



**Laurent PUJO-MENJOUET**  
**Associate Professor with Habilitation**  
University Claude Bernard, Lyon 1  
Camille Jordan Institute, UMR 5208  
Section CNU : 26

Birthdate January, 25 1973

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## FORMATION ET DIPLOMAS

<b>Habilitation</b>	<b>Habilitation in Applied Mathematics</b>	December	2016
<b>PhD</b>	<b>PhD in Applied Mathematics with honors</b>	September	2001

**Title:** *Contribution to the study of a delay equation describing cell population dynamics,*  
Under the supervision of professors O. Arino and M. Adimy

**Post-doctorate** McGill university, Montreal (Canada), Center of Nonlinear (CND)  
under the supervision of professor M. C. Mackey (2001 - 2003)

**Assistant Professor** Vanderbilt university, Nashville, TN, USA (2003 – 2005)

**Associate Professor** University Claude Bernard, Lyon1 since 2005  
Habilitation to supervise research since 2016

## AWARDS AND GRANTS

**Awards and Grant** PES since 2013- PEDR between 2009 and 2013  
Contract FCRF (TORONTO-LYON) (2014-2016)  
Winner of the Institute of complex systems grant (2016)  
Winner of the FRANCE-ALZHEIMER grant (2015-2017)  
Project PHC POLONIUM (2014 – 2015)  
Contract ANR-08-JCJC-0135 MADCOW (2008-2012)  
MITACS Exhibition Award (2002)  
MITACS "Mobility" Award (2003)

## TEACHING SKILLS

**Teaching** **Tutoring** in 1997, **3 teaching assistant**, university of Pau (1998 / 2001)  
**Teaching assistant** (2002), McGill university, Montréal, Canada  
**Assistant professor** (2003- 2005) Vanderbilt university, Nashville, USA  
**Associate professor** (2005-now)  
**Supervisor of six doctorate and post-doctorate students:** E. Hingant et R. Yvinec (2009/2012), M. Helal (2011-2013)), L. Boullu (2014-), A. Canet (2016-), P. Lemarre (2017-), P. Mazzocco (2015-2016) (post-doc)  
**In charge of the bio-math formation** in our MASTER 2 applied mathematics, statistics of the university Lyon 1  
Supervising internship of Master 1 and 2 students

## PUBLICATIONS-CONFERENCES (see following pages)

## NATIONAL AND INTERNATIONAL ACTIVITIES

### 1- Conferences, colloquia, invitations, schools:

Number of conferences attended: 100

In the past 10 years: 76

In the past 5 years: 41

#### 2017

- 20 NOV. PopLang workshop, Population effects on languages, Lyon, FRANCE, *co-organizer*  
16-17 NOV. LyonSysBio 2017, Lyon, FRANCE  
2 NOV. Jury of Ph.D. defense, Moscow, RUSSIA  
27 SEPT. meet'up Social Robots World Community, Lyon, FRANCE, *oral presentation*  
27-29 SEPT. GDR MAMOVI, Lyon, France  
4-8 SEPT ECAL (European Conference on Artificial Life), Lyon, FRANCE, *oral presentation*  
7 JULY Congrès Psyène, Lyon, FRANCE, *oral presentation*  
4 JULY ARC 6, Grenoble, FRANCE, *oral presentation*  
29-30 JUNE BIOMIM EXPO, Sanlis, FRANCE, *oral presentation*  
22 JUNE Working group-meeting, prion-Alzheimer, Torino, ITALIA, *oral presentation*  
6-8 JUNE Protein Aggregation: Biophysics and Mathematics, Vienne, AUSTRIA, *oral presentation*  
30 MAY Salon des Jeux Mathématiques, Paris, FRANCE, *oral presentation*  
17-21 APRIL SpC17, Spring course, Lyon, FRANCE, *oral presentation*  
4 APRIL SEMOVI, Lyon, FRANCE  
24 MARCH Math en Jeans congress, Grenoble, FRANCE  
16 MARCH High school research talk, Villeurbanne, FRANCE, *oral presentation*

