

CURRICULUM VITAE

Name Brian Andrich L. Pollo



Educational Background

- 2026 MD-PhD (Molecular Medicine)
College of Medicine
University of the Philippines, Manila
- 2015 BS Pharmacy (5 years), cum laude
(1st place)
College of Pharmacy
University of the Philippines Manila
- 2010 Manila Science High School
9th Honorable mention
Gold medalist



Personal Data

Sex Male
Nationality Filipino
Civil Status Single

Professional Employment / Experience

Lecturer (School of Medicine) (2023 – Present)
The Manila Times College of Subic, Subic Bay Freeport Zone, Pampanga, Philippines

Teaching Fellow (College of Pharmacy) (2023)
University of the Philippines Manila, Manila, Philippines

Funding and Grants

Student Research Support Fund – Research Grant (2021 – 2024)
Philippine Council for Health Research and Development

Student Research Support Fund – Outright Grant (2021 – 2023)
Department of Science and Technology (DOST) - Philippine Council for Health
Research and Development

Isolation and semi-purification of active components from Philippine plants against
Candida albicans (2016 – 2017)
Department of Science and Technology (DOST), Philippines

Patent applications

Pollo, B. A. L., Tuason, R. J. G., Climacosa, F. M. M., & Caoili, S. E. C. (2025, December 23). *Anticoagulation using co-aggregating SARS-CoV-2 peptides* [Patent application]. University of the Philippines Manila Technology Transfer and Business Development Office.

Pollo, B. A. L., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2025, December 23). *Development of a complement hemolysis assay using aldehyde-modified human erythrocytes* [Patent application]. University of the Philippines Manila Technology Transfer and Business Development Office.

Pollo, B. A. L., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2025, December 23). *Antipeptide antibody recognizing cognate complement-activating nucleocapsid analogs of high-consequence coronaviruses* [Patent application]. University of the Philippines Manila Technology Transfer and Business Development Office.

Pollo, B. A. L., Ching, D. S., Idolor, M. I. C., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2025, December 23). *Diagnostic accuracy of an immunoassay using avidity-enhanced polymeric peptides for SARS-CoV-2 antibody detection* [Patent application]. University of the Philippines Manila Technology Transfer and Business Development Office.

Pollo, B. A. L., Climacosa, F. M. M., & Caoili, S. E. C. (2025, December 23). *A procoagulant peptide analog of the SARS-CoV-2 nucleocapsid C-terminal domain* [Patent application]. University of the Philippines Manila Technology Transfer and Business Development Office.

Publications

Peer-Reviewed Journal Articles

Burgo, T. A. L., & Pollo, B. A. L. (2025). Ohdo syndrome in a Filipino teen. *Case Reports in Clinical Radiology*. https://doi.org/10.25259/CRCR_90_2025

Manuscripts in Review

Burgo, T. A. L., & Pollo, B. A. L. (2025). *Association between lateral posterior tibial slope and anterior cruciate ligament injury: Cross-sectional study in a Philippine tertiary hospital* [Preprint]. Research Square. <https://doi.org/10.21203/rs.3.rs-7257742/v1>

Burgo, T. A. L., & Pollo, B. A. L. (2025). *Association between acromion morphology and non-traumatic rotator cuff injury among young adult Filipinos in a tertiary hospital: Cross-sectional study* [Preprint]. medRxiv. <https://doi.org/10.1101/2025.07.24.25332122>

Pollo, B. A. L., Ching, D. S., Idolor, M. I. C., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *Diagnostic accuracy of an immunoassay using avidity-enhanced polymeric peptides for SARS-CoV-2 antibody detection* [Preprint]. medRxiv. <https://doi.org/10.64898/2026.02.26.26343835>

Pollo, B. A. L., Perias, G. A. S., Aguimatang, R. H. B., Espiritu, A. P. N., Ching, D. S., Idolor, M. I. C., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *Computational and experimental antibody affinity quantification of SARS-CoV-2 SD2 major disulfide loop*. [Manuscript submitted for publication]. BIRTHS Laboratory, University of the Philippines Manila.

Pollo, B. A. L., Llagas, J. P. B., Aguimatang, R. H. B., Espiritu, A. P. N., Ching, D. S., Idolor, M. I. C., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *Development and accuracy determination of a peptide diagnostic based on the N-terminal ectodomain of the membrane glycoprotein*. [Manuscript submitted for publication]. BIRTHS Laboratory, University of the Philippines Manila.

