

Smith B. Babiaka
Selected Publications

1. Simoben CV, **Babiaka SB**, Moumbock AFA, Namba-Nzanguim CT, Eni DB, Medina-Franco JL, Günther S, Ntie-Kang F, Sippl W. Challenges in natural product-based drug discovery assisted with in silico-based methods. **RSC Advances** **2023**, 13, 31578-31594. <https://doi.org/10.1039/D3RA06831E>.
2. **Babiaka SB***, Ekayen ED, Njmuh LD, Abuga KO. Bioactive Compounds and Biological Activities of Purple Nut Sedge (*Cyperus rotundus* L.). Springer Book Chapter" Reference Series in Phytochemistry. Bioactive Compounds in the Storage Organs of Plants: Bioactive Compounds and Biological Activities of Purple Nut Sedge (*Cyperus rotundus* L.). **Publisher Springer, 2023**, https://doi.org/10.1007/978-3-031-29006-0_36-1.
3. **Babiaka SB**, Onguéné PA, Bekono BD, Ntie-Kang F*. In silico and computational analysis of plant secondary metabolites from African medicinal plants. Book Chapter" in applications in plant biotechnology: Focus on plant secondary metabolism and plant molecular pharming, Science Publishers, an imprint of CRC PRESS, Boca Raton, Florida, USA. **[A Taylor & Francis Group Company], 2022**, Publisher: CRC Press.
4. **Babiaka SB***, Moumbock AFA, Günther S, Ntie-Kang F*. Natural products in *Cyperus rotundus* L. (Cyperaceae): an update of the chemistry and pharmacological activities. **RSC Advances**, **2021**, 11:15060-15077. <https://doi.org/10.1039/d1ra00478f>.
5. **Babiaka SB**, Simoben CV, Abuga KO, Mbah JA, Karpoomath R, Ongarora D, Mugo H, Monya E, Cho-Ngwa F, Sippl W, Loveridge EJ, and Ntie-Kang F. Alkaloids with anti-*Onchocerca* activity from *Voacanga africana* Staph (Apocynaceae): Identification and molecular modeling. **Molecules**, **2021**; 26:70. <https://dx.doi.org/10.3390/molecules26010070>.
6. **Babiaka SB**, Nia R, Abuga KO, Mbah JA, Nziko VDPN, Paper DH, and Ntie-Kang F. (2020): Antioxidant potential of flavonoid glycosides from *Manniophyton fulvum* (Euphorbiaceae): Identification and molecular modeling. **Scientific African**, **2020**; 8:e00423. <https://doi.org/10.1016/j.sciaf.2020.e00423>.
7. **Babiaka SB**, Ntie-Kang F, Lifongo LL, Ndingkokhar B, Mbah JA, Yong JN. The chemistry and bioactivity of Southern African flora I: a bioactivity versus ethnobotanical survey of alkaloid and terpenoid classes. **RSC Adv**, **2015**; 5:43242. <https://doi.org/10.1039/C5RA01912E>.
8. **Babiaka SB**, Ntie-Kang F, Ndingkokhar B, Mbah JA, Wolfgang Sippl, Yong JN. The chemistry and bioactivity of Southern African flora II: flavonoids, quinones and minor compound classes. **RSC Adv**, **2015**; 5:57704. <https://doi.org/10.1039/c5ra05524e>.
9. **Babiaka SB**, Mbah JA, Metuge JA, Cho-Ngwa F, Efange SMN. Isolation and characterization of filaricidal compounds from the stem bark of *Voacanga africana*, a plant used in the traditional treatment of onchocerciasis in Cameroon. **J Med Plants Res**, **2015**; 9:471-478. <https://doi.org/10.5897/JMPR2014.5791>.
10. Ntie-Kang F, Telukunta KK, Fobofou SAT, Osamor VC, Egieyeh SA, Valli M, Feunang YD, Sorokina M, Stork C, Mathai N, Zierep P, Hernández ALC, Frigola MD, **Babiaka SB**, Fouedjou RT, Eni DB, Akame S, Bawak ABA, Ebob OT, Metuge JA, Bekono BD, Isa MA, Onuku R, Shadrack DM, Musyoka TH, Patil VM, Hoofft JJJVD, Bolzani VDS, Medina-Franco JL, Kirchmair J, Weber T, Özlem TB, Medema MH, Wessjohann LAW, Ludwig-Müller J. Computational Applications in Secondary Metabolite Discovery (CAiSMD): an online workshop. **J Cheminform**, **2021**, 13:64. <https://doi.org/10.1186/s13321-021-00546-8>