#### 2016

- 16-18 NOV. Lyon-SysBio, Lyon, FRANCE  
6 OCT. Math-bio seminar, Marseille university, FRANCE, *oral presentation*  
1-5 JULY 11th AIMS conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, *oral presentation*  
1-5 JULY 11th AIMS conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, *Session organizer and oral presentation*,  
20-22 JUNE Workshop Analyzing Morphomological Systems, University Lyon 2, FRANCE  
4 MAY High school research talk, Villeurbanne, FRANCE, *oral presentation*  
28 APRIL Junior High school research talk, Saint Bonnet, FRANCE, *oral presentation*  
22-23 MARCH  
Inria Cancer days, Workshop, Centre Inria Paris, FRANCE  
18 MARCH Junior High school research talk, Saint Bonnet, FRANCE, *oral presentation*  
14 MARCH TV News report on French National Chanel, France 3  
3 FEB. Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*  
**co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**

#### 2015

- SEPT. Invitation of professor Abdelkader Lakmeche 2015-2016  
23 SEPT.  
Math en Jeans, Roanne, FRANCE, *oral presentation*  
30 AUG.-8 SEPT.  
CAIMS Distinguished Mathematical Biology Lecture: York University, Toronto, CANADA, *oral presentation*  
6-10 JULY Co-organizer of a mini symposium Equadiff2015, Lyon, FRANCE  
25-29 MAY Workshop Short Thematic Program on Delay Differential Equations, Theme on Delay differential equations in life sciences and medicine, Fields Institute, Toronto, CANADA  
17 MARCH High school research talk, Roanne, FRANCE, *oral presentation*  
**co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**

#### 2014

- 19-21 NOV. Lyon SysBio 2014, Lyon, FRANCE  
8 OCT. Math en Jeans, Roanne, FRANCE, *oral presentation*  
16 SEPT. Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*

- 25-30 AUG.** Franco Roumain colloquium in applied mathematics, Lyon, FRANCE, *oral presentation*
- 7-11 JULY** 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, SPAIN, *oral presentation*
- 7-11 JULY** Co-organizer of a mini symposium, 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, SPAIN
- co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**
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- 2013**
- MARCH- JUNE**  
Co-organizer of 4 conferences «Mathématique et Biologie», LABEX Milyon, Lyon, FRANCE
- 28 MARS** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- MARS** Invitation of professor Jianhong Wu (CANADA) to Lyon (10 days)
- JANVIER** Invitation of professor Michael C. Mackey (CANADA) to Lyon (1 month)
- co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**
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- 2012**
- 1-5 JULY** 9th AIMS conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, *oral presentation*
- 2 FEVRIER** High school research talk, Lyon, FRANCE, *oral presentation*
- co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**
- 
- 2011**
- 13 OCT.** Science days, *oral presentation*
- JUNE** Invitation of Glenn F. Webb (USA) , 1 month, Lyon, FRANCE
- 22 MARCH** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**
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- 2010**
- 21 SEPT.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- 24-29 JULY** SMB 2010 ANNUAL MEETING / BIOMAT 2010 Symposium, Rio de Janeiro, BRASIL, *Présentation orale*
- 25 -28 MAY** 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications (AIMS 2010), Dresden, GERMANY, *Présentation orale*
- 11 MARCH** The MASS : Maths and Applications Sussex Seminar, University of Sussex, Department of Mathematics, Brighton, ENGLAND, *Présentation orale*
- 28 JAN.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- co-organizer of the math-bio seminars (Inria, Dracula Team, La Doua, Lyon, FRANCE) since 2010**
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- 2009**
- 30 NOV.-1 DEC.**  
Vingt-Deuxièmes Entretiens du Centre Jacques Cartier, colloquium « Santé et Systèmes complexes, l'Institut de Physique Nucléaire, Lyon, FRANCE, *oral presentation*
- 8 OCT.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- 20 JULY -28 AUG.**  
CEMRACS 2009, Mathematics and medicine, CIRM, Luminy, Marseille, FRANCE
- 28-29 MAY** Conference Atherosclerosis, Lyon, FRANCE
- 27 APRIL -2 MAY**  
Workshop on Mathematical Modelling in Biology and Medicine, Dubrovnik, CROATIA, **co-organizer, oral presentation**
- 3 APRIL**  
High school research talk, Lyon, FRANCE, *oral presentation*
- 26 FEB.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
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- 2008**
- 8 OCT.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*
- 3-7 SEPT.** Differential Equations and Applications in Life Sciences, Iasi, ROMANIA, *oral presentation*
- 16-20 JUNE** Workshop Population Dynamics and Mathematical Biology, CIRM, LUMINY, Marseille, FRANCE, *oral presentation*
- 10 APRIL** Journée Modélisation de la Croissance des Plantes, IXXI, Lyon, FRANCE

