

Jean-Marc SABATIER

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Qualified : DOCTOR IN BIOCHEMISTRY
 HABILITATION A DIRIGER DES RECHERCHES (HDR)

Expertise :

- *Drug design and synthesis (peptides and related compounds) ;*
- *Optimization of peptide structure/conformation (to improve bioactivity, selectivity, solubility, and/or stability) ;*
- *Peptide and protein engineering ;*
- *Development of peptide-based in vitro assays (diagnostic tests, etc.) ;*
- *Toxinology ;*
- *Evaluation of research projects.*

Achievements :

2023-24 Research Fellow at the INTI International University (Malaysia).

2012 Award of the best scientific advance, *XVIIème Rencontres Transfrontalières Capteurs et Biocapteurs*, Tarragona (Spain), 2012.

2003 Award of best communication, 5ème Colloque de l'Institut Fédératif Jean Roche de Biologie des Interactions Cellulaires, France.

1998-06 Four « Prix de Thèse » for my Ph.D students, Université de la Méditerranée.

1996 Achievement Award (ABI, Raleigh, US).

1995 International Man of the Year Award (IBC, Cambridge, UK).

Neosystem Award for the most distinguished work on structure-activity relationship studies of peptides, 9th Peptides & Proteins Meeting, Aussois (France).

1993 Citizen of the Year Award (Nouvel Economiste, France) for the design and chemical synthesis of SPC3, a multibranched peptide construction with anti-HIV activity.

Professional membership :

2006-2012 President of one of the seven societies (Venom Peptide Group) constituting The International Neuropeptide Society.

1989-present The International Neuropeptide Society; The New-York Academy of Sciences; American Society for Microbiology; American Peptide Society (charter member); American Society for Biochemistry and Molecular Biology (on behalf of the editor of J. Biol. Chem.); Biochemical Society (on behalf of the editor of The Biochemical Journal); Federation of American Societies for Experimental Biology; European

Peptide Society; International Society on Toxinology; Société Française des Peptides et des Protéines; Société Française de Biochimie et Biologie Moléculaire; Société Française de Microbiologie; Groupement d'étude des polypeptides actifs; Association pour la Promotion de la Recherche en Interactions Cellulaires.

Detailed scientific publications :**- EDITION OF BOOKS & SPECIAL ISSUES**
(published = 36)

Guest Editor of a special issue (2023) of the journal « *Frontiers in Pharmacology* » titled « Reviews in pharmacology of ion channels and channelopathies 2023 » (Frontiers media).

Guest Editor of a special issue (2023) of the journal « *Molecules* » titled « Medicinal Chemistry in Europe IV » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2022) of the journal « *Frontiers in Pharmacology* » titled « Structure and functional venomomics as a powerful approach for drug discovery and development » (Frontiers media).

Guest Editor of a special issue (2022) of the journal « *Antibiotics* » titled « Reviews on antimicrobial peptides » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2022) of the journal « *Molecules* » titled « Bioactive molecules in SARS-CoV-2 infection and Covid-19 » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2021) of the journal « *Antibiotics* » titled « 10th anniversary of *Antibiotics* – Recent advances in antimicrobial peptides » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2021) of the journal « *Frontiers in Pharmacology* » titled « Venoms, animal and microbial toxins, volume II » (Frontiers media).

Guest Editor of a special issue (2021) of the journal « *Molecules* » titled « Medicinal Chemistry in Europe III » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2021) of the journal « *Marine Drugs* » titled « Ion channels as marine drug targets 2021 » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2021) of the journal « *Sci* » titled « Natural extracts and bioactive derivatives: strategies for biopharmaceutical uses » (MDPI - Open Access Publishing).

Guest Editor of a special issue (2020) of the journal « *Frontiers in Pharmacology* » titled « Venoms, animal and microbial toxins » (Frontiers media).

Guest Editor of a special issue (2020) of the journal « *Antibiotics* » devoted to the peptide antibiotics from microbes and venomous animals (MDPI - Open Access Publishing).

Guest Editor of a special issue (2020) of the journal « *Marine Drugs* » devoted to the ion channels as marine drug targets (MDPI - Open Access Publishing).

Guest Editor of a special issue (2019) of the « *Journal of Unexplored Medical Data* » devoted to the animal venom compounds and their derivatives as candidate therapeutic drugs (OAE Publishing Inc.).

Guest Editor of a special issue (2019) of the journal « *Antibiotics* » devoted to the antibacterial peptides (MDPI - Open Access Publishing).

