

# CURRICULUM VITAE



## I. BIODATA:

**NAME:** Pius MPIANA TSHIMANKINDA

**DATE OF BIRTH:** 5<sup>th</sup> September, 1960.

**PLACE OF BIRTH:** Lubumbashi, D.R. CONGO

**CITIZENSHIP:** Congolese.

**MARITAL STATUS:** Married.

**INSTITUTIONAL ADDRESS:**

Université de Kinshasa, Faculté des Sciences B.P. 190 Kinshasa XI, D R CONGO

**PERSONAL ADDRESS:**

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## EDUCATION:

B. Sc. "Licence" in chemistry, University of Kinshasa, 1987.

Master in chemistry, University of Kinshasa, 2000.

Master in integrated management of tropical forests, ERAIFT, University of Kinshasa, 2001

Ph. D. in physical chemistry, University of Kinshasa, 2003.

## CURRENT POSITIONS:

- Vice head of chemistry department in charge of research, science faculty, University of Kinshasa, DRC ( from 2010)
- Senior associate, The Abdus Salam Centre of Theoretical Physics ICTP, Trieste, Italy (2009-2015)
- Professor at science faculty, chemistry department, University of Kinshasa, DRC (from 2003).
- Visitor Professor at University of Kisangani, DRC(from2005)
- Visitor Professor at University Kongo, DRC (from 2003)
- Expert at DR Congo Nuclear Regulatory Authority (CNPRI)
- Expert and member of national team of CoE CBRN

## PREVIOUS POSITIONS:

- Junior Research and teaching Assistant, University of Kinshasa, RDC (1988-1994),
- Senior Research and Teaching assistant, University of Kinshasa, DRC (19994-2003)
- Head of research division at national programme for valorisation of traditional medicine, Congolese Ministry of public health (2002-2005).

## PREVIOUS ACADEMIC DUTIES:

### a) Scientific organization membership

- Member of « Société française d'ethnopharmacologie »
- Member of natural products research network of eastern and central Africa " NAPRRECA "
- Member of "société chimique du Congo" Sochimco

- Member of « réseau des chercheurs francophones »

**b) Editorial board membership**

- Annales Africaines de médecine Anafrimed
- Journal of computational methods in molecular design
- Asian pacific journal of tropical biomedicine
- Journal of coastal life medicine
- Research Journal of medicinal plants
- International journal of biological chemistry
- International journal of pharmacology...

**c) Seminar Participation**

- « Formulation des projets de recherche bancables », University of Kinshasa, DRC (7<sup>th</sup> to 10<sup>th</sup> January 2004)
- College on Medical Physics; ICTP, Trieste, Italy (4<sup>th</sup> to 29<sup>th</sup> September 2006)
- Natural Product Research in East and Central Africa NAPRECA, 13<sup>th</sup> Symposium, Kinshasa, DRC (10<sup>th</sup> to 14<sup>th</sup> August, 2009 )
- Stakeholders Conference S&T cooperation between Europe and Africa: status and way forward, Mombasa, Kenya (10<sup>th</sup> to 11<sup>th</sup> November, 2009)
- College on medical Physics; ICTP, Trieste, Italy ( 13<sup>th</sup> September to 01 October, 2010)
- Conference on Molecular Aspects of Cell Biology: A Perspective from Computational Physics, Trieste, Italy (11<sup>th</sup> to 15<sup>th</sup> October, 2010)
- Colloque Panafricain-Paneuropeen sur « Chimie et Ressources Naturelles », Cotonou, Benin ( 13<sup>th</sup> to 16<sup>th</sup> April, 2015)

**d) Research Projects directed or co-directed**

- Responsible of research project WHO/TDR/970015 (1998-1999)
- Responsible of research project WHO/TDR/980594 (1999-2001)
- Co-responsible of research project TWAS Grant N° 04-025 LDC/CHE/AF/AC (2004-2006)
- Co-responsible of research project TWAS Grant N° 07-077 LDC/CHE/AF/AC
- Co-responsible of research project TWAS Grant N° 08-030/LDC/CHE/AF/AC-UNESCO FR-3 240 204448
- Supervisor of IFS Research Grant F/4921-1
- Responsible of project ARES (2015)
- Responsible of project TWAS Grant N°15-156 RG/CHE/AF/AC\_G – FR3240287018 (2016-2017)

**e) Recent master and Doctoral Thesis directed or co-directed**

- Ngbolua KTN, (2012). Evaluation de l'activité anti-drépanocytaire et antipaludique Evaluation de l'activité anti-drépanocytaire de quelques taxons végétaux de la R.D. Congo et Madagascar. Doctoral thesis. University of Kinshasa
- Bokota M.T. (2012). Etude de l'activité antifalcémiant et de la stabilité physico-chimique des anthocyanes de quelques espèces des genres *Justicia*, *Ficus* et *Annona*

récoltées dans le districts de la Tshopo et de l'Ituri en RD Congo. Doctoral Thesis, University of Kisangani.