## **20-21 MARCH**

Workshop “Haematopoiesis and its disorders. Modelling, experimental and clinical approaches”, Paris, FRANCE, *oral presentation*

**6-8 FEB.** First congress of the Moroccan society of Applied Maths., ENIM, Rabat, MOROCCO, *oral presentation*

**24 JAN.** Popularizing conference, Université Ouverte, Lyon, FRANCE, *oral presentation*

**3-8 JAN.** Marrakesh International Conference and Workshop on Mathematical Biology, Marrakech, MAROC, *oral presentation*

## **2007**

**15-16 NOV.** EPD Rhône-Alpes-Auvergne days, Lyon, FRANCE, *oral presentation*

**5-8 NOV.** Workshop Modelling of Blood Disease, Lyon, FRANCE, *co-organizer and oral presentation*

**26-28 JUNE** Euro Mediterranean Conference on BIOMATHEMATICS, Cairo, EGYPT, *oral presentation*

**15 MARCH** GT SMABio, Jussieu, Paris, FRANCE, *oral presentation*

**1 MARCH** Seminar Heraklion, Crete, GREECE, *oral presentation*

**6 FEB.** ARC ModLMC, INRIA, Bordeaux, FRANCE, *oral presentation*

**1 FEB.** Seminar Laboratoire de Biométrie et Biologie Evolutive, Lyon, FRANCE, *oral presentation*

## **2006**

**27 DEC.** Seminar: Modélisation Mathématique pour la Biologie et la Santé, Lyon, FRANCE, *oral presentation*

**13 NOV.** ISC Days, ENS, Lyon, FRANCE, *oral presentation*

**3 NOV.** Modélisation Mathématique pour la Biologie et la Santé, Lyon, FRANCE, *oral presentation*

**25-28 JUNE** AIMS Conference Series on Dynamical Systems and Differential Equations, Poitiers, FRANCE, *oral presentation*

**15-20 JUNE** Marrakesh World Conference On Differential Equations And Applications, Marrakesh, MOROCCO, *oral presentation*

## **2005**

**8 DEC.** Seminar Modélisation Mathématique pour La Biologie et La Santé, Lyon, FRANCE, *oral presentation*

**11-13 JULY** Workshop "Differential Equations in Mathematical Biology" Université du Havre, Le Havre, FRANCE, *oral presentation*

## **2004**

**16-17 OCT.** 2004 Fall Southeastern Section Meeting, Vanderbilt University, Nashville, TN, USA, *Co-organizer, oral presentation*

**21-25 JUNE** 7th international conference on mathematical population dynamics and DESTOBIO 3, Trento, ITALIA, *oral presentation*

## **2003**

**19 NOV.** Vanderbilt University, Biomathematics Study Group, USA, *oral presentation*

**24 - 25 OCT.** AMS Sectional Meeting, Fall Southeastern Section *oral presentation*

**22 - 23 OCT.** MITACS NCE Biomedical Theme Meeting at BIRS Banff, Alberta, CANADA, *oral presentation*

**16 - 20 JUNE** First Joint Meeting of CAIMS and SIAM 24th Annual Meeting of CAIMS/SCMAI, 2003 SIAM Annual Meeting (AN03), Montreal, Quebec, CANADA, *oral presentation*