Pollo, B. A. L., Tuason, R. J. G., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *Anticoagulation using co-aggregating SARS-CoV-2 peptides*. [Manuscript submitted for publication]. BIRTHS Laboratory, University of the Philippines Manila.

Pollo, B. A. L., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *A procoagulant peptide analog of the SARS-CoV-2 nucleocapsid C-terminal domain*. [Manuscript submitted for publication]. BIRTHS Laboratory, University of the Philippines Manila.

Pollo, B. A. L., King, R. A. N., Climacosa, F. M. M., & Caoili, S. E. C. (2026). *Development of a complement hemolysis assay using aldehyde-modified human erythrocytes*.

[Manuscript submitted for publication]. BIRTHS Laboratory, University of the Philippines Manila.

Research Project Participation

Pollo, B. A. L. (17 November 2022). Development and functional characterization of SARS-CoV-2 synthetic peptide-based antigenic constructs (SPACs) and related immune complexes (UPMREB 2022-0492-01). University of the Philippines Manila.

Caoili, S.E.C. (11 January 2022). Vaccine Immune Response and Outcome Monitoring with Epitope Sequences (VIROMES): Application to Philippine WHO SOLIDARITY COVID-19 Vaccine Trial (UPMREB 2021-0661-01). University of the Philippines Manila.

Caoili, S.E.C. (26 January 2022). Characterization of pathogen and host factors in cases of breakthrough infection among study participants under the Solidarity Trial Vaccines Philippines (UPMREB 2021-0664-01). University of the Philippines Manila.

Doctoral Dissertation

Pollo, B. A. L. (2010). *Immunodiagnostic performance and functional characterization of SARS-CoV-2-derived synthetic peptide-based antigenic constructs (SPACs)*

[Unpublished doctoral dissertation]. Department of Biochemistry and Molecular Biology, College of Medicine, University of the Philippines Manila.

https://www.youtube.com/watch?v=ndz_Rbfqvj8

Undergraduate Thesis

Pollo, B. A. L. (2010). *Evaluation of the antiangiogenic activity of rambutan pericarp (Nephelium lappaceum Linne [Family Sapindaceae]) using chorioallantoic membrane (CAM) assay and image analysis* [Undergraduate Thesis].

<https://doi.org/10.6084/m9.figshare.29878835>

Conference Presentations and Posters

Pollo, B. A., Perias, G. A., Aguimatang, R. H., Espiritu, A. P., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2025). *Poster: Computational and Experimental Antibody Affinity Quantification of SARS-CoV-2 SD2 Major Disulfide Loop* (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.30281620.v1>

Pollo, B. A., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Diagnostic Accuracy of an Immunoassay Using Avidity-Enhanced Polymeric Peptides for SARS-CoV-2 Antibody Detection* (Version 1). figshare.

<https://doi.org/10.6084/m9.figshare.31669459.v1>

Pollo, B. A., Ching, D., Idolor, M. I. C., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Diagnostic Accuracy of an Immunoassay Using Avidity-Enhanced Polymeric Peptides for SARS-CoV-2 Antibody Detection* [Presentation for the 27th University of the Philippines College of Medicine Student Research Forum] (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31451023.v1>

Pollo, B. A., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Leveraging Homomultivalent Epitope Presentation for Enhanced Diagnostic Accuracy* [Presented at the PCHRD Scholars' Society] (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31343929.v1>

Pollo, B. A., Perias, G. A., Aguimatang, R. H., Espiritu, A. P., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *In silico and In vitro Antibody Affinity Quantification: SARS-CoV-2 SD2 Major Disulfide Loop (SD2MDL) B-cell Epitope Analysis* (initially presented at the 25th University of the Philippines Manila Science and Technology Week) (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042498.v1>

Pollo, B. A., Ching, D. S., Idolor, M. I. C., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Diagnostic Accuracy of an Avidity-Enhanced COVID-19 Peptide Immunoassay: Performance Analysis of the S559 Peptide Analog* (presented at the 25th UP Manila S&T Week) (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042480.v1>

Pollo, B. A., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Human Erythrocyte-Based Hemolysis Assay: A Non-Animal Alternative for Quantifying Complement System Pathway Activity* (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042546.v1>

