aside from these developments, the library will keep on introducing itself to new STV Bachelor/Master students during the welcome week activities in September 2016.

### Teaching Collection development

Every year, printed books are added to the Teaching Collection according to references found in the course booklets updated by EPFL teachers. It is the collection every STV Master/Bachelor students should intensely browse, search and use during their ongoing studies. Most printed book mentioned in course booklets is to be found in this collection in multiple items.

### ... To PHD STUDENTS

The Library offers trainings to junior researchers in order to help them master advanced searching in specialised resources, understand the process of scientific publishing and reuse articles in their thesis without risking plagiarism.

These trainings have been given by the library for several years but following the interviews and quizzes carried out in 2014 [with students of the EPFL PhD programs in Neuroscience and in Molecular Life Sciences], they have been improved and reorganized into more numerous modules in order to better take into account the PhD students information literacy needs revealed by the survey.

Important findings of the survey were:

- # Students have weaknesses in terms of information literacy (i.e in advanced search and citation practices) but are barely conscious of their underlying needs.
- # Credits [allotted to a course/module/group of courses] do not play a crucial role in courses assessment by students [students select courses according to the content and not to its number of credits].
- # In order to attract students, information literacy trainings must be condensed (not to last over an entire semester but rather a day or half a day), effective and develop innovative subjects.

<b>Module 1: Stay tuned! Being up-to-date with your research topic</b> (March, June and Oct. 2015)	76 PhD stud.	4 x 240min. [16h]
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4 training sessions given to PhD students (coming from all EPFL doctoral schools).

*Topics discussed:* Various questions relating to the search for scientific information are addressed: define a question and translate it into machine language, identify relevant sources, set up a watch in his field of study, use a bibliographic management tool. Practical exercises punctuate the session and allow the PhD students to practice the acquired skills on their thesis topic.

*Type:* face-to-face session.

<b>Module 2: Empower your writing process</b> (March and Nov. 2015)	18 PhD stud.	2 x 240min. [8h]
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*Topics discussed:* This practice-oriented module deals with the scientific writing process. We address aspects such as copyright, collaborative work and publication visibility. Please note that structured writing and the use of scientific English are not addressed in this course.

*Type:* face-to-face session.

**Table 2:** Trainings given by the library to SV PhD students in 2015.

These trainings will be again offered in 2016 with more modules to be added such as:

- # Module 3: Smart publishing
- # Module 4: Research data
- # Module A: Advanced use of Zotero

In addition to those modules, the library also briefly presents its services and collections to SV PhD students:

<b>Event newly enrolled doctoral students</b> (May and Sept. 2015) 2 presentations given to PhD students (coming from all EPFL doctoral schools). <i>Topics discussed:</i> discovery of the library and its services available to students. <i>Type:</i> face-to-face session.	150 PhD stud.	2 x 5min. [20min.]
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**Table 3:** Presentations given by the library to SV PhD students in 2015.

### ... To SV MEMBERS AND LABORATORIES

#### **Information Literacy and Scholar Communication**

The following presentations are given by the library to SV members:

<b>iThenticate</b> (Jan. and Feb. 2015) 2 presentations given to EPFL members. <i>Topics discussed:</i> presentation of one of the anti-plagiarism tools used by EPFL. <i>Type:</i> face-to-face session.	27 collab.	2 x 90min. [3h]
<b>UniProt</b> (June 2015) 1 training session with practical exercises given to EPFL members. <i>Topics discussed:</i> basic theoretical and practical knowledge on protein sequence databases, different manual and automated annotation pipelines and optimum use of UniProt. <i>Type:</i> face-to-face session.	22 collab.	5h

**Table 4:** Presentations given by the library to SV members in 2015.

In addition, the library organizes a series of workshops<sup>1</sup> on the Open Science topic (Nov. 2015) which is followed by 71 people:

- # Reproducible Research using IPython.
- # Open-access Publication: the Good, the Bad and the Ugly.
- # DMP Online.
- # Data/Text mining.

In 2016, the library will try to develop its biological database training offer. According to the evaluation forms received following the UniProt training session, biological database trainings would be appreciated by SV scientists. Therefore, in collaboration with the SV Deanship, some SV Core Facilities and the Swiss Institute of Bioinformatics (SIB), the library will conduct a survey to better evaluate the biological database training needs among SV scientists.

<sup>1</sup> <http://library.epfl.ch/open-sciences-workshops>

Aside from these biological database trainings, the library will also start some "Noon Talks – have a break with information specialists". These lunch talks that will take place several times a year, will give the opportunity to scientists to meet around different issues generally in connection with scholar communication.

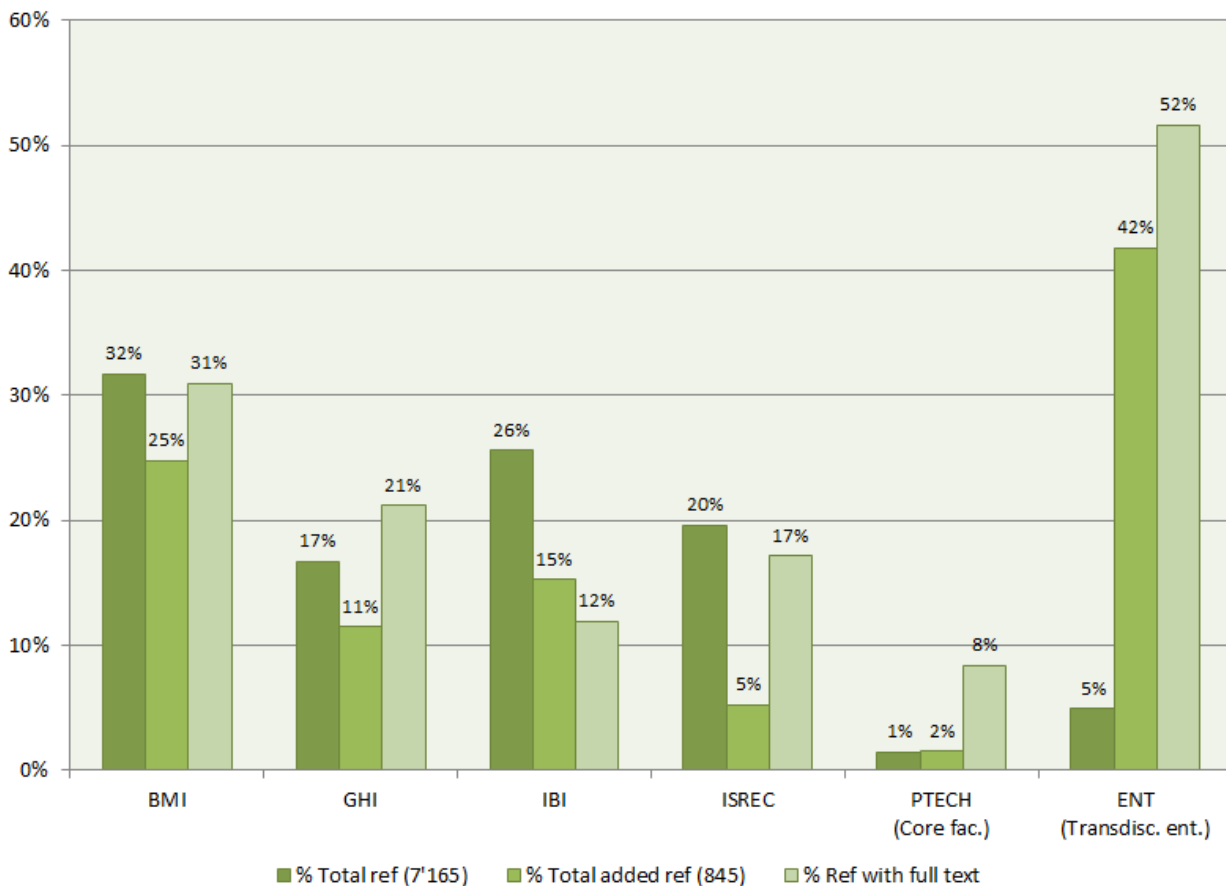
**Infoscience (Institutional Archive)**

The library offers its Infoscience<sup>1</sup> developing and support services to **62 SV laboratories or core facilities** using this institutional archive. Among those 62 units, 7 are joining Infoscience in 2015 and 3 have their Infoscience account archived (laboratories leaving EPFL).