**8 - 10 MAY** MITACS, 4th Annual General Meeting and Exhibition», Ottawa, CANADA, *poster presentation*

## **2002**

**24 - 28 JUNE** Conference on Population Dynamics, Będlewo, POLAND, *associated partner, oral presentation*

**23 - 25 MAY** MITACS, 3rd Annual General Meeting and Exhibition, Vancouver, BC, CANADA, *poster presentation*

**6 - 8 MARCH**

SIAM, conference in Life Sciences, *poster presentation*, Boston, USA

## 2001

**3 - 7 DEC.** Workshop on computational challenges in dynamical systems, The Fields Institute, Toronto, CANADA

**29 NOV. - 2 DEC.**

Workshop on computational biology, The Fields Institute for Research in Mathematical Sciences, Toronto, CANADA

## 2000

**23 - 27 AUG.** DESTOBIO 2000, West Lafayette, Indiana, USA, *oral presentation*

## 1999

**9 MARCH - 2 APRIL**

GDR «Fragmentation et retards en dynamique de population», CIRM, Marseille, FRANCE

**26 - 30 JAN.** Cancer and cell cycle, ISREC, Lausanne, SWITZERLAND

## 1998

**4 - 8 SEPT.** Alcala Ist International Conference on Mathematical Ecology, Alcala de Henares, SPAIN, *oral presentation*

**29 JUNE - 3 JULY**

Conference on Asymptotic Properties of Evolution Equations and their Applications, Stefan Banach International Mathematical Center, Warsaw, POLAND, *oral presentation*

**21 - 26 JUNE**

Fifth International Conference on the Mathematical Population Dynamics, Zakopane, POLAND, *oral presentation*

**8 - 12 JUNE** Gordon Research Conference on Theoretical Biology and Biomathematics, Tilton College, New Hampshire, USA, *oral presentation*

**11 - 15 MAY** Population Dynamics Workshop, Gothenburg, SWEDEN, *oral presentation*

## 1997

**15-16 SEPT.** Vèmes journées de Mathématiques Appliquées, Jaca, SPAIN, *oral presentation*

**7 - 11 APRIL** Groupe de recherche de Claude Lobry - ressources renouvelables au CIRM, Marseille, FRANCE

## 2- Stages et séjours de recherche:

**2016** JULY CUNY, New York City, USA with J.-P. Berteau

**2015** SEPT. York University, Toronto, CANADA with J. Wu

**2007** MARCH Heraklio, Crete, GRECE, with Samuel Bernard

## 2003

**7 - 9 JUNE** with H. Herzog, Institute of theoretical biology, Humboldt University, Berlin, GERMANY, *oral presentation*

## 2002

**8 - 11 JUNE** with Professeur S. Ruan, Dalhousie university, Halifax, CANADA, *oral presentation*

**2 - 5 APRIL** with G. Webb, Vanderbilt university, Nashville, TN, USA, *oral presentation*

**1 FEB.** Applied Math. Department, Alberta University, Edmonton, CANADA, *oral presentation*

**30 JAN.** Seminar at the Bio-physics department, Alberta University, Edmonton, CANADA, *oral presentation*

## 2000

**23 NOV. - 10 DEC.**

North York university, Toronto, CANADA, with J. Wu, *oral presentation*

**16 OCT. - 12 NOV.**

Mathematics Institute, Katowice, POLOGNE with R. Rudnicki Polonium, France

**10 SEPT. - 8 OCT.**

Université de Pau, with R. Rudnicki under action intégrée Polonium program, France

## 1999

**OCT. - NOV.** Research internship with R. Rudnicki, PAU, FRANCE

**3 - 8 SEPT.** Mathematics Institute, Katowice, POLOGNE with R. Rudnicki Polonium, France 1998

OCT. – NOV.

