

Professeur Philippe Parola

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Chef du service d'hospitalisation post-urgence et des maladies infectieuses aigües
Pôle Maladies Infectieuses de l'Assistance Publique - Hôpitaux de Marseille.

Directeur de l'UMR 257 VITROME (Vecteurs – Infections Tropicales et Méditerranéennes)
Aix-Marseille université, Institut de recherche pour le développement, Service de santé des armées.
Directeur du centre de référence sud des maladies vectorisées par les tiques.

Formation

Marié et père d'une enfant, Philippe Parola est né le 16 octobre 1971 à Marseille (51 ans). Il a effectué ses études de médecine et s'est spécialisé en médecine interne et en maladies infectieuses et tropicales à Aix Marseille Université. Après avoir obtenu son Doctorat en médecine et un Doctorat d'université, il a effectué un post-doc à la *Harvard School of Public Health*, à Boston, en collaboration avec le *Armed Forces Research Institute of Medical Sciences* de Bangkok. Diplômé du *Gorgas Expert Course in Clinical Tropical Medicine*, Lima, Pérou, il totalise 5 ans d'expérience en zone tropicale pour des activités de soins, d'enseignement ou de recherche, principalement en Afrique francophone et en Asie.

Situation Hospitalo-Universitaire

Philippe Parola est Professeur des Universités (classe exceptionnelle) en maladies infectieuses et tropicales, et Praticien Hospitalier - Chef de Service à l'Assistance Publique Hôpitaux de Marseille. Coordonnateur interrégional de la formation dans sa spécialité, il a créé des diplômes en médecine tropicale et en entomologie médicale, et a été membre pendant 6 ans du CNU 45-03. Il a créé et dirige le service d'hospitalisation post-urgence des maladies infectieuses aigües situé dans le bâtiment de l'Institut Hospitalo-Universitaire Méditerranée Infection, prenant en charge les infections communautaires ou nosocomiales, comme les infections respiratoires ou les méningites, les maladies liées aux voyages, les complications de l'infection à HIV, les maladies des migrants. Il a particulièrement été impliqué dans les soins aux patients hospitalisés pour Covid 19.

Direction

Philippe Parola a été Directeur du centre collaborateur OMS pour les rickettsioses et les autres maladies bactériennes transmises par les vecteurs de 2010 à 2015. Dans le domaine de la médecine des voyages, il a été directeur d'EuroTravNet (2010-2016), le réseau collaborateur du CDC Européen pour la médecine des voyages et la médecine tropicale. Philippe Parola dirige depuis 2019 le centre de référence des maladies vectorisées par les tiques. Il a créé et dirigé l'unité de recherche [VITROME](#) (2018-2023). Avec six équipes à Marseille, une au Sénégal, et une en Algérie, et des équipes partenaires au Niger, au Mali, et en Mauritanie, l'UMR a produit plus de 1000 publications.

Recherche

Les thématiques de Philippe Parola sont les maladies tropicales négligées, les maladies infectieuses émergentes, et l'entomologie médicale, notamment les maladies transmises par les tiques, les poux et les puces. En décembre 2023, Philippe Parola avait publié près de 620 [articles](#) dans la littérature internationale et a écrit une vingtaine de chapitres de livre. Il est un expert international des rickettsioses et des maladies transmises par les tiques. Ses titres travaux sont publiés et actualisés dans les bases internationales [ORCID](#) et [Web of Science](#). H index : 65. « Highly cited researcher 2023 ».

Activité Internationale

Philippe Parola a été chargé de mission pour les relations internationales à la Faculté des sciences médicales et paramédicales d'Aix-Marseille Université. Il y a suivi pendant 10 ans les actions de collaboration avec les partenaires, notamment ceux d'Afrique Francophone. Il coordonne deux réseaux (en Afrique sub-Saharienne et en zone Méditerranéenne) de recherche dans les maladies infectieuses émergentes et réemergentes. Il bénéficie de relais importants dans cette zone.