In 2015, the active laboratories or core facilities add **845 references** to Infoscience. That brings the total number of references belonging to SV laboratories or core facilities in Infoscience to 7'165 as at 31<sup>st</sup> December 2015.

It is interesting to note that only 22% (+ 4% compared to 2014) of these references have an associated full text freely accessible [Gold or Green open-access]. This poor percentage demonstrates this year again that Green open-access [self-archiving practice authorized by numerous publishers] is still little-known among SV members and that the library should continue its communication efforts about open-access best practices.

Grouped by institute, the 2015 Infoscience activity of SV laboratories and core facilities can be summed up as follows [see appendices for more details]:

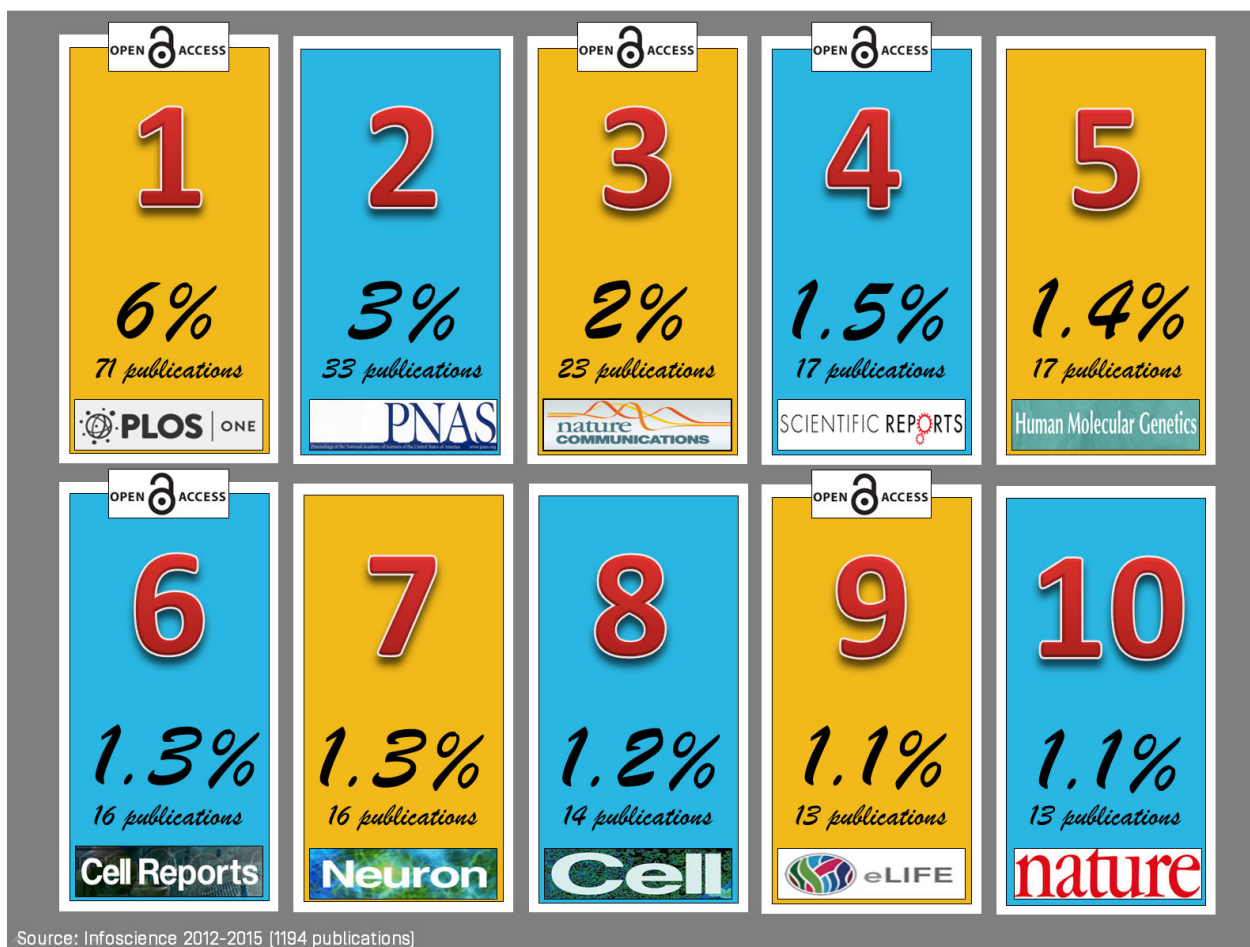


**Figure 1:** References and full texts of SV laboratories and core facilities in Infoscience.

<sup>1</sup> <https://infoscience.epfl.ch/?ln=en>



Based on Infoscience data, the top 10 journals in which SV scientists publish the most are:



**Figure 2:** Top 10 journals in which SV scientists publish the most according to Infoscience.

### **Open-access (OA)**

#### *Pilot Project for FP7-funded projects*

In June 2015, the European Commission has launched a Pilot Project for FP7-funded projects (finished no longer than two years) to support Gold OA publications. A maximum of three publications per project are funded with a maximum of €2,000 for each research article, book chapter and conference proceeding, and €6,000 for each monograph. This project will run until the funding is used up (€ 4M) but for no longer than two years (until the end of April 2017).

#### **Pilot project OA Funding @EPFL**

The Academic Direction session endorsed the draft submitted by the Library for support to Gold OA publishing on Nov. 2015. EPFL scientists will therefore be able to obtain financial support from the library to publish in OA, subject to certain terms. A wide communication will be prepared, in particular in cooperation with the EPFL Research Office.

This pilot project<sup>1</sup> provides financial resources to support EPFL researchers who need or wish to publish their articles in Gold OA.

<sup>1</sup> <http://library.epfl.ch/open-access/en>

Basic principles are:

- # Support only to authors unable to finance the APCs from a research fund.
- # No co-financing for publication in hybrid journals, except in the case of specific agreements negotiated with the publishers.
- # Library's contribution: max. CHF 2,500 per publication.
- # On a "first come first served" basis.

For more information on OA @EPFL, please contact: [publish-support.bib@epfl.ch](mailto:publish-support.bib@epfl.ch)

#### *Pilot project Gold OA deposit*

Beginning in December 2015, the library launches a new pilot project to support and encourage Gold OA within the SV community. For a year, the publisher's version (full text) of all articles published in a selection of 10 Gold OA journals (Gold OA journals in which the SV scientists have published the most between 2013 and 2015 according to Infoscience) is systematically added by the library to its corresponding Infoscience reference.

# PLoS One	# PLoS Genetics
# Cell Reports	# Journal of Clinical Investigation
# Nature Communications	# Frontiers in Psychology
# Scientific Reports	# Nucleic Acids Research
# Elife	# EMBO Molecular Medicine

**Table 5:** Gold OA journals selected for the Gold OA deposit pilot project.

Efforts to promote open-access at EPFL will be enhanced in 2016. Following the pilot projects, decision to continue or not these services will be taken according to the success encountered and the amount of work they require to be effective.