Pollo, B. A., Llagas, J. P., Aguimatang, R. H., Espiritu, A. P., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Development and Validation of a Peptide Diagnostic Assay Derived from the SARS-CoV-2 Membrane Glycoprotein (M Protein)* (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042516.v1>

Pollo, B. A., Climacosa, F. M., & Caoili, S. E. (2026). *Procoagulant Activity of a SARS-CoV-2 Nucleocapsid C-Terminal Domain Analog in Factor-Deficient Plasma* (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042603.v1>

Pollo, B. A., King, R. A., Climacosa, F. M., & Caoili, S. E. (2026). *Targeting the Complement-Activating Segment of Pathogenic Coronaviruses: Antipeptide Antibody Abrogation of Immune Adherence Hemagglutination (IAHA)* (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042567.v1>

Pollo, B. A., Tuason, R. J., Climacosa, F. M., & Caoili, S. E. (2026). *Tunable Anticoagulation via Co-Aggregating SARS-CoV-2 Peptides* (presented at the 25th UP-PGH S&T Week) (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.31042582.v1>

Pollo, B. A., Llagas, J. P., Espiritu, A. P., Aguimatang, R. H., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2025). Poster Presentation: *Development and Accuracy Determination of a Peptide Diagnostic Based on the N-terminal Ectodomain of the SARS-CoV-2 Membrane Glycoprotein* [Faculty Research Forum] (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.30276484.v1>

Pollo, B. A., Perias, G. A., Aguimatang, R. H., Espiritu, A. P., Ching, D., Idolor, M. I., King, R. A., Climacosa, F. M., & Caoili, S. E. (2025). Poster: *Computational and Experimental Antibody Affinity Quantification of SARS-CoV-2 SD2 Major Disulfide Loop* [Faculty Research Forum] (Version 1). figshare. <https://doi.org/10.6084/m9.figshare.30281620.v1>

Pollo, B. A. L., & Yu, G. F. B. (2025, August). *Isolation and semi-purification of active components from Philippine plants against Candida albicans* [Poster presentation]. 26th FAOBMB Conference with ConBio2017. <https://doi.org/10.6084/m9.figshare.29860490>

Protocols

Pollo, B. A. L. (2025). *Enzyme-linked immunosorbent assay using the SARS-CoV-2 membrane glycoprotein analog M1s (sequence: ac-CTITVEELKKLLEQC-am) for detection of cognate COVID-19 antibodies as performed on high binding plates v1*. protocols.io. <https://doi.org/10.17504/protocols.io.36wgqpezyvk5/v1>

Pollo, B. A. L. (2025). *Conjugation of synthetic peptides with 2,4,6-trinitrobenzenesulfonic acid (TNBS) v1*. protocols.io. <https://doi.org/10.17504/protocols.io.8epv5kjmjv1b/v1>

Pollo, B. A. L. (2025). *Phytochemical Screening v1*. protocols.io. <https://doi.org/10.17504/protocols.io.bp216zb85gqe/v1>

Instructional Materials

Available via Merlot
(<https://merlot.org/merlot/materials.htm?contributorUserId=1491634>)

Awards

Finalist, PCHRD Scholars' Society (PSS) Research Competition, 2026.
<https://doi.org/10.6084/m9.figshare.31669459>

Best Oral Presentation, 27th UP College of Medicine Student Research Forum, 2026.
<https://doi.org/10.6084/m9.figshare.31451023>

Selected oral presenter, Poster Competition, 37th UP College of Medicine Faculty Research Forum, 2026.

- <https://doi.org/10.6084/m9.figshare.30281620>
- <https://doi.org/10.6084/m9.figshare.30276484>

Most outstanding student, Medicine 250, Department of Medicine, UP-PGH, 2018-2019.

Outstanding student, FCH 250, Department of Family and Community Medicine, UP-PGH, 2018-2019.

Training and Certifications

Redacted certificates available at my account on Open Science Framework (<https://osf.io/yd47q/files>)

Academic & Professional Development Courses

Bandalaria, M. D. P. (2025, Oct 01). *Blended teaching and learning using OERs* [Massive Open Distance eLearning Course]. University of the Philippines Open University.

Elsevier Researcher Academy. (2025, Aug 31). *How to prepare your manuscript* [Course completion certificate]. Elsevier.

