Robert Peter Biney

Associate Professor · Pharmacology
University of Cape Coast

ORCID 0000-0002-7566-5387 · Google Scholar scholar.google.com/citations?user=ClBanEoAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/30963dae-8e28-4958-bfb0-27694e54ffff

RESEARCH

Interests	Neuropharmacology · Drug Discovery
Areas	Pharmacology · Molecular Biology · Biochemistry · Plant Science · Complementary and alternative medicine · Cellular and Molecular Neuroscience

RESEARCH SUMMARY

85	1,002	16	31	1.45	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 85 publications listed below, 2014–2026. Field-weighted impact is the mean over the 72 works scored for it; 1.00 is the world average for works of the same field, type and year. 9 of the 72 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2016–present
Department of Pharmacology, University of Cape Coast, Cape Coast, Ghana

Lecturer 2015–present
Withrow University College, Kumasi, Ghana

Graduate Research Assistant 2013–present
Department of Pharmacology, Kwame Nkrumah University of Science and Technology Faculty of Pharmacy and Pharmaceutical Sciences, Kumasi, Ghana

Teaching/Research Assistant 2011–2012
Department of Pharmaceutical Sciences, Central University College, Accra, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2012–2016
Department of Pharmacology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Bachelor of Pharmacy 2007–2011
Kwame Nkrumah University of Science and Technology Faculty of Pharmacy and Pharmaceutical Sciences, Kumasi, Ghana

PUBLICATIONS

Journal articles 83

1. Thomas A. Tagoe, **Robert P. Biney**, Delali Ed-Bansah, Aliu Z. Bankah, Priscilla K. Mante, Patrick Amoateng (2026). Building neuroscience capacity in low- and middle-income countries: Lessons from Ghana. *Trends in Neurosciences*. https://doi.org/10.1016/j.tins.2026.06.005
2. Charles Kwaku Benneh, Wonder Kofi Mensah Abotsi, Aliu Moomin, **Robert Peter Biney**, Japhat Opoku Ofosu, Mustapha Kobina Abeka, Augustine Tandoh, Donatus Wewura Adongo, Eric Woode (2026). Deacetyl xylopic acid exhibits synergistic antidepressant-like effects and augments fluoxetine activity in a chronic restraint-induced depression model in mice. *Naunyn-Schmiedeberg s Archives of Pharmacology*.