Activités d'Intérêt général

Philippe Parola a effectué son service national au Niger en 1998-99. Médecin en chef (Colonel), réserviste opérationnel du service de santé des armées depuis 2002, il est affecté au 10^e centre médical des armées et soutient le 1^{er} Régiment Étranger de Cavalerie. Il a participé à plusieurs opérations extérieures au Tchad (Barkhane), République de Côte d'Ivoire, Bosnie, Kosovo et Guyane. Il a été auditeur de la 73^e session politique de défense de l'Institut des Hautes Études de la Défense Nationale (IHEDN), et est expert judiciaire près la cour d'appel d'Aix-en Provence.

Récompenses

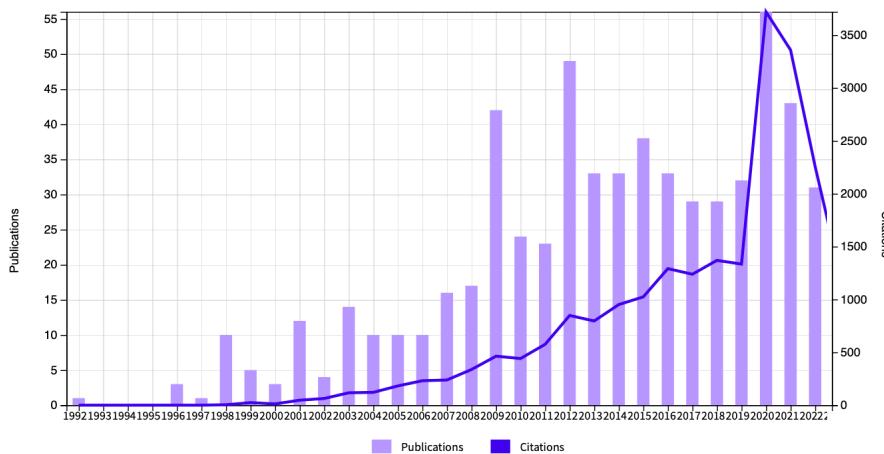
Philippe Parola est Chevalier dans l'Ordre National du Mérite et Chevalier dans l'Ordre des Palmes Académiques. Il a reçu plusieurs prix nationaux dont le prix Léon Launoy de l'Académie de médecine. Il a reçu en 2010 la Médaille d'honneur de la santé publique du Niger, en 2022 celle de Chevalier de l'Ordre de l'Etoile de la Grande Comore, En 2023 celle de Chevalier de l'Ordre de Mohéli, Comores. Il a reçu 7 décosations militaires, dont la Croix du Combattant, la Médaille Outre-Mer et la Médaille de Reconnaissance de la Nation.

Web of Science: Parola P

<https://www.webofscience.com/wos/woscc/summary/c64ca7b6-e4c4-48a1-9326-22f8408953b0-54fb565d/relevance/1>

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Publications (review) representatives de l'expertise

- Sevestre J, Diarra AZ, Laroche M, Almeras L, Parola P. Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry: an emerging tool for studying the vectors of human infectious diseases. **Future Microbiol.** 2021;16:323-340.
- Parola P, Izri A. Bedbugs. **N Engl J Med.** 2020;382:2230-2237.
- Laroche M, Bérenger JM, Delaunay P, Charrel R, Pradines B, Berger F, Ranque S, Bitam I, Davoust B, Raoult D, Parola P. Medical Entomology: A Reemerging Field of Research to Better Understand Vector-Borne Infectious Diseases. **Clin Infect Dis** 2017;65(suppl_1):S30-S38.
- Parola P, Paddock CD, Socolovschi C, Labruna MB, Mediannikov O, Kernif T, Abdad MY, Stenos J, Bitam I, Fournier PE, Raoult D. Update on tick-borne rickettsioses around the world: a geographic approach. **Clin Microbiol Rev.** 2013;26(4):657-702.
- Parola P, Raoult D. Ticks and tickborne bacterial diseases in humans: an emerging infectious threat. **Clin Infect Dis** 2001; 32:897-928.