Flores, J. M., Peeters, B. M., & Guinto, S. M. (2025, Aug 19). *Introduction to permaculture: The ethics of permaculture and design principles* [Massive Open Distance eLearning Course]. University of the Philippines Open University.

Javier, J. S., Sumpaico, C. E. J., Dizon, D. A. G., & Dela Rosa, T. L. (2020, Oct 16). *OrthoRoCKs online course* [Certificate of attendance]. UP-PGH Department of Orthopedics.

Taylan, F. F. (2025, Sep 13). *Gender sensitivity training* [Massive Open Distance eLearning Course]. University of the Philippines Open University.

Wiley Researcher Academy. (2025, Aug 31). *A complete guide to the key components of a research article* [Course completion certificate]. Wiley.

Conference Participation & Academic Forums

De Guzman, M. L. R. E. (2025, Aug 08). *Mental health in the Philippines: A national framework for mental health surveys and the Philippine national survey for mental health and well-being (NSMHW)* [BF Fulgencio and CV Fulgencio Professorial Chair Lecture]. UPCM PGH Department of Psychiatry and Behavioral Medicine.

Orejola, J. J., & Capule, F. R. (2023, Sep 14). *Advancing healthcare in the Philippines through pharmaceutical research* [2023 UPCP Faculty Research Forum]. University of the Philippines College of Pharmacy.

Tochev, S. (2025, Oct 13-15). *The 4th International Electronic Conference on Metabolomics (IECM2025)* [Certificate of participation]. MDPI.

Tochev, S. (2025, Sep 16-18). *The 2nd International Online Conference on Biomimetics (IOCB 2025)* [Certificate of participation]. MDPI.

Tochev, S. (2025, Sep 09-11). *The 1st International Online Conference on Diseases (IOCD 2025)* [Certificate of participation]. MDPI.

Tochev, S. (2025, October 13–14). *The 1st International Online Conference by Antibodies (IOCAB 2025)* [Conference session]. MDPI.

Tochev, S. (2025, October 15–17). *The 1st International Online Conference on Separations (IOCS 2025)* [Conference session]. MDPI.

Tochev, S. (2025, October 28–30). *The 6th International Electronic Conference on Foods (Foods 2025)* [Conference session]. MDPI.

Tochev, S. (2025, October 29–31). *The 1st International Online Conference on Personalized Medicine (IOCPM 2025)* [Conference session]. MDPI.

Tochev, S. (2025, November 1–30). *The 1st International Electronic Conference on Medicinal Chemistry and Pharmaceuticals (ECMC-P 2025)* [Conference session]. MDPI.

Tochev, S. (2025, November 17–19). *The 3rd International Online Conference on Clinical Medicine (IOCCM 2025)* [Conference session]. MDPI.

Tochev, S. (2025, November 19–21). *The 3rd International Online Conference on Polymer Science (IOCPS 2025)* [Conference session]. MDPI.

Tochev, S. (2026, February 10–12). *The 1st International Online Conference on Biology (IOCBI 2026)* [Conference session]. MDPI.

Creative Works

Books (available at <https://www.amazon.com/s?k=brian+pollo>)

Pollo, B. A. L. (2025). *Biographies in Blood: The makings of medical modernity and asian medical innovators*. Sandiwà Press. [ISBN: 9798232662691]

Pollo, B. A. L. (2025). *Phonies*. Sandiwà Press. [ISBN: 979-8266200371]

Pollo, B. A. L. (2025). *Currents of Protection: Coagulation, Complement, and Neutrophils*. Sandiwà Press. [ISBN: 979-8265883889]

Pollo, B. A. L. (2025). *Resistance Rising: Genetics, evolution, and the future of infectious disease*. Sandiwà Press. [ISBN: 979-8266123465]

Pollo, B. A. L. (2025). *Salinlunas: Natural Products & Pharmacognosy*. Sandiwà Press. [ISBN: 979-8265696946]

Pollo, B. A. L. (2025). *Hiyang: Pilipinong Pananaw ng Parmakohenetika*. Sandiwà Press. [ISBN: 979-8265566799]

Essays

Available at Substack

(https://substack.com/search/Brian%20Pollo?searching=all_posts)

Poetic Works

Available at Humanities Commons

(<https://works.hcommons.org/search?q=brian%20pollo>)