https://doi.org/10.1007/s00210-026-05501-8

3. **Robert Peter Biney**, E Asante-Kwatia (2026). Evaluation of antidepressant-like actions and mechanisms of an extract of Anopyxis klaineana (Pierre) Engl. using computational pharmacology and experimental assessment in …. *Scientific African*. https://www.sciencedirect.com/science/article/pii/S2468227626004643
4. Richard Delali Agbeko Djochie, Jonathan Boakye-Yiadom, Adwoa Oforiwaa Kwakye, Kwaku Gyamfi Oppong, Ivan Eduku Mozu, Constance Caroline Cobbold, **Robert Peter Biney** (2026). Prevalence and predictors of prescribing errors in a primary care setting in Ghana. *Therapeutic Advances in Drug Safety*. https://doi.org/10.1177/20420986251414590
5. Isaac Blessed Mensah, Abigail Wortsi, Akua Afriyie Karikari, Aaron Opoku Antwi, **Robert Peter Biney** (2025). Antidepressant-like potential of stigmasterol against lipopolysaccharide-induced depression-like behaviors in mice. *Neuroscience*. https://doi.org/10.1016/j.neuroscience.2025.05.251
6. **Robert Peter Biney** (2025). Derivatives of plant diterpene xylopic acid as scaffolds for novel antidepressants & quot. *Neuroscience*. https://doi.org/10.1016/j.neuroscience.2025.05.089
7. Nicholas Ekow Thomford, Tracy Kellermann, Joel Adu Twum, John Anyimadu, Charné Dixon, Dennis Sappor, Dee Blackhurst, Prince Amoah Barnie, Oksana Ryabinina, Samuel Badu Nyarko, **Robert Peter Biney**, Martins Ekor, George B. Kyei (2025). Drug-drug interaction between dolutegravir and artemether-lumefantrine in HIV and malaria mono- and co-infections: a pharmacogenetic analysis from Ghana. *AIDS Research and Therapy*. https://doi.org/10.1186/s12981-025-00787-9
8. Isaac Blessed Mensah, Manuella Akosua Mirekua Coffie, Albert Dwamena Nkansah, Aaron Opoku Antwi, Akua Afriyie Karikari, **Robert Peter Biney** (2025). Evaluating the potential of stigmasterol as a scaffold for novel antidepressants. *Neuroscience*. https://doi.org/10.1016/j.neuroscience.2025.05.178
9. Charles Kwaku Benneh, Wonder Kofi Mensah Abotsi, Priscilla Kolibea Mante, **Robert Peter Biney**, John Peter Fetse, Mustapha Kobina Abeka, Donatus Wewura Adongo, Eric Woode (2025). Evidence for the anxiolytic- and antidepressant-like effects of three semi-synthetic derivatives of xylopic acid in mice. *Naunyn-Schmiedeberg s Archives of Pharmacology*. https://doi.org/10.1007/s00210-025-03814-8
10. **Robert Peter Biney**, Isaac Blessed Mensah, Akua Afriyie Karikari, Aaron Opoku Antwi, Abigail Wortsi, Albert Dwamena Nkansah, Gyan Nana Kyere Barnieh, Isaac Tabiri Henneh (2025). Exploring the antidepressant-like effect of stigmasterol using network pharmacology with molecular docking and in vivo experimental validation. *Scientific Reports*. https://doi.org/10.1038/s41598-025-27533-5
11. Elizabeth Oladunni Dogbey, Patrick Amoateng, **Robert Peter Biney**, Michael Arthur (2025). Integrating traditional healer's knowledge and ethnopharmacology with contemporary neurology in the epilepsies: A systematic review. *Epilepsy & Behavior*. https://doi.org/10.1016/j.yebeh.2025.110749
12. Martha I. Davila-Garcia, Oritoke Okeowo, **Robert P. Biney**, Victor D.A. Da Silva, Adebowale Ogunjirin (2025). Natural products research, characterization, and therapeutic role. *Neuroscience*. https://doi.org/10.1016/j.neuroscience.2025.05.088
13. Isaac Yaw Attah, Benjamin Amoani, Daniel Anokwah, Maame Yaa Adomah Aboagye, Ernest Obese, **Robert Peter Biney** (2025). The anti-schistosomal activity of Rauwolfia vomitoria and its isolates: Cytotoxicity and isobolographic studies. *Journal of Phytomedicine and Therapeutics*. https://doi.org/10.4314/jopat.v24i2.7
14. Isaac Henneh, Fabao Zhao, **Robert P. Biney**, Kofi Boateng, Leticia Agbesi, Fracis A. Armah, Martins Ekor, Boshi Huang (2025). β-Amyrin's Antidepressant-Like Activity in Mice and Zebrafish: Mechanistic Pathways and In Silico Molecular Interactions (Abstract ID: 169408). *Journal of Pharmacology and Experimental Therapeutics*. https://doi.org/10.1016/j.jpet.2024.100850
15. Nicholas Ekow Thomford, Susanna Aba Abraham, Samuel Badu Nyarko, **Robert Peter Biney** (2024). A consideration of CYP2D6 genetic variations in the Ghanaian population as a potential 'culprit' for the tramadol 'abuse crisis'. *BMC Medical Genomics*. https://doi.org/10.1186/s12920-023-01773-8
16. Isaac T. Henneh, Isaac Y. Attah, Silas A. Osei, Ernest Obese, **Robert Peter Biney**, Francis A. Armah, Elvis O. Ameyaw, Janet Agyen Donkor, Sarah Mensah, Martins Ekor (2024). In silico, in vitro and in vivo antiplasmodial activity of β-amyrin and its potential synergistic effect when co-administered with

artesunate. *Journal of Pharmacology and Experimental Therapeutics*. https://doi.org/10.1124/jpet.080.915660

