

CURRICULUM VITÆ

Marie-France Sagot

BAOBAB team (head)
INRIA Rhône-Alpes, projet HELIX
Laboratoire de Biométrie et Biologie Évolutive
Université Claude Bernard - Lyon I
43, Bd du 11 Novembre 1918, 69622 Villeurbanne cedex
France
email: Marie-France.Sagot@inria.fr
personal web: www.inrialpes.fr/helix/people/sagot
team web: www.inrialpes.fr/helix/people/sagot/team

Basic information

Education

- 1988-1991** “Bacharelado em Ciência da Computação” (BSc in Computer Science), “Instituto de Matemática e Estatística” (IME), University of São Paulo, Brazil (Price of the Best Student of the Class of 91 of the Institute)
- 1992-1993** “Diplôme d’Études Approfondies” (DEA) in Computer Science, University of Paris VII, France (Graded 1st of the Class)
- 1993-1996** PhD in Computer Science, University of Marne-la-Vallée, France (*Summa cum laude*) (committee: D. Arquès, R. Baeza-Yates, M. Crochemore, A. Danchin, G. Myers, D. Perrin, D. Sankoff, A. Viari)
- 2000** “Habilitation à Diriger les Recherches” (HDR), University of Marne-la-Vallée, France (committee: J. Berstel, M. Crochemore, P. Darlu, C. Gautier, D. Gusfield, R. Karp, G. Myers, D. Sankoff, A. Viari)

Experience

- 1995-1997** Assistant Professor, University of Marne-la-Vallée, France
- 1997-1998** Research and Development, Institut Pasteur, Paris, France
- 1998-2001** Research Assistant (“Chargée de Recherche”), Institut Pasteur, Paris, France
- 1998-2001** Associated Research Fellow, Institut Gaspard Monge, University of Marne-la-Vallée
- 2001-2003** Research Assistant (“Chargée de recherche (CR1)”), Inria, France (Projet Helix Inria Rhône-Alpes, Grenoble and University Claude Bernard, Lyon)
- 2002- ...** Visiting Research Fellow, King’s College, London, United Kingdom
- 2003- ...** Director of Research (“Directeur de Recherche (DR2)”), Inria, France (Projet Helix Inria Rhône-Alpes, Grenoble and University Claude Bernard, Lyon)
- 2004- ...** Director of the PhD Program on Computational Biology, Instituto Gulbenkian de Ciência, Lisbon, Portugal
- 2004- ...** Visiting Researcher, INESC-ID, Instituto Superior Técnico, Lisbon, Portugal

Teaching activities

Regular teaching activities

- 1998- ...** DEA “Informatique Fondamentale et Applications” at the University of Marne-la-Vallée, France
- 1998- ...** “Cours d’Informatique en Biologie” of the Institut Pasteur, Paris, France
- 2001- ...** Institut National des Sciences Appliquées, Lyon, France
- 2004- ...** Master “Approches Mathématiques et Informatiques du Vivant”, University Claude Bernard, Lyon I, France

Other teaching activities

- 2000-2001** DESS of “Ingénierie Génomique Fonctionnelle” at the Universities of Paris VII and Évry, France
- 2000-2001** DEA “Applications des Mathématiques et de l’Informatique à la Biologie”, Universities of Évry and Versailles, and Inria Rocquencourt, France
- 2001** Computer Science Department of the École Normale Supérieure, Lyon, France
- 2002** Institut des Sciences de l’Ingénieur of the University Blaise Pascal, Clermont Ferrand, France
- 2002** DEA “Informatique” of the LIRMM, University of Montpellier, France
- 2002-2003** Institut National d’Agriculture of Paris-Grimont (INA-PG), France

Schools (invited professor)

- 1999** Eleventh International School for Computer Science Researchers, Computational Biology, Lipari Island, June 20 - July 3, 1999 (<http://alpha.dipmat.unict.it/lipari/lipari.html>)
- 2000** École Jeunes Chercheurs du GDR ALP en Algorithmique et Calcul Formel, Caen, March 27-31, 2000 (<http://www.info.unicaen.fr/clement/ejc2000/>)
- 2000** Cours de Doctorat, University of Pisa, June 5-16, 2000
- 2001** Atelier de Formation Inserm en Bioinformatique, Lyon, France, January 11-12, 2001, co-organisation with François Rechenmann (Inria Rhône-Alpes, Grenoble) and Christian Gautier (Université Claude Bernard, Lyon) and professor
- 2001** School on Algorithms and Combinatorics, Ceará, Brazil, March 12-24, 2001
- 2001** School on Computational Biology, Poznan, Poland, June 3-10, 2001
- 2001** Atelier de Formation Inserm en Bioinformatique, Santiago, Chile, October 12-16, 2001
- 2003** Fifteenth International School for Computer Science Researchers, Algorithmics for Data Mining and Pattern Discovery, Lipari Island, July 13 - July 26, 2003 (<http://alpha.dipmat.unict.it/lipari/lipari.html>)

Supervision of Pre-PhD, PhD and PostDoctoral students (in bold, PhDs having already been defended)

Fourth year apprenticeship at the École Supérieure d'Ingénieurs en Électrotechnique et Électronique, Polytechnicum of Marne-la-Vallée

Ludovic le Botlan, May to July 1999

Eric Poiret, May to July 1999

Fourth year apprenticeship in Computer Science at the University of Marne-la-Vallée

Julien Allali, May to July 2000

Co-supervision with Mathieu Raffinot and Laurent Marsan

Pierre Peterlongo, April to July 2002

Sébastien Wirth, April to July 2002

Fifth year apprenticeship at the École Vétérinaire de Maison-Alfort

Anne Cariou, March to July 2002

Co-supervision with Laurent Marsan

Fifth year apprenticeship at the Institut des Sciences de l'Ingénieur of the University Blaise Pascal, Clermont Ferrand II

Sophie Créno, February to June 2001

DESS "Étude des Génomes Outils Informatiques et Statistiques" of the University of Rouen

Anne Marcel, September 1999 to September 2001

Co-supervision with Nicole Tandeau de Marsac (IP) and Ivan Moszer (IP)

DESS "Informatique Appliquée à la Biologie" of the University of Versailles

Muriel Meites, May to July 2000

DEA "Informatique Fondamentale et Applications" of the University of Marne-la-Vallée

Stéphane Bizard, March to September 1998

Laurent Marsan, March to September 1998

Philippe Blayo, February to September 1999

Sylvain Lhullier, February to September 1999

Julien Allali, February to September 2001

Sophie Créno, February to September 2002

Benoît Olivieri, February to September 2003

Pierre Peterlongo, February to September 2003

Gérald Balayssac, February to September 2003

Laurent Canet, February to September 2005

DEA "Algorithmique" of the Universities of Paris VI, Paris VII and Paris XI, the École Polytechnique, ENS Cachan, ENS Ulm

Frédéric Chataigner, February to September 2001

co-supervision with Christian Choffrut, Liafa, Paris VII

DEA "Biomathématiques" of the Universities of Paris VI and VII

Marina Zelwer, January to September 2000

DEA "Évolution - Écosystèmes - Microbiologie - Modélisation (E2M2)" of the University of Lyon I

Vincent Lacroix, September 2003 to August 2004

Master M1 “Approches Mathématiques et Informatique du Vivant (aMIV)” of the University of Lyon I

Virginie Desvignes, September 2004 to August 2005

Master M2 “Approches Mathématiques et Informatique du Vivant (aMIV)” of the University of Lyon I

Claire Lemaitre, September 2004 to August 2005

Florence Cavalli, September 2005 to August 2006

Co-supervision with Cristina Vieira, University of Lyon I

PhD in Computer Science of the University of Marne-la-Vallée

Laurent Marsan, 1998-2002 (defended in April 2002)

Philippe Blayo, 1999-2003 (defended in January 2003)

Julien Allali, 2001-2004 (defended in December 2004)

Pierre Peterlongo, September 2003-2006 (defended in September 2006)

Laurent Canet, September 2005-...