### **Research Data Management**

@EPFL

Further to the decision made during the EPFL Steering Committee Meeting (Jan 2015), a Research Data Management (RDM) support service was set up early in 2015. It is aimed at providing assistance to researchers in the management of their data. This service builds up on collaborations between the Research Office the VPSI and the library and it offers:

- # Basic information for researchers and PhD candidates about Data Management Plan (DMP – their structure, purpose and use).
- # Support to research teams and project managers based on customized resources and materials (good practices, how to write the data management section of a grant proposals, how to build a DMP, how to use guidelines).
- # Training sessions organized by the "service de Formation du Personnel" (SFP, customized training sessions for research teams and a dedicated module will be integrated to the Phd Seminar<sup>1</sup>).

<sup>1</sup> <http://library.epfl.ch/training-phd>

In 2015, several SV members contact the DMP support service. In addition, the following training sessions are given:

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<b>Optimizing your research data management</b> [Sept. and Dec. 2015] 2 training sessions with practical exercises given to EPFL members. <i>Topics discussed:</i> how to manage and organize research data to guarantee the quality, durability and reproducibility of data over time. <i>Type:</i> face-to-face session.	18 collab.	2 x 360min. [12h]
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**Table 6:** DMP training sessions given by the library to SV members in 2015.

More DMP training sessions are already planned for 2016 and the RDM personalized assistance will remain available to all SV members.

#### *The library contributes to the Data Life Cycle Management National Project*

The library is among the leading contributors to the Data Life Cycle Management (DLCM) National Project submitted on Feb. 2015. It was granted a Swissuniversities funding in June 2015. Among the deliverables of this project a national portal on DLCM is to be built, providing access to key tools, guidelines and training services designed to help the Swiss Research Community in their data management tasks.

For more information on Research Data Management, please contact: [datamanagementplan@epfl.ch](mailto:datamanagementplan@epfl.ch)

#### **ORCID**

At the end of 2015, the library decides to subscribe to a Premium Membership with ORCID (an open and non-profit organisation providing unique researcher identifiers) in 2016. This subscription will allow the library to develop potential new services for SV members allowing them to:

- # Meet publishers' and funding agencies' requirements
- # Ensure that their works are properly attributed (impact, visibility, open-access compliance)
- # Save time during submission (manuscripts and grants) and peer-reviewing activities
- # Reduce the intellectual property fraud
- # Avoid different sign-in credentials (editorial manager systems, manuscript submission systems)
- # Keep track of publication history independently of the institution they belong to

#### **... To CAMPUS BIOTECH**

Reflections and thinking regarding the access to the library services and collections by SV members located in the Campus Biotech (Geneva) are still ongoing. Yet, the temporary situation found in collaboration with the Campus Biotech administrator seems to satisfy most of SV members located there given that the library haven't received any particular request from them since their moving.

### **3. LIBRARY BUDGET IN THE FIELD OF LIFE SCIENCES**

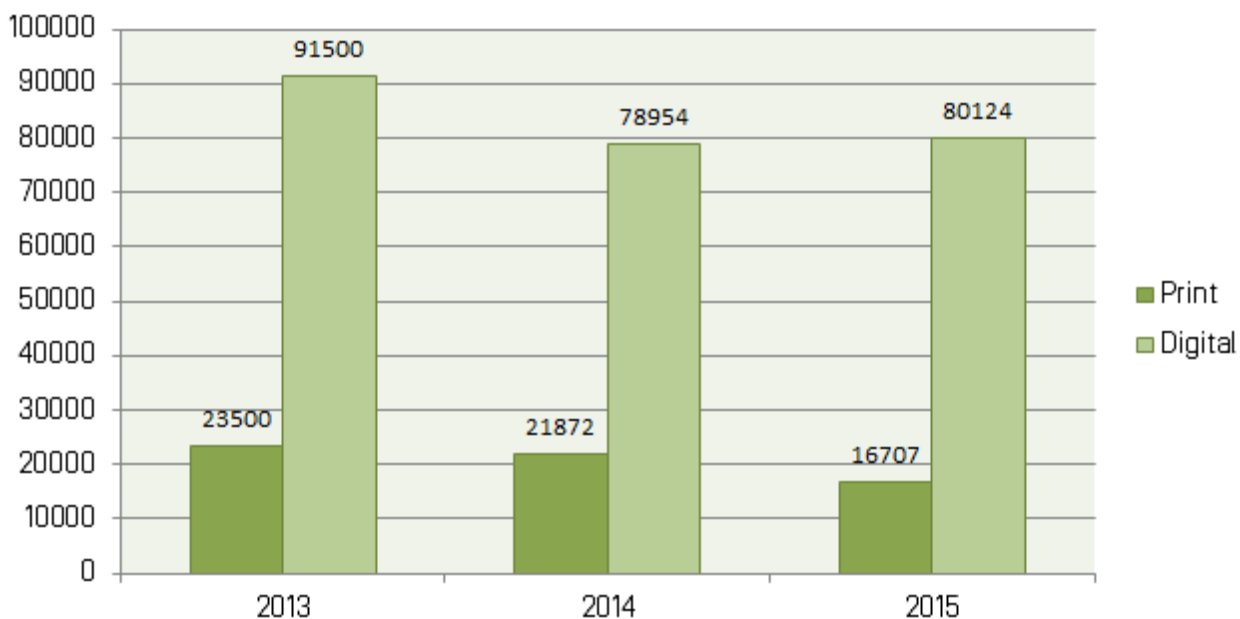
#### **PURCHASES**

The 2015 library budget for the purchase of life sciences resources is set to 98'000CHF.

This amount is fully dedicated to purchases (no subscription) and covers all life sciences collections (research collection, teaching collection and collection of popular scientific works). It is used to buy books, e-books and journals or series backfiles. The liaison librarian in life sciences freely uses this budget to buy the resources he selects according to the life sciences lines of research developed at EPFL.

As at 31<sup>st</sup> December 2015, the library expenditures for the purchases of life sciences resources amounts to **CHF 96'831** distributed as such:

- # **CHF 16'707** for the printed material (17%)
- # **CHF 80'124** for the digital materials (83%)