Guest Editor of a special issue (2019) of the journal « *Molecules* » devoted to the natural toxins/molecules (and derivatives) from animal venoms: from basic research to therapeutic applications (MDPI - Open Access Publishing).

Guest Editor of a special issue (Volume 23, 2018) of the journal « *Molecules* » devoted to the natural toxins/molecules (and derivatives) from animal venoms: from basic research to therapeutic applications (MDPI - Open Access Publishing).

Guest Editor of a special issue (Volume 22, 2017) of the journal « *Molecules* » devoted to the structure-activity relationship of natural products (MDPI - Open Access Publishing).

Guest Editor of a special issue (Volume 9, 2009) of the U.S. journal « *Infectious Disorders - Drug Targets* » devoted to drug targets in viral infections (Bentham Science Publishers).

Guest Editor of two special issues (2009 & 2010) of the journal « *Molecules* » devoted to Toxins - Organic and Analytical Chemistry (MDPI - Open Access Publishing).

Guest Editor of a special issue (2009) of the journal « *Toxins* » devoted to Animal Venoms (MDPI - Open Access Publishing).

Guest Editor of a special issue (2011) of the journal « *Inflammation and Allergy - Drug Targets* » entitled « *Immunological responses to animal venom toxins and their potential value in therapy* » (Bentham Science Publishers).

Guest Editor of a special issue (2014) of the journal « *Toxins* » devoted to Ion Channel Neurotoxins (MDPI - Open Access Publishing).

Guest Editor of a special issue « *Ion Channels as Marine Drug Targets* ».
Book of *Marine Drugs*, MDPI Publisher (2020).

Guest Editor of a special issue « *Ion Channels as Marine Drug Targets* ».
Special issue of *Marine Drugs*, MDPI Publisher (2018-19).

Guest Editor of a special issue « *Natural toxins/molecules (and derivatives) from animal venoms: from basic research to therapeutic applications* ».
Special issue of *Molecules*, MDPI Publisher (2019).

Guest Editor of a special issue « *Natural toxins/molecules (and derivatives) from animal venoms: from basic research to therapeutic application* »s.
Special issue of *Molecules*, MDPI Publisher (2018).

Guest Editor of a special issue « *Structure-Activity Relationship of Natural Products* ».
Special issue of *Molecules*, MDPI Publisher (2017).

Guest Editor of a special issue « *Ion Channel Neurotoxins* ».
Special issue of *Toxins*, MDPI Publisher (2014).

Guest Editor of a special issue « *Animal Venom Toxins and their Therapeutic Applications* ».
Special issue of *Inflammation and Allergy – Drug Targets*, Bentham Science Publishers (2011).

Guest Editor of a special issue « *Drug Targets in Viral Infections* ».
Special issue of *Infectious Disorders - Drug Targets*, Bentham Science Publishers (2009).

Guest Editor of a special issue « *Animal Venoms* ».
Special issue of *Toxins*, MDPI Publisher (2009).

Section Editor for book sections on venom peptides: « *Handbook of Biologically-Active Peptides* ».
1st and 2nd Editions, Elsevier Publishers (2006 & 2012).

Editor of a book « *Animal Toxins and Potassium Channels* ».
Perspectives in Drug Discovery and Design, Vols. 15/16, Kluwer Academic Publishers (1999).

Editor of a book « *HIV Infection in CD4⁺ cells* ».
Perspectives in Drug Discovery and design, Vol. 5, Escom Science Publishers (1996).

- BOOK CHAPTERS
(published = 4)

Animal Toxins in the World of Modern Biotechnologies.
Sabatier, J.-M., De Waard, M., « *Handbook of Biologically-Active Peptides*», 2nd Edition, Kastin A. Ed., Elsevier Publishers (2012).

Structure-Function Strategies to Improve the Pharmacological Value of Animal Toxins.

De Waard, M., Sabatier, J.-M., « *Handbook of Biologically-Active Peptides* », Kastin A. Ed., Elsevier Publishers (2006).

Methodological Approaches to the Study of Ion Channels using Peptide Toxins : Proposed Comprehensive Guidelines.

De Waard, M., Sabatier, J.-M., Rochat, H., « *Perspectives in Molecular Toxinology* », Ménez A. Ed., John Wiley & Sons Ltd., pp 255-269 (2002).

Chemical Synthesis and Characterization of Small Proteins: Example of Scorpion Toxins.