17. Charles Kwaku Benneh, Wonder Kofi Mensah Abotsi, **Robert Peter Biney**, Priscilla Kolibea Mante, Mustapha Kobina Abeka, Augustine Tandoh, Eric Woode (2024). Synergistic antidepressant-like effect of xylopic acid co-administered with selected antidepressants. *IBRO Neuroscience Reports*. https://doi.org/10.1016/j.ibneur.2024.01.011
18. Nicholas Ekow Thomford, Tracy Kellermann, **Robert Peter Biney**, Charné Dixon, Samuel Badu Nyarko, Richmond Owusu Ateko, Martins Ekor, George B. Kyei (2024). Therapeutic efficacy of generic artemether–lumefantrine in the treatment of uncomplicated malaria in Ghana: assessing anti-malarial efficacy amidst pharmacogenetic variations. *Malaria Journal*. https://doi.org/10.1186/s12936-024-04930-1
19. Isaac Henneh, **Robert Biney**, Silas Acheampong, Ernest Obese, Francis Armah, Elvis Ameyaw, Martins Ekor (2023). ANTI-EPILEPTOGENIC ACTIVITY OF ZIZIPHUS ABYSSINICA ROOT BARK EXTRACT AND ITS ISOLATED BIOACTIVE COMPOUND, B-AMYRIN. *IBRO Neuroscience Reports*. https://doi.org/10.1016/j.ibneur.2023.08.1145
20. Daniel Anokwah, Evelyn Asante-Kwatia, Jonathan Asante, Daniel Obeng-Mensah, Cynthia Amaning Danquah, Isaac Kingsley Amponsah, Elvis Ofori Ameyaw, **Robert Peter Biney**, Ernest Obese, Lukas Oberer, Daniel Gyamfi Amoako, Akebe Luther King Abia, Abraham Yeboah Mensah (2023). Antibacterial, Resistance Modulation, Anti-Biofilm Formation, and Efflux Pump Inhibition Properties of Loeseneriella africana (Willd.) N. Halle (Celastraceae) Stem Extract and Its Constituents. *Microorganisms*. https://doi.org/10.3390/microorganisms12010007
21. **Robert Peter Biney**, E Asante-Kwatia, J Asante, D Obeng-Mensah, CA Danquah, Elvis Ofori Ameyaw (2023). Antibacterial, Resistance Modulation, Anti-Biofilm Formation, and Efflux Pump Inhibition Properties of Loeseneriella africana (Willd.) N. Halle (Celastraceae) Stem …. *Microorganisms*. https://www.mdpi.com/2076-2607/12/1/7
22. Donatus Wewura Adongo, Charles Kwaku Benneh, Augustine Tandoh, **Robert Peter Biney**, Kennedy Kwami Edem Kukuia, Priscilla Kolibea Mante, Benjamin Kingsley Harley, David Oteng, Emmanuel Aduboffour Appiah, Ernest Cudjoe Anorbor, Eric Woode (2023). Anxiolytic-like effects of Pseudospondias microcarpa hydroethanolic leaf extract in zebrafish: Possible involvement of GABAergic and serotonergic pathways. *Natural Products and Bioprospecting*. https://doi.org/10.1007/s13659-023-00399-8
23. Nicholas Ekow Thomford, Akwasi Anyanful, Richmond Owusu Ateko, Dee Blackhurst, **Robert Peter Biney**, Dennis Boadi, Samuel Badu Nyarko, Martins Ekor, George Boateng Kyei (2023). Apolipoprotein E genetic variation, atherogenic index and cardiovascular disease risk assessment in an African population: An analysis of HIV and malaria patients in Ghana. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0284697
24. Justus Precious Deikumah, **Robert Peter Biney**, John Koku Awoonor-Williams, Mawuli Kotope Gyakobo (2023). Compendium of medically important snakes, venom activity and clinical presentations in Ghana. *PLoS neglected tropical diseases*. https://doi.org/10.1371/journal.pntd.0011050
25. **Robert Biney** (2023). DITERPENES AS SCAFFOLDS FOR NOVEL AGENTS AGAINST CNS DISORDERS. *IBRO Neuroscience Reports*. https://www.ibroneuroreports.org/article/S2667-2421(23)02217-0/fulltext
26. Donatus Wewura Adongo, Priscilla Kolibea Mante, Kennedy Kwami Edem Kukuia, Charles Kwaku Benneh, **Robert Peter Biney**, Eric Boakye-Gyasi, Hilda Amekyeh, Benjamin Kingsley Harley, Augustine Tandoh, Prince Dagadu Okyere, Eric Woode (2023). Fast-onset effects of Pseudospondias microcarpa (A. Rich) Engl. (Anacardiaceae) hydroethanolic leaf extract on behavioral alterations induced by chronic mild stress in mice. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0278231
27. Meshack Antwi-Adjei, Ernest Obese, Emmanuel Awiintig Adakudugu, Isaac Tabiri Henneh, **Robert Peter Biney**, Benjamin Aboagye, Benjamin Amoani, Daniel Anokwah, Elvis Ofori Ameyaw (2023). Modulating Effects of the Hydroethanolic Leaf Extract of Persicaria lanigera R. Br. Soják (Polygonaceae) against Acute Inflammation. *The Scientific World JOURNAL*. https://doi.org/10.1155/2023/5567410
28. **Robert Peter Biney**, Silas Acheampong Osei, Evelyn Asante-Kwatia, Edmund Amponsah Boateng, Daniel Anokwah, Donatus Wewura Adongo, Elvis Ofori Ameyaw (2023). Neuropharmacological assessment of the methanolic stem back extract of Anopyxis klaineana (Pierre) Engl. (Rhizophoraceae) in mice.