- Mwanamoki P.M.(2015).Caractérisation de la pollution des sédiments du fleuve Congo par les métaux et les polluants organiques persistants ainsi que l'évaluation bactérienne dans la colonne d'eau et des sédiments du lac de Ma Vallée (*Kinshasa,R.D congo*) sous climat tropical. Doctoral Thesis, University of Kinshasa
- Kabena O.N. (2016). Produits d'hygiene intime des femmes à Kinshasa et leurs effets *in vitro* sur la croissance microbienne et La mobilité des spermatozoïdes. Doctoral thesis, University of Kinshasa
- Kasonga KT (2011), Contribution à l'étude chimique des anthocyanes extraits des feuilles de *Justicia secunda* Vahl(Acanthaceae) sur le comportement de l'hémoglobine S, Master thesis, University of Kinshasa
- Tshilanda DD (2011), activité antifalcémiant et détermination de la structure des huiles essentielles de *Ocimum basilicum*, Master thesis, University of Kinshasa
- Atibu KE (2014), Evaluation de la Contamination des eaux de surface et sédiments des rivières LUILU et MUSONOIE (Kolwezi, Katanga) par des déchets miniers, Master thesis, University of Kinshasa
- Tshibanda BJ (2015) Caractérisation physico-chimique et bactériologique d'une rivière soumise aux rejets urbains : cas de la rivière N'djili Ville de Kinshasa/RDC, Master thesis, University of Kinshasa.
- Kitadi J (2016) activité antifalcémiant et antiradicalaire des plantes utilisées contre la drépanocytose à Kikwit, Master thesis, University of Kinshasa
- Masunda AT (2016) Activité antiradicalaire et antihyperglycémique des extraits du fruit de *Raphia gentiliana* de Wild, Master thesis, University of Kinshasa

**f) Some useful Web links:**

<http://scholar.google.com/citations?user=J1m2zdkAAAAJ&hl=en>  
[http://www.researchgate.net/profile/Pius\\_Tshimankinda\\_MPIANA/](http://www.researchgate.net/profile/Pius_Tshimankinda_MPIANA/)  
<http://users.ictp.it/~chelaf/ss320>  
<https://sites.google.com/site/profpiusmpiana/home/cv-du-prof-pius-mpiana>  
[http://www.ictp.it/about-ictp/media-centre/news/2013/9/sickle\\_cell.aspx](http://www.ictp.it/about-ictp/media-centre/news/2013/9/sickle_cell.aspx)  
[http://users.ictp.it/~chelaf/Mpiana\\_SCD.pdf](http://users.ictp.it/~chelaf/Mpiana_SCD.pdf)  
<https://africa.ictp.it/news/dealing-with-sickle-cell-disease>  
<http://assoc.ictp.it/associateship-scheme/list-associates/associate.html?siscode=MPIANATSHI001>

**g) h-index: 19**  
**i10-index: 50**

**PRIZES**

- Diploma and medal of scientific merit of DR Congo , 2010
- « Diplôme d'honneur et de mérite du meilleur professeur d'université congolaise pour l'année 2008 » ;
- « Prix africain pour la liberté et le développement 2009 »
- « Prix congolais de mérite civique et patriotique pour l'année 2008-2009 »
- « Diplôme d'honneur et d'excellence de la république démocratique du Congo pour l'année 2007-2008»

## PATENTS

- Shode, F.O.; Koorbanally, N.; **Mpiana, P.T.**; Tshibangu, D.S.T.; Oyedeji, O.O.; Habila, J.D. ; University of kwazulu natal, *In vitro* Anti-sickling activity of Betulinic Acid, Oleanolic acid and their derivatives, Wolrd International Property Organisation 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

## II PUBLICATIONS

### a) Books

- **Pius MPIANA Tshimankinda**, 2006. Biophysique Médicale, tome I, Academic Express Press, Kinshasa. 352 p.
- **Pius MPIANA Tshimankinda**, 2010. Biophysique Médicale, tome I, 2ème Edition révisée Resud Edition, Kinshasa. 261 p.
- **Pius MPIANA Tshimankinda**, 2015. Rayonnements utilises en Médecine et Imagerie Médicale. Resud Edition. 207p.