Publications (articles originaux) representatives des axes principaux de recherche

- Jumpertz M, Sevestre J, Luciani L, Houhamdi L, Fournier PE, Parola P. Bacterial Agents Detected in 418 Ticks Removed from Humans during 2014-2021, France. **Emerg Infect Dis.** 2023;29:701-710.
- Huynh LN, Diarra AZ, Nguyen HS, Tran LB, Do VN, Ly TDA, Ho VH, Nguyen XQ, Parola P. MALDI-TOF mass spectrometry identification of mosquitoes collected in Vietnam. **Parasit Vectors.** 2022 ;15:39.
- Lagier JC, Million M, Cortaredona S, Delorme L, Colson P, Fournier PE, Brouqui P, Raoult D, Parola P; IHU Task Force. Outcomes of 2111 COVID-19 Hospitalized Patients Treated with Hydroxychloroquine/Azithromycin and Other Regimens in Marseille, France, 2020: A Monocentric Retrospective Analysis. **Ther Clin Risk Manag.** 2022;18:603-617.
- Hamlili FZ, Thiam F, Laroche M, Diarra AZ, Doucouré S, Gaye PM, Fall CB, Faye B, Sokhna C, Sow D, Parola P. MALDI-TOF mass spectrometry for the identification of freshwater snails from Senegal, including intermediate hosts of schistosomes. **PLoS Negl Trop Dis.** 2021;15:e0009725.
- Ouarti B, Laroche M, Righi S, Meguini MN, Benakhla A, Raoult D, Parola P. Development of MALDI-TOF mass spectrometry for the identification of lice isolated from farm animals. **Parasite.** 2020;27:28.
- Diarra AZ, Laroche M, Berger F, Parola P. Use of MALDI-TOF MS for the Identification of Chad Mosquitoes and the Origin of Their Blood Meal. **Am J Trop Med Hyg** 2019;100:47-53.
- Laroche M, Almeras L, Pecchi E, Bechah Y, Raoult D, Viola A, Parola P. MALDI-TOF MS as an innovative tool for detection of Plasmodium parasites in Anopheles mosquitoes. **Malar J** 2017;16:5.
- Dieme C, Bechah Y, Socolovschi C, Audoly G, Berenger JM, Faye O, Raoult D, Parola P. Transmission potential of Rickettsia felis infection by Anopheles gambiae mosquitoes. **Proc Natl Acad Sci U S A.** 2015;112:8088-93.

Liste Complete des Publications (PubMed) dans des journaux à comité de lecture : 1996 - 2023

