



Consiglio di  
Amministrazione

Seduta del

17 NOV. 2015

..... OMISSIS .....

**Sono presenti:** il **rettore**, prof. Eugenio Gaudio; il **prorettore**, prof. Renato Masiani; i consiglieri: prof.ssa Antonella Polimeni, prof. Maurizio Barbieri, prof. Bartolomeo Azzaro, dott. Francesco Colotta, prof. Michel Gras, sig. Domenico Di Simone, dott.ssa Angelina Chiaranza, sig. Luca Lucchetti, sig.ra Federica Di Pietro e il **direttore generale** Carlo Musto D'Amore, che assume le funzioni di segretario.

**Assiste per il Collegio dei Revisori dei Conti:** dott. Michele Scalisi.

..... OMISSIS .....

DELIBERA  
360/15  
REHINT.  
8.1



Consiglio di  
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SAPIENZA UNIVERSITÀ DI ROMA  
Area per l'Internazionalizzazione  
Il Direttore  
Prof. ssa Antonella Caronni

SAPIENZA UNIVERSITÀ DI ROMA  
Area per l'Internazionalizzazione  
Ufficio Internazionalizzazione Ricerca  
Il Capo Ufficio  
Anna Gambogi

SAPIENZA UNIVERSITÀ DI ROMA  
Area per l'Internazionalizzazione  
Ufficio Internazionalizzazione Ricerca  
Il Capo Settore  
Giuliana Carabelli

## ACCORDO PER LA CREAZIONE DI UN TEAM DI RICERCA EUROPEO TRA INRIA-CWI-SAPIENZA UNIVERSITA' DI ROMA

Il Presidente sottopone all'esame del Consiglio di Amministrazione la seguente relazione predisposta dall'Area per l'Internazionalizzazione e già approvata dal Senato Accademico con delibera n. 494 del 3 novembre 2015.

Il Consiglio del Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti", nella seduta del 13 ottobre 2015, ha approvato la proposta avanzata dal prof. Alberto Marchetti Spaccamela di adesione ad Gruppo di Ricerca Internazionale denominato ERABLE - *Joint Project Team*.

L'accordo è sottoscritto tra le seguenti unità:

- CWI – *Centrum Wiskunde & Informatica* - Olanda;
- INRIA - *Institut National de Recherche en Informatique et en Automatique* - Francia;
- Università degli Studi di Roma "La Sapienza" - Italia.

L'obiettivo principale di ERABLE è quello di promuovere un'attività di ricerca congiunta tra i tre enti firmatari dell'accordo sulle tematiche scientifiche di competenza comune.

L'accordo ha durata quadriennale e, per la Sapienza, il Dipartimento direttamente coinvolto nelle attività di ERABLE è il richiedente Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti", con la designazione del prof. Alberto Marchetti Spaccamela come responsabile scientifico per le attività scientifiche.

Il Consiglio del Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti", ha altresì stabilito che ogni onere finanziario derivante dalla partecipazione all'iniziativa graverà sui fondi di ricerca disponibili intestati al docente interessato.

Allegato parte integrante:

- *Agreement for the creation of a European joint project team/mixed research team between INRIA – CWI – Università di Roma*

Allegati in visione:

- verbale Consiglio Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti" del 13 ottobre 2015;
- delibera del Senato Accademico n. 495 del 3 novembre 2015



17 NOV. 2015

..... O M I S S I S .....

**DELIBERAZIONE N. 360/15**

**IL CONSIGLIO DI AMMINISTRAZIONE**

- **Letta la relazione istruttoria;**
- **Vista la proposta di accordo per la costituzione di un Gruppo di ricerca Internazionale denominato "ERABLE";**
- **Vista la delibera del Consiglio di Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti" del 13 ottobre 2015;**
- **Vista la delibera 494/15 del Senato Accademico del 3 novembre 2015;**
- **Accertata la copertura finanziaria da parte del Dipartimento di Ingegneria Informatica, Automatica e Gestionale "Antonio Ruberti";**
- **Considerata la rilevanza delle istituzioni firmatarie dell'accordo;**
- **Presenti n. 12, votanti n. 10: con voto unanime espresso nelle forme di legge dal rettore e dai consiglieri: Polimeni, Barbieri, Azzaro, Colotta, Gras, Di Simone, Chiaranza, Lucchetti e Di Pietro**

**DELIBERA**

**di autorizzare il Rettore alla firma dell'accordo medesimo.**

**Letto e approvato seduta stante per la sola parte dispositiva.**

**IL SEGRETARIO**  
Carlo Musto D'Amore

**IL PRESIDENTE**  
Eugenio Gaudio

..... O M I S S I S .....