### b) Research Articles, chapters in books and conference proceedings

#### *In 2016:*

1. Tshilanda, D.D. ; Bila- Babady, P.; Onyamboko, D.N.V; Tshiongo, C.M.T. ; Tshibangu, D.S.T. ; Ngbolua K.N. ; Tsalu, P.V. ; **Mpiana, P.T.** 2016. Chemo-type of essential oil of *Ocimum basilicum* L. from DR Congo and relative in vitro antioxidant potential to the polarity of crude extracts *Asian Pacific Journal of Tropical Biomedicine* <http://dx.doi.org/10.1016/j.apjtb.2016.08.013>
2. Mulwele, F.N. ; Ngbolua, K.N. ; B. Yang Da Musa Masens, B.Y D M.; **Mpiana, P.T.** 2016 Etudes ethnobotanique et écologique des plantes utilisées dans le traitement de la stérilité à Kenge et ses environs (Province du Kwango, République Démocratique du Congo) *International Journal of Innovation and Scientific Research* 26 ( 2) : 600-611.
3. Ngbolua, K.N.; Shetonde O. Mihigo, S.O.; Liyongo, C.I.; Ashande, M.C.; Tshibangu, D.S.T.; Gbolo, B.Z.; Baholy, R.; Fatiany, P.R.; **Mpiana, P.T.** 2016. Ethno-botanical survey of plant species used in traditional medicine in Kinshasa city (Democratic Republic of the Congo). *Tropical plant Research* 3(2): 413–427, 201.
4. Tshibangu, D.S.T.; Divakar, S.; Ramanathan, M.; Syamala,G.G.; Ngbolua, K.N.; Mudogo, V.; Tshilanda, D.D.; Gbolo, B. and **Mpiana, P.T.** 2016. *In vitro* Screening of the Leaf Extracts from *Gardenia ternifolia* (Forest Gardenia) for their Anticancer Activity. *Journal of Complementary and Alternative Medical Research*. DOI: 10.9734/JOCAMR/2016/28348.