**Figure 3:** Comparison of the print and digital expenditures (2013 to 2015).

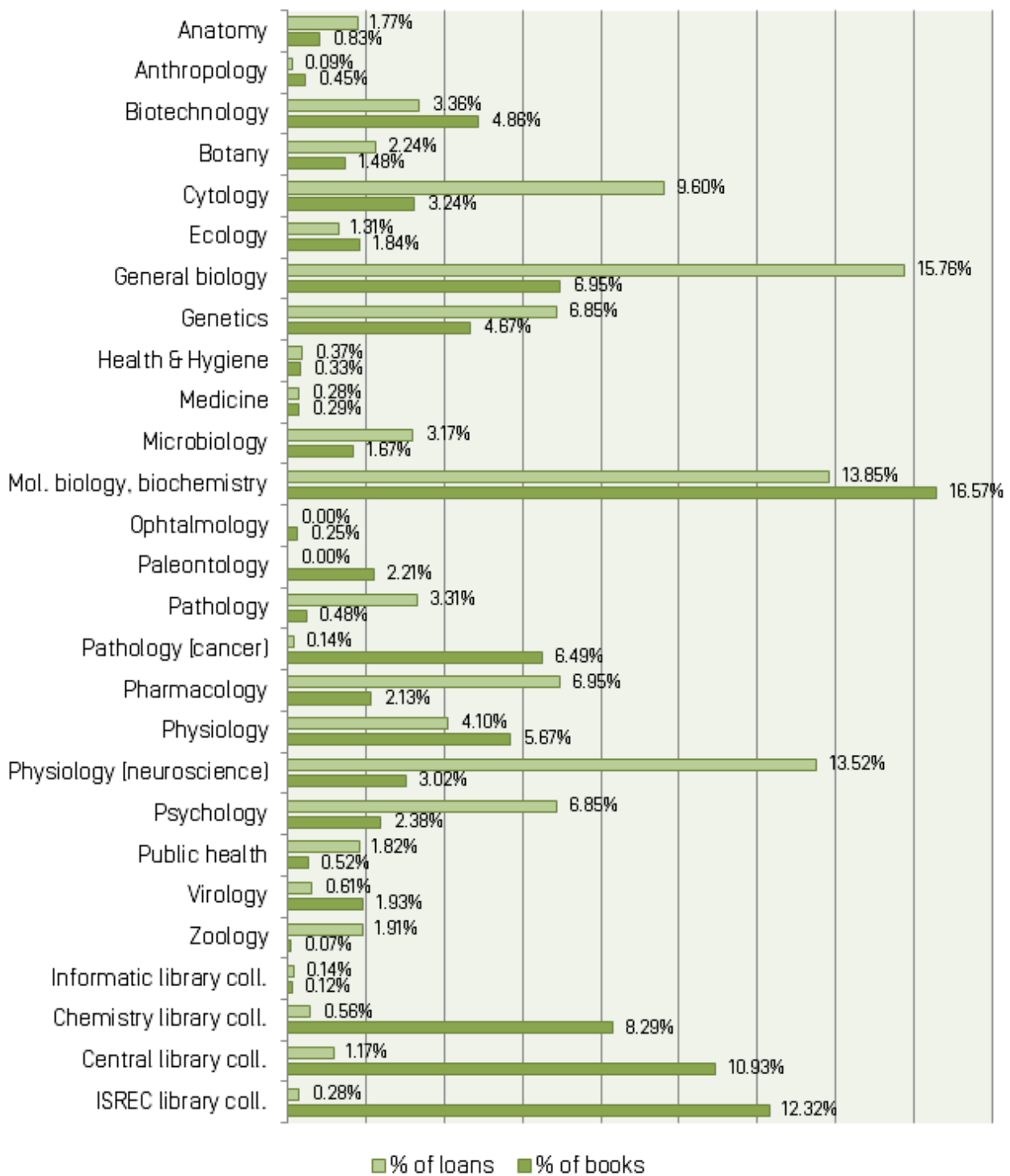
## SUBSCRIPTIONS

In the current organization of the library, subscriptions are centrally managed regardless of the scientific domains covered by the subscribed resources. It is therefore very difficult to detail subscription budgets and expenditures related to life sciences in this report.

It must be emphasised that in contrast to procedures applied for purchases, subscription procedures do require the liaison librarian to systematically consult the SV representative (to the COB) before accepting any new subscription.

## 4. LIFE SCIENCES COLLECTIONS: CONTENT AND USAGE

The existing life sciences collections of the library have developed from collections that belonged to the Bibliothèque Centrale de l'EPFL and the Swiss Institute for Experimental Cancer Research (ISREC) library. They are composed of books (printed or digital), scientific journals (printed or digital), databases and digital protocols. As of today, the only trace of these historical collections is to be found in the printed book collection which includes two stacks in the basement (compactus): Central library and ISREC library collections.

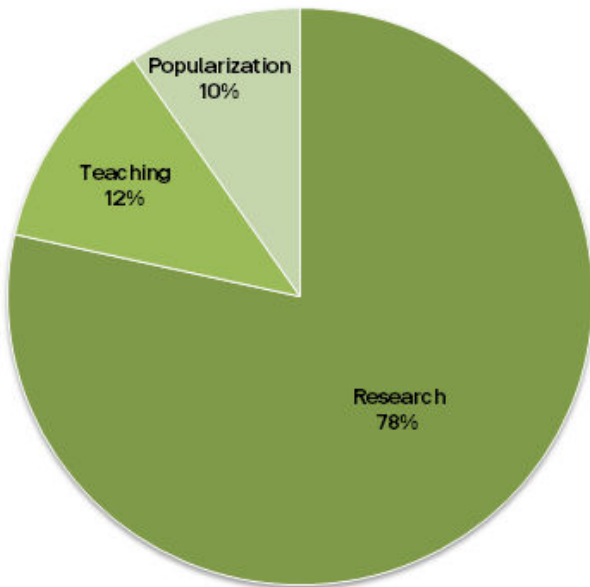


**Figure 4:** Books and their loans distributed by subject [to be noticed: the Informatics, chemistry, Central and ISREC library collections are using different classification systems that prevent their integration in the subject classification].

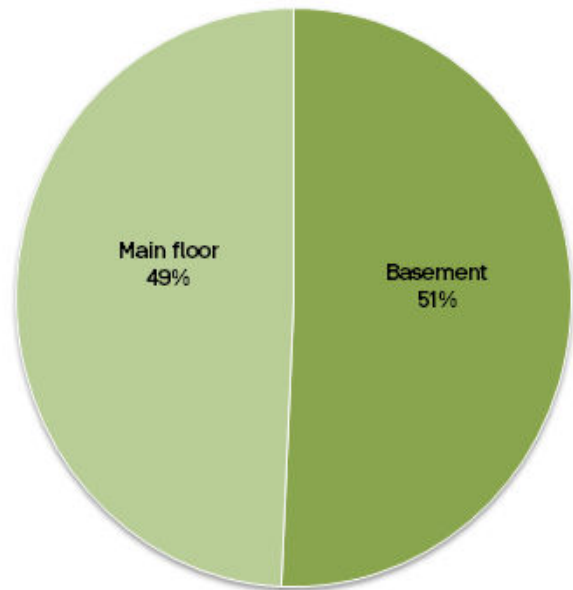
### PRINTED BOOKS

As at 31st December 2015, the library offers **6'890 printed books** (- 955 compared to 31<sup>st</sup> December 2014) related to life sciences. Those books have generated a number of **2'145 loans** in 2015 (+ 140 compared to 2014).

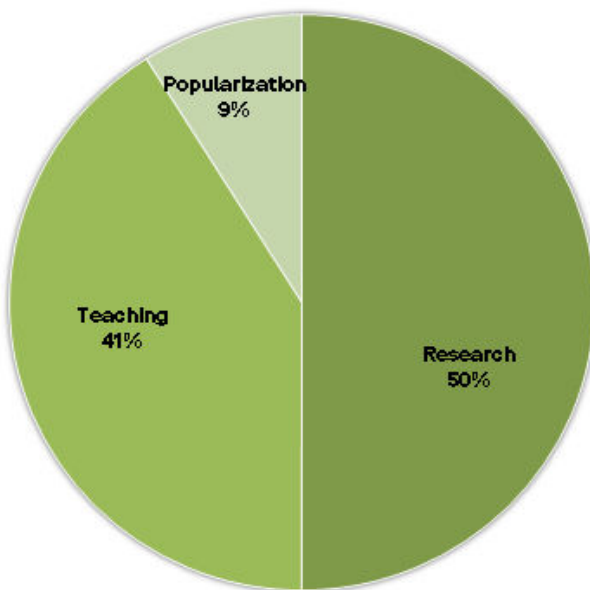
The item and loan distributions of these books by subject, knowledge level and localisation are as shown in figures 4 to 8.



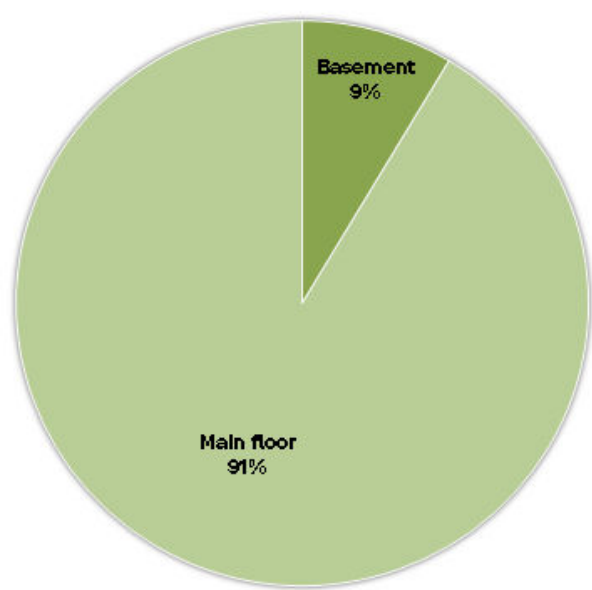
**Figure 5:** Books by knowledge level [to be noticed: a large amount of research books are located in the basement].