<https://pubmed.ncbi.nlm.nih.gov/?term=parola+p&sort=date>

1. Ouarti B, Mbogning Fonkou DM, Houhamdi L, Mediannikov O, Parola P. Lice and lice-borne diseases in humans in Africa: A narrative review. *Acta Trop.* 2023;237:106709.
2. El Hadji Ibrahima N, Diatta G, Adama Zan D, Bassene H, Sokhna C, Parola P. Quantitative Polymerase Chain Reaction from Malaria Rapid Diagnostic Tests to Detect *Borrelia crocidurae*, the Agent of Tick-Borne Relapsing Fever, in Febrile Patients in Senegal. *Am J Trop Med Hyg.* 2023;108(5):968-976.
3. Jumpertz M, Sevestre J, Luciani L, Houhamdi L, Fournier PE, Parola P. Bacterial Agents Detected in 418 Ticks Removed from Humans during 2014-2021, France. *Emerg Infect Dis.* 2023;29:701-710.
4. Benyahia H, Parola P, Almeras L. Evolution of MALDI-TOF MS Profiles from Lice and Fleas Preserved in Alcohol over Time. *Insects.* 2023;14:825.
5. Fall FK, Diarra AZ, Bouganali C, Sokhna C, Parola P. Using MALDI-TOF MS to Identify Mosquitoes from Senegal and the Origin of Their Blood Meals. *Insects.* 2023;14:785.
6. Hamlili FZ, Bérenger JM, Parola P. Cicimids of Medical and Veterinary Importance. *Insects.* 2023;14(4):392.
7. Sevestre J, Lemrabott MAO, Bérenger JM, Zan Diarra A, Ould Mohamed Salem Boukhary A, Parola P. Detection of Arthropod-Borne Bacteria and Assessment of MALDI-TOF MS for the Identification of Field-Collected Immature Bed Bugs from Mauritania. *Insects.* 2023;14(1):69.
8. Tran XD, Hoang VT, Dang TTD, Vu TP, To MM, Tran TK, Do MD, Nguyen DC, Nguyen QT, Colson P, Parola P, Marty P, Gautret P. Aetiology of Acute Undifferentiated Fever Among Children Under the Age of Five in Vietnam: A Prospective Study. *J Epidemiol Glob Health.* 2023;13(2):163-172.
9. Mortier C, Tissot-Dupont H, Cardona F, Bruel C, Lahouel S, Lasri H, Bendamardji K, Boschi C, Parola P, Million M, Colson P, Brouqui P, La Scola B, Lagier JC, Cassir N. How to distinguish mpox from its mimickers: An observational retrospective cohort study. *J Med Virol.* 2023;95:e29147.
10. Colson P, Penant G, Delerce J, Boschi C, Wurtz N, Bedotto M, Branger S, Brouqui P, Parola P, Lagier JC, Cassir N, Tissot-Dupont H, Million M, Aherfi S, La Scola B. Sequencing of monkeypox virus from infected patients reveals viral genomes with APOBEC3-like editing, gene inactivation, and bacterial agents of skin superinfection. *J Med Virol.* 2023;95(6):e28799.
11. Million M, Lagier JC, Hourdain J, Franceschi F, Deharo JC, Parola P, Brouqui P. Cardiovascular Safety of Hydroxychloroquine-Azithromycin in 424 COVID-19 Patients. *Medicina (Kaunas).* 2023;59(5):863.
12. Huynh LN, Diarra AZ, Pham QL, Berenger JM, Ho VH, Nguyen XQ, Parola P. Identification of Vietnamese Flea Species and Their Associated Microorganisms Using Morphological, Molecular, and Protein Profiling. *Microorganisms.* 2023;11(3):716.