5. Ngbolua, K.N.; Shetonde, O. M.; Liyongo, C.I.; Ashande, M.C.; Tshibangu, D.S.T.; Gbolo, B.Z.; Baholy, R.; Fatiany, P.R. and **Mpiana, P.T.** 2016. Ethnobotanical survey of plant species used in traditional medicine in Kinshasa city (Democratic Republic of the Congo). *Tropical plants research* 3(2): 413–427.
6. Ngbolua, K.N.; Moke, L.E.; Ashande, M.C.; Justin A. Asimonyio, J.A.; Jean Kambale, J.L.K.; Tshibangu, D.S.T.; Ngombe, N.K.; Kamika, I.; **Mpiana, P.T.** 2016. Antisickling and antibacterial activities of *Uvariopsis congensis* Robyns & Ghesq. (Annonaceae) *Discovery Phytomedicine* 3 (2): 7-14. doi: 10.15562/phytomedicine.2016.33
7. Atibu, E.K ; Devarajan, N. ; Laffite, A. ; Giuliani, G. ; Salumu, J.A. ; Muteb, R.C. ; Mulaji, C.K. ; Otamonga, J-P. ; Elongo, V. ; **Mpiana, P.T.** ; Poté, J. 2016. Assessment of trace metal and rare earth elements contamination in rivers around abandoned and active mine areas. The case of Lubumbashi River and Tshamilemba Canal, Katanga, Democratic Republic of the Congo. *Chimie der Erde – Geochemistry* 76 : 353–362 .  
<http://dx.doi.org/10.1016/j.chemer.2016.08.004>
8. Okangola, E. ; Solomo, E. ; Lituka, Y. ;Tchatchambe, W.B. ; Mate, M. ; Upoki, A. ; Dudu, A., Asimonyio, J.A. ; **Mpiana, P.T.** ; Ngbolua, K.N. 2016. Etude ethnobotanique et floristique de quelques plantes hôtes des chenilles comestibles à usage médicinal dans le secteur de Bakumu-Mangongo (Territoire d’Ubundu, Province de la Tshopo, RD Congo). *International Journal of Innovation and Scientific Research* 26 (1) : 146-160.
9. Ngbolua, K.N. ; Pambu A.L. ; Mbutuku, L.S. ; Nzapo, H.K. ; Bongo, G.N. ; Muamba, N.B. ; Falanga, C.M. ; Gbolo, B.Z. ; **Mpiana, P.T.** 2016. Etude comparée de l’activité floculante de *Moringa oleifera* et *Vetivera zizanoïdes* dans la clarification des eaux de mare au plateau de Batéké, République Démocratique du Congo. *International Journal of Innovation and Scientific Research* 24 (2) : 379-387.
10. Kilunga, P.I; Kayembe, J.M; Laffite, A; Thevenon, F; Devarajan, N; Mulaji, C.K.; Mubedi, J.I; Yav, Z.G; Otamonga, J-P.; **Mpiana, P.T.** and Poté J. 2016. The impact of hospital and urbanwastewaters on the bacteriological contamination of the water resources in Kinshasa, Democratic Republic of Congo. *Journal of Environmental Science and Health, Part A*, DOI:10.1080/10934529.2016.1198619
11. Kapembu, M.L; Laffite,A.; Bokolo M.K ; Mbanganga A.L.; Maya-Vangua, M.M; Otamonga J-P.;Mulaji, C.K.; **Mpiana, P.T.**; Wildi,W.; Poté, J. 2016. Evaluation of water quality fromsuburban shallow wells under tropical conditions according to seasonal variation, Bumbu, Kinshasa, Democratic Republic of the Congo, Expo Health, [DOI:10.1007/s12403-016-0213-Y](https://doi.org/10.1007/s12403-016-0213-Y)
12. Mavakala, B.K. ; Le Faucheur, S. ; Mulaji, C.K. ; Lafitte, A ; Devarajan, N. ; Biey, E.M. ; Giuliani, G.; Otamonga, J-P; Kabatusuila, P.; **Mpiana, P.T.**; Pote J. 2016 Leachates draining from controlled municipal solid waste landfill: Detailed geochemical characterization and toxicity tests. *Waste Management*, <http://dx.doi.org/10.1016/j.wasman.2016.04.028>
13. Tshibangu, D.S.T; Divakar, S; Ramanathan, M.; Syamala, G.; Ngbolua, K.N.; Mudogo, J.C.V; Tshilanda, D.D.; Misengabu, N.M.; **Mpiana P.T.**.2016. *In Vitro* Anticancer Assessment of *Annickia chlorantha* (Oliv.) Setten & Maas Stem (Annonaceae) Bark from Democratic Republic of Congo. *Journal of Biosciences and Medicines*, 4: one line
14. Ngbolua, K.N., **Mpiana, P.T.**; Akoundze, J.B.; Mwanza, F.B.; Tshibangu, D.S.T. ; Ashande M.C., Liesse, J-M.L. and Takaisi, K. 2016. Anti-sickling and Bacterial