Phytomedicine Plus. https://doi.org/10.1016/j.phyplu.2023.100470

29. Daniel Anokwah, Evelyn Asante-Kwatia, Yakubu Jibira, Isaac Kingsley Amponsah, Samuel Kyei, Grace Pinkrah Cobbold, Benjamin Adzekey, Ernest Obese, Elvis Ofori Ameyaw, **Robert Peter Biney**, Abraham Yeboah Mensah (2023). Pharmacognostic study, anti-inflammatory and, antioxidant activities of Loeseneriella africana. *South African Journal of Botany*. https://doi.org/10.1016/j.sajb.2023.03.027

30. Ismail Temitayo Gbadamosi, Isaac Tabiri Henneh, Oritoke Modupe Aluko, Emmanuel Olusola Yawson, Aliance Romain Fokoua, Awo Koomson, Joseph Torbi, Samson Ehindero Olorunnado, Folashade Susan Lewu, Yusuf Yusha'u, Salmat Temilola Keji-Taofik, **Robert Peter Biney**, Thomas Amatey Tagoe (2022). Depression in Sub-Saharan Africa. *IBRO Neuroscience Reports*. https://doi.org/10.1016/j.ibneur.2022.03.005

31. Daniel Anokwah, Evelyn Asante Kwatia, Isaac Kingsley Amponsah, Yakubu Jibira, Benjamin Kingsley Harley, Elvis Ofori Ameyaw, Ernest Obese, **Robert Peter Biney**, Abraham Yeboah Mensah (2022). Evaluation of the anti-inflammatory and antioxidant potential of the stem bark extract and some constituents of Aidia genipiflora (DC.) dandy (rubiaceae). *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e10082

32. Awo Efua Koomson, Kennedy Kwami Edem Kukuia, Patrick Amoateng, **Robert Peter Biney**, Thomas Amatey Tagoe, Jeffrey Amoako Mensah, Elvis Ofori Ameyaw, Joseph Torbi, Seth Kwabena Amponsah (2022). Extract of Xylopia aethiopica and its kaurene diterpene, xylopic acid, improve learning and memory in mice. *IBRO Neuroscience Reports*. https://doi.org/10.1016/j.ibneur.2022.03.006

33. Desmond Omane Acheampong, Ernest Obese, **Robert Peter Biney**, Benjamin Amoani, Emmanuel A Adakudugu, Paulina Ampomah, Elvis O Ameyaw (2022). In Vitro and In Vivo Antiplasmodial Activity and Safety Profile of Hydroethanolic Leaf Ex-tract of Calotropis Procera (Ait) R. Br.(Apocynaceae). *Annals of Pharma Research*. https://annalsofpharmaresearch.com/index.php?journal=apr&page=article&op=view&path%5B%5D=70

34. Mary A. Agbenyeku, Regina Appiah-Opong, Ernest Obese, **Robert P. Biney**, Emmanuel A. Adakudugu, Arnold D. Forkuo, Silas A. Osei, Mustapha K. Abeka, Elvis O. Ameyaw (2022). In Vitro and In Vivo Effect of Xylopic Acid on Cytochrome P450 Enzymes. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2022/4524877

35. Silas Acheampong Osei, **Robert Peter Biney**, Alberta Serwah Anning, Lydia Nkuah Nortey, George Ghartey-Kwansah (2022). Low incidence of COVID-19 case severity and mortality in Africa; Could malaria co-infection provide the missing link? *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-022-07064-4