Center for Nonlinear Dynamics, Internship, McGill university, Montreal, CANADA with M.C. Mackey

### **3- Collaboration with editors / government organisms and universities:**

#### **COLLABORATION AS EDITORIAL BOARD MEMBER**

- 2006-PRESENT** ASSOCIATE EDITOR of the Journal of Mathematical Modelling of Natural Phenomena
- 2009-PRESENT** FRONTIER REVIEW EDITOR du journal FRONTIERS in Systems Biology
- 2011-PRESENT** Editorial Board of ISRN Biomathematics
- 2015-PRESENT** Editorial Board of the Journal of Theoretical Biology

#### **COLLABORATIONS WITH EDITEURS AS A REFEREE**

**Number of journals I collaborate with: 28**

- Computers and Math. with Applications
- Bulletin for Mathematical Biology
- Journal of Nonlinear Analysis: Series B
- Journal of Math. Anal. and Applications
- Journal of Theoretical Biology
- Mathematical Medicine and Biology
- Molecular Pharmacology
- International Journal of Mathematics and Mathematical Sciences
- International Journal of Computer Mathematics
- Journal of Biological Dynamics
- Mathematical BioSciences
- Wiley Interdisciplinary Reviews: Systems Biology and Medicine
- Journal of Mathematical Modelling of Natural Phenomena
- Bulletin for Mathematical Biology
- Journal of Mathematical Biology
- Mathematical and Computer Modelling
- Mathematics and Computer Simulations
- Discrete and Continuous Dynamical Systems-B

#### **COLLABORATION WITH GOVERNMENT ORGANISMS**

**17, 18 MARCH 2005** Member of the National Science Foundation (NSF) panel, Washington DC, USA

#### **COLLABORATION WITH UNIVERSITIES AND OTHER RESEARCH ORGANISMS**

- 2016-PRESENT** Correspondent of the Foreign Exchange Program for the math. Department
- 2014-2017** Image des mathématiques, press review contributor
- 2011-PRESENT** Member of the INRIA DRACULA team
- 2010-PRESENT** Elected member of the consultative committee of Camille Jordan Institute
- NOV. 2017** Jury member of T. Galochkina Ph.D. defense, Moscow Univ., Moscow, RUSSIA
- JUNE 2017** Jury member of S. Bernard Habilitation defense, Lyon univeristy, Lyon, FRANCE
- SEPT. 2015** Jury member of P. Mazzocco Ph.D. defense, Grenoble university, FRANCE
- MAY 2010** Member of the recruitment committee University of PAU, FRANCE
- OCT. 2009** Jury member of N.Lenuzza Ph.D. defense, Ecole Centrale Paris et CEA, FRANCE
- 29 MARCH 2005** Jury member of master thesis, Bates College, Maine, USA

### **4- Collaboration with private companies:**

- 2015** Since March 2015, I collaborate with Neolys Diagnostics, leading to the co-supervision of a Ph.D. student (A. Canet)
- 2015** Since March 2015, I collaborate with B-soft for the development of a smartphone app.

### **5- Awards:**

- 2015** **Awarded** of a project financial at the **2009 ANR-08-JCJC-0135 MADCOW**  
Complex System Institute des (IXXI) **PEDR 2009-2013 - PES 2013-2017**
- 2015** **Awarded** from France-Alzheimer (3 ans) **2006 -BQR (Bonus Qualité Recherche)**
- 2014** **CONTRACT** FCRF (TORONTO-LYON) **2003 -MITACS "Mobility"**
- (2014-2016) **2002 -MITACS** Exhibition (Mathematics  
**PROJECT PHC , POLONIUM** of Information Technology and Complex

Systems), Second Place in the Third Annual General Meeting, UBC, Vancouver, British Columbia, Canada