11. Ebob OT, **Babiaka SB** and Ntie-Kang F. Natural products as potential lead compounds for drug discovery against SARS-CoV-2. **Natural Products and Bioprospecting**, **2021**, 11:611–628. <https://doi.org/10.1007/s13659-021-00317-w>.
12. Abongwa M, Samje M, Ayimele GA, **Babiaka SB**, Bulman C, Sakanari J, Koszewski NJ, Verma S, Goff J, Cho-Ngwa F, Martin RJ, and Robertson AP. Filaricidal activity of *Daniellia oliveri* and *Psorospermum febrifugum*. **Parasites & Vectors**, **2021**, 14:305. <https://doi.org/10.1186/s13071-021-04759-6>
13. Kletecka-Pulker M, Mondal H, Wang D, Parra RG, Maigoro AY, Lee S, Garg T, Mulholland EJ, Devkotai HP, Konwar B, Patnaik SS, Lordan R, Nawaz FA, Tsagkaris C, Rayan RA, Louka AM, Ronita De, Badhe P, Schaden E, Willschke H, Maleczek M, Boyina HK, Khalid GM, Uddin MS, Sanusi M, Khan J, Odimegwu JI, Yeung AWK, Akram F, Sai CS, Bucher S, Paswan SK, Singla RK, Shen B, Lonardo SD, Tosevska A, Simal-Gandara J, Zec M, González-Burgos E, Marija Habijanao, Battino M, Giampieri F, Cianciosi D, Forbes-Hernandez TY, Quiles JL, Mezzetti B, **Babiaka SB**, Ahmed MEO, Piccard P, Urquiza MS, Depew JR, Schultz F, Sur D, Pai SR, Găman MA, Cenanovic M, Tzvetkov NT, Kharat KR, Garcia-Sosa AT, Sieber S, Tikhonov A, Tripathi SK, and Atanasov AG. Impacts of biomedical hashtagbased Twitter campaign: #DHPSP utilization for promotion of open innovation in digital health, patient safety, and personalized medicine. **Current Research in Biotechnology**, **2021**, 3: 146-153. <https://doi.org/10.1016/j.crbiot.2021.04.004>.
14. Moumbock AFA, Gao M, Qaseem A, Li J, Kirchner PA, Ndingkokhar B, Bekono BD, Simoben CV, **Babiaka SB**, Malange YI, Sauter F, Zierp P, Ntie-Kang F, and Günther S. (2020): StreptomeDB 3.0: an updated compendium of streptomycetes natural products. **Nucleic Acids Res**, **2020**, gkaa868, <https://doi.org/10.1093/nar/gkaa868>).
15. Bate PNN, Oroch AE, Nyongbela KD, **Babiaka SB**, Kukwah A, Ngemenya MN. In vitro activity against multi-drug resistant bacteria and cytotoxicity of lichens collected from Mount Cameroon. **J King Saud Univ- Sci**, **2020**; 32: 614-619. <https://doi.org/10.1016/j.jksus.2018.09.001>
16. Ngemenya MN, Djeukem GGR, Nyongbela KD, Bate PNN, **Babiaka SB**, Monya E, Kanso RK. Microbial, phytochemical, toxicity analyses and antibacterial activity against multidrug resistant bacteria of some traditional remedies sold in Buea Southwest Cameroon. **BMC Complement Altern Med**, **2019**; 19:150. <https://doi.org/10.1186/s12906-019-2563-z>
17. Besong EB, Ateufack A, **Babiaka SB**, Kamanyi A. Leaf-methanolic extract of *Pseudopanax arboreus* (Araliaceae) (L. F. Phillipson) reverses amitriptyline-induced sexual dysfunction in male rats. **Hindawi Biochem Res Intern**, **2018**; <https://doi.org/10.1155/2018/2869727>
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20. Metuge JA, **Babiaka SB**, Mbah JA, Ntie-Kang F, Ayimele GA, Cho-Ngwa F. Anti-*Onchocerca* metabolites from *Cyperus articulatus*: Isolation, in vitro activity and in silico 'drug-likeness'. **Nat Prod Bioprospect**, **2014**; 4:243-249. <https://doi.org/10.1007/s13659-014-0023-5>

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22. Ntie-Kang F, Lifongo LL, Simoben CV, **Babiaka SB**, Sippl W, Meva'a LM. The uniqueness and therapeutic value of natural products from West African medicinal plants, part I: uniqueness, chemotaxonomy. **RSC Adv**, 2014; 4:28728- 28755. <https://doi.org/10.1039/c4ra03038a>
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26. Ntie-Kang F, Zofou D, Babiaka SB, Meudom R, Scharfe M, Lifongo LL, Mbah JA, Mbaze LM, Sippl W, Efange SMN. AfroDb: A select highly potent and diverse natural product library from African medicinal plants. *PLOS one*, 2013; 8:e78085.
27. Mbah JA, Ngemenya MN, Abawah AL, **Babiaka SB**, Nubed LN, Nyongbela KD, Lemuh ND, Efange SMN. Bioassay-guided discovery of antibacterial agents: in vitro screening of *Peperomia vulcanica*, *Peperomia fernandopoioana* and *Scleria striatinux*. **Ann Clin Microbio Antimicrob**, 2012; 11:10. <https://doi.org/10.1186/1476-0711-11-10>