

## Peer-reviewed publications

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### **Viral infection impacts transposable element transcript amounts in *Drosophila*.**

Roy M, Viginier B, Saint-Michel É, Arnaud F, **Ratinier M\***, Fablet M\*.

Proc Natl Acad Sci U S A. 2020 Jun 2;117(22):12249-12257. doi: 10.1073/pnas.2006106117. Epub 2020 May 20.

[*Impact Factor 5y: 11.205 – Q1 (Multidisciplinary Sciences) - Citation: 3*]

**\*co-last authors**

### **Development of a Reverse Genetics System for Toscana Virus (Lineage A).**

Alexander AJT, Confort MP, Desloire S, Dunlop JI, Kuchi S, Sreenu VB, Mair D, Wilkie GS, Da Silva Filipe A, Brennan B, **Ratinier M**, Arnaud F, Kohl A.

Viruses. 2020 Apr 7;12(4):411. doi: 10.3390/v12040411.

[*Impact Factor 5y: 5.048 – Q2 (Virology) - Citation: 3*]

### **Remodeling of the Actin Network Associated with the Non-Structural Protein 1 (NS1) of West Nile Virus and Formation of NS1-Containing Tunneling Nanotubes.**

Furnon W, Fender P, Confort MP, Desloire S, Nangola S, Kitidee K, Leroux C, **Ratinier M**, Arnaud F, Lecollinet S, Boulanger P, Hong SS.

Viruses. 2019 Sep 27;11(10):901. doi: 10.3390/v11100901.

[*Impact Factor 5y: 5.048 – Q2 (Virology) - Citation: 4*]

### **Bluetongue Virus NS4 Protein Is an Interferon Antagonist and a Determinant of Virus Virulence**

**Ratinier M**, Shaw AE, Barry G, Gu Q, Di Gialleonardo L, Janowicz A, Varela M, Randall RE, Caporale M, Palmarini M.

J Virol. 2016 May 12;90(11):5427-39. doi: 10.1128/JVI.00422-16. Print 2016 Jun 1. **Spotlight.**

[*Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 32*]

### **Characterisation of a second open reading frame in genome segment 10 of bluetongue virus**

Stewart M, Hardy A, Barry G, Pinto RM, Caporale M, Melzi E, Hughes J, Taggart A, Janowicz A, Varela M, **Ratinier M\***, Palmarini M\*.

J Gen Virol. 2015 Nov;96(11):3280-93. doi: 10.1099/jgv.0.000267. Epub 2015 Aug 19.

[*Impact Factor 5y: 3.891 – Q2 (Virology) et Q2 (Biotechnology and applied microbiology) - Citation: 55*]

**\*co-last authors**

### **Turnover Rate of NS3 Proteins Modulates Bluetongue Virus Replication Kinetics in a Host-Specific Manner**

Ftaich N, Ciancia C, Viarouge C, Barry G, **Ratinier M**, van Rijn PA, Breard E, Vitour D, Zientara S, Palmarini M, Terzian C, Arnaud F.

J Virol. 2015 Oct 15;89(20):10467-81. doi: 10.1128/JVI.01541-15. Epub 2015 Aug 5. **Spotlight.**

[*Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 12*]

### **Multiple genome segments determine virulence of Bluetongue virus serotype 8**

Janowicz A, Caporale M, Shaw AE, Gulletta S, Di Gialleonardo L, **Ratinier M**, Palmarini M

J Virol 2015, Accepted manuscript posted online 11 March 2015, doi: 10.1128/JVI.00395-15

[*Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 29*]

### **A synthetic biology approach for a vaccine platform against known and newly emerging serotypes of bluetongue virus.**

Nunes SF, Hamers C, **Ratinier M**, Shaw A, Brunet S, Hudelet P, Palmarini M.

J Virol. 2014 Nov;88(21):12222-32. doi: 10.1128/JVI.02183-14. Epub 2014 Aug 20.

[*Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 31*]

**NSs protein of Schmallenberg virus counteracts the antiviral response of the cell by inhibiting its transcriptional machinery.**

Barry G, Varela M, **Ratinier M**, Blomström AL, Caporale M, Seehusen F, Hahn K, Schnettler E, Baumgärtner W, Kohl A, Palmarini M.

J Gen Virol. 2014 Aug;95(Pt 8):1640-6. doi: 10.1099/vir.0.065425-0. Epub 2014 May 14.

[Impact Factor 5y: 3.891 – Q2 (Virology) and Q2 (Biotechnology and applied microbiology) - Citation: 21]

**RNA Interference Targets Arbovirus Replication in Culicoides Cells.**

Schnettler E\*, **Ratinier M\***, Watson M, Shaw AE, McFarlane M, Varela M, Elliott RM, Palmarini M, Kohl A  
\*co-first authors

J Virol. 2013 Mar;87(5):2441-54. doi: 10.1128/JVI.02848-12. Epub 2012 Dec 26.

[Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 64]

**Reassortment between Two Serologically Unrelated Bluetongue Virus Strains Is Flexible and Can Involve any Genome Segment.**

Shaw AE, **Ratinier M**, Nunes SF, Nomikou K, Caporale M, Golder M, Allan K, Hamers C, Hudelet P, Zientara S, Breard E, Mertens P, Palmarini M.

J Virol. 2013 Jan;87(1):543-57. doi: 10.1128/JVI.02266-12. Epub 2012 Oct 24

[Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 80]

**Drosophila melanogaster as a model organism for bluetongue virus replication and tropism.**

Shaw AE, Veronesi E, Maurin G, Ftaich N, Guiguen F, Rixon F, **Ratinier M**, Mertens P, Carpenter S, Palmarini M, Terzian C, Arnaud F.

J Virol. 2012 Sep;86(17):9015-24. doi: 10.1128/JVI.00131-12. Epub 2012 Jun 6.

[Impact Factor 5y: 5.103 – Q1 (Virology) – Citations: 30]

**Identification and characterization of a novel non-structural protein of bluetongue virus.**

**Ratinier M**, Caporale M, Golder M, Franzoni G, Allan K, Nunes SF, Armezzani A, Bayoumy A, Rixon F, Shaw A, Palmarini M.

PLoS Pathog. 2011 Dec;7(12):e1002477. doi: 10.1371/journal.ppat.1002477. Epub 2011 Dec 29.

[Impact Factor 5y: 6.823 – Q1 (Virology), Q1 (Parasitology) and Q1 (Microbiology) – Citations: 183]

**Seroconversion to hepatitis C virus alternate reading frame protein during acute infection.**

Morice Y, **Ratinier M**, Miladi A, Chevaliez S, Germanidis G, Wedemeyer H, Laperche S, Lavergne JP, Pawlotsky JM.

Hepatology. 2009 May;49(5):1449-59. doi: 10.1002/hep.22821.

[Impact Factor 5y: 17.425 – Q1 (Gastroenterology and Hepatology) – Citations: 13]

**Subcellular localizations of the hepatitis C virus alternate reading frame proteins.**

**Ratinier M**, Boulant S, Crussard S, McLauchlan J, Lavergne JP.

Virus Res. 2009 Jan;139(1):106-10. doi: 10.1016/j.virusres.2008.09.011. Epub 2008 Nov 28.

[Impact Factor 5y: 3.303 – Q3 (Virology) – Citations: 9]

**Transcriptional slippage prompts recoding in alternate reading frames in the hepatitis C virus (HCV) core sequence from strain HCV-1.**

**Ratinier M**, Boulant S, Combet C, Targett-Adams P, McLauchlan J, Lavergne JP.

J Gen Virol. 2008 Jul;89(Pt 7):1569-78. doi: 10.1099/vir.0.83614-0.

[Impact Factor 5y: 3.891 – Q2 (Virology) and Q2 (Biotechnology and applied microbiology) - Citations: 27]

**Structural determinants that target the hepatitis C virus core protein to lipid droplets.**

Boulant S, Montserret R, Hope RG, **Ratinier M**, Targett-Adams P, Lavergne JP, Penin F, McLauchlan J.

J Biol Chem. 2006 Aug 4;281(31):22236-47. Epub 2006 May 16.

[Impact Factor 5y: 5.157 – Q2 (Biochemistry and molecular biology) - Citations: 160]

Web of Science (06/07/2021)

**Oral presentations**

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**28-29 April 2021 : Journées Francophones de Virologie, Montpellier, France**

**Title:** Caractérisation des facteurs de virulence de deux souches de terrain du virus de la fièvre de la vallée du Rift

Mehdi Chabert Ben Cherifa, Sandra Lacôte, Philippe Marianneau, Baba Doumbia, Mohamed Bezeid Ould El Mamy, Moustapha Lo, Sreenu Vattipally, Ana da Silva Filipe, Bertrand Pain, Catherine Cêtre-Sossah, Frédérick Arnaud et **Maxime Ratinier**

**6-10 Octobre 2015: 12<sup>th</sup> International Double-Stranded RNA Virus Symposium, Goa, Inde**

**Title:** BTV NS4 protein is an IFN antagonist and acts as a virulence factor in vivo

Maxime Ratinier, Andrew Shaw, Gerald Barry, Quan Gu, Luigina Di Gialleonardo, Anna Janowicz, Mariana Varela, Richard Randall, Marco Caporale, Massimo Palmarini

**7-8 Septembre 2015: International Meeting on Arboviruses and their Vectors, IMAV2015, Glasgow, UK**

**Title:** BTV NS4 protein is an IFN antagonist and acts as a virulence factor in vivo

Maxime Ratinier, Andrew Shaw, Gerald Barry, Quan Gu, Luigina Di Gialleonardo, Anna Janowicz, Mariana Varela, Richard Randall, Marco Caporale, Massimo Palmarini