Co-supervision with Maxime Crochemore, University of Marne-la-Vallée

PhD in Computational Biology of the University Lyon I

Vincent Lacroix, September 2004-...

Marilia Dias Vieira Braga, September 2005-...

Ludovic Cottret, November 2005-...

Claire Lemaitre, September 2005-...

Vicente Acuña, September 2006-... Marc Deloger, September 2006-...

PhD in Computer Science of the University of Pisa

Nadia Pisanti, 1998-2001 (defended in December 2001)

Co-supervision with Fabrizio Luccio, University of Pisa

PhD in Computer Science of the Instituto Superior Técnico of Lisbon

Alexandra Carvalho, 2004-...

Co-supervision with Arlindo Oliveira, Instituto Superior Técnico of Lisbon

PhD in Computer Science of the University of São Paulo, Brazil

Estela Maris Rodrigues, 1999-2003 (defended in February 2003)

Co-supervision with Yoshiko Wakabayashi, University of São Paulo

Said Adi Sadique, September 2003-2005 (defended in May 2005)

Co-supervision with Carlos Eduardo Ferreira, University of São Paulo

Jeane Cecilia Bezerra de Melo, 2003-2005 (defended in August 2005)

Co-supervision with Kátia Guimarães, University of Pernambuco

Paulo Gustavo Fonseca, January 2005- ...

Co-supervision with Kátia Guimarães, University of Pernambuco

Member of a PhD committee of the INRA

Laurent Bize, March 1999-August 2004

Supervision by Daniel Kahn and Brigitte Mougin, INRA Toulouse

Patricia Thébault, March 2000-July 2004

Supervision by Christine Gaspin and Thomas Schiex, INRA Toulouse

Supervision of PostDocs

Sébastien Provencher, grant from the Gouvernement of Québec, 2001-2003
Nadia Pisanti, grant from Ercim, September 2001 to May 2002
Raquel Tavares, grant from Portuguese Government, 2001-2003
Eric Tannier, grant from the Inria, 2003-2004
Patricia Thébault, grant from the Inria, 2005-...
Cinzia Pizzi, grant from the Inria, 2006-...

Participation to Masters Committees (in bold, co-supervised Masters)

Alexandra M. Carvalho, MSc Thesis, Instituto Superior Técnico, Lisbon, Portugal, 2004

Nuno Mendes, MSc Thesis, Instituto Superior Técnico, Lisbon, Portugal, 2005

Participation to PhD Committees (in bold, co-supervised PhDs)

Sabria Benhamida, IGM, University of Marne-la-Vallée, 1999

Ingrid Lafontaine, IBPC, University of Paris VII, 2000

Bruno Spataro, LBBM, University of Lyon II, 2001

Stéphane Vialette, LIAFA, University of Paris VII, 2001

Nadia Pisanti, co-supervisor, University of Pisa, Italie, 2001

Antoine Marin, Inra Jouy-en-Josas, University of Paris VII, 2002

Francisco Elói Soares de Araujo, IME, University of São Paulo, Brazil, committee of evaluation of the theoretical part, 2002

Laurent Marsan, co-supervisor, IGM, University of Marne-la-Vallée, 2002

Guillaume Achaz, IJM, University of Paris VI, 2002

Simone Bentolila, referee, IGM, University of Marne-la-Vallée, 2002

Sébastien Jaeger, referee, CPT, University of Marseille, 2002

Olivier Elemento, referee, LIRMM, University of Montpellier, 2002

Magali Lescot, referee, LGPD, University of Marseille, 2002

Giulio Pavesi, referee, University of Milano, Italie, 2002

Said S. Adi, IME, University of São Paulo, Brazil, committee of evaluation of the theoretical part, 2002

Philippe Blayo, co-supervisor, IGM, University of Marne-la-Vallée, 2003

Estela Maris Rodrigues, co-supervisor, IME, University of São Paulo, Brazil, 2003

Sabria Benhamida, IGM, University of Marne-la-Vallée, 1999

Paulo Gustavo Fonseca, Federal University of Pernambuco, Brazil, committee of evaluation of the theoretical part, 2003

France Denoeud, referee, Orsay University, France, 2003

Séverine Bérard, referee, University of Montpellier, France, 2003

Olivier Perriquet, University of Lille, France, 2003

Yvan Saeys, referee, University of Ghent, Belgium, 2004

Jérôme Waldispühl, referee, École Polytechnique, France, 2004

Martin Figeac, referee, University of Lille, France, 2004

Julien Allali, co-supervisor, IGM, University of Marne-la-Vallée, France, 2004

Susana Vinga, referee, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, Portugal, 2005

Ketil Malde, referee, University of Bergen, Norway, 2005

Behshad Behzadi, École Polytechnique, France, 2005

Guillaume Blin, referee, University of Nantes, France, 2005

Jeane C. B. de Melo, co-supervisor, Federal University of Pernambuco, Brazil, 2005

Said Adi Sadique, co-supervisor, IME, University of São Paulo, Brazil, 2005

Nahla el Zant el Kadhi, referee, University of Paris XIII, France, 2005

Gabriel Frey, referee, University of Strasbourg, France, 2005

Mathilde Carpentier, referee, University of Paris VI, France, 2005

Pierre Peterlongo, co-supervisor, IGM, University of Marne-la-Vallée, France, 2006

Sarah Djebali, referee, ENS Paris, France, 2006

Participation to Habilitation (HDR) Committees

Guillaume Fertin, referee, LINA, University of Nantes, 2004

Hélène Touzet, referee, University of Lille, France, 2004

Eric Rivals, University of Montpellier, France, 2005

Administrative activities

Committees and expertises

1998	Selection committee for an IR position in computational biology at the INRA
2000	Selection committee for an CR2 position in computational biology at the INRIA
2000- ...	Scientific committee ACI Cryptology, French Ministry of Research
2000- ...	Committee IMPG (“Informatique, Mathématique et Physique pour la Génomique”), inter EPST (CNRS-INRA-INRIA-INSERM) and French Ministry of Research
2000	Evaluation committee of the INA-PG team of the “Département Biométrie et Intelligence Artificielle” of the INRA
2000- ...	Expertise of projects for the Bioinformatics Program inter EPST (CNRS-INRA-INRIA-INSERM) of the French Ministry of Research
2001- ...	Scientific committee of the “Cours Informatique en Biologie” of the Institut Pasteur
2001	Expertise of a project for the National Science and Engineering Research Council of Canada
2001	Expertise of a candidate’s curriculum and research proposal for a professor position at the Free University of Berlin
2002- ...	Scientific committee of the “Computational Biology Course” of the University of Chile in Santiago, Chile
2002- ...	Selection committee for CR2 positions at the INRIA
2002- ...	Nominated Substitute Member of the Evaluation Committee of the Inria Rhône-Alpes
2003	Expertise of two research projects in bioinformatics for the BBVA Foundation, Spain
2004	Expertise of a research project in bioinformatics for the FCI, Canada
2004	Expertise of a research project in bioinformatics for the EPSRC, UK
2005	Member of the Selection Committee for the Horizon programme of the Netherlands Genomics Initiative (NGI), Holland
2005	Expertise of a research project in bioinformatics for the “Fonds québécois de la recherche sur la nature et les technologies”, Canada
2005	Expertise of a research project in bioinformatics for the “Fund for Scientific Research” (FWO), Flanders, Belgium
2005	Expertise of a research project in bioinformatics for the BBSRC, UK