**Agreement for the creation of a  
European joint project team/mixed research team  
between Inria – CWI – Università di Roma**

Between

Centrum Wiskunde & Informatica,  
A national research institute for mathematics and computer science, located Science Park 123,  
1098 XG Amsterdam, The Netherlands,  
represented by its xxx, Mr/Mrs xxx,

Acting in the name of and on behalf of Free University of Amsterdam, the Netherlands,

Hereinafter referred to as "CWI"

And

Università degli Studi di Roma "La Sapienza",  
A public institution xxx, located Piazzale Aldo Moro 5, 00185 Roma, Italy,  
represented by its xxx, Mr/Mrs xxx,

Acting in the name of and on behalf of Università degli Studi di Roma "La Sapienza", Italy

Hereinafter referred to as "Università di Roma"

And

Institut National de Recherche en Informatique et en Automatique,  
a French public Research Organisation, existing under French Decree n° 85-831 dated August  
2<sup>nd</sup> 1985, having legal registered offices at Domaine de Voluceau Rocquencourt, BP 105, 78153  
Le Chesnay Cedex, France,  
represented by Mr Antoine Petit, Chairman and Chief Executive Officer, and or Mr Patrick Gros,  
Director of Centre de Recherche Inria Grenoble Rhône-Alpes,

Acting in the name of and on behalf of Université Claude Bernard (Lyon 1), Institut national des  
sciences appliquées de Lyon, CNRS, Laboratoire de Biométrie et Biologie Evolutive (LBBE),  
UMR 5558, France

Hereinafter referred to as "Inria"

CWI, Università di Roma and Inria being hereinafter referred to collectively as "the Parties" or  
individually as "the Party".

## **Article 1 Purpose**

A joint project team (JPT) called ERABLE (corresponding to a mixed research team according to the nomenclature adopted by the French universities) is hereby established on January 1<sup>st</sup>, 2015 between the Parties.

For Inria matters, this JPT is part of the Inria Grenoble Rhône-Alpes research centre and UCBL, INSA, CNRS, LBBE.

This Agreement aims to put into place and define the terms of the collaboration between the Parties in the framework of the ERABLE JPT.

Each Party acting in the name of and on behalf of other academic partner(s) who provide for personals and/or materials for this JPT, shall deal with its relationship with this(these) partner(s) and get the necessary authorization(s) and/or approval(s) when necessary.

## **Article 2 Thematic and scientific field of research**

Cells are seen as the basic structural, functional and biological units of all living systems. They represent the smallest units of life that can replicate independently, and are often referred to as the *building blocks of life*. Living organisms are then classified into unicellular ones – this is the case of most bacteria and archea – or multicellular – this is the case of animals and plants. Actually, multicellular organisms, such as for instance human, may be seen as composed of *native* (human) cells, but also of extraneous cells represented by the diverse bacteria living inside the organism. The proportion in the number of the latter in relation to the number of native cells is believed to be high: this is for example of 90% in humans. Multicellular organisms have thus been described also as “superorganisms with an internal ecosystem of diverse symbiotic microbiota and parasites” (Nicholson *et al*, *Nat Biotechnol*, 22(10):1268-1274, 2004)) where symbiotic means that the extraneous unicellular organisms (cells) live a close, and in this case, long-term relation both with the multicellular organisms they inhabit and among themselves. On the other hand, bacteria sometimes group into colonies of genetically identical individuals which may acquire both the ability to adhere together and to become specialised for different tasks. An example of this is the cyanobacterium *Anabaena sphaerica* who may group to form filaments of differentiated cells, some – the heterocysts – specialised for nitrogen fixation while the others are capable of photosynthesis. Such filaments have been seen as first examples of multicellular patterning.