**2001 -Postdoctoral** MITACS (Mathematics of Information Technology and Complex Systems)

## SCIENTIFIC ANIMATION

### 1- Postdoc, Ph.D Supervision/ Internship supervision/Courses head:

#### **POST-DOC :**

##### **2015-2016 :**

P. Mazzocco (supported by my France-Alzheimer grant)

#### **Ph.D. :**

##### **2015-PRESENT :**

A. Canet (with Neolys company)

##### **2014-PRESENT :**

L. Boullu (with university of Montréal)

##### **2011-2013:**

M. Helal

##### **2009 - 2012:**

E. Hingant and R. Yvinec

#### **MASTER INTERNSHIP:**

Since 2007: supervision of

-36 master 1 students,

-17 master 2 students

**2017 :** 4 master 2, 3 master,

**2016 :** 2 master 2, 4 master 1, 4 undergraduates,

**2015 :** 4 master 2, 6 master 1, 3 undergraduates,

**2014 :** 1 master 2, 3 master 1,

**2013 :** 1 master 2, 3 master 1,

**2012 :** 2 master 2, 7 master 1,

**2011 :** 2 master 2, 3 master 1,

**2010 :** 3 master 1, 4 undergraduates,

**2009:** 2 master 1,

**2008 :** 1 master 1, 1 undergraduates,

**2007 :** 1 master 1,

#### **TEACHING :**

##### **2005-PRESENT**

Associate professor at university Claude Bernard Lyon 1, in the math. Department, in charge of a large number of math. Classes, and in charge of the master 2 bio-math. curriculum

##### **2003-2005**

Assistant Professor, Vanderbilt University, Nashville, Tennessee, USA

**2002-2003** Lecturer McGill university, Montreal, Canada

### 2- Team member / Committe / :

**2006-PRESENT:** Member of the Modélisation Mathématique et Calcul Scientifique

**2010-PRESENT:** Member of the INRIA DRACULA team

**2010-PRESENT:** Elected member of the consultative committee of Camille Jordan Institute

**2012-PRESENT:** Member of the ESMTB (European Society for Mathematical and Theoretical Biology)

**2013-PRESENT:** In charge of the Master 2 curriculum in math. Applied to biology and medicine (Master math in Action)

## PUBLICATIONS

### 2017

**38.** « Analysis of an ATM nucleoshuttling model », *L. Bodgi, A. Canet, N. Foray, L. Pujo-Menjouet* », (*in preparation*)

**37.** « Language Competition: Analysis and Qualitative Simulations of a Deterministic Age-Structured Mathematical Model », *M. Bergot, L. M. Tine, L. Pujo-Menjouet, N. Pagès, V. Arnaud, F. Pellegrino, G. Walther* s(*in preparation*)

**36.** « Generalizing a Mathematical Model of Prion Aggregation Allows Strain Coexistence and Co-Stability by Including a Novel Misfolded Species », *P. Lemarre, L. Pujo-Menjouet, S.S. Sindi* (*submitted*)

**35.** « Stability Analysis of a Steady State of a Model Describing Alzheimer's Disease and Interactions with Prion Proteins », *M. Helal, A. Lakmeche, P. Mazzocco, A. Perrillat-Mercerot, L. Pujo-Menjouet, H. Rezaei, L. M. Tine* (*submitted*)

**34.** « Alzheimer's disease and prion: an in vitro mathematical model », *I.S. Ciuperca, M. Dumont, A. Lakmeche, P. Mazzocco, L. Pujo-Menjouet, H. Rezaei, L. M. Tine* (*submitted*)

**33.** « Global Asymptotic Stability and Oscillations for a Delay Differential Equation Modeling Platelet Production », *L. Boullu, M. Adimy, F. Crauste, L. Pujo-Menjouet*, (*submitted*)

32. « Estimates and impact of lymphocyte division parameters from CFSE data using mathematical modelling », P. Mazzocco, S. Bernard, L. Pujo-Menjouet (*Plos One*, <https://doi.org/10.1371/journal.pone.0179768>, 2017)

31. « The illusion of Life », L. Pujo-Menjouet, A. Wessel-Therhorn (*Cambridge, MA: The MIT Press, Massachusetts Institute of Technology, Vol. 14, Pages 4-5, 2017*)