Research activities

Research areas

See <http://www.inrialpes.fr/helix/people/sagot/team/research>

Project coordination

Project of Cooperation CGRI-FNRS-CNRS, “Combinatoire et automates – Application au codage, à l’analyse des structures génomiques et à la compression des données”

University of Mons-Hainaut and University of Marne-la-Vallée; Belgium coordinator : Olivier Delgrange; French coordinators : Olivier Carton and Marie-France Sagot; Duration : 1998-2000

Project CAPES-COFECUB “Algorithmes pour l’Analyse Génomique”, France-Brésil

University of São Paulo (Brazil), University of Campinas (Brazil), University of Marne-la-Vallée, University of Rouen and Institut Pasteur; Brazilian coordinators : Yoshiko Wakabayashi and José Augusto Ramos Soares; French coordinators : Maxime Crochemore and Marie-France Sagot; Duration : 1999-2001

Project BioInformatique CNRS-INRA-INRIA-INSERM “Régulation, Synténie et Pathogénicité – Algorithmes et Expérimentations”

Institut Pasteur, Institut de Biologie Physico-Chimique of Paris, Institut Gaspard Monge of the University of Marne-la-Vallée; Coordinators : Anne Vanet and Marie-France Sagot; Duration : 2000-2002

Project of The Royal Society “Pattern inference in computational molecular biology”

King’s College of London, Institut Pasteur and Institut Gaspard Monge of the University of Marne-la-Vallée; Coordinators : Costas Iliopoulos and Marie-France Sagot; Duration : 2000-...

Project of the Wellcome Trust Foundation

King’s College of London, Institut Pasteur and Institut Gaspard Monge of the University of Marne-la-Vallée; Coordinators : Costas Iliopoulos and Marie-France Sagot; Duration : 2001-2003

Project BioInformatique CNRS-INRA-INRIA-INSERM “Algorithms for Modelling, Search and Inference Problems in Molecular Biology”

Project Helix of the Inria Rhône-Alpes and Laboratoire de Biométrie et Biologie Évolutive plus fifteen other labs, of which six in Europe outside France (Belgium, Finland, two in Italy, Sweden, United Kingdom); Coordinator : Marie-France Sagot; Duration : 2002-2004. Funding for a postdoc for one year has been granted together with the project.

Project CAPES-COFECUB “Algorithmes et Combinatoire pour la Biologie Moléculaire”, France-Brésil

Federal University of Pernambuco (Brazil), University of Campinas (Brazil), University of Marne-la-Vallée, University of Lyon I, Inria; Brazilian coordinator : Katia Guimarães; French coordinator : Marie-France Sagot; Duration : 2003-2005, renewable 2 more years

Project ACI “Nouvelles Interfaces des Mathématiques “Mathematical and algorithmical aspects of biochemical and evolutionary networks”

8 French and 16 International teams, Coordinator : Marie-France Sagot; Duration : 2003-2006

Project “Associated Team” INRIA-USP (University of São-Paulo)

HELIX project, INRIA and Department of Computer Science, University of São Paulo, Brazil; Brazilian coordinator : Yoshiko Wakabayashi; French coordinator : Marie-France Sagot; Duration : 2005-...

Project ANR, French Ministry of Research, “From the molecule to the cell: Development, confrontation and integration of formal models and methods of analysis” (REGLIS)

BAOBAB-HELIX project, French coordinator : Marie-France Sagot; Duration : 2006-2008

Project participation

Project Action de Recherche Coopérative (INRIA), “Recherche et Extraction de Motifs pour l’Analyse Génomique” (REMAG)

INRIA (Nancy, Rennes and Rocquencourt), University of Marne-la-Vallée and Institut Pasteur; Duration : 1999-2001

Project INRA-Génoplande, “Outils informatiques pour la prédiction de gènes et l’annotation de génomes. Application au génome d’*Arabidopsis thaliana*”

Biométrie team INRA Toulouse (resp. Christine Gaspin), INRA Associated Laboratory at the University of Ghent (resp. Pierre Rouzé), INRIA Rhône-Alpes (resp. François Rechenmann and Alain Viari), Institut Pasteur (resp. Marie-France Sagot); Coordinator : Christine Gaspin; Duration : 2000-2002

Project BioInformatique CNRS-INRA-INRIA-INSERM “Détection des exons/introns dans le génome humain”

CGM of Gif-sur-Yvette, Atelier de BioInformatique of the University of Paris VI, Institut Pasteur, Laboratoire Génome et Informatique of the University of Versailles Saint-Quentin-en-Yvelines and Institut de Mathématiques de Luminy at Marseille; Coordinator : Claude Thermes; Duration : 2000-2002

Project BioInformatique CNRS-INRA-INRIA-INSERM “Modélisation et simulation de réseaux de régulation génique: La transduction de signaux par les nucléotides cycliques chez la cyanobactérie *Synechocystis* PCC6803”

Inria Rhône-Alpes, University Joseph Fourier of Grenoble, ENS Ulm; Coordinators : Hidde de Jong and Hans Geiselman; Duration : 2001-2002

Project Vinci “Algorithmes et structures de données pour l’extraction de motifs dans les séquences biologiques”

University of Pisa, Project Helix of the Inria Rhône-Alpes and the Laboratoire de Biométrie et Biologie Évolutive and Institut Gaspard Monge of the University of Marne-la-Vallée; Coordinators : Roberto Grossi and Maxime Crochemore; Duration : 2001

Project BioInformatique CNRS-INRA-INRIA-INSERM “Validation de modèles de réseaux de régulation génique. régulation globale de la transcription chez *Escherichia coli* et *Synechocystis* PCC 6803”

Inria Rhône-Alpes, University Joseph Fourier of Grenoble, ENS Ulm; Coordinators : Hidde de Jong and Hans Geiselman; Duration : 2002-2004

Project BioInformatique CNRS-INRA-INRIA-INSERM “Découverte de motifs dans les séquences biologiques”

Inria Rennes and Rhône-Alpes, Laboratoire Irin of the University of Nantes and SIB Genève; Coordinator : Jacques Nicolas; Duration : 2002-2003

Project BioInformatique CNRS-INRA-INRIA-INSERM “Cartographie comparée des génomes de vertébrés”

Project Helix of the Laboratoire de Biométrie et Biologie Évolutive and the Inria Rhône-Alpes, Inra of Toulouse; Coordinators : Dominique Mouchiroud and Thomas Faraut; Duration : 2002-2004

Conference organisation

Co-organisation with Olivier Gascuel (Program Committee co-Chairman) and Gilles Caraux (Organization Committee Chairman) of the conference JOBIM 2000 (“Journées Ouvertes : Biologie, Informatique et Mathématiques” - <http://www.lirmm.fr/jobim>), Montpellier, May 3-5, 2000

Co-organisation with Hans-Peter Lenhof (Program Committee co-Chairman), Catherine Christophe and Bernard Prum (Organization Committee co-Chairpersons) of the European Conference on Computational Biology 2003 (<http://www.inra.fr/eccb2003>), realized jointly with JOBIM’03, Paris, September 27 - 31, 2003.