**Figure 6:** Books by localisation.



**Figure 7:** Loans of books by knowledge level.



**Figure 8:** Loans of books by localisation.

## DIGITAL BOOKS

As at 31st December 2015, the library offers **7'669 e-books** (+1'681 e-books compared to 2014) related to the life sciences [see appendices for more details].

Usage statistics by subject area are hardly provided by the publisher's platforms and as a consequence, the library cannot evaluate the usage of most of its e-books in the sole area of life sciences. Yet, according to usage statistics available with a few publishers (e.g Springer), e-books in life sciences are well-utilized at EPFL as shown in table 7.

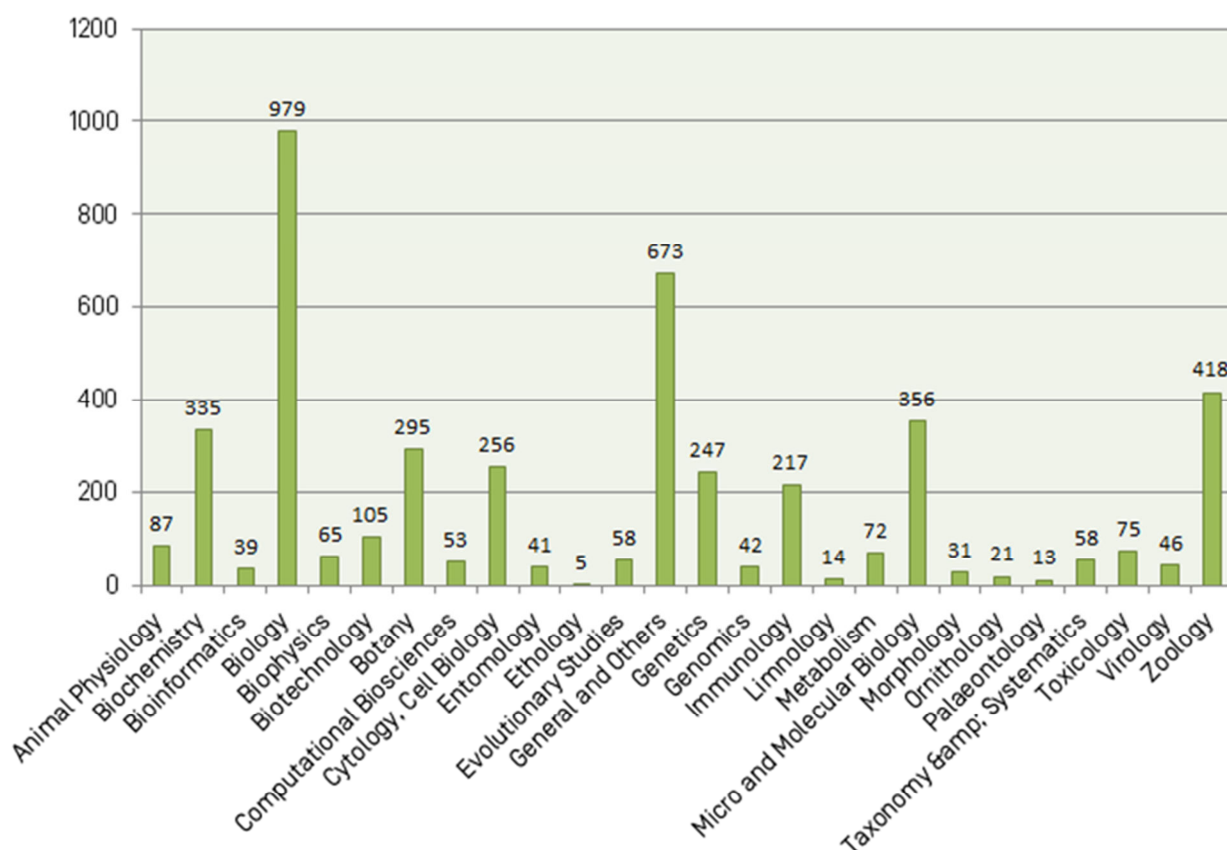
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1'847	2'412	2'443	2'472	1'959	2'232	2'565	963	2'007	3'029	1'438	1'724	25'091

**Table 7:** Example of available usage statistics: 2015 successful section requests of the Springer "Biomedical and Life Sciences" e-book package.

## SCIENTIFIC JOURNALS

In life sciences, all scientific journals which the library subscribes to are available in their digital version (e-journals). The only scientific journals related to life sciences still available at the library in their printed version are important multidisciplinary journals such as "Nature" or "Science". Therefore, the printed journal collection in life sciences available at the library is mostly a "dead" collection (a collection of past issues).

A great number of scientific e-journals related to life sciences are available on EPFL computer network. As at 31<sup>st</sup> December 2015, according to the SFX (the knowledge based used to facilitate access to the articles of e-journals) thematic classification<sup>1</sup>, the library catalogue gives access to **2'907 life sciences and 4'673 health sciences e-journals** (to be noted about SFX: not all e-journals are classified, OA e-journals are also indexed and e-journals can contain more than one thematic class).



**Figure 9:** Distribution of life sciences e-journals according to SFX classification

<sup>1</sup> <http://j.mp/1UG3Lc5>

## DIGITAL PROTOCOLS

The library gives access to **4 digital protocol resources** in the field of life sciences: Current Protocols<sup>1</sup> [Wiley], Cold Spring Harbor Protocols<sup>2</sup> [CSH Press], Journal of Visualized Experiments<sup>3</sup> [JoVE] and Springer Protocols<sup>4</sup> [Springer] (see appendices for more details).

To be noted that numerous protocols are also to be found in scientific e-journals or e-book series available at EPFL (e.g "Methods in Molecular Biology", "Methods in Enzymology", "Nature protocols" or "Journal of neuroscience methods").

## DATABASES

The library gives access to **5 bibliographic databases** in the field of life sciences: Web of Science<sup>5</sup> [Thomson Reuters], Scopus<sup>6</sup> [Elsevier], F1000Prime<sup>7</sup> [Faculty of 1000], PsycArticles<sup>8</sup> [Ovid], Medline<sup>9</sup> [Ovid]; and to **2 factual databases** useful to life sciences scientists: Journal Citation Reports<sup>10</sup> [Thomson Reuters] and Essential Science Indicators<sup>11</sup> [Thomson Reuters].

The 2015 usage reports of scientific e-journals, digital protocols and databases are currently being elaborated and will be presented to the SV representative (to the COB) in the context of the 2016 subscription campaign.

## 5. DYNAMIC COLLECTION MANAGEMENT

### COLLECTION DEVELOPMENT PLAN

The collection development plan of the library (for printed or digital documents related to life sciences) is based on three main user categories: the "Students" [Bachelor and Master], the "Researchers" and the "General public" [descriptions of these user categories are shown in table 8].

In 2015, the library is still working on its collection charter (a final draft is presented to the COB in Fall 2015) and the different collection development plans (one for each scientific fields developed at the library). Once established, these documents will formalise the guidelines currently in use for the acquisition of life sciences documents and will give the library clear priorities and directions regarding the development of its collection in life sciences.

