

## CURRICULUM VITAE

### Civil condition

Born the 25 02 1962 at Neuilly-sur-Seine (France).

Nationality: French.

Married, one child.

Professional address: IRD, Intertryp, UMR 177 IRD and CIRAD, TA A-17/G, Campus International de Baillarguet, 34398 Montpellier Cedex 5, France.

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### Degrees

21/01/1999: Post-PhD (Habilitation à Diriger des Recherches) at Montpellier II University.

27/06/1991: PhD of Physiology and Population and Organismal Biology at Montpellier II University.

September 1989: Pre PhD of Sciences of Evolution and Ecology at Montpellier II University.

September 1988: Pre-PhD of Parasitology: Ecology, Pathology at Montpellier II University.

October 1987: Probation in experimental parasitology at Montpellier II University.

June 1985: Masters in Population and organismal biology at P. and M. Curie University (Paris 6).

### Appointed positions

01/08/2015-Present: Full time senior researcher (DR1) in the IRD in the team Interactions hôtes - vecteurs - parasites dans les infections par des trypanosomatidae - (INTERTRYP), UMR177 IRD/CIRAD, , TA A-17/G, Campus International de Baillarguet, 34398 Montpellier Cedex 5, France.

01/09/2012-31/07/2015: Full time senior researcher (DR1) in the IRD in the team Interactions hôtes - vecteurs - parasites dans les infections par des trypanosomatidae - (INTERTRYP), UMR177 IRD/CIRAD and posted at the Centre International de Recherche-Développement sur l'Elevage en zone Subhumide (CIRDES), 01 BP 454, Bobo-Dioulasso 01, Burkina-Faso.

05/01/2012-01/09/2012: Full time senior researcher (DR2) in the IRD in the team Interactions hôtes - vecteurs - parasites dans les infections par des trypanosomatidae - (INTERTRYP), UMR177 IRD/CIRAD, France.

02/03/2009-04/01/2012: Full time senior researcher (DR2) in the CNRS given available to the IRD and posted at UMR 177 IRD/CIRAD, CIRDES, 01 BP 454 Bobo-Dioulasso 01, Burkina-Faso.

01/10/2005-01/03/2009: Full time senior researcher in the CNRS in the Laboratory 'Génétique et Evolution des Maladies Infectieuses', UMR 2724 CNRS/IRD Montpellier.

01/01/2004-30/09/2005: Full time and permanent researcher in the CNRS in the Laboratory 'Génétique et Evolution des Maladies Infectieuses', UMR 2724 CNRS/IRD Montpellier.

01/11/1998-31/12/2003: Full time and permanent researcher in the CNRS in the 'Centre d'Etude sur le Polymorphisme des Microorganismes', UMR 9926 CNRS/IRD Montpellier.

01/10/1993-31/10/1998: Full time and permanent researcher in the CNRS in the Laboratory 'Biologie des Populations d'Helminthes Parasites', UMR 5555 CNRS/Université Montpellier II

01/10/1992-31/09/1993: Temporary lecturer of population genetics in Montpellier II University.

01/10/1991-31/03/1992: Six month grant from the British Council at the School of Biological Sciences, University of Wales, Bangor, Gwynedd, LL57 2UW, UK.

01/10/1985-30/09/1986: Military service at Spire (Germany).

## **Research experience**

During my PhD, I have studied the mechanisms of maintenance of adaptive polymorphism and evolution of habitat preference. I have used field studies, experimental tests and theoretical (analytical and computer simulations) modelling. The biological model consisted in two species of ecto-parasitic copepods and their three hosts (in the Mediterranean), turbot, brill and flounder. The fact that these organisms are marine, naturally involved me into marine biology topics. I also had to develop skills in programming (in Pascal) and in isoenzymatic genotyping.

During my Post-doc in Bangor, I was trained to theoretical population genetics of structured population, in particular as regard to parameter estimation and testing of Wright's  $F$ -statistics.

When coming back to Montpellier I kept studying adaptive polymorphism and habitat preference but more and more got involved in population genetic structure of hosts and their parasites. I got involved in studies on host-manipulating parasites as well.

I have studied different kind of organisms as parasitic copepods, cestodes, trematodes, fungi, bacteriae, trypanosomes, leishmania, ticks, tsetse flies, gammarid amphipods, marine and fresh water snails, mussels, rats and deer.

Presently my main areas of investigation concern host and parasite co-structures and the use of molecular markers in ecological inferences, and in particular in epidemiological inferences; and the theoretical and applied population genetics of clonal organisms. The main programs I am currently supervising or undertaking are:

Population genetics of trypanosomes and their vectors in Western Africa;

Population genetics of clonal and partially clonal organisms: theory and application to medically or veterinary relevant microbes (trypanosomes, leishmania, yeasts).

Adaptive polymorphism and habitat preference evolution, the use of population genetics tools for population biology inferences in host parasite systems and the population genetics of clones are thus the main fields in which I am specially qualified.

## **Publications, oral communications and posters**

### *Synopsis*

167 articles; 53 articles as 1<sup>st</sup> author and 42 as last author (supervisor). In September 2019, 375 citations per year (Google Scholar). H-index of 39 according to Thompson Reuter's Web of Science Core Collection or 39 for "All data bases" (call De Meeus T OR Demeeus T OR De Meus T OR Demeus T OR Demeews T OR Meeus T OR Meus T), 47 according to Goofle Scholar and 52 according to Microsoft Academy, consulted in Harzing's Publish or Perish (call "T De Meeus" OR "T Demeeus" OR "T Demeews" OR "T De Meus" OR "T Demeus" OR "T Meeus" OR "T Meus").

90 communications and posters (26 invited); 63 international conferences and posters (23 invited).  
N° ORCID 0000-0001-8807-241X

*Journals' details (Google Scholar statistics, September 2019)*

Publications	Citations/year	Number
Genetics	42.85	2
Human Biology	22.79	1
Heredity	13.90	3
eLife	10.75	1
Cellular and Molecular Life Sciences	7.38	1
Proceedings of the National Academy of Sciences USA	7.36	5
mSphere (ex Eukaryotic Cell)	5.27	1
BMC Bioinformatics	5.00	1
Evolution	4.31	4
Ecology	4.21	1
Veterinary Parasitology	4.00	2
Journal of Heredity	4.00	1
Journal of Evolutionary Biology	3.85	2
PLoS Pathogens	3.55	2
Proceedings of the Royal Society of London Serie B	3.52	3
PLoS Neglected Tropical Diseases	3.36	9
Infection Genetics and Evolution	3.31	31
Journal of Medical Entomology	3.18	3
Molecular Ecology	2.83	9
Trends in Parasitology (ex Parasitol. Today)	2.74	13
Oikos	2.65	2
Experimental and Applied Acarology	2.57	1
Parasites and Vectors	2.41	3
Zhurnal Obshchei Biologii (J. General Biol.)	2.38	1
Insect Molecular Biology	2.30	1
Evolutionary Ecology	2.23	2
Estuaries and Coasts (ex Estuaries)	2.22	1
Medical Mycology (ex J. Med. Vet. Mycol.)	2.17	1
Oecologia	2.12	1
Microbes and Infection	1.83	4
International Journal for Parasitology	1.83	6
Journal of Clinical Microbiology	1.76	2
Book	1.75	1
Marine Ecology Progress Series	1.68	3
Medical and Veterinary Entomology	1.65	2
Parasite	1.42	1
Parasitology	1.40	3
Biodiversity and Conservation	1.38	1
Acta Tropica	1.33	1
Evolutionary Ecology Research	1.25	1
Journal of Theoretical Biology	1.21	1
Molecular Ecology Resources (ex Mol. Ecol. Notes)	1.15	4
Journal of Parasitology	1.06	1
Journal of Medical Microbiology	1.00	1
Genetica	0.91	1
Canadian Journal of Zoology	0.84	1
Mycoses	0.65	1
Journal of Experimental Zoology A (ex J. Exp. Zool.)	0.63	1
Acta Oecologica	0.56	1
Book chapters	0.52	16
FEMS Microbiology Letters	0.44	1
Parasitology Research	0.40	1
Acta Zoologica Sinica	0.21	1
Comparative Parasitology (ex J. Helminth. Soc. Wash.)	0.16	2
Suds en ligne - Les dossiers thématiques de l'IRD	0.00	1
Peer Community In Evolutionary Biology	0.00	1

## Teaching experience

### Synopsis

1596 hours lectured between 1989 and 2019 (53 h/year) to 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> year students and as training courses (720 hours in developing countries), with a mean of 84 h/year for the last four years, among which 50 h/year were given in developing countries.