Co-organisation with Kátia Guimarães (Program Committee co-Chairman and Organization Committee co-Chairperson) of the CompBioNets (Algorithms and Computational Methods for Biochemical and Evolutionary Networks) 2004 (<http://compbionets.cin.ufpe.br/>), Recife, Brazil, Dec. 15-18, 2004.

Co-organisation with Kátia Guimarães (Program Committee co-Chairman and Organization Committee co-Chairperson) of the CompBioNets (Algorithms and Computational Methods for Biochemical and Evolutionary Networks) 2005 (<http://www.inrialpes.fr/helix/people/sagot/CompBioNets2005/index.html>), Lyon, France.

Colloquium and seminars organisation

Organisation of the colloquium, “Combinatoire et Génome”, University of Marne-la-Vallée, December 2-3, 1996

Organisation of the seminar since 1997, “Algorithmique et Biologie” (<http://www-igm.univ-mlv.fr/~sagot/AlgoBio>), Inria Rhône-Alpes, Laboratoire de Biométrie et Biologie Évolutive and Institut Gaspard Monge. Each series of seminars is composed of around fifteen talks, in english since 1998, of which approximately half are given by french researchers and half by non french.

Series 1: RNA Structures, December 18-19, 1997

Series 2: Phylogeny, April 8-9, 1998

Series 3: Protein Structures, September 14-16, 1998

Series 4: Genome Structural and Functional Analysis, December 8-10, 1998

Series 5: Knowledge Databases – Data and Methods Formalisation in Genome and Post-Genome Projects, March 22-24, 1999

Series 6: RNA Structures – The Return, June 15-16, 1999

Series 7: Evolution and Phylogeny, September 27-29, 1999
 Series 8: Annotation - Concepts and Methods, December 14-16, 1999
 Series 9: Regulation Expression, March 13-15, 2000
 Series 10: Macromolecular Structures and Interactions, September 13-15, 2000
 Series 11: Regulation, Metabolism and Genome Organisation, September 20-21, 2001
 Series 12: Genome Dynamics and Evolution, April 3-5, 2002
 Series 13: Statistics and Probabilities in Genomics, October 1-3, 2003
 Series 14: Algorithmics and Combinatorics in Biology, April 2-4, 2003
 Series 15: Genomic Rearrangements, February 2-4, 2004
 Series 16: Genomes, Chromosomes, Cells and Developmental Evolution, November 2-4, 2004

Editorial work

Program Committee Member of:

SPIRE'99 - String Processing and Information REtrieval, Cancún, Mexico
 JOBIM'00 (co-chair), Montpellier, France
 CPM'00 - Combinatorial Pattern Matching, Montreal, Canada
 SPIRE'00 - String Processing and Information REtrieval, Coruña, Spain
 GCB'00 - German Conference on Bioinformatics'00, Heidelberg, Germany
 JOBIM'01, Toulouse, France
 SPIRE'01 - String Processing and Information REtrieval, Laguna de San Rafael, Chile
 WABI'01 - Workshop on Algorithms in BioInformatics, University of Aarhus, Denmark
 CPM'02 - Combinatorial Pattern Matching, Fukuoka, Japan
 RECOMB'02, Washington, USA
 JOBIM'02, St Malo, France
 WABI'02 - Workshop on Algorithms in BioInformatics, Rome, Italy
 SPIRE'02 - String Processing and Information REtrieval, Lisbonne, Portugal
 ECCB'02 - European Conference on Computational Biology, in conjunction with the German Conference on Bioinformatics'02, Saarbrücken, Germany
 RECOMB'03, Berlin, Germany
 CPM'03, Morelia, Mexico
 ECCB'03 (co-chair) - European Conference on Computational Biology, in conjunction with JOBIM'03, Paris, France
 SPIRE'03 - String Processing and Information REtrieval, Manaus, Brazil
 RECOMB'04, San Diego, USA
 ISMB/ECCB'04 (steering committee), Glasgow, Scotland
 ESA'04, Bergen, Norway
 JOBIM'04 (co-chair program committee), Montréal, Canada
 PCS'04, Prague, Czech Republic
 GCB'04, Bielefeld, Germany
 CompBioNets'04 (co-chair program committee), Recife, Brazil
 ECCB'05, Madrid, Spain
 ISMB'05, Detroit, USA
 WABI'05, Ibiza, Spain
 PCS'05, Prague, Czech Republic
 CompBioNets'05 (co-chair program committee), Lyon, France CSB 2006, Stanford, USA
 ECCB 2006, Eilat, Israel

RECOMB 2006, Venice, Italy
SPIRE 2006, Glasgow, Scotland
WABI 2006 - Workshop on Algorithms for BioInformatics, Zurich, Switzerland
RECOMB 2007, San Francisco, USA

Referee for the following journals: *AAI*, *BioEssays*; *Bioinformatics*; *BMC Bioinformatics*, *Computers and Chemistry*; *Journal of Automata, Languages and Combinatorics*; *Journal of Computational Biology*; *Microbiology*; *The Computer Journal*; *Theoretical Computer Science*; *Nucleic Acids Research*; *Research in Microbiology*; *SIAM J. on Computing*

Referee for the following conferences: Prague Stringology Club Workshop'98; MFCS'96; COCOON'97; SEQUENCES'97; FSTTCS'98; STACS'98; SPIRE'99; ISMB'99; SODA'00; CPM'00; SPIRE'00; JOBIM'00; German Conference on Bioinformatics'00; ICALP'01; CPM'01; JOBIM'01; WABI'01; SPIRE'01; CPM'02; RECOMB'02; JOBIM'02; WABI'02; SPIRE'02, ECCB'02, MFCS'02, RECOMB'03, ECCB'03, SPIRE'03, RECOMB'04, ISMB&ECCB'04, ESA'04, JOBIM'04, GCB'04, ECCB'05, ISMB'05, WABI'05, PCS'05, CompBioNets'05

Member of the Editorial Board of the *Journal of Discrete Algorithms*, Elsevier.

Member of the Editorial Board of the *Lecture Notes in BioInformatics (LNBI)*, topical sub-series of *Lecture Notes in Computer Science (LNCS)*, Springer-Verlag.

Member of the Editorial Board of the *Research in Microbiology*, published by Elsevier.