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<sup>1</sup> <http://j.mp/ZXC9ld>

<sup>2</sup> <http://j.mp/18tXP9r>

<sup>3</sup> <http://j.mp/11XZxyY>

<sup>4</sup> <http://j.mp/Vgj2gF>

<sup>5</sup> <http://j.mp/ZpeaYQ>

<sup>6</sup> <http://j.mp/162mtS2>

<sup>7</sup> <http://j.mp/12yd2bE>

<sup>8</sup> <http://j.mp/EPFBIBSV-1cT35dQ>

<sup>9</sup> <http://j.mp/162qYvE>

<sup>10</sup> <http://j.mp/EPFBIBSV-1yLkjWt>

<sup>11</sup> <http://j.mp/EPFBIBSV-1K1rA5R>



Students	Researchers	Gen. Public
<ul style="list-style-type: none"> <li>• <b>People using the physical library</b> (workspaces, helpdesk and printed/digital collections)</li> <li>• <b>"Teaching Collection" at their disposal</b> (documents recommended by teachers of the Life Sciences and Technologies section - STV)</li> <li>• <b>More than one item per book in the "Teaching Collection"</b> (min. 5 items for Bachelor references and 3 items for Master references)</li> <li>• <b>Subject areas covered: those taught by STV teachers</b></li> <li>• <b>Type of documents acquired for this user category: encyclopedia, dictionaries, books</b> (textbooks or handbooks)</li> <li>• <b>Format of documents: printed or digital</b></li> <li>• <b>Selection of documents made by EPFL teachers</b> (documents mentioned in Is-Academia course descriptions)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>People barely using the physical library</b> (not coming to the library building) <b>but intensively using the digital collections</b></li> <li>• <b>"Research Collection" at their disposal</b></li> <li>• <b>Subject areas covered are those the Life Sciences Faculty (FSV) laboratories are working on</b> (4 main lines: microbiology, oncology, neurology and bioengineering)</li> <li>• <b>Type of documents acquired for this user category: scientific journals, protocols, books [series] and databases</b></li> <li>• <b>Format of documents: printed or digital</b> (but mainly digital)</li> <li>• <b>Selection of documents made by the liaison librarian</b> (new subscriptions must be approved by the FSV representative – COB)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>People using the physical library</b> (helpdesk and the print/digital collections)</li> <li>• <b>"Popular-science Collection" at their disposal</b> (basic information in life sciences)</li> <li>• <b>Subject areas covered are: general biology</b> (biochemistry, molecular &amp; cellular biology, genetic), <b>microbiology, oncology, neurology and bioengineering</b></li> <li>• <b>Type of documents acquired for this user category: books</b> (popular works), <b>encyclopedia, dictionaries, comics, documentaries, scientific magazines</b></li> <li>• <b>Format of documents: printed</b></li> <li>• <b>Selection of documents made by the liaison librarian</b></li> </ul>

**Table 8:** Example of available usage statistics: 2015 successful section requests of the Springer "Biomedical and Life Sciences" e-book package.

### PRINTED COLLECTION ACCESSIBILITY

A project of call number simplification (the information mentioned on books to track them on shelves) is initiated this year. Its main objective is to ensure that collections stowed in the basement (compactus) are more easily accessible (standardization of call numbers). To do so, all call numbers mentioned on books and in the library catalogue will be replaced by call numbers of the following form : "[2<sup>nd</sup> Letter] [Number]" (e.g "ZJ 579").

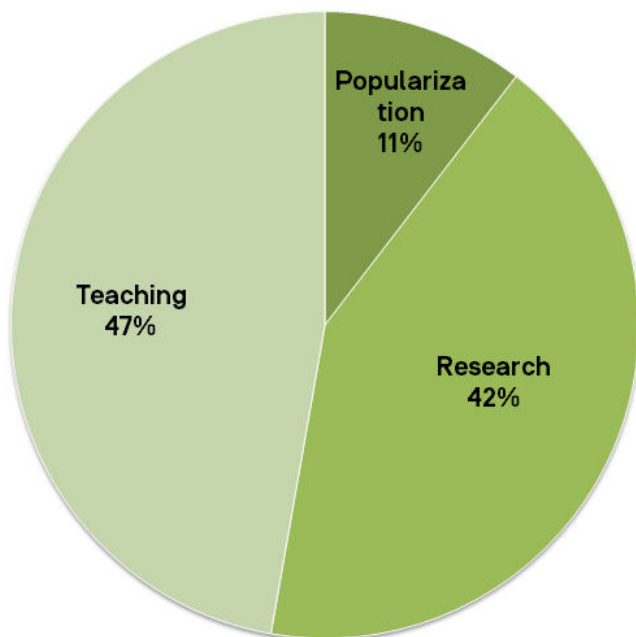
Only one collection has been processed in 2015: the ISREC library collection (books from that collection are now to be found with the following call numbers: "ZH 1" to "ZH 851"). The other collections containing life science related books will be processed in 2016: the Informatic library and Chemistry library collections (the Central library collection is not concerned by this project).

## COLLECTION RENEWAL

### *New acquisitions*

#### *Purchase of printed books*

The library buys **163 books** [corresponding to 98 new titles]. The average price of a book is CHF 102.



**Figure 10:** Distribution of the 163 new books by knowledge level.

#### *Purchase of digital documents*

The library buys **91 e-books** (e-books purchased individually), **11 e-book collections** (e-books purchased in batch – see appendices for more details) and **6 digital reference works** (encyclopedia, handbooks and dictionaries).

The average price of an e-book is CHF 260 and the one of a digital reference work is CHF 1'747.

#### *Subscription to digital documents*

The library subscribes to **10 new scientific e-journals** in life sciences. They are added to the library collections following acquisition suggestions validated by the SV representative (to the COB) in the 2014 subscription campaign [see appendices for more details].

### **Cancellation and elimination**

#### *Printed books*

Throughout the year, the library regularly examines its collections and eliminates printed books that are no longer relevant (old editions, outdated subjects, defective or duplicated items). This year, **955 books** have been removed from the life science collection.

### Subscription to digital documents

The library cancels the subscription to **5 scientific e-journals** and to **1 database**. Those cancellations, suggested by the library based on statistical usage, have all been validated by the SV representative (to the COB) in the 2014 subscription campaign (see appendices for more details).

### 2015 subscription campaign






In the 2015 subscription campaign, the subscriptions to **1 new scientific e-journal** and to **1 new database** are accepted by the SV representative (to the COB). Access to these resources will be added to the library collection in Jan. 2016 (see appendices for more details).

Simultaneously, the SV representative (to the COB) accepts the library suggestion, based on statistical usage, to cancel the subscription to **4 scientific e-journals** that will be removed from the library collection in 2016 (see appendices for more details).

### Document supply

The inter library loan service of the library ([pret-inter.bib@epfl.ch](mailto:pret-inter.bib@epfl.ch)) gives access to documents that are neither available in its collections nor in the NEBIS network (in the collections of other libraries belonging to the network).

## 6. RESSOURCES ACCESS AND PROMOTION

	BEAST <sup>1</sup> (Books, E-books and Articles Search Tool)	Indexes all documentary resources (printed and digital) available at EPFL
	Screen saver (public computers of the library)	Promotes the library resources
	Web site of the library <sup>2</sup> (Life sciences and technology pages)	Displays life sciences services and information resources available at EPFL
	E-mails	Conveys specific information to STV students and SV collaborators
	Twitter @EPFBIBSV <sup>3</sup>	Promotes the library resources and offers information on life sciences resources and communication in general

**Table 9:** Communications channels used by the library.

These different communication channels allow the life science liaison librarian to promote the services and information resources to SV members and students. In this context, it must be mentioned that the life sciences and technology web pages are entirely redesigned this year.