Sabatier, J.-M., *Handbook of Toxinology, "Animal Toxins: Tools in Cell Biology"*, Chapman & Hall, Birkhäuser Verlag Basel/Switzerland, pp 196-216 (2000).

- ARTICLES: specialised journals
(published = 256)

24-1 The possible role of nuclear factor erythroid-2-related factor 2 activators in the management of Covid-19.

Al-Kuraishy, H.M., Al-Gareeb, A.I., Eldahshan, O.A., Abdelkhalek, Y.M., Eldahshan, M., Ahmed, E.A., Sabatier, J.-M., El-Saber Bathila, G., *Journal of Biochemical and Molecular Toxicology* (2023). Doi: 10.1002/jbt.23605

24-2 The unsuspected role of the renin-angiotensin system (RAS): could its dysregulation be at the root of all non-genetic human diseases?

Fajloun, Z., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/1871526524666230914524

24-3 Treating COVID-19 with medicinal plants: is it even conceivable? A comprehensive review.

Al-Jamal, H., Idriss, S., Roufayel, R., Abi Khattar, Z., Fajloun, Z., Sabatier, J.-M., *Viruses*, 16(3), 320 (2024). Doi: 10.3390/v16030320

24-4 The intriguing connection between cholestasis and the renin-angiotensin system dysregulation induced by SARS-CoV-2 and/or the vaccinal spike protein.

Fajloun, Z., Khattar, Z.A., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 102174/0118715265304515240220105152

24-5 Vitamin D and mitochondrial activity preservation in COVID-19.

Giacomoni, J., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/0118715265304580240405064250

24-6 Structural and functional venomics as a powerful approach for drug discovery and development.

Abdel-Rahman, M.A., Cao, Z., Abd El-Aziz, Styrong, P.N., Sabatier, J.-M., *Frontiers in Pharmacology* (2024). Doi: 10.3389/fphar.2024.1405681

24-7 Renin-angiotensin system dysregulation: ADAM17 activation consequences related to SARS-CoV-2.

Giacomoni, J., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/0118715265299597240422102455

24-8 Neuroarchitecture: how the perception of our surroundings impacts the brain.

Abbas, S., Okdeh, N., Roufayel, R., Kovacic, H., Sabatier, J.-M., Fajloun, Z., Abi Khattar, Z., *Biology*, **13**(4), 220 (2024). Doi: 10.3390/biology13040220

24-9 SARS-CoV-2 or vaccinal spike protein can induce mast cell activation syndrome (MCAS).

Fajloun, Z., Khattar, Z.A., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/0118715265319896240427045026

24-10 Unlocking the benefits of fasting: a review of its impact on various biological systems and human health.

Mackieh, R., Al-Bakkar, N., Kfoury, M., Okdeh, N., Pietra, H., Roufayel, R., Legros, C., Fajloun, Z., Sabatier, J.-M., *Current Medicinal Chemistry* (2023). Doi: 10.2174/0109298673275492231121062033

24-11 Molecular mechanisms of bacterial resistance to antimicrobial peptides in the modern era: an updated review.

Tajer, L., Paillart, J.-C., Dib, H., Sabatier, J.-M., Fajloun, Z., Abi Khattar, Z., *Microorganisms*, **12**(7), 1259 (2024). Doi: 10.3390/microorganisms12071259

24-12 Unveiling the role of SARS-CoV-2 or mRNA vaccine spike protein in macrophage activation syndrome (MAS).

Fajloun, Z., Tajer, L., Khattar, Z.A., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/0118715265341206240722050403

24-13 Structural and functional venomomics as a powerful approach for drug discovery and development.

Zhang, J., Sabatier, J.-M., Chahine, M., Tricarico, D., *Frontiers in Pharmacology* **15**, 1449967 (2024). Doi: 10.3389/fphar.2024.1449967

24-14 Effect of *Apis mellifera syriaca* bee venom on glioblastoma cancer: in vitro and in vivo studies.

Chala, C., Rima, M., Mouawad, C., Roufayel, R., Kovacic, H., El Obeid, D., Sabatier, J.-M., Luis, J., Fajloun, Z., El-Waly, B., *Molecules*, **29**, 3950 (2024). Doi: 10.3390/molecules29163950

24-15 From endogenous quasi-pathogens to endogenous smart medicine: understanding the cellular mechanisms and implications of benign and malignant cell dynamics.

Sabatier, J.-M., Amini, F., *Biophysica*, **4**, 453-465 (2024). Doi: 10.3390/biophysica4030029

24-16 The relationship between SARS-CoV-2, vaccine spike protein, renin-angiotensin system and epilepsy.