Member of the Editorial Board of *IEEE/ACM Transactions in Computational Biology and Bioinformatics*, published by the IEEE Computer Society, the Association for Computing Machinery, the IEEE Neural Networks Society, and the IEEE Engineering in Medicine and Biology Society.

Member of the Editorial Board of *BMC Bioinformatics*, published by BioMed Central.

Member of the Editorial Board of *BMC Algorithms in Molecular Biology*, published by BioMed Central.

Member of the Editorial Board of the *Computational Biology and Chemistry*, published by Elsevier.

Publications

Refereed Journals

- [1] **M.-F. Sagot, A. Viari, J. Pothier and H. Soldano.** Finding flexible patterns in a text – An application to 3D molecular matching. *Comput. Appl. Biosci.*, 11:59-70, 1995, presented initially at the First International IEEE Workshop on *Shape and Pattern Matching in Computational Biology*, Seattle, Washington, USA, 1995.
- [2] **M.-F. Sagot, A. Viari and H. Soldano.** Multiple comparison: a peptide matching approach. *Theor. Comput. Sci.*, 180(1-2):115-137, 1997, complete version of the work initially presented at the *Combinatorial Pattern Matching Conf. 95*, Helsinki, Finland, 1995.

- [3] **M.-F. Sagot and G. Myers.** Identifying satellites and periodic repetitions in biological sequences. *Journal of Computational Biology*, 5(3):539-554, 1998, complete version of the work initially presented at *RECOMB 98*, New York, USA, 1998.
- [4] **A. Vanet, L. Marsan and M.-F. Sagot.** Promoter sequences and algorithmical methods for identifying them. *Research in Microbiology*, 150:779-799, 1999.
- [5] **A. Vanet, L. Marsan, A. Labigne and M.-F. Sagot.** Inferring regulatory elements from a complete genome. An application to the analysis of *Helicobacter pylori* σ^{80} family of promoter signals. *Journal of Molecular Biology*, 297:335-353, 2000.
- [6] **L. Marsan and M.-F. Sagot.** Algorithms for extracting structured motifs using a suffix tree with an application to promoter and regulatory site consensus identification. *Journal of Computational Biology*, 7:345-362, 2000, complete version of the work initially presented at *RECOMB 00*, Tokyo, Japan, 2000.
- [7] **N. Pisanti and M.-F. Sagot.** Further thoughts on the syntenic distance between genomes. *Algorithmica*, 34:157-180, 2002.
- [8] **C. Mathé, M.-F. Sagot, T. Schiex and P. Rouzé.** Current methods of gene prediction, their strengths and weaknesses. *Nucleic Acids Research*, 30:4103-4117, 2002.
- [9] **P. Blayo, P. Rouzé and M.-F. Sagot.** Orphan gene finding – An exon assembly approach. *Theoretical Computer Science*, 290:1407-1431, 2003.
- [10] **S. Robin, J.-J. Daudin, H. Richard, M.-F. Sagot and S. Schbath.** Occurrence probability of structured motifs in random sequences. *J. Computational Biology*, 9:761-773, 2003.
- [11] **C. S. Iliopoulos, J. McHugh, P. Peterlongo, N. Pisanti, W. Rytter and M.-F. Sagot.** A first approach to finding common motifs with gaps. *International Journal of Foundations of Computer Science*, 2005, in press.
- [12] **J. Allali and M.-F. Sagot.** A new distance for high level RNA secondary structure comparison. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2(1): 3-14, 2005.
- [13] **N. Pisanti, M. Crochemore, R. Grossi and M.-F. Sagot.** Bases of motifs for generating repeated patterns with don't cares. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2(1): 40-50, 2005.
- [14] **E. Tannier, A. Bergeron and M.-F. Sagot.** Advances on sorting by reversals. *Discrete Applied Mathematics*, 2005, in press.

- [15] **A. Carvalho, A. T. Freitas, A. L. Oliveira and M.-F. Sagot.** An Efficient Algorithm for the Identification of Structured Motifs in DNA Promoter Sequences. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 3:126-140, 2005.
- [15] **C. S. Iliopoulos, J. McHugh, P. Peterlongo, N. Pisanti, W. Rytter, and M.-F. Sagot.** A first approach to finding common motifs with gaps. *International Journal of Foundations of Computer Science*, Vol. 16, No. 6, 1145-1154, 2005.
- [16] **M. Crochemore, C. S. Iliopoulos, M. Mohamed, and M. F. Sagot.** Longest Repeats with a Block of k Don't Cares. *Theoretical Computer Science*, 2006. in press.
- [17] **Y. Diekmann, E. Tannier, M.-F. Sagot.** Evolution under reversals: parsimony and conservation of common intervals. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2006. in press.
- [18] **V. Lacroix, C. G. Fernandes and M.-F. Sagot.** Motif Search in Graphs: Application to Metabolic Networks. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2006. in press.
- [19] **E. M. Rodrigues, M.-F. Sagot and Y. Wakabayashi.** The Maximum Agreement Forest Problem: approximation algorithms and computational experiments. *Theoretical Computer Science*, 2006. in press.

Book Chapters (invited papers)

- [20] **C. Mathé, T. Schiex, P. Rouzé, P. Blayo and M.-F. Sagot.** Gene finding in eukaryotes. in Q. Lu and M. Weiner, editors, *Gene cloning and expression technologies*, Eaton Publishing, pages 27-43, 2002.
- [21] **M.-F. Sagot and Y. Wakabayashi.** Pattern inference under many guises. in B. Reed and C. L. Sales (eds.), *Recent advances in algorithms and combinatorics*, Springer Verlag, 2003.
- [22] **M. Crochemore and M.-F. Sagot.** Motifs in sequences: localization and extraction. in A. Konopka *et al.* (eds.), *Handbook of Computational Chemistry*, Marcel Dekker Inc., 2005. in press.
- [23] **N. Pisanti, M. Crochemore, R. Grossi and M.-F. Sagot.** A comparative study of bases for motif inference, in King's College Publications, 2005, in press.
- [24] **N. Pisanti and M.-F. Sagot.** Network expression inference. in Lothaire 3, J. Berstel and D. Perrin, editors, *Applications of Combinatorics on Words*, Cambridge University Press, 2005. in press (invited paper).

