

LIST OF PUBLICATIONS

a) Patents

- F.O. Shode , N. Koorbanally, **P.T. Mpiana**, D.S.T. Tshibangu, O.O Oyedeji, J.D. Habila, University of Kwazulu Natal, *In vitro* Anti- sickling activity of Betulinic Acid, Oleanolic acid and their derivatives, World International Property Organization WIPO, patent N° WO2011/064710 A1

Available on: <http://www.google.com/patents/WO2011064710A1?cl=en>

- US. Patent Apr. 1, 2014 US 8,685,469 B2
<http://www.google.com/patents/US8685469>
- South African Patent A & A Ref: P47863ZP00

b) Books

- **Pius T. MPIANA** 2006. Biophysique Médicale, tome I, Academic Express Press, Kinshasa. 352 p.
- **Pius T. MPIANA**, 2010. Biophysique Médicale, tome I, 2ème Edition révisée Resud Edition, Kinshasa. 261 p.
- **Pius T. MPIANA**, 2015. Rayonnements utilisés en Médecine et Imagerie Médicale. Resud Edition. 207p.
- Jean Paul NGOLUA, **Pius T MPIANA** et MUDOGO Virima, Etude chimique et Pharmacologique de Drepanoalpha : Puissant complément alimentaire développé en République Démocratique du Congo, Editions Universitaires Européennes, Beau Bassin, Mauritius, 2019. 53p
- Jean Paul NGBOLUA K.N., **Pius T MPIANA** et MUDOGO Virima, Pharmacopée Traditionnelle et Lutte contre la Drépanocytose. Méthode de sélection et d'évaluation des plantes médicinales. Editions Universitaires Européennes, Beau Bassin, Mauritius, 2019. 57p
- Jean Paul NGBOLUA K.N., **Pius T MPIANA** et Benjamin Z Gbolo, Etude chimique et toxicologique de Drepanoalpha, une formulation traditionnelle améliorée pour la prise en charge de la drépanocytose en République Démocratique du Congo, Editions Universitaires Européennes, Beau Bassin, Mauritius, 2020. 137p
- Dorothee TSHILANDA Dinangayi, Philippe BABADI-BILA et **Pius T MPIANA**, Etude phytochimique et activité antidrèpanocytaire du genre *Ocimum*. Cas de trois espèces : *Ocimum canum* L., *Ocimum basicum* SIMS et *Ocimum gratissimum* L.(Lamiaceae), Editions Universitaires Européennes, Beau Bassin, Mauritius, 2020. 281p

c) Publications (articles and book chapters)

In 2025:

1. Kabengele, C.N. ; Kasiana, G.N. ; Inkoto, C.L. ; Mpiana, P.T. ; Ngbolua, J.P. ; Tshibangu, D.S.T. ; Tshilanda, D.D. 2025. WO₃ nanoparticles: Synthesis and recent advances in their applications for radiotherapy and radioprotection, Next Nanotechnology,8, 100262
2. Kitete, E.M. ; Kilembe, J.,T. ; Neema-Ufoy, M.Y. ;Matondo,A. ;Ngbolua, K.N. ;Tshilanda,D.D. ; Tshibangu, D.S.T. ; Mpiana, P.T. 2025. Molecular docking, DFT and dynamics simulations of jatropa curcas-derived compounds targeting PR and hER α for Breast Cancer Treatment. Next Research ;2 (2), 100249
<https://doi.org/10.1016/j.nexres.2025.100249>
3. Masengo, C.A. ; Ilumbe, C G. B. ; Mudogo, V. ; Mpiana, P.T. ; Ngbolua, K.N. ; 2025. Étude ethnobotanique, phytochimique, pharmacologique et synthèse biogénique des nanocomposites dérivés de *Vigna unguiculata* Revue Marocaine des Sciences Agronomiques et Vétérinaires 13(4) 368-377
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4. Masengo, C.A. ; Mpiana, P.T. ; Mudogo, V. ; Ngbolua, K.N. ; 2025. La théorie de l'Entonnoir d'Intelligence Pharmacologique comme un nouveau paradigme intégratif pour la traduction du savoir traditionnel en phytomédicaments standardisés. Rev. Cong. Sci. Technol 4,(4) 877-885
DOI: <https://doi.org/10.59228/rcst.025.v4.i4.213>
5. Bobo, B.B.; Frey, S., Musenge, A.F. ; Lupaya ,K.E., Mongengo, M.P.C., Mesongolo, L., Biey, M. E., Musibono D., Tangou, T.T. ; Mpiana, T.P. 2025 Valorisation des déchets plastiques polyéthylènes téréphtalates en poubelle écologique sur le site de l'Université de Kinshasa et dans la rivière Kalamu à Kinshasa, République Démocratique du Congo Rev. Cong. Sci. Technol., 4(2) 243-250 DOI: <https://doi.org/10.59228/rcst.025.v4.i2.150>
6. Babady-Bila, P., Tshilanda, D.D., Tshibangu,D.S.T., Masengi, M.D., Kiasama, N.G., Kabengele, N. C., Ngbolua, K.N., Mpiana, P.T. 2025. Chemical Composition and Anti-sickling Activity of the Essential Oil From the Leaves of *Lantana Montevicensis* (Spreng.) Briq (Verbenaceae) Growing Wild in the Western Region of Democratic Republic of Congo , Chemistry and biodiversity
<https://doi.org/10.1002/cbdv.202403030>