Creation of a computer program for simulating habitat selection and adaptive polymorphism evolutions in varying environments, available at: <http://www.t-de-meeus.fr/ProgMeeus.html>.

A step by step tutorial for building a bootstrapped NJTree with Phylip, available at <http://www.t-de-meeus.fr/EnseignMeeus.html>

## Research supervision

### Fourth year probations

Samuel Roure, Maîtrise BOP Montpellier II, 1994-1995.

Antoine Gérigne, Magister BMC ENS Lyon, 1994-1995.

Olivier Bru, Maîtrise BOP Montpellier II, 1995-1996.

Ingrid Daude, Maîtrise BOP Montpellier II, 1996-1997.

Sandrine Alonso, Maîtrise de Biochimie Montpellier II, 2003-2004.

### Pre PhD probations (Master Thesis)(\*: PhD grant obtained)

Nathalie Magnan (Montpellier II, 1990).

Frédéric Thomas\* (Montpellier, 1993).

Michel de Garine Wichatitsky\* (Montpellier, 1994).

Christelle Delaye\* (Montpellier 1995).

Elodie Gazave\* (Montpellier 1999).

Franck Prugnot\* (Montpellier 2000).

Damien Caillaud\* (Montpellier 2003)

Florent Kempf\* (Montpellier 2005)

Virginie Rougeron\* (Montpellier 2006)

Modou Séré\* (Bobo-Dioulasso 2011)

### Swiss Pre PhD probations

Jean Pierre Škalamera (Basel University, 1995-1996).

Christian Moccia (Neuchâtel University, 2000-2001).

### PhD's (\*: as main or unique manager), with number of publications that came from my supervision:

Christelle Delaye\*, Montpellier 2 University, defended the 27/11/1998. Now school teacher, 5 Publications.

Philippe Solano, Montpellier 2 University, defended the 21/10/1998. Now permanent full time researcher in the IRD, 2 publications

Michel de Garine Wichatitsky, Montpellier 2 University, defended the 29/11/1999. Now permanent full time researcher in the CIRAD, 1 publication.

Franck Prugnolle\*, Montpellier 2 University, defended the 19/12/2003. Now permanent full time researcher in the CNRS, 9 publications.

Brou Basile Koffi, Montpellier 2 University, defended the 24/10/2006, Associate Professor in Abidjan University, 5 publications.

Florent Kempf, Montpellier 2 University, defended the 12/12/2008, Research Ingeneer INRA, 4 publications.

Virginie Rougeron, Montpellier 2 University, defended the 17/12/2009, Now permanent full time researcher in the CNRS, 7 publications.

Jacques Kaboré, Université Polytechnique de Bobo-Dioulasso, defended the 01/10/2011. Assistant Professor at Bobo Dioulasso University, 2 publications.

Modou Séré, Université Polytechnique de Bobo-Dioulasso, defended the 16/11/2015. Assistant Professor at Dedougou University, 3 publications.

Inoussa Compaoré (Université Polytechnique de Bobo-Dioulasso/CIRDES, Burkina Faso), defended the 18 Janvier 2017 at Bobo-Dioulasso, Assistant Professor at Université Polytechnique de Bobo-Dioulasso.

Olivier Amoussou (Joint supervision Université Polytechnique de Bobo-Dioulasso/CIRDES/Université d'Abomey-Calavi, Burkina-Faso, Bénin), to be defended in 2018.

### Supervision of full time researchers

Cheikh-Tidiane BA Lecturer (University of Dakar, Senegal), 6 months, 1992-1993.

Jasna Maršić LUCIC Research Assistant (Split, Croatia), 6 months, 1993-1994.

Brigitte DEGEILH MCUPH MD (Rennes Hospital), 3 months, 1994.

Viliam SNABEL Research Assistant (Košice, Slovakia), 2x15 days (1997, 1998).

Alassane KEBE, Lecturer. (University of Nouakchott, Mauritania), 1 month, 1996.  
Leigh DAWSON, Post Doc, year 97-98.  
François NEBAVI, Lecturer (University of Abidjan, Ivory Coast), 15 days (2000).  
Loubna Dib, Lecturer (Institut Vétérinaire du Centre Universitaire El Tarf, Algeria), 1 month (2005).  
Oliver Manangwa (PhD), Vector and Vector Borne Disease Research Institute, P.O.Box 1026, Tanga, Tanzania, 2 months (2017).

#### *Practical training of PhD students*

Musa T. Tivapasi, University of Zimbabwe, Harare, Zimbabwe, 1 month (2017).  
Berté Karidja, Université Félix Houphouët Boigny Abidjan, Côte d'Ivoire, 15 days (2017).  
Martial N'Djetchi, Université Jean Lorougnon Guédé De Daloa, Côte d'Ivoire, 15 days (2017).

#### **Research grants**

Programme International de Collaboration Scientifique (PICS) avec l'Institut de Zoologie de Neuchâtel (Professeur A. Aeschlimann) on the population genetics of ticks and the disease it transmit (1995-1997) (France : 280,000 FF ; 100,000 FF from CNRS-MDRI, 100,000 FF from CNRS-SDV and 80,000 FF from MAE ; Switzerland: 65,000 SF from FNRS)

Programme Environnement vie et sociétés, Comité Dynamique de la Biodiversité sur les " Mécanismes de spécialisation chez les parasites : le modèle copépodes-poissons plats " (1998-1999) (90,000 FF du CNRS-SDV)

Programme "Ecosystèmes tropicaux", Ministère de l'Ecologie et du Développement durable, "Les co-structures génétiques d'un parasite (*Schistosoma mansoni*) et de ses hôtes (mammifères et mollusques) dans la mangrove dulçaquicole de Guadeloupe : échelles spatiale, fonctionnelle et coévolutive" (2003-2006) (50,000 €).

Programme "Invasions biologiques", Ministère de l'Ecologie et du Développement durable, "Invasion de la Nouvelle Calédonie par la tique du bétail *Boophilus microplus*: Interactions avec les bovins et le cerf rusa, conséquences génétiques et écologiques" (2003-2006), (57,000 €).

Programme "Santé-Environnement, Santé-Travail (SEST)" de l'ANR, "Impact de l'anthropisation et de l'environnement sur le fonctionnement des foyers de leishmanioses (IAEL). Analyses génétiques et épidémiologiques dans le sud de la France, en Guyane Française et au Sénégal" (2007-2010) (250 000 €).

Programme PEERS-AIRD: Trypanosomes et tsétsés en Afrique de l'Ouest : apport de la génétique des populations (TAO) (2011-2013) (55 000 €).

Involvement in projets: FP5-6 IST, Plasmodium vivax in newly independent states (Vivax NIS) (Resp C Severini, IRD)(01/2000-09/2005); FP7-INCO-DEV, Tsetse flies and the control of African Sleeping sickness (Resp Mike Lehane, Liverpool) (2.5 M€, 2006-2010); Fonds de Solidarité Prioritaire (FSP) du Ministère Français des Affaires Etrangères, Recherches en Entomologie, Formation et Stratégies de prévention, le cas du paludisme et de la THA (REFS) (Resp Marie-Claire Henry, MAE) (2 M€, 2007-2010) ; Laboratoire mixte international (LMI) sur les maladies à Vecteurs de Bobo-Dioulasso (LAMIVECT), IRD (150 k€, 2011-2013); TrypanoGEN: an integrated approach to the identification of genetic determinants of susceptibility to trypanosomiasis, "The Human Heredity and Health in Africa" (H3Africa) (NIH and Wellcome Trust) (4.122 USD, 2014-2018). Clonix "Revisiting the Population Genetics and Genomics of partially clonal organisms. Influence of partial clonality on the genetic composition and evolution of natural populations Adapting population Genetics concepts and methods to partial clonality" (Projet ANR- 11-BSV7-007, 363000 euros, 2012-2016, Resp. Sophie Arnaud-Haond). Clonix2D "The genetic consequences of partial clonality in populations colonizing new areas as a result of global change" (ANR CE32 - Dynamique des écosystèmes et de leurs composants en vue de leur gestion durable - PRC 20, 438000 euros, 48 months from the beginning of 2019, Resp Solenn Stoeckel).