At its extreme, one could then see life as one collection, or a collection of collections of genetically identical or distinct self-replicating cells who *interact*, sometimes closely and for long periods of evolutionary time, with same or distinct functional objectives. The interaction may be at equilibrium, meaning that it is beneficial or neutral to all, or it may be unstable meaning that the interaction may be or become at some time beneficial only to some and detrimental to other cells or collections of cells. The interaction may involve other living systems, or systems that have been described as being at the edge of life such as viruses, or else genetic or inorganic material such as, respectively, transposable elements and chemical compounds.

The application goal of ERABLE is, through the use of mathematical models and algorithms, to better understand such close and often persistent interactions, with a longer term objective of becoming able in some cases to suggest the means of controlling for or of re-establishing equilibrium in an interacting community by acting on its environment or on its players, how they play and who plays.

This goal requires to identify who are the partners in a closely interacting community, who is interacting with whom, how and by which means. Any model is a simplification of reality, but once selected, the algorithms to explore such model should address questions that are precisely defined and, whenever possible, be exact in the answer as well as exhaustive when more than one exists in order to guarantee an accurate interpretation of the results within the given model.

This fits well the mathematical and computational expertise of the team, and drives the methodological goal of ERABLE which will be to substantially and systematically contribute to the field of exact enumeration algorithms for problems that most often will be hard in terms of their complexity, and as such to also contribute to the field of combinatorics in as much as this may help in enlarging the scope of application of exact methods.

The key objective will be, by constantly crossing ideas from different models and types of approaches, to look for and to infer "*patterns*", as simple and general as possible, either at the level of the biological application or in terms of methodology. This objective will drive which biological systems are considered, and also which models and in which order, going from simple discrete ones first on to more complex continuous models later if necessary and possible.

### **Article 3 JPT leader**

The JPT leader is Marie-France Sagot, Research Director, Inria.

### **Article 4 Composition of the JPT**

On its creation, the Parties assign staff to the JPT, a list of whom is attached in the appendix of this agreement. The appendix is updated on a yearly basis by the team leader and validated by the monitoring committee defined in Article 5.

### **Article 5 Monitoring committee**

A monitoring committee for the ERABLE JPT shall be created, composed as follows:

- the /TO BE INSTANTIATED/ of the CWI, or his representative,
- the /TO BE INSTANTIATED/ of the Università di Roma, or his representative,
- the Director of the Inria Grenoble Rhône-Alpes research centre, or his representative.

The ERABLE JPT leader participates in the monitoring committee and is responsible for organising the meetings of this committee.

This monitoring committee meets at least once a year, preferably at the beginning of the calendar year, and its main missions are:

- to review the consolidated scientific, human and financial report presented by the JPT leader,
- to validate the JPT budget for the year,
- to define the guiding principles for the distribution of contract management for the coming year between the institutions, and the key points on distribution of the various preciput,
- to define a consistent recruitment policy for both permanent and temporary staff, between the institutions,

All decisions shall be made unanimously by the Parties.

The academic partners represented by one of the Party may, upon prior information of the Parties, participate to the monitoring committees.

## **Article 6 Premises**

The places where the members of the JPT are located are the following: Inria Grenoble Rhône-Alpes (Grenoble and Lyon, France); Laboratoire de Biométrie et Biologie Evolutive (LBBE), University of Lyon (France); UMR203 BF2I (Biologie Fonctionnelle Insectes et Interactions) Laboratory, Inria and Insa Lyon (France); Sapienza University of Rome (Italy); CWI Amsterdam (the Netherlands); University of Pisa (Italy); University of Firenze (Italy); Free University of Amsterdam (the Netherlands).

## **Article 7 Budget**

The monitoring committee allocates an annual budget to the ERABLE JPT, managed by the JPT leader. This budget may take into account income from contracts in which the team is participating, under the terms referred to in Article 13 below.

## **Article 8 Pooled resources**

Each Party agrees to give the ERABLE JPT staff the widest possible access to the research instruments it owns, particularly computer equipment in compliance with the IT charters of the different institutions, provided the use is justified by the purpose of the researchers' work involved for the accomplishment of the joint scientific project.

As the ERABLE JPT belongs to the Inria Grenoble Rhône-Alpes research centre, it will benefit from all the centre's services.

Each Party shall remain the owner of the equipment it allocates to the unit and which it acquires at its own expense, unless otherwise decided by a written undertaking by the Parties at a later date.