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7. Rakotonirina, M.D.L., Razakamanana, T., Razafindrazanakolona, A.D., Ramanampisoa, V.E., **Mpiana, P.T.**, Ngbolua, K.N, Robijaona, R. B. 2024. Evaluation des impacts environnementaux et des risques associés : Etude de cas sur le gisement de Fer de Bekisopa, Madagascar. Rev. Cong. Sci. Technol., 3 , (1) 60-66.
<https://doi.org/10.59228/rcst.024.v3.i1.69>
8. Rakotomamonjy, P., Ralaibia, B.E., Letsara, R., Razafindrazanakolona, D., Razafindrakoto, F. N. R., Razafimahaleo, T. F., **Mpiana, P.T.**, Ngbolua, K.N. & Robijaona, R. B. 2024. Quantitative Profiling of Nutraceutical Constituents in the Pulp of Four Avocado Cultivars: A Comprehensive Study from the Itasy and Vakinankaratra Regions of Madagascar Rev. Cong. Sci. Technol., 3 (2) 139-148. DOI : <https://doi.org/10.59228/rcst.024.v3.i2.77>
9. Ngoyi, M.E., Tshilanda, D. D., Umba, P. D., Kasiana, N. G., Kabengele, N. C., Bete, M.J., Ngbolua, K.N. J.P., **Mpiana, T.P.** 2024. Phytochemical profile and antioxidant, antibacterial, anti-inflammatory and anti-sickle cell activities of *Vigna radiata* (L.)

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10. Gbolo, B.Z., Ngbolua, K.N., Ciala, B.N., Semay, I., **Mpiana, P.T.**, Gerbaux, P., Duez, P. 2024. LC-MS/MS Analysis of crude Flavonoid Compounds from *Justicia secunda* from Democratic Republic of the Congo and evaluation of their antisickling Activity Natr Resour Human Health 4 (4): 387-397 <https://doi.org/10.53365/nrfhh/192594>
 11. Lengbiye, E. M., Ngbolua, K. N., Balela, W. B., Bekomo, J. I., Tshibangu, D. S., Mbing, J. N., Pegnyemb, D. E., & **Mpiana, P. T.** 2024. Microscopic studies, phytochemical, mineral composition, and antioxidant activity of the stem bark of *Ganophyllum giganteum* (A. Chev.) Hauman (Sapindaceae) from the Ebola River Basin, Nord Ubangi, Democratic Republic of the Congo. Orapuh Journal, 5(5), e1145 <https://dx.doi.org/10.4314/orapj.v5i5.45>
 12. Mbuyamba, N. S., Tshilanda, D. D., **Mpiana, P.T.**, d'Almeida, G. A. F., Yalo, N., Ngbolua, K.N., Kaki, C. 2024 Seasonal Variations in the Physico-Chemical Characteristics Of Lite Bala Gold Site In The DRC . Pak. j. life soc. Sci. (2024), 22(2): 12071-12080 <https://doi.org/10.57239/PJLSS-2024-22.2.00861>
 13. Tshibangu, D.S.T., Bongo, G.N., Kavugho, F.S., Kasiama, G.N., Kabengele, C.N., Mwanangombo, D.T., Mbadiko, C.M., Gbolo, B.Z., Musuyu, D.M., Masunda, A.T., Inkoto, C.L., Tshilanda, D.D., Ngbolua, K.N., **Mpiana, P.T.** 2024 Phytochemical study and evaluation of the antidiabetic and antihyperglycemic activities of the fruit extracts of *Physalis peruviana* L. (Solanaceae) Phytomedicine Plus 5, 100675 <https://doi.org/10.1016/j.phyplu.2024.100675>
 14. Mulombela, C.V., Kadima, M.M., Mwanda, K.T., Mbang, L., Mambo, H.V.S., Lohohola, P.O., Tshibangu, D.S.T., Ngbolua, K.N., Bambi, S-M. N., **Mpiana, P.T.**, Mudogo, V. & Matondo, A. 2024. Evaluation in silico du profil toxicologique de quelques molécules isolées de Aloe vera et de la pastèques (*Citrullus lanatus*) utilisées dans la formulation des crèmes solaires. Rev. Cong. Sci. Technol. 3 (2), 130-138 DOI: <https://doi.org/10.59228/rcst.024.v3.i2.76>
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 16. Tshiyombo, D.N., Ngbolua, K.N., Mawunu, M., **Mpiana, P.T.** and Mudogo, V. 2024. Population dynamics of *Clarias gariepinus* (Burchell, 1822) in Lake Mai-Ndombe, Democratic Republic of the Congo Afr.Res.J.Bio.Sc. 1(1): 34-43 <https://doi.org/10.62587/AFRJB.S.1.1.2024.34-43>
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28. Masengo C.A., Ngbolua, K.N., Kilembe, J.K., Mihigo, S.O., Ilumbe, G.B., Tshilanda, D.D., Tshibangu, D.S.T. Mudogo, V. & **Mpiana, P.T.** 2023. Evaluation in silico de l'activité anti-drépanocytaire de quelques composés de l'huile essentielle

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 DOI: <https://doi.org/10.18196/jfaps.v3i2.16000>
 34. Kabengele, C.N.; Kasiana, G.N.; Ngoyi, E.M.; Inkoto, C.L.; Bete, J.M.; Babady, P.B.; Tshibangu, D.S.T; Tshilanda, D.D.; Kalele, H.M.; **Mpiana P.T.** and Ngbolua, K.N. 2023. Biogenic synthesis, characterization and effects of Mn-CuO composite nanocatalysts on Methylene blue photodegradation and Human erythrocytes AIMS Materials Science, 10(2): 356–369. DOI: [10.3934/matricsci.2023019](https://doi.org/10.3934/matricsci.2023019)
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