#### **Research managing, administrative duties and academic evaluations**

Coordinator of Teaching units 28t and 28u (Genetics and Evolution) of the Organismal and Population Biology Master of Montpellier II University for years 1992/1993.  
Responsible for informatics in the "Laboratoire de Parasitologie Comparée" (Montpellier II) for 1992-1995. Installation and connection to the internet network in that laboratory.  
Responsible for the course "Relations symbiotiques" of the 5th year Master of "Biologie de l'Evolution et Ecologie" (Montpellier II) (1999).  
Member of the jury for the Master of Sciences de l'Evolution et Ecologie de Montpellier (September 1997, 1998, 1999).  
Elected member of the laboratory committee of the CEPM from June 2000 to December 2003.  
Leader of the team "Structure Génétique et Adaptation des Systèmes Symbiotiques" (SGASS) from September 2002 to September 2008.

Creation and webmaster of the web site of the SGASS team from May 2002 to September 2008: <http://gemi.mpl.ird.fr/SiteSGASS/EntrySGASS.html>.

Member of the organizing committee of the meeting "Petit Poids Dérivé, Montpellier, 2002".

Organization of the Symposium 11 "Population Genetic Structure & Molecular Epidemiology" of the 10<sup>th</sup> European Multicolloquium of Parasitology (EMOP X), Paris the 24-29 August 2008.

Member of the scientific committee of the MEEGID X (Amsterdam, November 3-5 2010) and XIII (Antwerp, May 11-13 2016) conferences.

Member of 19 PhD thesis juries (7 as main reviewer).

Member of the evaluation committee for the package "Interactions Durables" of the program "Environnement et Sociétés: Comité Dynamique de la Biodiversité et Environnement" (1997).

Creation and organisation of the think tank and network "Tiques et Maladies à Tiques" of the network REID (Réseau pour l'Ecologie des Interactions Durables), organization of the first meeting of that think tank in Montpellier the 17/12/2004 and co-organization of the subsequent ones the 15-16 December 2005 at the Institut Pasteur Paris and of the 27 October 2006 at the INRA Centre of Theix (Clermont-Ferrand). Coordinator of that think tank from 2004 to 2007. Web designer and webmaster of the web site of this group until September 2008.

Member of the bureau of the network "Réseau Ecologie des Interactions Durables" (REID) from January 2006 to December 2008.

Member of the evaluation committee for the program 'Environnement et Sociétés: Comité Dynamique de la Biodiversité et Environnement' (1997).

Receiving Editor of the journal *Infection, Genetics and Evolution* since October 2009.

Member of the Editorial Review Board of the journal *Molecular Ecology* since June 2012.

Recommender for the journal *PLoS Evolutionary Biology* since September 2018.

Recommender for the journal *PLoS Ecology* since September 2018.

Research programs evaluator (30 programs, French and Europeans): NERC (Natural Environment Research Council) (UK) (1), Research Council of Norway (1), MENRT (Ministère de l'Education Nationale, de la Recherche et de la Technologie) (1), BRG (Bureau des Ressources Génétiques) (1), BQR Orsay (1), ECOS-Sud (1), ANR (5), IFB/Département EDD CNRS (1), BSTD/BEST DSF IRD/DPF IRD/AIRD (4), IFS (International Foundation for Science) (Suede) (11), Netherlands Organisation for Scientific Research (1) Netherlands Organisation for Scientific Research (1), Luxembourg National Research Fund (FNR) (1).

Referee for various scientific journals (about 9 articles reviewed per year for the last 10 years): *PLoS Ecology* (1), *Proceedings of the National Academy of Sciences of USA* (2), *Trends in Ecology and Evolution* (1), *Trends in Parasitology* (5), *Ecology Letters* (5), *CMLS* (3), *BMC Biology* (3), *American Naturalist* (2), *Genetics* (2), *Evolution* (3), *Molecular Ecology* (34), *Molecular Ecology Resources* (5), *Proceedings of the Royal Society of London B* (1), *Heredity* (6), *PLoS Neglected Tropical Diseases* (10), *Parasites & Vectors* (1); *Bioinformatics* (1), *Journal of Evolutionary Biology* (1), *International Journal for Parasitology* (9), *Evolutionary Ecology* (1), *BMC Ecology* (3), *BMC Evolutionary Biology* (2), *Infection Genetics and Evolution* (10), *Parasitology* (1), *Emerging Infectious Diseases* (2), *Biological Journal of the Linnean Society* (1), *Experimental Parasitology* (3), *Transactions of the Royal Society of Tropical Medicine and Hygiene* (6), *Evolutionary Applications* (3), *Canadian Journal of Zoology* (1), *Journal of Parasitology* (1), *Journal of Insect Science* (1), *ICES Journal of Marine Science* (1), *Acta Oecologica* (1), *Parasites* (10), *PLoS One* (1), *Frontiers in Cellular and Infection Microbiology* (1), *Acta Tropica* (3), *Game and Wildlife Life* (1), *Crustaceana* (1), *Helminthologia* (1), *Bulletin of Entomological Research* (2), *Saudi Medical Journal* (1), *International Journal of Tropical Insect Science* (1), *Med Vet Entomol* (1).

Awarded Top Reviewer in 2011 by *International Journal for Parasitology*.

Top reviewer for *Molecular Ecology* 2012-2015.

Book project reviewer: Elsevier (2).

Elected member of the Representative Council of IRD in Burkina Faso from December 2013 to July 2015.

Representative Officer on an interim basis of the IRD of Burkina Faso from the 23-12/2014 to the 01/01/2015.

Co-animator of the 4<sup>th</sup> thematic axis of INTERTRYP laboratory, "Training, Expertise and Research promotion" since October 2014.

### **Consulting**

Development, genotyping and data analyses of tsetse fly samples for the IAEA: 49 000 euros since 2017 (Resp S. Ravel).

### **General public conferences**

Conference in the Centre Culturel Français de Bobo-Dioulasso Henri Matisse:

"Concepts d'espèce et évolution: l'impossible pardon", 17/02/2010, 18h30.

"Devine qui vient dîner ce soir? Une histoire de parasites...", 22/02/2012, 18h30.

IRD News: Les parasites *Leishmania* dévoilent leur sexualité. Fiches d'actualité scientifique, IRD, Actualité Scientifique N°481, Juin 2015

Coference and debate with year 4 pupils (3<sup>rd</sup> grade students) at Montferrier's Elementary Public School, titled "Devine qui vient dîner ce soir? Une histoire de parasites...", the 16/10/2018 at 15h20.

### Softwares

Program Habitat simulating the evolution of habitat selection and adaptation in varying environments to be used in practicals of population genetics.

Program Clonality allowing testing the relation that may exist between clonal success and heterozygosity (Prugnolle et al. 2008, *Mol. Ecol. Res.*, **8**, 954–956).

Programme MultiTest V1-2 allowing the combination of independent *P*-values with the generalised binomial procedure (De Meeûs et al. 2009, *BMC Bioinf.* **10**, 443)).

### Editor of journal's special issues

Tibayrenc M., de Meeûs T. and Morand S. 2018. *Special section on "Ecology and epidemiology of transmissible diseases: modern methodologies; Infection Genetics and Evolution* **63**: 291-419.

### Books

**De Meeûs, T.** 2012. *Initiation à la génétique des populations naturelles: Applications aux parasites et à leurs vecteurs*. IRD Editions, Marseille.

### Editor of special issues of scientific journals

Tibayrenc M., **de Meeûs T.** and Morand S. 2018. *Special Issue (SI) Modern Methodologies, Infection Genetics and Evolution*.