Should new equipment or devices become necessary to conduct the jointly-led research, the Parties agree that only one of them shall pay the acquisition and maintenance costs. In this case, the Party which pays the acquisition costs shall be sole owner.

The monitoring committee may, where necessary, look into the purchase of complex and expensive equipment in order to organise the distribution of maintenance costs between the Parties using it.

## **Article 9 Access to information**

Each Party will make its best efforts to give to the members of the ERABLE JPT employed by the other Parties access to its own resource centre for documentation.

## **Article 10 Staff**

### 10.1 System

Each member of staff of the ERABLE JPT reports directly to his/her employer and is therefore subject to this employer's hierarchical administrative organisation.

The ERABLE JPT is supported by an assistant. In general, this assistant is responsible for several teams of this type, typically 3 or 4.

## 10.2. Recruitment

The Parties recognise the large number of staff appointment drives (researchers, engineers, technicians and administrative staff, guests, PhD students, post-doctoral researchers, delegations, secondments, engineers, etc.) and procedures for appointing the majority of these posts (eligibility committee, admission committee, ad hoc committee, etc.), which do not allow them to give the monitoring committee precise recruitment forecasts. However, each year the monitoring committee defines a consistent recruitment policy for both permanent and temporary staff, which it recommends to the institutions. It looks closely *a posteriori* at the recruitments made, in the assessment of each team and the unit.

The assignment of permanent staff, researchers and engineers, technicians and administrative staff, who are members of one of the JPT's affiliated institutions, is subject to the monitoring committee's approval.

As well as staff which has been assigned by the Parties, the teams can also include staff from other public institutions or private companies bound by an agreement with at least one of the Parties. The assignment of these members of staff requires the monitoring committee's approval.

### **Article 11 Evaluation**

The ERABLE JPT is evaluated under Inria evaluation procedures. The teams' other affiliated institutions shall be informed of the names of the experts invited to carry out the evaluation, be invited to the evaluation seminar and receive the evaluation report.

To allow international experts to be used, the ERABLE JPT activity reports should be available to them in English.

### **Article 12 Confidentiality**

Each of the Parties agrees to keep secret and confidential any oral or written information passed on by the other Parties which has been specified as being confidential. The receiving Party shall ensure its staff adheres to this obligation, as well as anyone else, particularly interns and visitors, for whom it is responsible.

It is stipulated that confidential information includes expertise, the source code of software not distributed under licence with an open code and patent applications currently being prepared.

This confidentiality obligation may be reinforced on a case-by-case basis, through the conclusion of specific confidentiality agreements.

Information shall not be treated as confidential if the Party receiving the same can prove:

- that this information belonged in the public domain at the time it was disclosed;
- that it already held that information before the issuing Party transmitted it to them;
- that it received it quite properly from a third party free to make use of the same;
- that it was legally obliged to disclose this information.

This article does not impede the thesis defence of the researchers whose scientific activity is related to the Inria JPT's research work. The defence should, however, be arranged whenever necessary in such a way as to guarantee the confidentiality of the work conducted, whilst complying with current university regulations.



## **Article 13     Research agreements with third parties**

13.1 Any ERABLE JPT research agreement concluded with a third party is negotiated, signed and managed by just one of the JPT's affiliated institutions, called a "negotiator-manager body".

The choice of the negotiator-manager body for an agreement is proposed by the team leader to the members of the monitoring Committee, taking into account any instructions or recommendations from the monitoring committee. The negotiator-manager body is the host institution by default (or one of the host institutions if there are multiple hosts). Any differences are resolved by the monitoring committee.

The negotiator-manager body is entrusted with a negotiating mandate for that purpose by all the ERABLE JPT's affiliated institutions and ensures that the research agreements with the third parties provide for:

- a publishing scheme including freedom of publishing produced knowledge, protection before release and controlled release of the knowledge to ensure confidential information is not divulged;
- ownership of the results of this agreement which can be developed;
- a system of use for research purposes;
- a system for industrial and commercial exploitation.

13.2 The negotiator-manager body agrees to inform the other Parties as soon as possible – in any event before any deed is signed which has been negotiated under the mandate – of actions and negotiations conducted with third parties, institutional or industrial, and the responses it is submitting to national and European calls for proposals, if the amount of the potentially resulting agreement is over €100k excluding tax.