#### 2015-2016

30. « Blood cell dynamics : half of a century of modelling », L. Pujo-Menjouet (*Math. Model. Nat. Phenom. Vol.10, No. 6, 2015, 182-204*)

29. « Mathematical models of radiation action on living cells : From target theory to the modern approaches. A historical and critical review », L. Bodgi, A. Canet, L. Pujo-Menjouet, A. Lesne, J.-M. Victor, N. Foray, (*Journal of Theoretical Biology, 394, 2016, 93-101*)

28. « First passage times in homogeneous nucleation : Dependence on the total number of particles », R. Yvinec, S. Bernard, E. Hingant, L. Pujo-Menjouet, (*The journal of chemical physics, 2016, 144, 034106, doi : 10.1063/1.4940033*)

27. « Analysis of mathematical model of leukemia », M. Adimy, M. Helal, A. Lakmeche, L. Pujo-Menjouet (*ITM Web of conference, 4, 01005, 2015*)

#### 2014

26. « A micellar on-pathway intermediate step explains the kinetic of prion amyloid formation », M.-T. Alvarez-Martinez, P. Fontes, J.-D. Arnaud, E. Hingant, L. Pujo-Menjouet and J.-P. Liautard, (*PLOS Computational Biology, 2014, vol 10, Issue 8, e1003735*)

25. « Structures de Turing et équations de réaction-diffusion », L. Pujo-Menjouet, (*book chapter: Epistémologies et pratiques de la modélisation et de la simulation, tome 2, 2014*)

#### 2013

24. « Role of prion protein in Alzheimer disease : a mathematical model », M. Helal, E. Hingant, L. Pujo-Menjouet, G.F. Webb, *JOMB (2013), DOI 10.1007/s00285-013-0732-0*

#### 2012

23. « Fragmentation and monomers lengthening of rod-like polymers, a relevant model of prion proliferation », I. S. Ciuperca, E. Hingant, L. I. Palade, L. Pujo-Menjouet, (*Discrete and Continuous Dynamical Systems – B, Vol. 17, no. 3 May 2012*)

#### 2011

22. « Dynamics of polymerization shed light on the mechanisms that lead to multiple amyloid structures of the prion protein », M.-T. Alvarez-Martinez, P. Fontes, V. Zomosa-Signoret, J.-D. Arnaud, E. Hingant, L. Pujo-Menjouet and J.-P. Liautard, (*Biochimica et Biophysica Acta (BBA) - Proteins & Proteomics, vol. 1814, pp. 1305-1317, 2011*)

21. « Multi-Agent Systems and Blood Cell Formation », N. Bessonov, I. Demin, P. Kurbatova, L. Pujo-Menjouet, V. Volpert, *Multi-Agent Systems, chapitre de livre "MULTI AGENT SYSTEMS MODELING, INTERACTIONS, SIMULATIONS AND CASE STUDIES, InTech Publishers (2011) pp 395-424*

#### 2010

20. « Modélisation numérique de l'hématopoïèse », M. Adimy, F. Crauste, L. Pujo-Menjouet, *chapitre de livre, Hermès Science Publications, Le passage de la culture au numérique : une grande transformation*

19. « Mathematical Modeling of Hematopoiesis », S. Bernard, C. Colijn, J. Lei, M.C. Mackey, L. Pujo-Menjouet, *Encyclopedia of Life Support Systems (EOLSS), UNESCO ENCYCLOPEDIA*

#### 2009

18. « A multi-agent model describing self-renewal of differentiation effects on the blood cell population », N. Bessonov, I. Demin, L. Pujo-Menjouet, V. Volpert, *Mathematical and Computer Modelling, 49 (2009) 2116-2127*

#### 2008

17. « Modélisation de la dynamique de l'hématopoïèse normale et pathologique », M. Adimy, S. Bernard, J. Clairambault, F. Crauste, S. Génieys, L. Pujo-Menjouet, *Hématologie (2008) ; 14 (5) : 339-50*