- [25] **M.-F. Sagot, A. Viari, J. Pothier and H. Soldano.** Finding flexible patterns in a text – An application to 3D molecular matching. in A. Califano, I. Rigoutsos and H. Wolfson (eds.), *Proc. First International IEEE Workshop on Shape and Pattern Matching in Computational Biology*, Seattle, Washington, USA, pages 117-145. IEEE Press, 1994.
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- [28] **M.-F. Sagot, A. Viari and H. Soldano.** A distance-based block searching algorithm. in C. Rawlings, D. Clark, R. Altman, L. Hunter, T. Lengauer and S. Wodak (eds.), *Proc. Third International Symposium on Intelligent Systems for Molecular Biology*, Cambridge, England, pages 322-331. AAAI Press, 1995.
- [29] **M.-F. Sagot and A. Viari.** A double combinatorial approach to discovering patterns in biological sequences. in D. Hirschberg and G. Myers (eds.), *Combinatorial Pattern Matching*, Laguna Beach, California, USA, volume 1075 of *Lecture Notes in Computer Science*, pages 186-208. Springer-Verlag, 1996.
- [30] **M.-F. Sagot and A. Viari.** Flexible identification of structural objects in nucleic acid sequences: palindromes, mirror repeats, pseudoknots and triple helices. in J. Hein and A. Apostolico (eds.), *Combinatorial Pattern Matching*, Aarhus, Denmark, volume 1264 of *Lecture Notes in Computer Science*, pages 224-246, Springer Verlag, 1997.
- [31] **M.-F. Sagot and E. W. Myers.** Identifying satellites in nucleic acid sequences. in S. Istrail, P. Pevzner and M. Waterman (eds.), *RECOMB 98*, New York, USA, *Proceedings of the Second Annual International Conference on Computational Molecular Biology*, pages 234-242, ACM Press, 1998.
- [32] **M.-F. Sagot.** Spelling approximate repeated or common motifs using a suffix tree. in C. L. Lucchesi and A. V. Moura (eds.), *LATIN'98, Theoretical Informatics.*, Campinas, Brazil, volume 1380 of *Lecture Notes in Computer Science*, pages 111-127, Springer Verlag, 1998.

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- [34] **E. M. Rodrigues, M.-F. Sagot and Y. Wakabayashi.** Some approximation results for the maximum agreement forest problem. in M. Goemans, K. Jansen, J. D. P. Rolim and L. Trevisan (eds.), *Approximation, Randomization and Combinatorial Optimization: Algorithms and Techniques (APPROX & RANDOM 2001)*, Berkeley, California, USA, volume 2129 of *Lecture Notes in Computer Science*, pages 159-169, Springer Verlag, 2001.
- [35] **N. Pisanti, M. Crochemore, R. Grossi, M.-F. Sagot.** A basis of tiling motifs for generating repeated patterns and its complexity for higher quorum. in *28th International Symposium on Mathematical Foundations of Computer Science*, volume 2747 of *Lecture Notes in Computer Science*, pages 622-632, 2003.
- [36] **A. Carvalho, Ana T. Freitas, A. L. Oliveira and M.-F. Sagot.** A parallel algorithm for the extraction of structured motifs. in *ACM Symposium on Applied Computing (SAC'04)*, ACM Press, in press, 2004.
- [37] **M. Crochemore, C. Iliopoulos, M. Mohamed, M.-F. Sagot.** Longest Repeated Motif with k Don't Cares. in *LATIN'04*, volume 2976 of *Lecture Notes in Computer Science*, pages 271-278, 2004.
- [38] **E. Tannier and M.-F. Sagot.** Sorting by reversals in subquadratic time. in *CPM'04*, volume 3109 of *Lecture Notes in Computer Science*, pages 1-13, 2004.
- [39] **J. Allali and M.-F. Sagot.** Novel tree edit operations for RNA secondary structure comparison. in *WABI'04*, volume 3240 of *Lecture Notes in Bioinformatics*, pages 412-425, 2004.
- [40] **M. Crochemore, R. Giancarlo and M.-F. Sagot.** Longest motifs with a functionally equivalent block. in *SPIRE'04*, volume 3246 of *Lecture Notes in Computer Science*, 2004.
- [41] **A. Carvalho, Ana T. Freitas, A. L. Oliveira and M.-F. Sagot.** Efficient Extraction of Structured Motifs Using Box-links. short paper in *SPIRE'04*, volume 3246 of *Lecture Notes in Computer Science*, pages 267-268, 2004.
- [42] **A. Carvalho, Ana T. Freitas, A. L. Oliveira and M.-F. Sagot.** A highly scalable algorithm for the extraction of cis-regulatory regions. Will appear in the Proceedings of *The 3rd Asia-Pacific Bioinformatics Conference (APBC'05)* published as a volume in the *Advances in Bioinformatics and Computational Biology* series, Imperial College Press, 2005.

- [43] **M.-F. Sagot and E. Tannier.** Perfect sorting by reversals. Will appear in the Proceedings of *COCOON'05*, 2005.
- [44] **V. Lacroix, C. Gomes Fernandes and M.-F. Sagot.** Reaction motifs in metabolic networks. Will appear in the Proceedings of *WABI'05*, 2005.
- [45] **E. Cambouropoulos, M. Crochemore, C. S. Iliopoulos, M. Mohamed, and M. F. Sagot.** A pattern extraction algorithm for abstract melodic representations that allow partial overlapping of intervallic categories. In Proceedings of the International Symposium on Music Information Retrieval (ISMIR'05), 2005.
- [46] **N. Pisanti, A. M. Carvalho, L. Marsan and M.-F. Sagot.** RISOTTO: Fast extraction of motifs with mismatches, In J. R. Correa, A. Hevia and M. Kiwi, editors, *Proceedings of the 7th Latin American Theoretical Informatics Symposium, Lecture Notes in Computer Science*, volume 3887, pages 757-768. Springer-Verlag, 2006.

Submitted to Refereed Journals or Conferences

- [47] **J. Allali and M.-F. Sagot.** The at most k -deep factor tree.
- [48] **E. M. Rodrigues, M.-F. Sagot and Y. Wakabayashi.** The Maximum Agreement Forest Problem: Approximation Algorithms and Computational Experiments.

Vulgarisation Journals

- [49] **M.-F. Sagot.** Combinatorial Algorithms in Computational Biology. *Ercim News* (<http://www.ercim.org>) no 43, pages 27-28.

Technical Reports

- [50] **N. Pisanti, M. Crochemore, R. Grossi and M.-F. Sagot.** A basis for repeated motifs in pattern discovery and text mining. Institut Gaspard Monge, University of Marne-la-Vallée, IGM 2002-10, Juillet 2002.
- [51] **N. Pisanti, M. Crochemore, R. Grossi and M.-F. Sagot.** Bases of Motifs for Generating Repeated Patterns with Don't Cares. University of Pisa, 24 January 2003.

Dissertations

- [52] **M.-F. Sagot.** *Analyse des structures primaire et tertiaire des protéines : localisation des mots répétés et recherche rapide sur banque.* “Mémoire de DEA d'Informatique Fondamentale”, University of Paris VII, 1993.

- [53] **M.-F. Sagot.** *Ressemblance lexicale et structurale entre macromolécules – Formalisation et approches combinatoires*. “Thèse de Doctorat d’Informatique Fondamentale”, University of Marne-la-Vallée, 1996.
- [54] **M.-F. Sagot.** *Hope is the thing with feathers – Combinatorial algorithms and molecular biology* (text in english). “Habilitation à Diriger les Recherches en Informatique Fondamentale”, University of Marne-la-Vallée, 2000.

Software

All the algorithms indicated below with the exception of two were implemented in C and their code is freely available to academics. Some have been distributed to researchers in french and non french labs (DuPont, Univ. Montréal, DKFZ, Perkin, Glasgow Univ. Scotland, “Grup de Recerca en Informàtica Biomédica (GRIB)” Spain, Hebrew Univ. Israel, Catania Univ. Italy, Milan Univ. Italy). All may be used, and have indeed been used to perform analyses in computational biology (see publications).