The afore-mentioned €100k threshold may be revised annually by the monitoring committee.

13.3 A copy of all the agreements referred to in 13.1 and signed by the negotiator-manager body is passed on, after signing, to the ERABLE JPT's other affiliated institutions.

13.4 Every year, a report on all the ERABLE JPT's research agreements shall be drawn up by the team leader and sent to the monitoring committee.

## **Article 14     Intellectual property**

14.1 Pre-existing assets (background)

A "*pre-existing asset*" is any patent, patent application, software, knowledge, publications and any other intellectual property right held by a Party before the signing of this agreement.

Within one year from the date this agreement is signed, the list of pre-existing assets brought by each Party as well as their status shall be drawn up. This status particularly specifies the holder or holders of the property rights and any exploitation rights previously granted.

Each Party shall retain ownership of its pre-existing assets. Subject to third party rights, non-owner parties shall nevertheless be granted a licence which is non-exclusive, non-transferable, without the right to sub-license and for free use, for the other Party's pre-existing assets, when they are necessary for the implementation of the research project, this licence being limited, where applicable, to the requirements and duration of the specific team creation agreement.

## 14.2 Improvements to pre-existing assets

Each Party shall retain ownership of the improved pre-existing asset (patent, software, etc.), regardless of the author or inventor of this improvement. However, if the modification is original and substantial in relation to the pre-existing asset, it shall be considered to be a new asset.

## 14.3 Assets obtained outside of research agreements with third parties

*"Assets obtained outside of agreements"* are any results which can be developed, especially inventions which can be patented, title rights, resulting titles, software or folders of identified knowledge, other than the improvement of a pre-existing asset, obtained as part of the research conducted within the team, outside of any collaboration with a third party.

The Parties shall own the assets obtained outside of agreements on a pro rata basis of the share of each of their intellectual, material and financial contributions.

## 14.4 Assets resulting from collaborations with third parties

The stipulations of the agreement concluded with third parties shall be applied, on the basis of the principles mentioned in Article 13 of this agreement.

# **Article 15    Asset management and technology transfer**

## 15.1 Management and technology transfer of pre-existing assets and their improvements

The management and technology transfer of pre-existing assets and their improvements in the case where the latter are not significant shall be decided and conducted by the owning Party.

## 15.2 Management and technology transfer of assets resulting from research agreements with third parties

The stipulations of the research agreement concluded with the third party shall be applied, on the basis of the principles mentioned in Article 13 of this agreement.

## 15.3 Management of assets obtained outside of research agreements with third parties

When the Parties decide to develop an asset or a set of assets, one of them shall be designated as a "developing organisation" for this purpose and shall be given a technology transfer mandate.

The developing organisation will also be responsible for carrying out and monitoring the protection procedures. It is, however, stated that extensions, in terms of patents, will be decided upon with the consent of the other Parties. The costs for these procedures shall be shared on a pro rata basis of the proportions of co-ownership as defined in Article 14.3.

The other Parties have thirty (30) days to confirm their acceptance of the co-ownership from the date of the formal request by the developing organisation. In the absence of a response within this time period, the developing organisation shall start the protection process for the asset in its own name.

This technology transfer mandate will be signed on a case-by-case basis and will indicate the following in particular:

- the maturation and/or transfer plan proposed by the developing organisation;
- the distribution of any revenue derived from this technology transfer and the terms and conditions for profit-sharing.

15.4 The Parties shall prepare together an annual report on transfer operations conducted in this manner and shall meet once a year to review it. If necessary, the monitoring committee shall be informed of this report.

#### **Article 16 Publications and communication**

Publications are prepared with due regard to confidentiality of the information belonging to the Parties or to third parties. The publication of the results obtained by the members of the ERABLE JPT shall be decided by the JPT leader on the proposal of his/her team researchers.

The employer's initials upon which each author of the publication depends shall be the first area of its affiliation. The name of the ERABLE JPT may be mentioned at the bottom of the page.

The Parties shall be able to communicate on the subject of the ERABLE JPT on any institutional media such as their websites, with reference to the JPT's different affiliated institutions.

#### **Article 17 Entry into force, duration, renewal**

This agreement comes into force from January 1<sup>st</sup>, 2015 and shall expire on December 31, 2018.