16. « Adding Self-Renewal in Committed Erythroid Progenitors Improves the Biological Relevance of a Mathematical Model of Erythropoiesis», *F. Crauste, L. Pujo-Menjouet, S. Génieys, C. Molina, O. Gandrillon, Journal of Theoretical Biology* **250** (2008) 322–338
15. « Diagnostics of the AML with immunophenotypical data», *A. Plesa, G. Ciuperca, S. Génieys, V. Louvet, L. Pujo-Menjouet, C. Dumontet, V. Volpert, Journal Mathematical Modelling of Natural Phenomena, Vol(2008), Vol. 2, No. 1, pp. 104-123*
14. « Cell Modelling of Hematopoiesis», *N. Bessonov, L. Pujo-Menjouet, V. Volpert, Journal Mathematical Modelling of Natural Phenomena, (2008), Vol. 2, No. 1, pp. 81-103*

## 2006

13. « Mathematical analysis of the dynamics of the prion proliferation», *M. Greer, L. Pujo-Menjouet, G. Webb, Journal of Theoretical Biology* (2006), vol. 242, 598-606
12. « Analysis of a Model for the Dynamics of Prions», *J. Prüss, L. Pujo-Menjouet, G. Webb et R. Zacher, Discrete and Continuous Dynamical Systems – B Vol. 6 No. 1, (2006), 215-225*
11. « Modeling transcriptional feedback loops: The role of Gro/TLE1 in Hes1 oscillations », *S. Bernard, B. Cajavec, L. Pujo-Menjouet, M. C. Mackey, H. Herzel, Philosophical Transactions of Royal Society Series A* (2006), 364, 1155-1170
10. « Periodic Oscillations of Blood Cell Populations in Chronic Myelogenous Leukemia», *C. O. Hu, M. C. Mackey, L. Pujo-Menjouet, J. Wu, SIADS* (2006), 38(1), 166–187

## 2005

9. « Long Period Oscillations in a Go Model of Hematopoietic Stem Cells», *S. Bernard, L. Pujo-Menjouet, M.C. Mackey, SIAM Journal on Applied Dynamical Systems – vol 4 (2005) Number 2, pp. 312 - 332*
8. « On the stability of a nonlinear maturity structured model of cellular proliferation», *M. Adimy, F. Crauste, L. Pujo-Menjouet, Discrete and Continuous Dynamical Systems B Volume 12, Number 3, March (2005), pp. 501-522*

## 2004

7. « Contribution to the study of long period oscillations in Periodic Chronic Myelogenous Leukemia», *L. Pujo-Menjouet, M.C. Mackey, Compte rendu de l'Académie des Sciences de Paris, Biologie, 327 (2004) pp. 235–244*

## 2003

6. « A mathematical model describing cellular division with a proliferating phase duration depending on the maturity of cells», *M. Adimy, L. Pujo-Menjouet, Electron. J. Diff. Eqns., Vol. 2003(2003), No. 107, pp. 1-14*
5. « Asymptotic behavior of a singular transport equation modelling cell division », *M. Adimy, L. Pujo-Menjouet, DCDBS – B, Volume 3, Number 3 (2003) pp. 439–456*
4. « Analysis of Cell Kinetics Using a Cell Division Marker: Mathematical Modeling of Experimental Data », *S. Bernard, L. Pujo-Menjouet, M.C. Mackey, Biophysical Journal, Vol. 84, pp. 3414-3424, (2003)*

## 2001

3. « A singular transport model describing cellular division », *M. Adimy, L. Pujo-Menjouet, Compte rendu de l'Académie des Sciences de Paris, t.332, Série I, pp.1-6, 2001*

## 2000

2. « Global stability of Cellular Populations with unequal Division », *L. Pujo-Menjouet, R. Rudnicki, Canadian Applied Mathematics Quarterly, Vol. 8, Number 2, 185-202, 2000*

## 1997

1. « Etude d'une équation de transport semi-linéaire avec retards modélisant une population de cellules sanguines », *L. Pujo-Menjouet, Actas de las V Jornadas Zaragoza-Pau de Matemática Aplicada y Estadística, 1997*