36. Ernest Obese, Elvis O. Ameyaw, **Robert P. Biney**, Isaac T. Henneh, Nora Jackson, Daniel Anokwah, Augustine Brah, Esther E. Oppong, Emmanuel A. Adakudugu (2021). A Hydroethanolic Leaf Extract of Persicaria lanigera Possesses Antinociceptive Activity through Cytokine and Glutamatergic Pathways In Vivo. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2021/5586789

37. Isaac Tabiri Henneh, Francis Ackah Armah, Elvis Ofori Ameyaw, **Robert Peter Biney**, Ernest Obese, Eric Boakye-Gyasi, Emmanuel Awintiig Adakudugu, Martins Ekor (2021). Analgesic Effect of Ziziphus abyssinica Involves Inhibition of Inflammatory Mediators and Modulation of KATP Channels, Opioidergic and Nitrergic Pathways. *Frontiers in Pharmacology*. https://doi.org/10.3389/fphar.2021.714722

38. Francis Ackah Armah, Isaac Tabiri Henneh, Isaac Kingsley Amponsah, **Robert Peter Biney**, Fynn Malcolm, John Alake, Wisdom Ahlidja, Mustapha Abubakar Ahmed, Christian Kweku Adokoh, Genevieve Etornam Adukpo, Desmond Omane Acheampong, Peter K. Gathumbi (2021). Antidepressant and Anxiolytic Effects and Subacute Toxicity of the Aerial Parts of Psychotria ankasensis J.B.Hall (Rubiaceae) in Murine Models. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2021/5543320

39. Ernest Obese, **Robert P. Biney**, Isaac T. Henneh, Daniel Anokwah, Emmanuel A. Adakudugu, Eric Woode, Elvis O. Ameyaw (2021). Antinociceptive effect of the hydroethanolic leaf extract of Calotropis procera (Ait) R. Br. (Apocynaceae): Possible involvement of glutamatergic, cytokines, opioidergic and adenosinergic pathways. *Journal of Ethnopharmacology*. https://doi.org/10.1016/j.jep.2021.114261

40. Martins Ekor, Phyllis Elsie Owusu Agyei, Ernest Obese, **Robert Peter Biney**, Isaac Tabiri Henneh, Meshack Antwi-Adjei, Ewura Seidu Yahaya, Gordon Amoakohene, Patrick Kafui Akakpo (2021). Celecoxib exhibits

therapeutic potential in experimental model of hyperlipidaemia. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0247735

41. Elvis Ofori Ameyaw, Ernest Obese, Du-Bois Asante, **Robert P. Biney**, Akua A. Karikari, Emmanuel A. Adakudugu, Bright G. Dzotefe, Maddison Adanusa (2021). Effect of xylopic acid on alloxan-induced diabetic neuropathy in rats. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20211011

42. **Robert Peter Biney**, Francis Tanam Djankpa, Silas Acheampong Osei, Daniel Lawer Egbenya, Benjamin Aboagye, Akua Afriyie Karikari, Abdala Ussif, Gideon Akuamoah Wiafe, David Nuertey (2021). Effects of in utero exposure to monosodium glutamate on locomotion, anxiety, depression, memory and KCC2 expression in offspring. *International Journal of Developmental Neuroscience*. https://doi.org/10.1002/jdn.10158

43. **Robert Peter Biney**, Charles Kwaku Benneh, Donatus Wewura Adongo, Elvis Ofori Ameyaw, Eric Woode (2021). Evidence of an antidepressant-like effect of xylopic acid mediated by serotonergic mechanisms. *Psychopharmacology*. https://doi.org/10.1007/s00213-021-05835-6

44. Ernest Obese, Elvis Ofori Ameyaw, **Robert Peter Biney**, Emmanuel Awintiig Adakudugu, Eric Woode (2021). Neuropharmacological Assessment of the Hydroethanolic Leaf Extract of Calotropis procera (Ait). R. Br. (Apocynaceae) in Mice. *Scientifica*. https://doi.org/10.1155/2021/5551380