### Collaborations

J.B. Rayaisse & G.K. Dayo, CIRDES, Bobo-Dioulasso, Burkina-Faso.

F. J. Ayala; Department of Ecology & Evolutionary Biology, University of California Irvine, USA.

L. Béati, Institute of Arthropodology and Parasitology, Georgia Southern University, Statesboro, Georgia, USA.

J. Bouyer, Institut Sénégalais de Recherches Agricoles, Laboratoire National d'Elevage et de Recherches Vétérinaires, Dakar-Hann, Sénégal / CIRAD Baillarguet, Montpellier, France.

C. Chevillon, K.D. McCoy, A.-L. Bañuls, F. Prugnolle & J.-F. Guégan, MIVEGEC, UMR 2724 CNRS/IRD, Montpellier, France.

M. Camara, PNLTHA Guinée.

P. Solano, S. Ravel, V. Jammoneau, Bruno Bucheton & F. Courtin, Laboratoire INTERTRYP, UMR177 IRD/CIRAD, Campus International du Baillarguet, Montpellier, & CIRDES, Bobo-Dioulasso, Burkina-Faso.

M. Koffi: Université Jean Lorougnon GUEDE, UFR Environnement, Laboratoire des Interactions Hôte-Microorganismes-Environnement et Evolution (LIHME), Daloa, Côte d'Ivoire.

D. Kaba: Institut Pierre-Richet, Abidjan, Côte d'Ivoire.

A. MacLeod, Institute of Biodiversity, Animal Health & Comparative Medicine, College of Medical, Veterinary & Life Sciences GBRC University Place, Glasgow G12 8TA, UK.

F. Njiokou: Université de Yaoundé, Cameroun.

G. Simo: University of Dschang, Faculty of Sciences, Department of Biochemistry, PO Box 67, Dschang, Cameroon.

B. Salim: University of Khartoum, Department of Parasitology, Faculty of Veterinary Medicine, Khartoum-North, Sudan.

Philippe Büscher: Department of Biomedical Sciences, Institute of Tropical Medicine, Antwerp, Belgium.

### Appendix

#### Chronological publication details

Most of these papers are available in pdf at <http://t-de-meeus.fr/ArtiPDF.html>. \*: Contributed equally

- 1) **De Meeûs T.**, Renaud F. and Gabrion C. 1990. A model for studying isolation mechanisms in parasite populations: the genus *Lepeophtheirus* (Copepoda, Caligidae). *The Journal of Experimental Zoology* **254**, 207-214.
- 2) Renaud F. and **De Meeûs T.** 1991. A simple model of host-parasite evolutionary relationships. Parasitism: compromise or conflict? *Journal of Theoretical Biology* **152**, 319-327.
- 3) Hochberg M.C., Michalakis Y. and **De Meeûs T.** 1992. Parasitism as a constraint on the rate of life history evolution. *Journal of Evolutionary Biology* **5**, 491-504.

- 4) **De Meeûs T.**, Marin R. and Renaud F. 1992. Genetic heterogeneity within populations of *Lepeophtheirus europaeensis* (Copepoda, Caligidae) parasitic on two host species. *International Journal for Parasitology* **22**, 1179-1181.
- 5) Ba C.T., Wang X.Q., Renaud F., Euzet L., Marchand B. and **De Meeûs T.** 1993. Diversity and specificity in cestodes of the genus *Moniezia*: genetic evidence. *International Journal for Parasitology*. **23**, 853-857.
- 6) **De Meeûs T.**, Michalakis Y., Renaud F. and Olivieri I. 1993. Polymorphism in heterogeneous environments, habitat selection and sympatric speciation: Soft and hard selection models. *Evolutionary Ecology* **7**, 175-198.
- 7) **De Meeûs T.**, Raibaut A. and Renaud F. 1993. Comparative life history of two species of sea lice. In, *Pathogens of wild and farmed fish: sea lice* (Boxshall, G.A. and Defaye D. eds.), Ellis Horwood, Chichester, pp 61-67.
- 8) **De Meeûs T.**, Raibaut A. and Renaud F. 1993. Speciation and specificity in parasitic copepods: caligids of the genus *Lepeophtheirus* parasites of flatfishes in the Mediterranean. In *Pathogens of wild and farmed fish: sea lice*, (Boxshall, G.A. and Defaye D. eds.), Ellis Horwood, Chichester, pp 143-150.
- 9) Ba C.T., Wang X.Q., Renaud F., Euzet L., Marchand B. and **De Meeûs T.** 1994. Diversity in the genera *Avitellina* and *Thysaniezia* (Cestoda: Cyclophyllidea): Genetic evidence. *Journal of the Helminthological Society of Washington*. **61**, 57-60.
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- 167) **De Meeûs, T.**, Chan, C.T., Ludwig, J.M., Tsao, J.I., Patel, J., Bhagatwala, J., Beati, L. 2019. Deceptive combined effects of short allele dominance and stuttering: an example with *Ixodes scapularis*, the main vector of Lyme disease in the U.S.A. bioRxiv 622373, ver. 4 peer-reviewed and recommended by Peer Community In Evolutionary Biology, doi: <https://doi.org/10.1101/622373>.

#### Published proceedings

- Solano P., de la Rocque S., **De Meeûs T.**, Geoffroy B., Dumas V., Cuny G., Sidibé I., Cuisance D. and Duvallat G. 1998. Genetic differences in natural populations of *Glossina palpalis gambiensis* of West Africa revealed by microsatellite DNA polymorphism. *Acta Parasitologica Portuguesa* **5**: 23.
- De Meeûs T.** 2006. Les co-structures génétiques d'un parasite (*Schistosoma mansoni*) et de ses hôtes (mammifères et mollusques) dans la mangrove dulçaquicole de Guadeloupe: échelles spatiales, fonctionnelles et co-évolutives. In *Ecosystèmes Tropicaux, Actes du 2<sup>ème</sup> Colloque de Restitution du Programme de Recherche, Paris, 7-8 Novembre 2006*, Ministère de l'Ecologie et du Développement Durable-ECOFOR, Paris.
- Rougeron V., **De Meeûs T.**, Hide M., Waleckx E., Arevalo J., Bermudez H., Llanos-Cuentas A., Dujardin J.C., Bañuls A.L. 2008. *Leishmania braziliensis*: population structure and reproductive mode. *Infection Genetics and Evolution* **8**: S10.
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- Koffi M., **De Meeûs T.**, Bucheton B., Solano P., Camara M., Kaba D., Cuny G., Ayala F.J., and Jamonneau V. 2011. Population genetics of *Trypanosoma brucei gambiense*: a clone in the dark. In *Proceedings 30<sup>th</sup> biennial conference of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC), Kampala, Uganda 2009*, AU-IBAR, Nairobi, Kenya. **125**: 137-158.

#### Oral communication and poster details

Invited conferences (1-26) and other conferences (27-90)

- 1) Renaud F., Thomas F., Cézilly F. and **De Meeûs T.** Influence of parasites in host behaviour. European Foundation workshop: "genetic conflict and parasitism". Paris, 20-22 Octobre 1994.
- 2) Cézilly F., Renaud F., **De Meeûs T.** & Thomas F. Parasitism and Biodiversity: an argument from a comparative study. Conférences Jacques Monod "Evolutionary and Ecological Processes Underlying Biodiversity", Aussois, 7-11 Novembre 1994.