- Inhibitory Effects of Two Medicinal Foods from Congo River Basin: *Gnetum africanum* Welw. (Gnetaceae) and *Grewia coriacea* Mast. (Malvaceae). *Current Traditional Medicine*, 2(1) :on line
15. **Mpiana, P.T.** ; Ngbolua, K.N. ; Tshibangu D.S.T. 2016. Les Alicaments et la drepanocytose : une mini revue. *Comptes Rendus Chimie* 19 :884-889 <http://dx.doi.org/10.1016/j.crci.2016.02.019>
  16. Mbayo, M.K; Kalonda, E.M.; Tshisand, P.T.; Kisimba, E.K; Mulamba, M; M. Kalunga, R.M; Sangwa, G.K.; Mbayo, K.G.; Maseho, F.M.; Bakari, S.; Mpiana, P.T.; Kahumba, B.J; Lumbu, S.J-B. 2016. Contribution to Ethnobotanical Knowledge of some Euphorbiaceae used in TraditionalMedicine in Lubumbashi and its surroundings (DRC). *Journal of advanced Botany and zoology* 4(2): DOI:10.15297/JALS.V4I2.01.
  17. Ngbolua, K.N.; Karume, K.L.; Bongo G.N., Mwanza, F.B.; Tshilanda, D.D., Tshibangu, D.S.T.; Mudogo V., **Mpiana, P.T.** Larvicidal Activity Validation of *Scorodophleous zenkeri* Harms and *Garcinia mangostana* L. from Democratic Republic of the Congo using *Culex quinquefasciatus* (Diptera: Culicidae) as model system. *J. of advancement in Medical and life sciences* V4I1. DOI: 10.15297/JALS.V4I1.03
  18. Ngbolua, K.N. ; Pambu, A.L. ; Mbutuku, L.S.; Nzapo, H.K.; Bongo, G.N.; Nadine Bipendu, N.M.; Falanga,C.M. ; Gbolo,B.Z. and **Mpiana, P.T.** 2016. Etude comparée de l'activité floculante de *Moringa oleifera* et *Vetivera zizanoides* dans la clarification des eaux de mare au plateau de Batéké, République Démocratique du Congo. *International Journal of Innovation and Scientific Research*, 24 (2) 379-387.
  19. Ngbolua, KN ; Asimonyio, JA ; N. Ndrodza, N ; Mambo, B; Bugentho, P; Isangi, Y; Mukirania, JK; Ratsina, L ; Ngombe, NK ; **Mpiana, PT.** 2016. Valeur nutritive et teneur en acide cyanhydrique de huit espèces végétales consommées par *Okapia johnstoni*(Mammalia: Giraffidae) en République Démocratique du Congo . *International Journal of Innovation and Scientific Research* 23(2), 419-427
  20. Wimba, L.K ; Sibazuri, S.; Ndachetere, J.M.; Alunga, G.L.; **Mpiana, P.T.**; Ngbolua, K.N.; Yandju, M.C.; Lumande, J.K.; Kaningini B.M. 2016. La filtration sur le foulard de tete : une voie simple d'élimination du *Vibrio Cholerae* des eaux prélevées au lac kivu / rift est africain. *International Journal of Innovation and Applied Studies* 15 (3) : 523-530.
  21. **Mpiana P.T.**, Kasali F.M., Bwirhonde F., Gbolo B.Z., Tshibangu D.S.T., K. N. Ngbolua K.N., Memvanga P.B., Kadima J.N. 2016. Acute and sub-acute oral toxicity studies of Drepanoalpha® ( a poly-herbal formula used in the management of sickle cell disease) in guinea-pig. *British Journal of Pharmaceutical Research* 10(5): DOI: 10.9734/BJPR/2016/24200
  22. Devarajan N., Laffite A., Mulaji C.K., Otamonga J.P., **Mpiana P.T.**, Mubedi J.I., Prabakar K., Ibelings B.W., Poté J. 2016. Occurrence of Antibiotic Resistance Genes and Bacterial Markers in a Tropical River Receiving Hospital and Urban Wastewaters. *PLoS ONE* 11(2): e0149211. doi:10.1371/journal.pone.0149211
  23. Ngbolua K.N., Tshidibi J.D., Tshibangu D.S.T., Memvanga P.B., Gbolo Z.B., Tshilanda D.D., **Mpiana P.T.** 2016. Drepanoalpha: An Overview on the Quality Control Process and Standardization Feature of an Antisickling Herbal Drug from Democratic Republic of the Congo *journal of modern drug discovery and drug delivery research* 4(1) DOI: 10.15297/JMDDR.V4I1.01
  24. Ngbolua K.N., **Mpiana P.T.**, Mwanza F.B., Tshibangu D.S.T., Tshilanda D.D., Ashande M.C., Mudogo V., Baholy R., Fatiany P.R. 2016. Antisickling and