Fajloun, Z., Tajer, L., Kovacic, H., Sabatier, J.-M., *Infectious Disorders-Drug Targets* (2024). Doi: 10.2174/0118715265350339240919053408

24-17 Plant metabolomics: the future of anticancer drug discovery.

Dabbousy, R., Rima, M., Roufayel, R., Rahal, M., Legros, C., Sabatier, J.-M., Fajloun, Z., *Pharmaceuticals* **17**(10), 1307-1333 (2024). Doi: 10.3390/ph17101307

23-1 Phytochemical constituents, folk medicinal uses, and biological activities of genus *Angelica*: a review.

El-Saber Bathila, G., Shaheen, H.M., Elhawary, E.A., Mostafa, N.M., Eldahshan, O.A., Sabatier, J.-M., *Molecules*, **28**, 267 (2023). Doi: 10.3390/molecules28010267

23-2 COVID-19 and Ehlers-Danlos syndrome: the dangers of the Spike protein of SARS-CoV-2.

Fajloun, Z., Legros, C., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230104145108

23-3 Why can high-level athletes develop very severe or fatal forms after intense exercise following SARS-CoV-2 infection or anti-Covid vaccination?

Fajloun, Z., Khattar, Z.A., Kovacic, H., Legros, C., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230111104355

23-4 Isolation and molecular characterization of *Corynebacterium pseudotuberculosis*: association with proinflammatory cytokines in caseous lymphadenitis pyogranulomas.

Torky, H.A., Saad, H.M., Khaliel S.A., Kassih, A.T., Sabatier, J.-M., El-Saber Bathila, G., Hetta, H.F., Elghazaly, E.M., De Waard, M., *Animals*, 13(2), 296 (2023). Doi: 10.3390/ani13020296

23-5 Emergence of gloomy eyelet inside DNA.

Sabatier, J.-M., Amini, F., *Biophysica*, 3, 35-45 (2023). Doi: 10.3390/biophysica3010003

23-6 Identifying the geographic distribution pattern of venomous reptiles and regions of high snakebite risk in Iran.

Kazemi, S.M., Hosseinzadeh, M.S., Sabatier, J.-M., *Animals* (2023). In press.

23-7 Protective role and functional engineering of neuropeptides in depression and anxiety: an overview.

Okdeh, N., Mahfouz, G., Harb, J., Sabatier, J.-M., Roufayel, R., Hanna, E.G., Kovacic, H., Fajloun, Z., *Bioengineering*, 10(2), 258 (2023). Doi: 10.3390/bioengineering10020258

23-8 Overexpression of a novel *Noxo1* mutant increases *Ros* production and *Noxo1* relocalisation.

Benssouina, F.Z., Parat, F., Villard, C., Leloup, L., Garrouste, F., Sabatier, J.-M., Ferhat, L., Kovacic, H., *Int. J. Mol. Sci.*, 24(5), 4663 (2023). Doi: 10.3390/ijms24054663

23-9 SIBO: the trail of a new human pathology associated with multiple severe and disabling Covid-19 and long Covid symptoms or induced by the anti-Covid-19 vaccine.

Fajloun, Z., Khattar, Z.A., Kovacic, H., Legros, C., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230210162334

23-10 Understanding and relieving of neuropathic disorders in the long Covid.

Fajloun, Z., Khattar, Z.A., Kovacic, H., Legros, C., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230227113205

23-11 Anti-Covid-19 vaccination, Covid-19, and female contraception: the exacerbated risk (thromboembolism) of the estrogen-progestin pill.

Fajloun, Z., Khattar, Z.A., Kovacic, H., Legros, C., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230224094439

23-12 Inhibitors of ATP synthase as new antibacterial candidates.