List of the algorithms implemented totally or in part by myself

Algorithms for motif inference in DNA (alice, combi, poivre, klast), alice was developed with V. Escalier and A. Viari;
 Algorithm for motif inference in proteins (cosamp), developed with A. Viari;
 Algorithms for the inference of small RNA structural motifs (pali, pseudo, triplex);
 Algorithm for the detection of tandem repeats (satellites), developed with G. Myers.

List of the algorithms implemented by the students

Algorithm for structured motif inference (SMILE), implemented by L. Marsan and J. Allali;
 Algorithm for gene prediction in eukaryotes (Utopia, written in C++), implemented by P. Blayo;
 Algorithm for the detection of recombination points (DRUID), implemented by M. Zeller;
 Algorithm for calculating the MAF (“Maximum Agreement Forest”) between two phylogenetic trees (Mafalda), implemented by E. M. Rodrigues;
 Algorithm of construction of at most k -deep factor tree (FactorTree, written in C++), implemented by J. Allali;
 Algorithm of comparison of RNA structures (Migal, written in C++), implemented by J. Allali.
 Algorithm for finding motifs in metabolic networks (Motus, written in C++), implemented by V. Lacroix.
 Algorithm for filtering sequences prior to a multiple alignment (Ed’Nimbus, written in C++), implemented by P. Peterlongo.

Presentations at conferences, seminars or others

First International IEEE Workshop on Shape and Pattern Matching in Computational Biology

Title : Finding flexible patterns in a text – An application to 3D molecular matching
 Seattle, Washington, USA, June 20, 1994

Second South American Workshop on String Processing

Title : Searching for repeated words in a text allowing for mismatches and gaps

Viñas del Mar, Chili, April 7, 1995

Realised jointly with LATIN'95, Theoretical Informatics

Combinatorial Pattern Matching Conf.

Title : Multiple comparison: a peptide matching approach

Helsinki, Finland, July 3-7, 1995

Third International Symposium on Intelligent Systems for Molecular Biology

Title : A distance-based block searching algorithm

Cambridge, England, July 16-19, 1995

Combinatorial Pattern Matching Conf.

Title : A combinatorial approach to discovering patterns in biological sequences

Laguna Beach, California, USA, June 10-12, 1996

Combinatorial Pattern Matching Conf.

Title : Flexible identification of structural objects in nucleic acid sequences: palindromes, mirror repeats, pseudoknots and triple helices

Aarhus, Denmark, June 30 - July 2, 1997

RECOMB Conf.

Title : Identifying satellites in nucleic acid sequences

New York, USA, March 22-25, 1998

LATIN Conf.

Title : Spelling approximate repeated or common motifs using a suffix tree

Campinas, Brazil, April 20-24, 1998

Poster at DIMACS Special Year on Mathematical Support for Molecular Biology – Workshop on Sequence Alignment

Title : Searching for approximate repeats in strings: application to multiple sequence alignment

Piscataway, New Jersey, USA, November 1994

GREG and GdR 1029 “Informatique et génomes”

Title : Analyse des structures primaire et secondaire des protéines : localisation des mots répétés

CIRM Luminy-Marseille, February 24-25, 1994

GREG and GdR 1029 “Informatique et génomes”

Title : Comparaison et alignement multiple de séquences biologiques

CIRM Luminy-Marseille, February 27-28, 1995.

GREG and GdR 1029 “Informatique et génomes”

Title : Le problème de Lawrence revisité (ou : Dieu joue peut-être aux dés mais avons-nous besoin de l'imiter?)

Institut Pasteur, Paris, October 16-18, 1995

Seminar of Algorithmics

Title : Comparaison et alignement multiple de séquences biologiques

University of Caen, March 7, 1995

Seminar of Combinatorics

Title : Ressemblance lexicale entre macromolécules – Formalisation et approches combinatoires

Institut of Mathematics and Statistics

University of São Paulo, Brazil, September 10, 1996

Séminar of algorithmics

Title : Ressemblance lexicale entre macromolécules – Formalisation et approches combinatoires

University of Rouen, March 27, 1997

Seminar organised by the “Service d’Informatique Scientifique” of the Institut Pasteur

Title : Ressemblance lexicale entre macromolécules – Formalisation et approches combinatoires

Institut Pasteur, Paris, April 11, 1997

Sequencing Day organised by the “Service d’Informatique Scientifique” of the Institut Pasteur

Title : Algorithmes pour l’assemblage de fragments issus d’un séquençage

Institut Pasteur, Paris, April 29, 1997

General seminar of the Institut Gaspard Monge

Title : “BioInformatique” et algorithmes combinatoires

Institut Gaspard Monge, University of Marne-la-Vallée, December 16, 1997

Gene Prediction Day organised by the “Service d’Informatique Scientifique” of the Institut Pasteur

Title : Algorithmes pour la prédiction de gènes

Institut Pasteur, Paris, February 2, 1998

Seminar organised by the “Service d’Informatique Scientifique” of the Institut Pasteur

Title : Identification de satellites et de répétitions périodiques dans les séquences biologiques

Institut Pasteur, Paris, October 15, 1998

Series of three seminars in the context of a project CAPES/COFECUB

Title : Combinatorial approaches for approximate pattern inference - Some applications to genome analysis

Sub-Titles :

1. Simple sequence or structural patterns – Two examples with proteins
2. Structured patterns – Two examples with DNA (promoter sequences and palindromic units/BIMes)
3. Tandem arrays – An example with both DNA (satellites) and proteins

Institute of Mathematics and Statistics

University of São Paulo, Brazil, February 1, 2 and 4, 1999

Seminar of the “Association Française pour l’Avancement des Sciences”

Title : Un algorithme d’identification de satellites et de répétitions périodiques dans les séquences biologiques

“Palais de la Découverte”, Paris, April 15, 1999

“Kolloquium” of the Departement of Computer Science of the University Ludwig Maximilians in Munich

Title : On the use of models for combinatorially identifying approximate factors in strings

Institute of Computer Science, University Ludwig Maximilians, Munich, Mai 25, 1999

Serie of seminars over two days at the “Groupe Bio Informatique Auvergne” (GBIA)

Title : Comparaison de séquences nucléiques et protéiques et identification de régularités. Concepts, principales méthodes et quelques applications

INRA Clermont, Station d’Amélioration des Plantes, January 10-11, 2000

Seminar at the Vlaams interuniversitair Instituut voor Biotechnologie (Gent)

Title : Promoter consensus prediction from a whole prokaryote genome

Vlaams interuniversitair Instituut voor Biotechnologie, Gent, Belgium, January 26, 2000

Seminar of the “Laboratoire de Biométrie Moléculaire, Évolution et Structure des Génomes” of the University of Lyon I

Title : Prédiction de consensus pour les séquences promotrices et les sites régulateurs

University of Lyon I, February 4, 2000

Seminar of the “Groupe de travail Info-Bio-Math-Phy” of Marseille

Title : Une rencontre de l’algorithmique combinatoire et de la biologie moléculaire. Introduction aux divers problèmes posés et développement d’un exemple particulier : Extraction de motifs structurés approchés impliqués dans la régulation des gènes chez les procaryotes

Center for Mathematics and Computer Science, Marseille, February 10, 2000

Seminar of Algorithmics LRI (Orsay) and LIX (École Polytechnique)