- 3) **De Meeûs T.**, Coustau C. & Renaud F. Host hybridization and parasitism in marine mussels. Workshop "Population Genetics of Bivalves", Sète et La Tremblade, 6-8 Juillet 1994.
- 4) **De Meeûs T.** Host selection, genetic determination, heterogeneous environment and selection models in host parasite interactions. Conférences Jacques Monod, "Evolutionary genetics and adaptation", Aussois, 25-29 September, 1995.
- 5) **De Meeûs T.** & Renaud F. Local adaptation and habitat selection: from theory to the biological model copepods – flat fish. Workshop on Local Adaptation and Spatial Heterogeneity in Host Parasite Interactions. Organized by Susan Mopper and Yannis Michalakis and Funded by the NSF and CNRS (Paris 6-10 January 1998).
- 6) **De Meeûs T.**, Delaye C. & Renaud F. The relevance of population genetics study of infectious diseases and their vectors: the case of *Ixodes ricinus*. Third International Meeting on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Rio de Janeiro, 7-10 Juin 1998.
- 7) Guégan J.F., Thomas F., **De Meeûs T.**, Lek S. & Renaud, F. Global epidemiology and human infectious disease occurrences. International Workshop "Applications of Artificial Neural Networks to Ecological Modelling", Toulouse, 14-17 Décembre 1998.
- 8) Guégan J.F., Thomas F., Hochberg M.E., **De Meeûs T.** & Renaud F. Human evolution in a parasite land: a comparative approach. European Science Foundation Workshop "Evolutionary Biology of Host-Parasite Relationship : Reality Meets Models", Banyuls s/Mer, 3-7 Mai 1999.
- 9) Thomas F., Poulin R., **De Meeûs T.**, Guégan J.F. & Renaud F. Parasites and ecosystem engineering : what role could they play? European Science Foundation Workshop "Evolutionary Biology of Host-Parasite Relationships: Reality Meets Models", Banyuls s/Mer, 3-7 Mai 1999.
- 10) **De Meeûs T.**, Théron A., Prugnolle F., Durand P. & Pointier J.P. Les co-structures génétiques d'un parasite (*Schistosoma mansoni*) et de ses hôtes (mammifères et mollusques) dans la mangrove dulçaquicole de Guadeloupe: échelles spatiale, fonctionnelle et coévolutive. Séminaire du Programme Ecosystèmes Tropicaux, 1<sup>er</sup>-2 Avril 2003, Paris (Poster).
- 11) **De Meeûs T.** Invasion de la Nouvelle-Calédonie par la tique du bétail *Boophilus microplus*: interactions avec les bovins et le cerf rusa, conséquences génétiques et écologiques Séminaire du programme "Invasions Biologiques", 11-12 Mars 2003, Paris.
- 12) **De Meeûs T.**, Balloux F. & Lehmann L. The population genetics of clonal and partially clonal diploids: analytical and simulation results. Seventh International Meeting on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Valencia, 19-22 July 2004.
- 13) **De Meeûs T.** Clonal species, clonal diversity and population genetics. The PARTNER3 workshop: "Diversity in Asexuals: patterns and processes", Muenster, 06-10 October 2004 (accommodation costs covered by the ESF, not travel expenses).
- 14) **De Meeûs T.** Asexual reproduction in infectious diseases. The PARTNER 4 workshop "The paradox of asexuality: an evaluation, London, 22-24 September 2005.
- 15) Chevillon C., Koffi B.B., Durand P., Barré N., de Garine-Witchatitsky M., **de Meeûs T.** Assessing the role of host-species differences in the genetic differentiation of the cattle tick, *Boophilus microplus*, in New Caledonia Island. XII International Congress of Acarology, Amsterdam 21-26/08 2006.
- 16) **De Meeûs T.** Invasion de la Nouvelle Calédonie par la tique du bétail *Boophilus microplus*: Interactions avec les bovins et le cerf rusa; conséquences génétiques et écologiques. Colloque de restitution du programme de recherches "Invasion Biologique", Moliets 17-19 Octobre 2006.
- 17) **De Meeûs T.** Levels of population genetics structuring of hosts, parasites and vectors and the role played by host's home, sex, genetics and individuality. Conférences Jacques Monod, Evolutionary Genetics of host parasite relationships, Roscoff, 22-26 septembre 2007.
- 18) **De Meeûs T.** Prugnolle F. & Agnew P. Asexual reproduction in infectious diseases. Invited express debate. Meegid IX Congress, Irvine 30<sup>th</sup> October-1<sup>st</sup> November 2008.
- 19) Bouyer J. & **De Meeûs T.** Express debate: How far can the population genetics of vectors help control campaigns against trypanosomiases? What kind of improvement can we propose? MEEGID X Congress, Amsterdam 3-5 November 2010.
- 20) **De Meeûs T.** & Tibayrenc M. Express debate: Can we estimate population size of clonal trypanosomatidae and how? What is the difference with the effective population size? Is it useful? AND Clonal evolution in pathogens and its epidemiological implications. MEEGID X Congress, Amsterdam 3-5 November 2010.
- 21) **Thierry De Meeûs**, Sophie Ravel, Jean-Baptiste Rayaisse , Fabrice Courtin and Philippe Solano (IRD UMR IRD-CIRAD and CIRDES, Bobo-Dioulasso, Burkina Faso). Understanding local population genetics of *Glossina palpalis gambiensis*: the case of the isolated population in Burkina Faso. Final Research Coordination Meeting "Applying GIS and population genetics for managing livestock insect pests", London, UK 15-19 April 2013.
- 22) **Thierry De Meeûs**. La génétique des populations: Son utilisation pour l'étude des populations naturelles des glossines et des trypanosomes. Conférence invitée par le PPAO Niger, Université de Niamey, Niger, 23 Novembre 2013.



- 23) **De Meeûs T.** Population genetics and reproductive strategies of African trypanosomes, December 3 2015, invited conference at the College of Ecology and Evolution, Sun Yat-Sen University, Guangzhou, People's Republic of China.
- 24) **De Meeûs T.** Population genetics, reproductive strategies and taxonomic diversities of African trypanosomes, 3rd Sun Yat-Sen Summer School on Ecology and Evolution, Sun Yat-Sen University, Guangzhou, PR China, July 3-9, 2016.
- 25) **De Meeûs T.** Reproductive modes, species concepts and parasites, 3rd Sun Yat-Sen Summer School on Ecology and Evolution, Sun Yat-Sen University, Guangzhou, PR China, July 3-9, 2016.
- 26) **De Meeûs T.** Vector population genetics, Meegid XIV, 14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, 6-9 November 2018, Hotel Melia, Sitges, Spain.
- 27) **De Meeûs T.**, Renaud F. & Gabrion C. Biologie des Populations parasites: Un modèle expérimental pour l'étude des mécanismes de spéciation dans le genre *Lepeophtheirus* (Copepoda). 10<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Pau 2-4 Septembre 1987.
- 28) **De Meeûs T.**, Renaud F. & Gabrion C. Isolement génétique de deux populations de Copépodes Parasites en situation sympatrique alloxénique. 11<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Paimpont 7-9 Septembre 1988.
- 29) **De Meeûs T.**, Manicacci D., Michalakis Y., Renaud F. & Olivieri I. Modélisation de la spécificité dans les associations hétérospécifiques. 12<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Dijon 30-31 Août et 1<sup>er</sup> Septembre 1989.
- 30) **De Meeûs T.**, Manicacci D., Michalakis Y., Renaud F. & Olivieri I. Modelisation of the specificity in symbiotic associations. Population Genetics Group. Nottingham 19-21 December 1989.
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- 33) **De Meeûs T.**, Raibaut A. and Renaud F.: Speciation and specificity in parasitic copepods: Caligids of the genus *Lepeophtheirus* parasites of flatfishes in the Mediterranean. First European Crustacean Conference, Paris 31 August-5 September 1992.
- 34) Goudet J., **De Meeûs T.**, Day A.J. & Gliddon C.J. The different levels of population structuring of dogwhelks, *Nucella lapillus*, along the south Devon coast. Genetics and evolution of aquatic organisms, Bangor, 10-16 September 1992.
- 35) **De Meeûs T.** & Renaud F. Speciation and specificity in host parasite relationships. Conférence Jacques Monod: "Mechanisms of speciation", Aussois 21-25 Juin, 1993.
- 36) Thomas F., Goudet J., Raymond M., Renaud F. and **De Meeûs T.** Structuration génétique des populations de bivalves, variation allozymiques et méthodes d'analyses: comparaisons des résultats obtenus avec "Fstat", "Genepop" et le classique "Biosys". 17<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Poitiers 31 Août- 2 Septembre 1994.
- 37) Thomas F., Cézilly F., Derothe J.M., Lambert A., **De Meeûs T.** & Renaud F. Parasitisme et succès reproducteur chez un amphipode. 17<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Poitiers 31 Août- 2 Septembre 1994.
- 38) **De Meeûs T.** & Goudet J. Maintien de variants adaptatifs peu différenciés dans un contexte de régulation intermédiaire entre soft et hard selection. 18<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations": Lyon (29-31 Août 1995).
- 39) Thomas F., Renaud, F., Rousset F., **De Meeûs T.** & Cézilly, F. Parasitisme et succès reproducteur et âge: implication dans l'étude de la sélection sexuelle. 18<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Lyon 29-31 Août 1995.
- 40) Thomas F., Renaud F., **De Meeûs T.**, Cézilly F. & Rousset F. Parasites, age and sexual selection. Fifth Congress of the European Society for Evolutionary Biology, Edinburgh, Scotland, 4<sup>th</sup>-8<sup>th</sup>, September 1995.
- 41) **De Meeûs T.** Contraintes Biotiques: Coévolution hôte-parasite. XXVII ème rencontre de Méribel, Les Arcs, 24-30 Mars 1996.
- 42) Delaye C., Aeschlimann A., Renaud F. & **De Meeûs T.** Population genetics of the tick *Ixodes ricinus* in Switzerland. Third meeting of PhD students in evolutionary biology, Barcelona, 26 Février-2 Mars 1997.
- 43) Grillot R., **De Meeûs T.**, Mallié M., Simoens P., Mondon P., Piens M.A., Lebeau B., Viviani M.A., Bertout S., Castel D., Nolard N., Renaud, F., Chapuis F., Tortorano A.M. & Bastide J.M. Prévention de l'Aspergilliose invasive: Elaboration de recommandations basées sur des caractéristiques phénotypiques et génotypiques de souches d'*Aspergillus fumigatus* isolées de cinq pays européens. Journées Internationales d'Hygiène Hospitalière, 1997, Monaco.
- 44) Delaye C., Aeschlimann A., Renaud F. & **De Meeûs T.** Déficients en hétérozygotes chez la tique *Ixodes ricinus*: quelle interprétation? Réunion microsatellites et génétique des populations, Paris, 26-27 Juin 1997.