- antibacterial activities of *Garcinia punctata* Oliv. (Clusiaceae) and *Tetradenia riparia* (Hochst.) Codd (Lamiaceae) from Democratic Republic of the Congo. *J. of advancement in medical and life sciences* 4(1) DOI: 10.15297/JALS.V4I1.01
25. Tshilanda D.D., Mutwale P.K., Damase V. N. Onyamboko D.V.N, Babady P.B., Tsalu P.V., Tshibangu D.S.T., Ngombe N.K., Frederich M., Ngbolua K.N., **Mpiana P.T.** 2016. Chemical Fingerprint and Anti-Sickling Activity of Rosmarinic Acid and Methanolic Extracts from Three Species of *Ocimum* from DR Congo. *Journal of Biosciences and Medicines* 4: 59-68
  26. Tshilanda D.D., Ngbolua K.N., Tshibangu D.S.T., Malumba A.M. and **Mpiana P.T.** 2016. Synthesis and *in vitro* Antisickling Activity of Some Non-aromatic Esters *American Chemical Science Journal* 11(3): 1-5
  27. Ekutsu G.E, Koto-te-Nyiwa Ngbolua K.N., Bolaa M.B., **Mpiana P.T.**, Ngoy B.P., Ashande M.C., Tshibangu D.S.T. and Bongo G.N. 2016. Enquête sur la pharmacopée des bonobos (*Pan paniscus*, Primates) dans un foyer endémique et Mise en évidence de l'activité anti-drépanocytaire chez un taxon végétal (*Treculia africana* Decne ex Trécul, Moraceae) testé *in vitro*. *International Journal of Innovation and Applied Studies* 14 ( 2): 315-326
  28. Kwembe J.T.K., Mbula J.P., Tchatchambe J., Bokota M.T., **Mpiana P.T.** 2016. Evolution avec le temps de la qualité organoleptique et physico-chimique des oeufs de poule vendus à Kisangani (RD Congo) *International Journal of Innovation and Applied Studies* 14( 4): 1036-1047
  29. Solomo E., Van Damme P., Termote C., Tchatchambe W.B., Mpiana P.T., Ngabu J.C., Meulenaer B., and Dhed'a D. 2016. Substances nutritives et toxiques des fruits de trois plantes alimentaires sauvages consommées dans la province de la Tshopo (R. D. Congo) *International Journal of Innovation and Applied Studies* 14 (1) : 56-64.
  30. Kambale J.L.K., Feza F.M., Tsongo J.M., Asimonyio J.A., Mapeta S, Nshimba H., Gbolo B.Z., **Mpiana P.T.**, and Ngbolua K.N. 2016. La filière bois-énergie et dégradation des écosystèmes forestiers en milieu périurbain: Enjeux et incidence sur les riverains de l'île Mbiye à Kisangani (République Démocratique du Congo). *International Journal of Innovation and Scientific Research* 21(1): 51-60.

#### **In 2015:**

31. Fatiany, P.R. ; Ngbolua K.N. ; Rasondratovo, B., Rasoanaivo, P., Fiatoa, B. ; Marie-Thérèse, M. ; Raharisololalao, A. ; Robijaona, B. ; **Mpiana, P.T.** ; Mudogo V. 2015. Phytochemical screening and antiplasmodial activity of *Mundulea antanossarum* seeds from Madagascar *Discovery Phytomedicine* 2015; 3 (1): doi: 10.15562/phytomedicine.2015.29
32. Tsalu P.V., Nsimba B.M., Mwanangombo D.T., Tshilanda D.D., **Mpiana P.T.**, Yav Z.G. 2015. Correlation between Structure and Crystallization of Porphyrins and Derivatives. *j. of Physical and Chemical Sciences*.V3I4. DOI: 10.15297/JPCS.V3I4.03
33. Ngbolua K.N., Mudogo V., **Mpiana P.T.**, Ashande M.C., Clovis S. Ndege C.S., Tshibangu D.S.T., Tshilanda D.D. 2015. Bioactivity validation of *Phyllanthus amarus* using cell lines as model systems *Discovery Phytomedicine* 2015; 2 (4): 23-28. doi: 10.15562/ phytomedicine.2015.29
34. Ngbolua K.N., Moke L.E., Lumande J.K., **Mpiana P.T.** 2015. *Canarium schweinfurthii* Engl. (Bursereaceae): An Updated Review and Future Direction for

- Sickle Cell Disease *J. of Advancement in Medical and Life Sciences*. V3I3. DOI: 10.15297/JALS.V3I3.05
35. Ngbolua K.N., Herintsoa R., Hajatiana R., Mudogo V., Tshilanda D.D., Tshibangu D. S. T. and **Mpiana P. T.** 2015. *In vitro* Anti-erythrocyte Sickling Effect of Lunularic Acid of Natural Origin. *International Blood Research & Reviews* 4(3):1-6.
  36. Kitadi J.M., Mazasa P.P., Tshibangu D.S.T., Memvanga P.B., Ngbolua K.N., Taba N.K., Noki P.V. and **Mpiana P.T.** 2015. Anti-sickling and antioxidant activities of anthocyanins extracts from *Dissotis brazzae* Cogn (Melastomataceae) *J. of Advancement in Medical and Life Sciences*. V3I4. DOI: 10.15297/JALS.V3I4.01
  37. Nsimba ,B. M.; Tsalu , P. V. ; Mwanangombo, D. T. ; Atibu, E. K; Tshibangu, D. S. T.; Kayembe, K.; Basosila, N. L.; Mihigo, S. O.; **Mpiana P.T.** 2016. Electron Withdrawing Groups and Steric Effects on the Methanogenic Toxicity *American Chemical Science Journal* 10(1): 1-8.
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