45. Esther Eshun Oppong, Ernest Obese, **Robert Peter Biney**, Pearlmond Agbalekpor, Priscilla A. Hanson, Maame Y. A. Aboagye, Emmanuel A. Adakudugu, Madison Adanusa, Richard Pinkrah, Anasthasia O. Adomah, Silas A. Osei, Elizabeth N. Oge, Mary A. Agbenyeku, Elvis O. Ameyaw (2021). Spectrum of anxiety and depression reported in reproductive-aged women diagnosed with gynaecological disorders at a tertiary healthcare facility in Ghana. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20213358

46. Ernest Obese, **Robert Peter Biney**, Isaac Tabiri Henneh, Emmanuel Awintiig Adakudugu, Daniel Anokwah, Lovia Serwaa Agyemang, Eric Woode, Elvis Ofori Ameyaw (2021). The Anticonvulsant Effect of Hydroethanolic Leaf Extract of Calotropis procera (Ait) R. Br. (Apocynaceae). *Neural Plasticity*. https://doi.org/10.1155/2021/5566890

47. Silas Acheampong Osei, **Robert Peter Biney**, Ernest Obese, Mary Atta-Panyi Agbenyeku, Isaac Yaw Attah, Elvis Ofori Ameyaw, Johnson Nyarko Boampong (2021). Xylopic acid-amodiaquine and xylopic acid-artesunate combinations are effective in managing malaria in Plasmodium berghei-infected mice. *Malaria Journal*. https://doi.org/10.1186/s12936-021-03658-6

48. Elizabeth N. Oge, Ernest Obese, **Robert P. Biney**, Emmanuel Adakudugu, Mary Agbenyeku, Silas A. Osei, Maria B. Cassera, Ana Lisa Valenciano, Emilio F. Merino, Johnson N. Boampong, Eric Woode, Madison Adanusa, Elvis O. Ameyaw (2020). A review of pharmacological effects of xylopic acid. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20201765

49. Victor Wumbor-Apin Kumbol, Wonder Kofi Mensah Abotsi, **Robert Peter Biney** (2020). Antidepressant-like effect of Albizia zygia root extract in murine models. *Journal of Basic and Clinical Physiology and Pharmacology*. https://doi.org/10.1515/jbcpp-2019-0310

50. Emmanuel A. Adakudugu, David D. Obiri, Elvis O. Ameyaw, Ernest Obese, **Robert P. Biney**, Douglas B. Aidoo, Isaac T. Henneh, Elizabeth N. Oge, Ama K. Thomford, Madison Adanusa (2020). Bergapten modulates ovalbumin-induced asthma. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00457

51. Nicholas Ekow Thomford, **Robert Peter Biney**, Emmanuel Okai, Akwasi Anyanful, Paul Nsiah, Prosperity G. Frimpong, Dominic O. Boakye, Charles A. Adongo, Paul Kruszka, Ambroise Wonkam (2020). Clinical Spectrum of congenital heart defects (CHD) detected at the child health Clinic in a Tertiary Health Facility in Ghana: a retrospective analysis. *Journal of Congenital Cardiology*. https://doi.org/10.1186/s40949-020-00034-y

52. **Robert P. Biney**, Phyllis E. Owusu Agyei, Elvis O. Ameyaw, John K. Afortude, Isaac T. Henneh, Ernest Obese, Samuel Badu Nyarko, Martins Ekor (2020). Effects of three herb-based alcoholic beverages manufactured in Ghana on sperm characteristics and reproductive hormones in rats. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00316

53. Isaac T. Henneh, Phyllis E. Owusu Agyei, Ernest Obese, **Robert P. Biney**, Meshack Antwi-Adjei, Ewura S.

Yahaya, Ernest Asiamah, Joseph Acquah-Mills, Douglas O. Boateng, Martins Ekor (2020). Leaf and root bark extracts of Ziziphus abyssinica Hochst ex. A. Rich (Rhamnaceae) ameliorate hepatic, renal and splenic injuries induced by phenylhydrazine in rats. *Journal of Basic and Clinical Physiology and Pharmacology*. https://doi.org/10.1515/jbcpp-2020-0111

54. Emmanuel A. Adakudugu, Elvis O. Ameyaw, Ernest Obese, **Robert P. Biney**, Isaac T. Henneh, Douglas B. Aidoo, Elizabeth N. Oge, Isaac Y. Attah, David D. Obiri (2020). Protective effect of bergapten in acetic acid-induced colitis in rats. *Heliyon*. https://doi.org/10.1016/j.heliyon.2020.e04710