- 45) Delaye C., Aeschlimann A., Renaud F. & **De Meeûs T.** Structuration génétique de populations de tiques vecteurs de micropathogènes. 20<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Perpignan 2-5 Septembre 1997.
- 46) Raymond M., Vaanto R., Thomas F., Rousset F., **De Meeûs T.** & Renaud F. Regard critique sur le déficit en hétérozygote dans le complexe *Mytilus edulis*. 20<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Perpignan 2-5 Septembre 1997.
- 47) **De Meeûs T.** Iles: fragmentation, structuration et goulots d'étranglements. Réunion "Parasitisme et Insularité", Montpellier, 4-5 Décembre 1997.
- 48) Solano P., De La Rocque S., **De Meeûs T.**, Geoffroy B., Dumas V., Cuny G., Sidibe I., Cuisance D. & Duvallet G. Genetic differences in natural populations of *Glossina palpalis gambiensis* of West Africa revealed by microsatellite DNA polymorphism. Society for Vector Ecology (SOVE), Lisbonne, 13-17 Octobre 1998, Portugal.
- 49) Prugnolle, F. **De Meeûs T.**, Durand P., Sire C. & Théron A. Structure génétique sexe-spécifique chez *Schistosoma mansoni*: implications évolutives et épidémiologiques. 24<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Paris 27-29 Août 2001.
- 50) **De Meeûs T.** Mécanismes de spécialisation chez les parasites: le modèle Copépode – Poissons plats. Réunions du Réseau "Ecologie des Interactions Durables", 29-31 Octobre 2001 Villeurbanne (Lyon I).
- 51) Prugnolle F., **De Meeûs T.**, Durand, P., Sire C. & Théron A. Sex-specific genetic structure in *Schistosoma mansoni*: evolutionary and epidemiological implications. Population Genetics Group. Leeds 2-5 January 2002.
- 52) **De Meeûs T.**, Delaye C., Aeschlimann A., Beati L., Lorimier Y., Humair P.F., Grunau C. & Renaud F. The population genetics of *Ixodes ricinus* and Lyme borreliosis in Switzerland. Seventh International Meeting on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Valencia, 19-22 July 2004.
- 53) Koffi B.B. **De Meeûs T.**, Barré N., Ducornez S., De Garine Wichatitsky M. & Chevillon C. The cattle tick *Boophilus microplus* in New Caledonia Island: an invasive pathogen developing pesticide-resistance on cattle while colonizing an invasive host-species, *Cervus timorensis russa*. Poster, Seventh International Meeting on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Valencia, 19-22 July 2004.
- 54) **De Meeûs T.**, Delaye C., Lorimier Y., Humair P.F., Grunau C., Beati L., Aeschlimann A. & Renaud F. Des tiques, des micropathogènes, des hôtes vertébrés, des marqueurs génétiques et des biais de dispersion. 27<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Paris 24-27 Août 2004.
- 55) Chevillon C., Koffi B.B., Durand P. & **De Meeûs T.** Population structure of the southern cattle tick, *Boophilus microplus*, in New-Caledonia island, 5th International Conference on Ticks and Tick-borne Pathogens, Neuchâtel 29/08-02/09 2005.
- 56) Solano P., Ravel S., **de Meeûs T.**, Dujardin J.P. & Cuny G. (2005). Role of tsetse population genetics in disease epidemiology. 54th American Society of Tropical Medicine and Hygiene, Washington DC, USA, 11-15/12/2005.
- 57) **De Meeûs T.** Présentation du groupe thématique "Tiques et maladies à tiques". Réunion du Réseau Ecologie des Interactions Durables, Dijon 9-11 Janvier 2006.
- 58) Rougeron V., **De Meeûs T.**, Hide M., Waleckx E., Arevalo J., Bermudez H., Llanos-Cuentas A., Dujardin J.C., Bañuls A.L. *Leishmania braziliensis* : population structure and reproductive mode. MEEGID VIII: 8th international meeting on molecular epidemiology and evolution genetics in infectious diseases Bangkok (THA), 30/11-02/12 2006.
- 59) **De Meeûs T.**, Koffi B.B., Barré N., De Garine-Wichatitsky M., Ducornez S., Durand P., Arnathau C., Joulia D. & Chevillon C. Invasion de la Nouvelle Calédonie par la tique du bétail *Boophilus microplus*: Adaptations aux bovins, aux traitements acaricides et aux cerfs rusa. Cinquième réunion annuelle du Réseau Ecologie des Interactions Durables (REID), Brest, 29-31 Janvier 2007.
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- 61) **De Meeûs T.**, Koffi B.B., Barré N., De Garine-Wichatitsky M., Ducornez S., Arnathau C., Durand P., Joulia D. & Chevillon C. Invasion de la Nouvelle Calédonie par la tique du bétail *Boophilus microplus*: Adaptations aux bovins, aux traitements acaricides et aux cerfs rusa. 29<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Dijon 27-30 Août 2007.
- 62) Rougeron V., **De Meeûs T.**, Hide M., Waleckx E., Arevalo J., Bermudez H., Llanos-Cuentas A., Dujardin J.C. & Bañuls A.L. Structure des populations et mode de reproduction du protozoaire parasite *Leishmania braziliensis*. 29<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Dijon 27-30 Août 2007.
- 63) Kempf F., McCoy K. & **De Meeûs T.** Relations évolutives chez les tiques *Ixodes uriae* et *I. ricinus*: rôle de l'hôte dans la structuration des populations et l'évolution de la spécialisation. 29<sup>ème</sup> réunion du "Groupe de Biologie et Génétique des Populations", Dijon 27-30 Août 2007.