- Mackieh, R., Al-Bakkar, N., Kfoury, M., Roufayel, R., Sabatier, J.-M., Fajloun, Z., *Antibiotics*, 12, 650 (2023).
Doi: 10.3390/antibiotics12040650
- 23-13 *Inhibition mechanism of methicillin-resistant Staphylococcus aureus by zinc oxide nanorods via suppresses penicillin-binding protein 2a.***
Hassan, A., Al-Salmi, F.A., Saleh, M.A., Sabatier, J.-M., Alatawi, F.A., Alenezi, M.A., Albalwe, F.M., Albalawi, H.M., Darwish, D.B., Sharaf, E.M., *ACS Omega*, 8(11), 9969-9977 (2023). Doi: 10.1021/acsomega.2c07142
- 23-14 *Oxidative stress-induced hormonal disruption in male reproductive organ.***
Rotimi, D., Acho, M.A., Falana, B.M., Olaolu, T.D., Mgbojikwe, I., Althumairy, D., El-Saber Bathila, G., Adeyemi, O., Sabatier, J.-M., De Waard, M., *Frontiers in Endocrinology*, in press (2023).
- 23-15 *Long COVID and risk of erectile dysfunction in recovered patients from mild to moderate COVID-19.***
Al-Kuraishy, H.M., Al-Gareeb, A.I., Alarfaj, S.J., Al-Akeel, R.K., Faidah, H., El-Bouseary, M.M., Sabatier, J.-M., De Waard, M., El-Masry, T.A., El-Saber Bathila, G., *Scientific Reports*, 13(1), 5977 (2023). Doi: 10.1038/s41598-023-32211-5
- 23-16 *COVID-19 and Alzheimer's disease: the link finally established.***
Fajloun, Z., Wu, Y., Cao, Z., Kovacic, H., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230529162633
- 23-17 *COVID-19 and Parkinson's disease: the link also established!***
Fajloun, Z., Wu, Y., Cao, Z., Kovacic, H., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230619104142
- 23-18 *COVID-19 and anti-Covid-19 vaccination: potential damages to the thyroid gland.***
Fajloun, Z., Abi Khattar, Z., Kovacic, H., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, (2023). Doi: 10.2174/1871526523666230509112038
- 23-19 *Toxicity of SARS-CoV-2 Spike protein from the virus and produced from COVID-19 mRNA or adenoviral DNA vaccines.***
Lesgards, J.-F., Cerdan, D., Perronne, C., Sabatier, J.-M., Azalbert, X., Rodgers, E.A., McCullough, P.A., *Archives of Microbiology and Immunology*, 7(3), 121-138 (2023).
- 22-1 *The relationship between COVID-19 viral load and disease severity: a systematic review.***
Dadras, O., Afsahi, A.M., Pashaei, Z., Mojdeganlou, H., Karimi, A., Habibi, P., Barezegary, A., Fakhfoury, A., Mirzapour, P., Janfaza, N., Dehghani, S., Afroughi, F., Dashti, M., Khodaei, S., Mehraeen, E., Voltarelli, F., Mehrtak, M., Mohssenipour, M. Moradmand-Badie, B., Heydari, M., Sabatier, J.-M., Alinaghi, S.A., *Immunity, Inflammation and Disease*, 10(3):e580 (2022). Doi: 10.1002/iid3.580
- 22-2 *Impact of COVID-19 pandemic on routine vaccination coverage of children and adolescents: a systematic review.***

Alinaghi, S.A., Karimi, A., Mojdeganlou, H., Alilou, S., Mirghaderi, S.P., Noori, T., Shamsabadi, A., Dadras, O., Vahedi, F., Mohammadi, P., Shojaei, A., Mahdiabadi, S., Janfaza, N., Lonbar, A.K., Mehraeen, E., Sabatier, J.-M., *Health Science Reports* 5(2): e00516 (2022). Doi: 10.1002/hsr.2.516

22-3 Angiotensin II Type I receptor (AT1R): the gate towards COVID-19-associated diseases.

El-Arif, G., Khazaal, S., Farhat, A., Harb, J., Annweiler, C., Wu, Y., Cao, Z., Kovacic, H., Abi Khattar, Z., Fajloun, Z., Sabatier, J.-M., *Molecules*, 27(7), 2048 (2022). Doi: 10.3390/molecules27072048

22-4 Discovery of Leptulipin, a new anticancer protein from the Iranian scorpion, Hemiscorpius lepturus.

Rezaei, A., Asgari, S., Komijani, S., Sadat, S.N., Sabatier, J.-M., Bagheri, K.P., Shahbazzadeh, D., Akbari Eidgahi, M.R., De Waard, M., Mirzahoseini, H., *Molecules*, 27(7), 2056 (2022). Doi: 10.3390/molecules27072056

22-5 Parkinson disease: protective role and function of neuropeptides.

Tabikh, M., Chahla, C., Okdeh, N., Kovacic, H., Sabatier, J.-M., Fajloun, Z., *Peptides*, 151 :170713 (2022). Doi : 10.1016/j.peptides.2021.170713

22-6 SARS-CoV-2-induced neurological disorders in symptomatic Covid-19 and long Covid patients: key role of brain renin-angiotensin system.