Title : Une rencontre de l’algorithmique combinatoire et de la biologie moléculaire. Introduction aux divers problèmes posés et développement d’un exemple particulier : Extraction de motifs structurés approchés impliqués dans la régulation des gènes chez les procaryotes

LIR, University of Orsay, Paris, February 17, 2000

Seminar at the “Colloque de la Société Française de Microbiologie”

Title : Génomique et informatique

Institut Pasteur, Paris, September 26, 2000

Invited conference at the “Colloque Traitement et Analyse des Séquences”

Titre : Algorithmes combinatoires et biologie moléculaire

Université d’Évry, Évry, November 22-24, 2000

Seminar at the Hôpital Necker - Enfants Malades

Title : Inférence de motifs impliqués dans certains processus biologiques : ce que nous savons faire et les nombreux problèmes qui demeurent

Hôpital Necker, Paris, 30 Novembre 2000

Seminar at the “Colloque Détection de Gènes - Méthodes et Outils”

Title : Détection de signaux et de gènes, séparément ou simultanément

CGM, Gif-sur-Yvette, 5-6 Mars 2001

Series of three seminars at the Computer Science Department of the University of Palermo

Titles :

1. Motif extraction
2. On the syntenic distance between genomes

Palermo, Sicily, Italy, May 12-20, 2001

Seminar of the “Laboratoire d’Informatique” of Nantes (IRIN)

Title : Algorithmes combinatoires et biologie moléculaire

University of Nantes, May 3, 2001

Special Session on Combinatorics at the 23rd Brazilian Colloquium on Mathematics

Title : On the syntenic distance between genomes (A few results and conjectures)

IMPA, Rio de Janeiro, Brazil, July 23, 2001

Seminar of the Computer Science Department

Title : Combinatorial algorithms and molecular biology

University of Chile, Santiago, Chile, October 16, 2001

Seminar of the “Laboratoire Biométrie et de Biologie Évolutive” of the University of Lyon I

Title : Un lac, deux villes et trois rivières. Sous-titre : Algorithmes combinatoires et biologie moléculaire

University of Lyon I, November 8, 2001

General seminar of the Institut Gaspard Monge

Title : Some approximation results for the Maximum Agreement Forest (MAF) problem

Institut Gaspard Monge, University of Marne-la-Vallée, November 13, 2001

Seminar of the “Laboratoire d’Informatique, de Robotique et de Microélectronique de Montpellier” (LIRMM)

Title : Détection de signaux et de gènes

Laboratoire d’Informatique, de Robotique et de Microélectronique de Montpellier , University of Montpellier, January 24, 2002

General seminar of the Inria Rhône-Alpes

Title : Un lac, deux villes et quatre rivières. Sous-titre : Algorithmes combinatoires et biologie moléculaire

Inria Rhône-Alpes, January 31, 2002

Seminar of the Laboratoire de Probabilité, Combinatoire et Statistiques (LACS)

Title : Some approximation results for the Maximum Agreement Forest (MAF) problem

Laboratoire de Probabilité, Combinatoire et Statistiques, University of Lyon1, February 7, 2002.

Seminar at Dagstuhl

Titre : Motif inference

Dagstuhl Schloss, Dagstuhl, Germany, November 17, 2002

Seminar of the “Instituto Gulbenkian de Ciência”

Titre : Combinatorial algorithms and molecular biology

Instituto Gulbenkian de Ciência, Lisbon, Portugal, November 26, 2002

Seminar of the “Groupe de travail Info-Bio-Math-Phy” of Marseille

Title : Un petit tour du côté de l’inférence de motifs

Centre de Mathématiques et Informatique, Marseille, January 16, 2003

Seminar of the Department of Computer Science, University of Helsinki, Finland

Title : Some combinatorial algorithms for molecular biology

Department of Computer Science, University of Helsinki, Finland, May 8, 2003

Third Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics and Computing, Haifa, Israel

Title : Tiny steps towards addressing one part of the DNA rearrangement puzzle

CRI, University of Haifa, Haifa, Israel, May 29, 2003

Seminar of the Department of Computer Science, Tel Aviv University, Israel

Title : Motifs and regulation

Department of Computer Science, Tel Aviv University, Israel, June 1, 2003

First Workshop on Post-Genome Algorithms, Bertinoro, Italy

Title : Tiny steps towards addressing a small part of the DNA rearrangement puzzle

University of Bologna Residential Center Bertinoro (Forlì), Italy, June, 2003

11th general meeting of the European Women in Mathematics

Title : Tiny steps for one part of the DNA rearrangement puzzle

CIRM, Luminy, Marseille, France, November 4, 2003

Seminar of the The Linnaeus Centre for Bioinformatics, Uppsala University

Title : Biological motif inference

Linnaeus Centre for Bioinformatics, Uppsala University, Sweden, November 11, 2003

Phylogenetic combinatorics and applications, Uppsala University

Title : Sorting by reversals in subquadratic time

Uppsala University, Sweden, July 6, 2004

Journées Montoises

Title : On bases of motifs

University of Liège, Belgium, September 11, 2004

WABI/ALGOS 2004

Title : Some questions around genome rearrangements

Bergen, Norway, September 16, 2004

2nd RECOMB Comparative Genomics Satellite Workshop

Title : Some questions around genome rearrangements

University of Bologna Residential Center Bertinoro (Forlì), Italy, October, 2004

Seminar at the Vlaams interuniversitair Instituut voor Biotechnologie (Gent)

Title : Motifs in metabolic networks

Vlaams interuniversitair Instituut voor Biotechnologie, Gent, Belgium, September 27, 2004

Seminar at the Combinatorics Seminar of the Department of Computer Science of the University of São Paulo

Title : Some questions around genome rearrangements

Institute of Mathematics and Statistics

University of São Paulo, Brazil, December 10, 2004

Invitations

University of Arizona, Tucson, USA, visiting Gene Myers, January-February, 1998

University of Palermo, Palermo, Sicily, visiting Raffaele Giancarlo, May 12-20, 2001

23rd Brazilian Colloquium on Mathematics, IMPA, Rio de Janeiro, Brazil, July 22-27, 2001, invited speaker

Dagstuhl Seminar on Computational Biology, Dagstuhl, Germany, November 17-22, 2003

Third Haifa Workshop on Interdisciplinary Applications of Graph Theory, Combinatorics and Computing, Haifa, Israel, May 27-29, 2003, invited speaker

First Workshop on Post-Genome Algorithms, Bertinoro, Italy, June 7-13, 2003, invited speaker

Workshop on Combinatorics, Algorithms, and Applications, Brazil, September 1-5, 2003, invited speaker

IMA/RECOMB Satellite Workshop on Comparative Genomics, University of Minnesota, Minneapolis, USA, October 20-24, 2003

WABI/ALGOS 2004, Bergen, Norway, September 13-17, 2004, invited speaker.

Second RECOMB Comparative Genomics Satellite Workshop, Bertinoro, Italy, October 16-19, 2004, invited speaker.

Dagstuhl Seminar on Managing and Mining Genome Information: Frontiers in Bioinformatics, Dagstuhl, Germany, October 30 - November 4, 2005, invited speaker.