

Yanping Gong, MD, PhD, FRCPC, DABP

Dept. Pathology and Molecular Medicine
Queen's University
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HIGHLIGHT OF PROFESSIONAL EXPERIENCE

Nov 2018 - Present	Attending Pathologist (Head/neck, Soft tissue/bone, Gastrointestinal, and Perinatal pathology), Dept. Pathology and Molecular Medicine, Kingston Health Sciences Centre, Kingston, Ontario
Nov 2018 - Present	Laboratory Director and Clinical Chemist, Providence Care Hospital, Lennox & Addington County General Hospital, and Perth & Smiths Falls District Hospital, Ontario
Sep 2010 - Jan 2014	Chief, Biochemistry Division, Dept. of Laboratory Medicine, Children's Hospital of Eastern Ontario, Ottawa, Ontario
Jul 2008 - Sep 2010	Clinical Chemist, Dept. of Laboratory Medicine, Pathology and Medical Genetics, Vancouver Island Health Authority, Victoria, British Columbia

ACADEMIC APPOINTMENTS

Nov 2018 - Present	Assistant professor, Dept. Pathology and Molecular Medicine, Queen's University
Sep 2010 - Jan 2014	Assistant professor, Dept. Pathology and Laboratory Medicine, University of Ottawa
Jul 2010 - Sep 2010	Clinical instructor, Dept. Pathology and Laboratory Medicine, University of British Columbia

HOSPITAL PRIVILEGES

2018 - Present	Attending Medical Staff at Kingston Health Sciences Centre, Providence Care Hospital, Lennox & Addington County General Hospital, Perth & Smiths Falls District Hospital, and Brockville General Hospital
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BOARD CERTIFICATION

Nov 2018 - Present	General Pathology, Royal College of Physicians and Surgeons of Canada
Oct 2018 - Present	Anatomical pathology and Clinical pathology, American Board of Pathology
Dec 2013 - Present	Licentiate of the Medical Council of Canada (LMCC) certificate
Jul 2010 - Present	Toxicological Chemistry, American Board of Clinical Chemistry
Feb 2009 - Present	Clinical Chemistry, American Board of Clinical Chemistry

Jul 2009 - Present Clinical Biochemistry, Canadian Academy of Clinical Biochemistry

LICENSURE

2017-present	State Medical Board of Ohio, 35.132077
2017-2021	Florida medical license, ME131687, voluntarily relinquished in 2021
2018-present	College of Physicians and Surgeons of Ontario, 117090

EXTRAMURAL APPOINTMENTS

2022 - Present Examination Board member, General Pathology, Royal College of Physicians and Surgeons of Canada

LEADERSHIP AND SERVICE

Leadership positions

2022 - Present	Laboratory Director, The Perth and Smiths Falls District Hospital, Ontario
2020 - Present	Laboratory Director, Lennox & Addington County General Hospital, Ontario
2018 - Present	Laboratory Director, Providence Care Hospital, Ontario
Sep 2010 - Jan 2014	Chief, Biochemistry Division, Dept. of Laboratory Medicine, Children's Hospital of Eastern Ontario

Committee and Service Contributions

International

2011 - 2014	International Federation of Clinical Chemistry and Laboratory Medicine, Working Group - cMSP Clinical Quantitative Mass Spectrometer Proteomics
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National

2011 Organizing Committee, Canadian Society of Clinical Chemists Annual meeting

Institutional

2024 - Present	Dept. Practice Plan Finance Committee
2022 - 2024	Dept. Champion/Subject Matter Expert, Lumeo Regional Health Information System
2021 - 2022	Dept. Reappointment, Tenure and Promotion Committee
2018 - Present	Medical Quality Assurance Committee, Perth & Smiths Falls District Hospital
2018 - Present	Medical Advisory Committee, Perth & Smiths Falls District Hospital, ad hoc member

2018 - Present	Medical Advisory Committee, Providence Care Hospital, ad hoc member
2018 - Present	Medical Advisory Committee, Lennox & Addington County General Hospital, ad hoc member

PROFESSIONAL MEMBERSHIP

2018 - Present	Royal College of Physicians and Surgeons of Canada
2018 - Present	College of American Pathologist
2010 - Present	Canadian Academy of Clinical Biochemistry
2009 - Present	National Academy of Clinical Biochemistry (U.S.A)
2010 - Present	American Society for Clinical Pathology
2007 - Present	American Association for Clinical Chemistry
2007 - Present	Canadian Society of Clinical Chemists