13. Berenger JM, Parola P. *Pyemotes ventricosus* Dermatitis. *N Engl J Med.* 2023;388(26):e80.
14. Brouqui P, Million M, Parola P, McCullough PA, Raoult D. Outcomes after early treatment with hydroxychloroquine and azithromycin: An analysis of a database of 30,423 COVID-19 patients. *New Microbes New Infect.* 2023;55:101188.
15. Benakacimi L, Diarra AZ, Bompar JM, Bérenger JM, Parola P. Microorganisms associated with hedgehog arthropods. *Parasit Vectors.* 2023;16(1):211.
16. Sow D, Sylla K, Dieng NM, Senghor B, Gaye PM, Fall CB, Goumballa N, Diallo A, Ndiaye JLA, Parola P, Sokhna C, Doucouré S, Faye B. Molecular diagnosis of urogenital schistosomiasis in pre-school children, school-aged children and women of reproductive age at community level in central Senegal. *Parasit Vectors.* 2023;16(1):43.
17. Diarra AZ, Kelly P, Davoust B, Parola P. Tick-Borne Diseases of Humans and Animals in West Africa. *Pathogens.* 2023;12:1276.
18. Ndiaye EHI, Diarra AZ, Diouf FS, Bouganali C, Almeras L, Sokhna C, Diatta G, Parola P. *Ornithodoros sonrai* Soft Ticks and Associated Bacteria in Senegal. *Pathogens.* 2023;12(9):1078.
19. Hasnaoui B, Bérenger JM, Delaunay P, Diarra AZ, Ndiaye EHI, M'madi SA, Masotti N, Sevestre J, Parola P. Survey of bed bug infestations in homeless shelters in southern France. *Sci Rep.* 2023;13(1):12557.
20. Ngindji-Youdje Y, Diarra AZ, Lontsi-Demano M, Berenger JM, Tchuinkam T, Parola P. MALDI-TOF MS identification of cattle ticks from Cameroon. *Ticks Tick Borne Dis.* 2023;14(3):102159.
21. Beudet H, L'Ollivier C, Bouabdallah R, Campana F, Bagonchy A, Lepidi H, Parola P, Cassir N. Co-occurrence of mucosal leishmaniasis caused by *Leishmania infantum* and mucosal-associated lymphoid tissue lymphoma. *Travel Med Infect Dis.* 2023;52:102519.
22. Goumballa N, Sambou M, Samba DF, Bassene H, Bedotto M, Aidara A, Dieng M, Hoang VT, Parola P, Sokhna C, Gautret P. PCR investigation of infections in patients consulting at a healthcare centre over a four-year period during the Grand Magal of Touba. *Travel Med Infect Dis.* 2023;52:102515.
23. Hoang VT, Dao TL, Ly TDA, Drali T, Yezli S, Parola P, Pommier de Santi V, Gautret P. Respiratory pathogens among ill pilgrims and the potential benefit of using point-of-care rapid molecular diagnostic tools during the Hajj. *Acta Microbiol Immunol Hung.* 2022 Nov 11;69(4):283-289. doi: 10.1556/030.2022.01895. PMID: 36370366.
24. Abdullah HHAM, Aboelsoued D, Farag TK, Abdel-Shafy S, Abdel Megeed KN, Parola P, Raoult D, Mediannikov O. Molecular characterization of some equine vector-borne diseases and associated arthropods in Egypt. *Acta Trop.* 2022;227:106274.