Fajloun, Z., Kovacic, H., Annweiler, C., Wu, Y, Cao, Z., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, 22(5), 3-5 (2022). Doi: 10.2174/1871526522666220406124618.

22-7 The pathophysiology of long COVID throughout the renin-angiotensin system.

Khazaal, S., Harb, J., Rima, M., Annweiler, C., Wu, Y., Cao, Z., Abi Khattar, Z., Legros, C., Kovacic, H., Fajloun, Z., Sabatier, J.-M., *Molecules*, 27(9), 2903 (2022). Doi: 10.3390/molecules27092903

22-8 Current treatments and therapeutic options for COVID-19 patients: a systematic review.

Mehraeen, E., Najafi, Z., Hayati, B., Javaherian, M., Rahimi, S., Dadras, O., Alinaghi, S.A., Ghadimi, M., Sabatier, J.-M., *Infectious Disorders-Drug Targets*, 22(1):e260721194968 (2022). Doi: 10.2174/187152652166621072650435

22-9 DAMPening severe Covid-19 with Dexamethasone.

Annweiler, C., Papon, N., Sabatier, J.M., Barré, J. *Infectious Disorders-Drug Targets*, 22(2):e270821195910, (2022). Doi: 10.2174/1871526521999210827142839

22-10 Vaccines for COVID-19: a review of feasibility and effectiveness.

Mehraeen, E., Dadras, O., Afsahi, A.M., Karimi, A., Mohssenipour, M., Mirzapour, P., Barzegari, A., Behnezhad, F., Habibi, P., Salehi, M.A., Vahedi, F., Heydari, M., Kianzad, S., Moradmand-Badie, B., Javaherian, M., SeyedAlinaghi, S., Sabatier, J.M. *Infectious Disorders-Drug Targets*, 22(2):e230921196758, (2022). Doi: 10.2174/1871526521666210923144837

22-11 Shared food, meals and drinks: 10 arguments suggesting an oral transmission route of SARS-CoV-2.

Wendling, J.-M., Saulnier, A., Sabatier, J.M., *Infectious Disorders-Drug Targets*, 22(2):e160721194830, (2022). Doi: 10.2174/1871526521666210716110603

22-12 **Counter-regulatory renin-angiotensin system: an important line of research to understand and limit the severity of COVID-19.**

Annweiler, C., Cao, Z., Papon, N., Kovacic, H., Sabatier, J.M. *Infectious Disorders-Drug Targets*, 22(2):e100921196331, (2022). Doi: 10.2174/1871526521666210910063227

22-13 **Neuro- and cardiovascular activities of Montivipera bornmuelleri snake venom.**

Sahyoun, C., Krezel, W., Mattei, C., Sabatier, J.-M., Legros, C., Fajloun, Z., Rima, M., *Biology*, 11(6), 888 (2022). Doi: 10.3390/biology11060888

22-14 **Structural dynamics of the SARS-CoV-2 spike protein: a 2-year retrospective analysis of SARS-CoV-2 variants (from alpha to omicron) reveals an early divergence between conserved and variable epitopes.**

Guérin, P., Yahy, N., Azzaz, F., Chahinian, H., Sabatier, J.-M., Fantini, J., *Molecules*, 27(12), 3851 (2022). Doi : 10.3390/molecules27123851

22-15 **Fast killing kinetics, significant therapeutic index, and high stability of melittin-derived antimicrobial peptide.**

Akbari, R., Hakemi-Vala, M., Sabatier, J.-M., Pooshang-Bagheri, K., *Amino acids*, 54(9), 1275-1285 (2022). Doi : 10.1007/s00726-022-03180-2

22-16 **Editorial: Venoms, animal and microbial toxins, Volume II.**

Cao, Z., Shahbazzadeh, D., Kovacic, H., McNutt, P.M., Wang, J.-L., Wulff, H., Utkin, Y.N., Sabatier, J.-M., *Frontiers in Pharmacology*, 13:973628 (2022). Doi: 10.3389/fphar.2022.973628

22-17 **Separation and analytical techniques used in snake venomics: a review article.**

Sahyoun, C., Rima, M., Mattei, C., Sabatier, J.-M., Fajloun, Z., Legros, C., *Processes*, 10(7), 1380 (2022). Doi: 10.3390/pr10071380

22-18 **SARS-CoV-2, Covid-19, and reproduction: effects on fertility, pregnancy, and neonatal life.**

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