This agreement may only be extended or amended through a rider signed by the Parties.

#### **Article 18 Applicable law - disputes between the parties**

This agreement is subject to French law.

In the event of any difficulty or dispute over the interpretation or execution of this agreement, the Parties shall make every effort to solve their dispute amicably.

If no amicable agreement is reached within thirty (30) days from notification of the dispute by one of the Parties by means of a registered letter with acknowledgement of receipt, the first Party to act shall bring the dispute before the competent French courts.

#### **Article 19 Termination**

This agreement may be terminated as of right by either of the Parties in the event of non-fulfilment by the other of one or more of the obligations contained in its various clauses. This termination shall only come into effect six (6) months after the complaining Party has sent a registered letter with acknowledgement of receipt stating the grounds for the termination, unless the defaulting Party meets its obligations within this time period or provides evidence of an unexpected difficulty resulting from a case of force majeure.

This agreement may also be terminated by mutual agreement between the Parties in the form of a rider.

The termination of this agreement shall not affect the rights and obligations which may arise in the framework of agreements for the creation of joint project teams concluded between the Parties.

Signed in, on

In three (3) original copies

CWI

Università di Roma

Inria

Monsieur Patrick Gros

## Appendix

### List of ERABLE permanent members on the date of creation

Name	First name	Status	Employer
Charles	Hubert	Professor	Insa-Lyon, France
Colella	Stefano	Junior Researcher (CR)	Inra, France
Crescenzi	Pierluigi	Professor	University of Florence, Italy
Gautier	Christian	Professor emeritus	University of Lyon, France
Grossi	Roberto	Professor	University of Pisa, Italy
Klau	Gunnar	Leader Group & Extraordinary Professor	CWI & Free University of Amsterdam, The Netherlands
Lacroix	Vincent	Associate Professor	University of Lyon, France
Marchetti-Spaccamela	Alberto	Professor	Sapienza University of Rome, Italy
Mary	Arnaud	Associate Professor	University of Lyon, France
Pisanti	Nadia	Assistant Professor	University of Pisa, Italy
Sagot	Marie-France	Senior Researcher (DR)	Inria, France
Stougie	Leen	Professor & Exchange researcher	Free University of Amsterdam & CWI, The Netherlands
Vavre	Fabrice	Senior Researcher (DR)	CNRS, France
Viari	Alain	Senior Researcher (DR)	Inria, France
Vieira	Cristina	Professor	University of Lyon, France

### List of ERABLE non permanent members on the date of creation

Name	First name	Status	Employer
Bouheddi	Florence	Administrative Assistant	Inria, France
De Andrade Abrantes	Ricardo Luiz	Postdoc	Ciência sem Fronteiras MCTI & MCT, Brazil
Baudet	Christian	Postdoc	Inria, France
Bulteau	Laurent	Postdoc	Inria, France
Chautard	Émilie	Postdoc	Inria, France
Coimbra Klein	Cecilia	Postdoc	Inria, Lyon
Ferrarini	Mariana	PhD student	Inria, France
Higashi	Susan	Postdoc	Inria, France
Julien-Laferrière	Alice	PhD student	Inria, France
Lopez-Maestre	Alberto	PhD student	University of Lyon, France
Marchet	Camille	Engineer	Inria, France
Parrot	Delphine	Postdoc	Inria, France
Reimers	Arne	Postdoc	CWI, The Netherlands
Sacomoto	Gustavo	Postdoc	Inria, France
Sinimeri	Blerina	Postdoc	Inria, France
Urbini	Laura	PhD student	Inria, France
Wannagat	Martin	PhD student	Inria, France
Zini	Maria Francesca	Engineer	University of Pisa, Italy

List of ERABLE external members on the date of creation

Name	First name	Status	Employer
Jacob	Laurent	Junior Researcher (CR)	CNRS, France
Miele	Vincent	Engineer	CNRS, France
Morgat	Anne	Scientist	Swiss Institute of Bioinformatics (SIB), Switzerland
Ribeiro de Vasconcelos	Ana Tereza	Senior Researcher	Laboratório de Computação Científica (LNCC), Brazil
Vinga	Susana	Scientist	IDMEC, IST, Lisbon, Portugal