<sup>1</sup> <http://library.epfl.ch/en/beast>

<sup>2</sup> <http://j.mp/1Qu8YgJ>

<sup>3</sup> <http://j.mp/ZBPaRU>

## 7. THE EPFL LIBRARY, ITS TEAM



For further information about the library and its activities, please refer to the library website:

📄 <http://library.epfl.ch>

Library teams are at your service for any question or query: ✉ [questions.bib@epfl.ch](mailto:questions.bib@epfl.ch)

The training team will set up induction sessions, one to one training, or any training that may help you to improve your mastering of scientific and technical information. For further information:

✉ [formations.bib@epfl.ch](mailto:formations.bib@epfl.ch) / 📄 <http://library.epfl.ch/training>

Should you require any further information about this annual report, please do not hesitate to contact the life sciences liaison librarian:

### **Pierre Devaud**

Scientific librarian

Life sciences Liaison

EPFL AA-DAF SISB

RLC D1 630 (Rolex Learning Center)

Station 20

CH-1015 Lausanne

[pierre.devaud@epfl.ch](mailto:pierre.devaud@epfl.ch)

## 8. APPENDICES

### A. INFOSCIENCE

2015 status and activity of the 62 SV laboratories and core facilities in Infoscience:

Unit	Leader	# Ref *	# Added ref	# Full texts	% Full text
CHCN	M. Nicoletis	3	3	0	0%
CMSN	P. Fraering	44	44	12	27%
LCN	W. Gerstner	230	230	171	74%
LEN	P. Aebischer	247	247	19	8%
LGC	C. Sandi	166	166	54	33%
LMNN	H. Lashuel	141	141	105	74%
LNCO	O. Blanke	228	228	182	80%
LNDC	P. Magistretti	378	378	22	6%
LNMC	H. Markram	175	175	28	16%
LPSY	M. Herzog	366	366	30	8%
LENS	C. Petersen	91	91	11	12%
LSYM	R. Schneggenburger	21	21	6	29%
UPCOURTINE	G. Courtine	61	61	20	33%
UPGRAEFF	J. Gräff	24	24	7	29%
UPHESS (new lab)	K. Hess Bellwald	71	71	28	39%
UPMOORE (archived lab)	D. Moore	22	22	7	32%
<b>S/total BMI</b>		<b>2268</b>	<b>2268</b>	<b>702</b>	<b>31%</b>
GR-FE	J. Fellay	88	88	24	27%
LVG	D. Trono	187	187	19	10%
UPABLASSER	A. Ablasser	20	20	9	45%
UPBLO	M. Blokesch	44	44	13	30%
UPCOL	S. Cole	351	351	12	3%
UPHARRIS	N. Harris	60	60	34	57%
UPKIN	J. McKinney	86	86	5	6%
UPLEM	B. Lemaitre	132	132	108	82%
UPSALATHE (new lab)	M. Salathé	48	48	19	40%
VDG	G. van der Goot	183	183	11	6%
<b>S/total GHI</b>		<b>1199</b>	<b>1199</b>	<b>254</b>	<b>21%</b>
GR-NAVEIRAS	O. Naveiras	18	18	9	50%
GR-STBA (new lab)	B. Steinunn	59	59	3	5%
LBTC (archived lab)	F. Wurm	192	192	40	21%
LDCS	Y. Barrandon	44	44	7	16%
LLCB	M. Swartz	141	141	26	18%
LMRP	J. Hubbell	384	384	21	5%
NCEM	J. Auwerx	493	493	36	7%
UPDALPE	M. Dal Peraro	72	72	7	10%
UPDEPLA	B. Deplancke	61	61	16	26%
UPJENSEN	J. Jensen	36	36	7	19%
UPLUT	M. Lütolf	103	103	23	22%
UPNAE	F. Naef	74	74	7	9%

UPSCHOONJANS [ex-GR-SCH]	K. Schoonjans	136	136	14	10%
UPSUTER	D. Suter	20	20	3	15%
<b>S/total IBI</b>		<b>1833</b>	<b>1833</b>	<b>219</b>	<b>12%</b>
CDTSO	J. Huelsken	61	61	6	10%
CMSO	D. Hanahan	31	31	12	39%
GR-BEERMANN	F. Beermann	166	166	15	9%
GR-BUCHER	P. Bucher	137	137	26	19%
UPAGU [archived lab]	M. Aguet	121	121	7	6%
UPBRI	C. Brisken	55	55	17	31%
UPCDA	D. Constam	57	57	7	12%
UPDEPALMA	M. De Palma	65	65	24	37%
UPDUB	D. Duboule	230	230	28	12%
UPGON	P. Gönczy	107	107	15	14%
UPHAN	O. Hantschel	53	53	8	15%
UPLIN	J. Lingner	99	99	13	13%
UPMEYLAN	E. Meylan	24	24	10	42%
UPORICCHIO	E. Oricchio	3	3	2	67%
UPRAD	F. Radtke	156	156	39	25%
UPSIM	V. Simanis	40	40	12	30%
<b>S/total ISREC</b>		<b>1405</b>	<b>1405</b>	<b>241</b>	<b>17%</b>
PTBB (new core facility)	J. Rougemont	5	5	0	0%
PTBIOP	A. Seitz	46	46	2	4%
PTCB	G. Turcatti	56	56	7	13%
<b>S/total PTECH (Core facilities)</b>		<b>107</b>	<b>107</b>	<b>9</b>	<b>8%</b>
GR-FSCH (new lab)	F. Schürmann	31	31	15	48%
GR-HILL (new lab)	S. Hill	15	15	9	60%
CNP (new lab)	O. Blanke	307	307	158	51%
<b>S/total ENT (Transdisciplinary entities)</b>		<b>353</b>	<b>353</b>	<b>182</b>	<b>52%</b>
<b>Total</b>		<b>7'165</b>	<b>7'165</b>	<b>1'607</b>	<b>22%</b>

\* Total number of references as at 31st Dec. 2015

\*\* Number of references added in 2015

\*\*\* Number of references with free full text (e.g. PDF file) as at 31st Dec. 2015

\*\*\*\* Number of references with full text / total number of references as at 31st Dec. 2015

## B. COLLECTION CONTENT

### Digital books

<b>ASM Press</b>	Microbiology	<b>206 e-books</b>	<a href="http://j.mp/19RPTp9">http://j.mp/19RPTp9</a>
<b>Cambridge University Press</b> [Cambridge Books Online]	Life Sciences	<b>90 e-books</b>	<a href="http://j.mp/EPFBIBSV-1QatCHL">http://j.mp/EPFBIBSV-1QatCHL</a>