55. Augustina Angelina Sylverken, B Arko-Boham, Elvis O Ameyaw, A Banunle, **Robert P Biney**, Evans Asenso, Isaac T Henneh, Ama K Thomford, Madison Adanusa (2020). Scientific African. *Carbon*. https://www.researchgate.net/profile/Hamza-Zine/publication/346551011_Guidelines_for_a_phytomanagement_plan_by_the_phytostabilization_of_mining_wastes/links/5fcfd13392851c00f85f0f28/Guidelines-for-a-phytomanagement-plan-by-the-phytostabilization-of-mining-wastes.pdf

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57. **Robert Biney**, Charles Benneh, Donatus Adongo, Eric Woode (2019). Rapid-onset anti-depressant-like potential of xylopic acid in mice and zebrafish. *IBRO Reports*. https://doi.org/10.1016/j.ibror.2019.07.1531

58. V.W.A. Kumbol, W.K.M. Abotsi, **R.P. Biney** (2019). The antidepressant effects of albizia zygia root extract in mice are mediated via catecholaminergic mechanisms. *IBRO Reports*. https://doi.org/10.1016/j.ibror.2019.09.084

59. Edmund Ekuadzi, **Robert P Biney**, Charles K Benneh, Bismark Osei Amankwaa, Jonathan Jato (2018). Anti-inflammatory properties of betulinic acid and xylopic acid in the carrageenan-induced pleurisy model of lung inflammation in mice. *Proceedings for Annual Meeting of The Japanese Pharmacological Society*. https://doi.org/10.1254/jpssuppl.wcp2018.0_po3-10-8

60. Charles Kwaku Benneh, **Robert Peter Biney**, Donatus Wewura Adongo, Priscilla Kolibea Mante, Felix Agyei Ampadu, Augustine Tandoh, Jonathan Jato, Eric Woode (2018). Anxiolytic and Antidepressant Effects ofMaerua angolensisDC. Stem Bark Extract in Mice. *Depression Research and Treatment*. https://doi.org/10.1155/2018/1537371

61. **Robert Peter Biney**, Charles Kwaku Benneh, James Oppong Kyekyeku, Elvis Ofori Ameyaw, Eric Boakye-Gyasi, Eric Woode (2018). Attenuation of Anxiety Behaviours by Xylopic Acid in Mice and Zebrafish Models of Anxiety Disorder. *Pharmaceutical and Biosciences Journal*. https://doi.org/10.20510/ukjpb/6/i3/173546

62. Elvis O. Ameyaw, Kodwo B. Asmah, **Robert P. Biney**, Isaac T. Henneh, Phyllis Owusu-Agyei, James Prah, Arnold D. Forkuo (2018). Isobolographic analysis of co-administration of two plant-derived antiplasmodial drug candidates, cryptolepine and xylopic acid, in Plasmodium berghei. *Malaria Journal*. https://doi.org/10.1186/s12936-018-2283-8

63. **Robert Peter Biney** (2018). Maerua angolensis DC. *Evidence-Based Complementary and Alternative Medicine*. https://go.gale.com/ps/i.do?id=GALE%7CA604313603&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=1741427X&p=HRCA&sw=w

64. Charles Kwaku Benneh, **Robert Peter Biney**, Augustine Tandoh, Felix Agyei Ampadu, Donatus Wewura Adongo, Jonathan Jato, Eric Woode (2018). Maerua angolensis DC. (Capparaceae) Stem Bark Extract Protects against Pentylenetetrazole-Induced Oxidative Stress and Seizures in Rats. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2018/9684138

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Book chapters 2

1. **Robert Peter Biney**, Thabisile Mpofana, Ella Anle Kasanga (2022). Free Radicals in Oxidative Stress, Aging, and Neurodegenerative Disorders. *IGI Global eBooks*. https://doi.org/10.4018/978-1-6684-5295-0.ch015

2. **Robert Peter Biney**, Thabisile Mpofana, Ella Anle Kasanga (2018). Free Radicals in Oxidative Stress, Aging, and Neurodegenerative Disorders. *Advances in medical diagnosis, treatment, and care (AMDTC) book series*. https://doi.org/10.4018/978-1-5225-5282-6.ch003