25. Ouarti B, Mbognign Fonkou DM, Houhamdi L, Mediannikov O, Parola P. Lice and lice-borne diseases in humans in Africa: A narrative review. *Acta Trop.* 2023 Jan;237:106709. doi: 10.1016/j.actatropica.2022.106709. Epub 2022 Oct 2. PMID:36198330.
26. Bottieau E, Van Duffel L, El Safi S, Koirala KD, Khanal B, Rijal S, Bhattacharai NR, Phe T, Lim K, Mukendi D, Kalo JL, Lutumba P, Barbé B, Jacobs J, Van Esbroeck M, Foqué N, Tsoumanis A, Parola P, Yansouni CP, Boelaert M, Verdonck K, Chappuis F. Etiological spectrum of persistent fever in the tropics and predictors of ubiquitous infections: a prospective four-country study with pooled analysis. *BMC Med.* 2022;20:144.
27. Aouadi N, Benkacimi L, Zan Diarra A, Laroche M, Bérenger JM, Bitam I, Parola P. Microorganisms associated with the North African hedgehog *Atelerix algirus* and its parasitizing arthropods in Algeria. *Comp Immunol Microbiol Infect Dis.* 2022;80:101726.
28. Cassir N, Cardona F, Tissot-Dupont H, Bruel C, Doudier B, Lahouel S, Bendamardji K, Boschi C, Aherfi S, Edouard S, Lagier JC, Colson P, Gautret P, Fournier PE, Parola P, Brouqui P, La-Scola B, Million M. Observational Cohort Study of Evolving Epidemiologic, Clinical, and Virologic Features of Monkeypox in Southern France. *Emerg Infect Dis.* 2022;28:2409-2415.
29. Colson P, Fournier PE, Chaudet H, Delerce J, Giraud-Gatineau A, Houhamdi L, Andrieu C, Brechard L, Bedotto M, Prudent E, Gazin C, Beye M, Burel E, Dudouet P, Tissot-Dupont H, Gautret P, Lagier JC, Million M, Brouqui P, Parola P, Fenollar F, Drancourt M, La Scola B, Levasseur A, Raoult D. Analysis of SARS-CoV-2 Variants From 24,181 Patients Exemplifies the Role of Globalization and Zoonosis in Pandemics. *Front Microbiol.* 2022;12:786233.
30. Thiam F, Fall CB, Gaye PM, Senghor B, Diamanka A, Wotodjo AN, Abotsi K, Parola P, Faye B, Sokhna C, Sow D, Doucouré S. Study of the behavior of snails intermediate hosts of *Schistosoma* spp. under different maintenance conditions and their resistance to salinity in an african laboratory environment. *Heliyon.* 2022;8(8):e10289. doi:10.1016/j.heliyon.2022.e10289.
31. Huynh LN, Tran LB, Nguyen HS, Ho VH, Parola P, Nguyen XQ. Mosquitoes and Mosquito-Borne Diseases in Vietnam. *Insects.* 2022 Nov 22;13(12):1076. doi:10.3390/insects13121076. PMID: 36554986; PMCID: PMC9781666.
32. Nebbak A, Almeras L, Parola P, Bitam I. Mosquito Vectors (Diptera: Culicidae) and Mosquito-Borne Diseases in North Africa. *Insects.* 2022;13(10):962.
33. Bouchaib H, Amrane A, Sevestre J, Bitam I, Parola P. Mediterranean spotted fever and peripheral facial nerve palsy: a rare neurological complication. *Int J Infect Dis.* 2022;117:15-17.
34. Jumpertz M, Guilhaumou R, Million M, Parola P, Lagier JC, Brouqui P, Cassir N. Subcutaneously administered antibiotics: a review. *J Antimicrob Chemother.* 2022 Nov 14:dkac383. doi: 10.1093/jac/dkac383. Epub ahead of print. PMID: 36374566.
35. Ndiaye EHI, Diatta G, Diarra AZ, Berenger JM, Bassene H, Mediannikov O, Bouganali C, Sokhna C, Parola P. Morphological, Molecular and MALDI-TOF MS Identification of Bedbugs and Associated Wolbachia Species in Rural Senegal. *J Med Entomol.* 2022;59(3):1019-1032.
36. Mulatero M, Boucekine M, Felician O, Boussen S, Kaplanski G, Rossi P, Parola P, Stein A, Brouqui P, Lagier JC, Leone M, Kaphan E. Herpetic encephalitis: which treatment for which body weight? *J Neurol.* 2022 Jul;269(7):3625-3635.
37. Ahamada M'madi S, Diarra AZ, Almeras L, Parola P. Identification of ticks from an old collection by MALDI-TOF MS. *J Proteomics.* 2022;264:104623.
38. Hamili FZ, Laroche M, Diarra AZ, Lafri I, Gassen B, Bouteftna B, Davoust B, Bitam I, Parola P. MALDI-TOF MS Identification of Dromedary Camel Ticks and Detection of Associated Microorganisms, Southern Algeria. *Microorganisms.* 2022 Nov 3;10:2178.