**21-25 June 2014: 33<sup>rd</sup> Annual Meeting of American Society for Virology, Colorado State University, Fort Collins, USA**

**Title:** Bluetongue virus NS4 protein counteracts the host antiviral response and favours viral replication in sheep

Maxime Ratinier, Marco Caporale, Jin Yi, Rick Randall, Gerald Barry and Massimo Palmarini

**14-17 April 2014: SGM Annual Conference 2014, Arena and Convention Centre, Liverpool, UK**

**Title:** Bluetongue virus NS4 protein counteracts the host antiviral response

Maxime Ratinier, Marco Caporale, Jin Yi, Rick Randall, Gerald Barry and Massimo Palmarini

**1 February 2014: 19<sup>th</sup> Glasgow Virology Workshop, Glasgow, UK**

**Title:** Interaction of bluetongue virus with the innate immune system of the host

Maxime Ratinier

**21-25 July 2012 : 31<sup>st</sup> Annual Meeting of American Society for Virology, University of Wisconsin, Madison, USA**

**Title :** Identification and characterization of the fourth non-structural protein of bluetongue virus

Maxime Ratinier, Marco Caporale, Matthew Golder, Giulia Franzoni, Kathryn Allan, Sandro Filipe Nunes, Alessia Armezzani, Amr Bayoumy, Frazer Rixon, Andrew Shaw and Massimo Palmarini

**28-30 June 2012 : Sub-Nuclear Structures and Disease, The Møller Centre, Cambridge, UK**

**Title :** Identification and characterization of a novel non-structural protein of Bluetongue virus

Maxime Ratinier, Marco Caporale, Matthew Golder, Giulia Franzoni, Kathryn Allan, Sandro Filipe Nunes, Alessia Armezzani, Amr Bayoumy, Frazer Rixon, Andrew Shaw and Massimo Palmarini

**11-14 April 2011 : SGM Spring Conference 2011, Harrogate International Centre, Harrogate, UK**

**Title :** Bluetongue virus encodes a novel non-structural protein

Maxime Ratinier, Andrew Shaw, Giulia Franzoni, Salvatore Gulletta, Marco Caporale, Massimo Palmarini

**3-4 October 2006 : Réunion annuelle du Réseau National Hépatites Virales, organisée par L'ANRS. Paris, France.**

**Title :** Création de cadres de lecture alternatifs dans la séquence codante de core (HCV-1) par glissement transcriptionnel

Maxime Ratinier, Steeve Boulant, Paul Targett-Adams, Christophe Combet, John McLauchlan et Jean-Pierre Lavergne

**April 2005 : 9<sup>ème</sup> Journée de l'EDISS (Ecole Doctorale Inter-Science et Santé), Université Claude Bernard Lyon1 – Villeurbanne, France.**

**Title :** Étude du décalage du cadre de lecture au cours de la traduction de la protéine de capsid du Virus de l'Hépatite C

**Maxime Ratinier**, François Penin et Jean-Pierre Lavergne

**4-5 December 2006: “XIX es Entretiens du centre Jacques Cartier”**. Lyon, France.

**Tilte:** Transcriptional slippage at a rare adenine cluster in the coding region of hepatitis C virus core protein prompts recoding in alternate reading frames. (Poster)

**M.RATINIER**, S.BOULANT, C.COMBET, P.TARGETT-ADAMS, J.McLAUHLAN and J.P.LAVERGNE.

**27-31 August 2006: « 13<sup>th</sup> International Symposium on hepatitis C and related viruses »**. Cairns, Australie.

**Tilte :** . Transcriptional slippage at a rare adenine cluster in the coding region of hepatitis C virus core protein prompts recoding in alternate reading frames. (Poster)

**M.RATINIER**, S.BOULANT, P.TARGETT-ADAMS, C.COMBET, J.McLAUHLAN and J.P.LAVERGNE

**2-6 October 2005 : « 12<sup>th</sup> International Symposium on hepatitis C and related viruses »**. Montréal, Canada.

**Tilte :** . A rare adenine clusters in Hepatitis C Virus core protein RNA sequence induces two consecutive -1 frameshiftings at adjacent codons. (Poster)

**M.RATINIER**, S.BOULANT, C.COMBET, and J.P.LAVERGNE

**4-5 November 2003 : Congrès annuel de la SFBBM**, Lyon, France.

**Tilte :** Mise en évidence de décalages de cadre de lecture lors de la traduction de la protéine de capsid du virus de l'hépatite C. (Poster)

**M.RATINIER**, S.BOULANT, M.BECCHI, F.PENIN et J.P.LAVERGNE.