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- 65) Kempf F., **De Meeûs T.**, Arnathau C., Degeilh B. & McCoy Karen. Within population structure of *Ixodes ricinus*, the European vector of Lyme borreliosis. 6<sup>th</sup> European Congress of Acarology, Montpellier 21-25 July 2008.
- 66) Bouyer J. Guerrini, L., Koné N. Vial, L., Ravel S., Sidibe I., Solano P. and **De Meeûs T.** Habitat, distribution and structure of riverine tsetse populations of the Mouhoun river basin in Burkina Faso: implications for control campaigns. X<sup>th</sup> European Multicolloquium of Parasitology, Paris 24-28 August 2008.
- 67) Solano P., Ravel S., Bouyer J., Dujardin J.P., Dyer N., Camara M., Kaba D., Sidibe I., Kagbadouno M., Gardes L., Herault D., Donnelly M.J., Cuny G., **De Meeûs T.** Population genetic structure of *G. palpalis* s.l. in West Africa: consequences for tsetse control. X<sup>th</sup> European Multicolloquium of Parasitology, Paris 24-28 August 2008.
- 68) Kempf F., **De Meeûs T.**, Arnathau C., Degeilh B., McCoy K.D. Within population structure of *Ixodes ricinus*, the European vector of Lyme borreliosis. X<sup>th</sup> European Multicolloquium of Parasitology, Paris 24-28 August 2008.
- 69) Rougeron V., **De Meeûs T.**, Bañuls A.L., Hide M., Waleckx E., Arevalo J., Llanos-Cuentas A., Bermudez H., Dujardin J.C. Inbreeding in protozoan parasites of the genus *Leishmania*. X<sup>th</sup> European Multicolloquium of Parasitology, Paris 24-28 August 2008.
- 70) Prugnolle F. and **De Meeûs T.** The impact of clonality on parasite population genetic structure. X<sup>th</sup> European Multicolloquium of Parasitology, Paris 24-28 August 2008.
- 71) Rougeron V., **De Meeûs T.**, Hide M., Waleckx E., Llanos-Cuentas A., Arevalo J., Bermudez H., Dujardin J.C., De Doncker S., Le Ray D., Banuls A.L.. Levels of inbreeding in protozoan parasites of the genus *Leishmania*? 93rd ESA Annual Meeting in *Milwaukee* COS 28 - Parasitism and Host-Parasite Interactions, July 2008.
- 72) **De Meeûs T.**, Bouyer J., Bucheton B., Cuny G., Gardes L., Jamonneau V., Koffi M., Ravel S. & Solano P. Human African Trypanosomiasis in Western Africa: tackling the population biology of trypanosomes and tsetse flies through population genetics and connecting the dots. **Meegid IX Congress, Irvine 30<sup>th</sup> October-1<sup>st</sup> November 2008.**
- 73) Koffi M., **De Meeûs T.**, Bucheton B., Solano P., Camara M., Kaba D., Cuny G., Ayala F.J. and Jamonneau V. Population genetics of *Trypanosoma brucei gambiense*: a clone in the dark. 30<sup>th</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Kampala, Uganda, September 21-25, 2009.
- 74) Chevillon C., **De Meeûs T.**, Kempf F., McCoy K. D. Host-specificity as a factor of genetic divergence in ticks: Case studies in *Ixodes uriae*, *Ixodes ricinus* and *Rhipicephalus microplus*. MEEGID X Congress, Amsterdam 3-5 November 2010.
- 75) **De Meeûs T.**, Rougeron V., Koffi M., Barnabé C., Jamonneau V., Bucheton B., Bañuls A.L., Simo G., Njiokou F., Brénière F. and Solano P. Population genetic structure and reproductive strategies of trypanosomatidae: No more a clone in the dark? MEEGID X Congress, Amsterdam 3-5 November 2010.
- 76) Kaboré J., MacLeod A., **De Meeûs T.**, Bucheton B., Duffy C., Ilboudo H., Camara M., Camara O. and Jamonneau V. Tests of the different biological factors affecting the population genetic structure of *Trypanosoma brucei gambiense* in Coastal Guinea. MEEGID X Congress, Amsterdam 3-5 November 2010.
- 77) **De Meeûs T.**, Koné N., Bouyer J., Ravel S., Vial S. and Solano P.: "Smoke on the water" while "rolling on the river" or "should I stay" in the mangrove "or should I go": Population genetic structure of tsetse flies in Western Africa, an "immigrant song". MEEGID X Congress, Amsterdam 3-5 November 2010.
- 78) **De Meeus T.** and Prugnolle F. Système de reproduction et diversité génétique ou évaluation de la recombinaison chez les populations pathogènes. Atelier organisé par le CIRAD, De l'analyse de la Diversité vers l'étude de l'évolution des agents pathogènes, SANTE végétale et animale, Montpellier – Agropolis International – 2 et 3 décembre 2010.
- 79) **De Meeûs T.**, Rougeron V. & Bañuls A.L. Fonctionnement des foyers de leishmanioses tel que révélé par analyses génétiques. Colloque de restitution des projets financés par l'ANR SEST 2006, Paris, 20-21 Janvier 2011.
- 80) **De Meeûs T.**, Koffi M., Jamonneau V., Bucheton B., Simo G., Njiokou F., Salim B. and Solano P. Population genetic structure and reproductive strategies of African trypanosomes. 31<sup>st</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Bamako, Mali, September 12-16, 2011.
- 81) Bucheton B., Camara M., Ilboudo H., Camara H., Kabore J., **De Meeûs T.**, MacLeod A. and Jamonneau V. Nouveaux arguments en faveur de l'existence de la trypanotolérance humaine: perspectives pour une meilleure compréhension de l'interaction hôte-parasite et pour l'amélioration des stratégies de lutte. 31<sup>st</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Bamako, Mali, September 12-16, 2011.

- 82) Melachio-Tanekou T.M., Simo G., Ravel S., **De Meeûs T.**, Causse S., Solano P., Lutumba P., Asonganyi T., Njiokou F. Structure de la génétique de population de *Glossina palpalis palpalis* du foyer de la maladie du sommeil de l'Afrique du Centre. 31<sup>st</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Bamako, Mali, September 12-16, 2011.
- 83) Kaboré J., Ilboudo H., MacLeod A., Capewell P., Camara M., Belem A.M.G., Bucheton B., **De Meeûs T.** & Jamonneau V. Amélioration de l'amplification de locus microsatellites de *Trypanosoma brucei gambiense* à partir de fluides biologiques. Poster. 31<sup>st</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Bamako, Mali, September 12-16, 2011.
- 84) Solano P., Ravel S., Bouyer J., **De Meeûs T.** Use of population genetics to choose between vector control strategies: the example of tsetse in West-Africa. Conference: Towards a multi-scale approach for improving pest management. Methods for tracking movement and dispersal of insect pest individuals and populations, Montpellier 04/10/2011-05/10/2011.
- 85) Modou Séré, Jacques Kaboré, Vincent Jamonneau, Adrien Marie Gaston Belem, Francisco J. Ayala and **Thierry De Meeûs**. 2013. Allelic dropouts and null allele detection in clonal organisms: simulations and application to real data sets. 32<sup>nd</sup> meeting of International Scientific Council for Trypanosomiasis Research and Control, Khartoum, Sudan, September 8-12, 2013.
- 86) **T. De Meeûs**, J. Bouyer, S. Ravel, P. Solano. Ecotype evolution in *Glossina palpalis* subspecies, major vectors of sleeping sickness. MEEGID XII, 12th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, 11-13 December, 2014, The Royal River Hotel, Bangkok, Thailand.
- 87) M. Séré, S. Thévenon, A.M.G. Belem, T. De Meeûs. Detecting isolation by distance with different genetic distances, with and without null alleles of insect vectors (tsetse flies). MEEGID XII, 12th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, 11-13 December, 2014, The Royal River Hotel, Bangkok.
- 88) **T. De Meeûs**, M. Koffi, M. Séré, W. Weir. Population genetics, reproductive strategies and taxonomic diversities of African trypanosomes. MEEGID XIII, 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, May 11-13, 2016, Tropical Medicine Institute, Antwerp, Belgium.
- 89) **T. De Meeûs**, M. Koffi, M. Séré, W. Weir. Population genetics, reproductive strategies and taxonomic diversities of African trypanosomes, TryTax 2, 2<sup>nd</sup> Trypanosomatidae Biology, Evolution, Taxonomy and Phylogeny meeting, June 14-16, 2016, Ostrava University, Faculty of Science, Czech Republic.
- 90) **De Meeûs T.**, Manangwa O., Ravel S., Beati L. New tools to detect and discriminate causes of homozygous excess and linkage disequilibrium in vectors, Meegid XIV, 14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, 6-9 November 2018, Hotel Melia, Sitges, Spain.