39. Ouarti B, Sall M, Ndiaye EHI, Diatta G, Zan Diarra A, Berenger JM, Sokhna C, Granjon L, Le Fur J, Parola P. Pathogen Detection in <i>Ornithodoros sonrai</i> Ticks and Invasive House Mice <i>Mus musculus domesticus</i> in Senegal. *Microorganisms.* 2022 Nov 30;10(12):2367. doi: 10.3390/microorganisms10122367. PMID: 36557620; PMCID: PMC9786131.
40. Huguenin A, Pesson B, Kaltenbach ML, Diarra AZ, Parola P, Depaquit J, Randrianambintsoa FJ. MALDI-TOF MS Limits for the Identification of Mediterranean Sandflies of the Subgenus Larroussius, with a Special Focus on the "Phlebotomus perniciosus" Complex. *Microorganisms.* 2022 Oct 28;10:2135.
41. Ngindji-Youdje Y, Diarra AZ, Lontsi-Demano M, Tchuinkam T, Parola P. Detection of Tick-Borne Pathogens in Ticks from Cattle in Western Highlands of Cameroon. *Microorganisms.* 2022 Sep 30;10:1957.
42. Colson P, Parola P, Raoult D. The emergence, dynamics and significance of SARS-CoV-2 variants. *New Microbes New Infect.* 2022;45:100962.
43. Sokhna C, Brah S, Djimde A, Mouffok N, Zahraoui M, Ould Mohamed Salem Boukhary A, Bitam I, Cisse B, Thera MA, Lekana-Douki JB, Adehossi E, Seydi M, Akiana J, Heikel J, Lagier JC, Mboup S, Mouyembe-Tamfum JJ, Parola P. COVID-19 in Africa: What else? *New Microbes New Infect.* 2022;47:100982
44. Bamou R, Costa MM, Diarra AZ, Martins AJ, Parola P, Almeras L. Enhanced procedures for mosquito identification by MALDI-TOF MS. *Parasit Vectors.* 2022;15(1):240. doi: 10.1186/s13071-022-05361-0.
45. Huynh LN, Diarra AZ, Nguyen HS, Tran LB, Do VN, Ly TDA, Ho VH, Nguyen XQ, Parola P. MALDI-TOF mass spectrometry identification of mosquitoes collected in Vietnam. *Parasit Vectors.* 2022;15(1):39.
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48. Benyahia H, Diarra AZ, Gherissi DE, Bérenger JM, Benakhla A, Parola P. Molecular and MALDI-TOF MS characterisation of Hyalomma aegyptium ticks collected from turtles and their associated microorganisms in Algeria. *Ticks Tick Borne Dis.* 2022;13:101858.
49. Goumballa N, Hoang VT, Diouf FS, Mbaye B, Parola P, Sokhna C, Gautret P. Risk factors for symptoms of infection and the acquisition of pathogens among pilgrims at the Grand Magal of Touba, 2017-2021. *Travel Med Infect Dis.* 2022 Sep-Oct;49:102418. doi: 10.1016/j.tmaid.2022.102418.
50. Abdullah HHAM, Aboelsoued D, Farag TK, Abdel-Shafy S, Abdel Megeed KN, Parola P, Raoult D, Mediannikov O. Molecular characterization of some equine vector-borne diseases and associated arthropods in Egypt. *Acta Trop.* 2021;227:106274.
51. Fall FK, Laroche M, Bossin H, Musso D, Parola P. Performance of MALDI-TOF Mass Spectrometry to Determine the Sex of Mosquitoes and Identify Specific Colonies from French Polynesia. *Am J Trop Med Hyg.* 2021;104(5):1907-1916.
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53. Wotodjo AN, Doucoure S, Diagne N, Sarr FD, Parola P, Gaudart J, Sokhna C. The Impact of Renewing Long-Lasting Insecticide-Treated Nets in the Event of Malaria Resurgence: Lessons from 10 Years of Net Use in Dielmo, Senegal. *Am J Trop Med Hyg.* 2021;104(1):255-262.
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57. Aouadi N, Benkacimi L, Zan Diarra A, Laroche M, Bérenger JM, Bitam I, Parola P. Microorganisms associated with the North African hedgehog Atelerix algirus and its parasitizing arthropods in Algeria. *Comp Immunol Microbiol Infect Dis.* 2022;J;80:101726.
58. Ouarti B, Mediannikov O, Righi S, Benakhla A, Raoult D, Parola P. Molecular detection of microorganisms in lice collected from farm animals in Northeastern Algeria. *Comp Immunol Microbiol Infect Dis.* 2021 Feb;74:101569. doi:10.1016/j.cimid.2020.101569.
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