# Ms. Abigail Adomako

Research Centre
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## PROFILE

A student of science specializing in computational medicinal chemistry with experience in managing related projects. Currently pursuing a Biochemistry Ph.D. at the University of Wisconsin-Milwaukee. I aim to excel in structural biology research, acquire knowledge to give back to my community, and motivate girls who aspire to become scientists

## RESEARCH

Areas: Plant Science · Public Health, Environmental and Occupational Health · Biomaterials · Computational Theory and Mathematics · Endocrinology, Diabetes and Metabolism · Epidemiology

## RESEARCH SUMMARY

| 5 | 138 | 5 | 3 | 2.83 | 60% |
|---|---|---|---|---|---|
| Publications | Citations | h-index | i10-index | Field-weighted impact | World top 10% |

Counted from the 5 publications listed below, 2020–2024. Field-weighted impact is the mean over the 5 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 5 papers scored for it are among the world's most cited tenth for their field, type and year.

## POSITIONS

**Graduate Assistant** 2023–present
Chemistry and Biochemistry, University of Wisconsin–Milwaukee, Milwaukee, United States

## EDUCATION AND QUALIFICATIONS

**Doctor of Philosophy(Biochemistry)**
Chemistry and Biochemistry, University of Wisconsin–Milwaukee, Milwaukee, United States

## PUBLICATIONS

### Journal articles 5

1. **Abigail Kusiwaa Adomako**, Edward Ntim Gasu, Jehoshaphat Oppong Mensah, Lawrence Sheringham Borquaye (2024). Antileishmanial natural products as potential inhibitors of the Leishmania pteridine reductase: insights from molecular docking and molecular dynamics simulations. *In Silico Pharmacology*. https://doi.org/10.1007/s40203-024-00247-8
2. Kirsty Mary Mawumenyo Mamattah, **Abigail Kusiwaa Adomako**, Caleb Nketia Mensah, Lawrence Sheringham Borquaye (2023). Chemical Characterization, Antioxidant, Antimicrobial, and Antibiofilm Activities of Essential Oils of Plumeria alba (Forget-Me-Not). *Biochemistry Research International*. https://doi.org/10.1155/2023/1040478
3. Jehoshaphat Oppong Mensah, Gilbert Boadu Ampomah, Edward Ntim Gasu, **Abigail Kusiwaa Adomako**, Elliott Sarpong Menkah, Lawrence Sheringham Borquaye (2022). Allosteric Modulation of the Main Protease (MPro) of SARS-CoV-2 by Casticin—Insights from Molecular Dynamics Simulations. *Chemistry Africa*. https://doi.org/10.1007/s42250-022-00411-7

4. Thomas Osafo, Trudy Janice Philips, **Abigail Kusiwaa Adomako**, Lawrence Sheringham Borquaye, Edmund Ekuadzi, Regina Appiah-Opong, Rita Akosua Dickson (2022). In vitro antileishmanial activity and molecular docking studies of lupeol and monostearin, isolated from Parkia biglobosa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01464

5. Lawrence Sheringham Borquaye, Edward Ntim Gasu, Gilbert Boadu Ampomah, Lois Kwane Kyei, Margaret Amerley Amarh, Caleb Nketia Mensah, Daniel Nartey, Michael Commodore, **Abigail Kusiwaa Adomako**, Philipina Acheampong, Jehoshaphat Oppong Mensah, David Batsa Mormor, Caleb Impraim Aboagye (2020). Alkaloids from Cryptolepis sanguinolenta as Potential Inhibitors of SARS-CoV-2 Viral Proteins: An In Silico Study. *BioMed Research International*. https://doi.org/10.1155/2020/5324560