*Details of lectures and practicals*

Practicals of Statistics for 2nd Degree students of Bangor (School of Biological Sciences, University of Wales)	1991-1992: 15 h
<i>Genetics, Population Genetics, Evolutionary Ecology.</i>	
2 <sup>nd</sup> year students, Montpellier II	1997-1998: 3 h
3 <sup>rd</sup> and 4 <sup>th</sup> year students, Montpellier II	1989-1990: 30 h 1990-1991: 27 h 1991-1992: 12 h 1992-1993: 192 h 1993-1994: 30 h 1994-1995: 30 h 1995-1996: 30 h 1996-1997: 30 h 1997-1998: 12 h 2000-2001: 4 h
5 <sup>th</sup> years and above.	
CAPES et/ou Agreg, Université Montpellier II:	2000-2001: 1 h 15 2001-2002: 9 h 30 2002-2003: 9 h 30 2003-2004: 10 h 2004-2005: 6 h 2005-2006: 6 h

	2006-2007: 6 h
Master 2 (DEA) d'Ecologie, Biodiversité et Evolution de Montpellier: Now Master 2 BGAE-EBE	1994-1995: 6 h 1995-1996: 3 h 1996-1997: 3 h 1997-1998: 3 h 1998-1999: 3 h 1999-2000: 4 h 2000-2001: 5 h 2001-2002: 4h 15 2002-2003: 4h 15 2003-2004: 4 h 2004-2005: 5 h 2005-2006: 6 h 2006-2007: 8h
Master 2 (DEA) de Biodiversité de Interactions Microbiennes et Parasitaires (BGAE-BIMP):	1997-1998: 2 h 1998-1999: 3 h 1999-2000: 3 h 2005-2006: 4 h 2006-2007: 3h
Master 2 (DEA) de Pathologie Humaine de Marseille: Maladies transmissibles et pathologies tropicales	1997-1998: 2 h 1998-1999: 4 h 1999-2000: 4 h 2000-2001: 4 h 2001-2002: 4 h 2002-2003: 4 h 2003-2004: 4 h 2004-2005: 4 h 2005-2006: 4 h
Master International d'Entomologie Médicale et Vétérinaire (MIEMV)	2009-2010: 8 h 2010-2011: 14 h 2011-2012: 16 h 2015-2016: 12 h 2016-2017: 14 h
Atelier d'initiation à la génétique empirique des populations : Groupe Tique et Maladies à Tiques (Institut Pasteur, Paris) CIRDES et IRD de Bobo-Dioulasso (Burkina-Faso)	12/2005: 2h 02/2007: 8h 09/2012: 24h 01/2014: 24h 01/2015: 24h
Campus CIRAD de Baillarguet (Montpellier)	07/2009: 12h 07/2010: 12h 07/2011: 15h 07/2012: 24h 26-27/04/2017: 6h 13-15/11/2017: 15h 19-21/12/2017: 12h 12-14/02/2018: 18h 3-6/12/2018: 24h 11-14/12/2018: 24h 28-31/01/2019: 24h 25-28/02/2019: 24h
CIRAD Agropolis ISRA-LNERV, Dakar-Hann, Sénégal PPAAO, Niamey, Niger Institut Pasteur de Madagascar, Antananarivo, Madagascar Université Jean Lorougnon Guédé, Daloa, Côte d'Ivoire	06/2013: 24h 10/2013: 24h 11/2013: 24h 05/2014: 27h 06/2014: 24h

Empirical population genetics training course for beginners	
Faculty of Veterinary Medicine, Khartoum, Sudan	10/2012: 24h
Department of Biology, Georgia Southern University, Statesboro (GA) USA	05/2013: 24h
University of Zimbabwe, Harare, Zimbabwe	11/2013: 24h
Press Club Hanoi, Viet-Nam (Organised by A.L Bañuls)	11/2014: 24h
Faculty of Veterinary Technology, Kasetsart University, Bangkok, Thailand	
(Organised by Prof Worawut Rerkamnuaychoke and S. Morand)	11/2014: 24h
Biotechnology Centre, Universidade Eduardo Mondlane, Maputo, Mozambique	
(organized by Laure Guerrini and Alain Boulanger for the program GeoSaf/CIRAD)	05/2015: 24h
African Union, Addis Ababa, Ethiopia (organized by the IAEA)	09-10/2015: 24h
Computational Biology for Infectious Diseases (CBID) summer school,	
18-25/09/2016, Hanoi Vietnam	09/2016: 34h
CIRAD Baillarguet	7-8/02/2017: 13h
Université Polytechnique de Bobo-Dioulasso (UPB)	
Institut du Développement Rural (IDR)	
DEA de Gestion Intégrée des Ressources Naturelles (GIRN) et	
Master 2 de Biologie Appliquée et Modélisation des Systèmes Biologiques	
Cours "Rédaction et communication scientifique ":	04/2009: 21h
	02/2010: 23h
	05-06/2011: 30h
	04/2012: 25h
	03/2013: 25h
	02/2014: 16h
	03/2015: 20h
Cours "Initiation à la génétique des populations":	06/2010: 12h
	02/2011: 16h
Master 1 de Sciences et Techniques de Production Animale	
Génétique et Génétique des populations:	09/2012: 20h
	01/2014: 20h
Licence de Systèmes de Production Agricole	
Génétique et Génétique des populations:	02/2014: 18h
FAO/IAEA/PATTEC regional training course on standardised collection	
and processing of entomological and other relevant geo-referenced data as	
needed in SIT-based AW-IPM campaigns against tsetse.	
CIRDES, Bobo-Dioulasso, Burkina Faso, 1–19 February 2010:	02/2010: 2h
Formation à la rédaction scientifique et à la construction d'une communication orale	
Etudiants et stagiaires du CIRDES	06/2012: 4h
Formation d'initiation aux tests statistiques et au package Rcmdr du logiciel R	
Campus CIRAD Baillarguet, Montpellier, France	05/2016: 6h
Stage "ADN environnemental", Rappels de génétique,	
Organisé à Montpellier Agropolis International par le CeMEB, Aten et le PNF,	
en collaboration avec le CNRS-INEE, et du GDR Génomique environnemental	11/2016: 3h
Master GIMAT : "GESTION INTEGREE DES MALADIES ANIMALES"	
Module Ecologie et lutte intégrée contre les vecteurs	
Introduction à la génétique des populations	
comme méthode d'étude de l'écologie des vecteurs	11/12/2017: 1h
	10/12/2018: 1h
Center for Excellence Tick Workshop, Statesboro, Georgia, USA	
Empirical population genetics of ticks	25/05/2018: 4h
Formation combinée à l'analyse des données et la rédaction d'articles	
sur la génétique des populations de parasites (trypanosomes Africains)	
et de leurs vecteurs (glossines), Bouaké, Côte d'Ivoire	19-27/11/2018: 71h
<i>PhD Evaluator (* main reviewer)</i>	
Zhenquin Zhu: Perpignan University, 20/12/1995.	

Nadera Chouicha: Montpellier I University, 15/04/1996.  
Brigitte Degeilh: Rennes I University, 26/11/1996.  
Christelle Delaye, Montpellier II University, 27/11/1998.  
Michel de Garine Wichatitsky, Montpellier II University, 29/11/1999.  
Marie-Laure Guillemin\*, Paris XIII University, le 10/07/2000.  
Christel Sire, Perpignan University, 22/09/2000.  
Catherine Badoc\*, Montpellier I University, 28/11/2001.  
Thèse de Magali Théraud, Rennes 1 University, 17/09/2003.  
Pierre Fontanillas\*, Lausanne University, 12/09/2003 (private defence) and the 10/10/2003 (public defence).  
Franck Prugnotte, Montpellier II University, 19/12/2003.  
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