<b>CRC Press</b> [CRCnetBASE]	<b>44 e-books</b> classified in the following categories (one category per e-book)		
	Biomedical Science	27 e-books	<a href="http://j.mp/EPFBIBSV-1Lj72VY">http://j.mp/EPFBIBSV-1Lj72VY</a>
	Life Science	7 e-books	
	Medicine	6 e-books	
	Pharmaceutical Science & Regulation	4 e-books	
<b>Elsevier</b> [ScienceDirect]	<b>1'654 e-books</b> classified in the following categories (more than one category per e-book)		
	Agricultural and Biological Sciences	1'235 e-books	<a href="http://j.mp/EPFBIBSV-1PEPIkH">http://j.mp/EPFBIBSV-1PEPIkH</a>
	Biochemistry, Genetics and Molecular Biology	830 e-books	<a href="http://j.mp/EPFBIBSV-1WRQivU">http://j.mp/EPFBIBSV-1WRQivU</a>
	Biomaterials	1'214 e-books	<a href="http://j.mp/EPFLSV-1nCRW8L">http://j.mp/EPFLSV-1nCRW8L</a>
	Biomedical engineering	1'231 e-books	<a href="http://j.mp/EPFBIBSV-1S02caR">http://j.mp/EPFBIBSV-1S02caR</a>
	Immunology and Microbiology	69 e-books	<a href="http://j.mp/EPFBIBSV-1PJM0qN">http://j.mp/EPFBIBSV-1PJM0qN</a>
	Medicine and Dentistry	141 e-books	<a href="http://j.mp/EPFBIBSV-20xITUH">http://j.mp/EPFBIBSV-20xITUH</a>
	Neuroscience	250 e-books	<a href="http://j.mp/EPFBIBSV-1S037Y0">http://j.mp/EPFBIBSV-1S037Y0</a>
	Pharmacology, Toxicology and Pharmaceutical Science	1'227 e-books	<a href="http://j.mp/EPFBIBSV-1S03suA">http://j.mp/EPFBIBSV-1S03suA</a>
	Psychology	1'219 e-books	<a href="http://j.mp/EPFBIBSV-1QKZY5">http://j.mp/EPFBIBSV-1QKZY5</a>
<b>IEEE</b> [IEEEExplore]	Bioengineering	<b>124 e-books</b>	<a href="http://j.mp/EPFBIBSV-1NZ2VkJ">http://j.mp/EPFBIBSV-1NZ2VkJ</a>
<b>IOS Press</b> [IOS Press E-books]	<b>38 e-books</b> classified in the following categories (one category per e-book)		
	Biochemistry, Medicine & Health	11 e-books	<a href="http://j.mp/EPFBIBSV-1KdDSq4">http://j.mp/EPFBIBSV-1KdDSq4</a>
	Life & Behavioural Sciences	2 e-books	<a href="http://j.mp/EPFBIBSV-1Lja7FD">http://j.mp/EPFBIBSV-1Lja7FD</a>
	Neurosciences	3 e-books	<a href="http://j.mp/EPFBIBSV-1PoeZNz">http://j.mp/EPFBIBSV-1PoeZNz</a>
<b>McGrawHill</b>	Student Study Aids	22 e-books	<a href="http://j.mp/EPFBIBSV-20jHdMi">http://j.mp/EPFBIBSV-20jHdMi</a>
<b>MIT Press</b> [MIT Press Schol. Online]	<b>47 e-books</b> classified in the following categories (one category per e-book)		
	Neuroscience	21 e-books	<a href="http://j.mp/1dU7eyN">http://j.mp/1dU7eyN</a>
	Psychology	26 e-books	<a href="http://j.mp/1eiQqfA">http://j.mp/1eiQqfA</a>
<b>Morgan &amp; Claypool</b>	<b>66 e-books</b> classified in the following categories (one category per e-book)		
	Biomedical Engineering	55 e-books	<a href="http://j.mp/100LnJa">http://j.mp/100LnJa</a>
	Synthetic Biology	2 e-books	<a href="http://j.mp/Yji5ey">http://j.mp/Yji5ey</a>
	Tissue Engineering	9 e-books	<a href="http://j.mp/ZTrZ4Y">http://j.mp/ZTrZ4Y</a>
<b>Oxford University Press</b> [Oxford Schol. Online]	Neuroscience	<b>154 e-books</b>	<a href="http://j.mp/LPsXvo">http://j.mp/LPsXvo</a>
<b>Royal Society of Chemistry</b>	Biomolecular	<b>346 e-books</b>	<a href="http://j.mp/19mcDtj">http://j.mp/19mcDtj</a>

<b>Springer</b> [Springerlink]	Biomedicine & Life Sciences	<b>4'759 e-books</b>	<a href="http://j.mp/EPFBIBSV-1Q3Apg5">http://j.mp/EPFBIBSV-1Q3Apg5</a>
<b>Taylor &amp; Francis</b> [Taylor & Francis E-books]	Bioscience	<b>4 e-books</b>	<a href="http://j.mp/EPFBIBSV-1QtT5WN">http://j.mp/EPFBIBSV-1QtT5WN</a>
<b>Wiley</b> [WileyOnline]	Life Sciences	<b>137 e-books</b>	<a href="http://j.mp/EPFBIBSV-1Q9I51E">http://j.mp/EPFBIBSV-1Q9I51E</a>

### **Digital protocols**

#### *Current Protocols [Wiley]*

14 Current protocols are available at EPFL:

# in cytometry	# in toxicology	# in protein science
# in immunology	# in bioinformatics	# in nucleic acid chemistry
# in microbiology	# in cell biology	# in magnetic resonance imaging
# in neuroscience	# in human genetics	# in stem cell biology
# in pharmacology	# in molecular biology	

#### *Journal of Visualized Experiments [JoVE]*

5 sections are available at EPFL:

# Behaviour	# Biology	# Medicine
# Bioengineering	# Immunology & Infections	# Neuroscience

## **C. COLLECTION MANAGEMENT**

### **New acquisitions**

E-book collections purchased and added to the life sciences collection in 2015:

# Biochemistry, Genetics and Molecular Biology 2016 [Elsevier]	# Neuroscience 2014/2015 [MIT Press]
# Immunology and Microbiology 2016 [Elsevier]	# Neuroscience 2015/2016 [MIT Press]
# Methods in enzymology pre-2000 [Elsevier]	# MIT Psychology 2015/2016 [MIT Press]
# Neuroscience 2016 [Elsevier]	# Neuroscience 2015/2016 [Oxford University Press]
# Complete collection frontlist 2016 [IEEE-Wiley]	# Biomedical & Life Sciences 2016 [Springer]
# Student Study Aids 2014 [McGraw-Hill]	



Digital reference works purchased and added to the life sciences collection in 2015:

# Encyclopedia of food microbiology [Academic Press]	# Encyclopedia of Agriculture and Food Systems [Elsevier]
# Encyclopedia of Food and Health [Academic Press]	# Encyclopedia of Life Sciences update [Wiley]
# Brain mapping [Elsevier]	# Reviews in Cell Biology and Molecular Medicine update [Wiley]

Subscriptions to scientific e-journals added to the life sciences collection in 2015:

# American Journal of Human Genetics [Cell Press]	# Heredity [Nature Publishing Group]
# Cell Research [Nature Publishing Group]	# Journal of Biomolecular Screening [Sage]
# Combinatorial Chemistry & High Throughput Screening [Betham Science]	# JoVe Behaviour [JoVe]
# European Journal of Human Genetics [Nature Publishing Group]	# Nature Reviews Endocrinology [Nature Publishing Group]
# Essay in Biochemistry [Portland Press]	# The Plant Cell [American Society of Plant Biologists]

**Cancellation**

Subscriptions to scientific e-journals removed from the life sciences collection in 2015:

# JAMA Psychiatry [American Medical Association]	# Circulation Research [Lippincott Williams & Wilkins]
# Arteriosclerosis Thrombosis & Vascular Biology [Lippincott Williams & Wilkins]	# Hypertension [Lippincott Williams & Wilkins]
# Circulation [Lippincott Williams & Wilkins]	

Subscriptions to databases removed from the life sciences collection in 2015:

# BioBase databases [TRANSFAC + PROTEOME]
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**2015 subscription campaign**

Subscriptions to scientific e-journals that will be added to the life sciences collection in 2016:

# Science Express [AAAS]
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Subscriptions to databases that will be added to the life sciences collection in 2016:

# Biomedical & Life Sciences Collection [Henry Stewart Talks]
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Subscriptions to scientific e-journals that will be removed from the life sciences collection in 2016:

# Journal of Innate Immunity [Karger]

# Journal of Vestibular Research [Karger]

# Journal of Vascular Research [Karger]

# Stroke [Lippincott Williams & Wilkins]

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Desk services: Monday through Friday, 8:00am – 8:00pm

Location:  <http://rolexlearningcenter.epfl.ch/acces>



Author: Pierre Devaud, April 2016, Bibliothèque de l'EPFL