EDUCATION AND TRAINING

Jan 2014 - Nov 2018	Resident, General Pathology, Department of Pathology and Laboratory Medicine, University of Saskatchewan
Jul 2006 - Jun 2008	Clinical Chemistry postdoctoral fellow Dept. of Laboratory Medicine and Pathobiology, University of Toronto
Mar 2003 - Jun 2006	Postdoctoral research fellow Dept. of Laboratory Medicine & Pathobiology, University of Toronto
Feb 2000 - Feb 2002	Postdoctoral research fellow Dept. of Pharmacology and Molecular Sciences, School of Medicine, Johns Hopkins University
Sep 1996 - Jun 2003	MSc and Ph.D. Degrees in Neuroscience/Neurology, Hebei Medical University, China
Aug 1994 - Jul 1996	Residency, Hebei General Hospital, Hebei Medical University, China
Sep 1989 - Jun 1994	School of Medicine, Hebei Medical University, China. Sep/1992-Jun/1994, general internship

TEACHING AND MENTORSHIP

Postgraduate medical education

2025 - Present	Course coordinator, Principles of Laboratory Management and Leadership, Diagnostic and molecular pathology residency program, Queen's University
2024 - Present	Rotation coordinator, soft tissue and bone, Diagnostic and molecular pathology residency program, Queen's University
2018 - Present	Actively involved in teaching in the anatomical pathology residency

	program, with over 20 residents, Queen's University
2018 - Present	Multiple teaching sessions for Medical Oncology, Radiation Oncology, Endocrine, and Gastrointestinal residency or fellowship programs, with over 20 trainees, Queen's University

Graduate Level

2023	MSc thesis defense committee, Yasmeen Choudhri, Queen's University
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Medical School

2025	MEDS432 - School of Medicine, MD MMI review
2021	MEDS432 - School of Medicine, MD MMI review
2020	Facilitated Small Group Learning (FSGL) Sessions 1 to 12 - School of Medicine
2020	MEDS432 - School of Medicine, MD MMI review
2020	Admissions file review - School of Medicine

Undergraduate

2024	HSCI 592 Course, Dhruv Shah, Queen's University
2023	Health Sciences student, Queen's University, Agnes Chan (First author of one research articles)
2023	Health Sciences student, Queen's University, Serena Sengupta
2022	Health Sciences student, Queen's University, Kathryn Macrae (First author of two research articles)
2022	Health Sciences student, Queen's University, Kristin Bessai (Co-author of one research article)
2013	BCH 4123 - Pathological Chemistry, University of Ottawa
2012	BCH 4123 - Pathological Chemistry, University of Ottawa

RESEARCH AND SCHOLARSHIP

Research grants

Period	Project title	Funding agency	Role	Amount (CAN\$)
2022 - 2025	A Multicentric <i>Collaboration</i> to Evaluate <i>Quantitative</i> Assays for SARS-CoV-2 and Determine Humoral and Cellular Immunity (CONQUER): Immunosuppressant Cohort	Southeastern Ontario Academic Medical Organization Innovation Fund	PI	\$98,000/2 years
2021 - 2023	A Multicentric <i>Collaboration</i> to Evaluate <i>Quantitative</i> Assays for SARS-CoV-2 and Determine Humoral and Cellular Immunity (CONQUER)	PSI Foundation	PI	\$180,000/2 years

2020 - 2023	An Assessment of Serologic Evidence of COVID-19, Social and Occupational Contacts in Health Care Workers in a Sample of Long-Term Care and Acute Care Facilities in South Eastern Ontario	PSI Foundation	Co-PI	\$196,000/2 years
2011 - 2015	Closing the Gaps in Pediatric Reference Intervals	CIHR operating grant	Co-investigator	\$789,732/4 years
2011 - 2012	Canadian Laboratory Initiative on Pediatric Reference Interval Database	Academic Enrichment fund, University of Ottawa	Co-PI	\$15,000/2 years

Publications (* denotes corresponding author)

- Martinez-Cajas J, Alvarado B, Jolly, A, **Gong Y**, Stoner B, Guan H. SCORE: Serologic Evidence of COVID-19, and Social, and Occupational Contacts in Healthcare Workers in Long-Term Care and Acute Care Facilities in Southeastern Ontario (SCORE). Accepted PLOS One, 2025 July.
- Martinez-Cajas J, Perez-Patrigeon S, Evans G, Stoner B, Jolly A, Alvarado B, Guan H, **Gong Y**. Anti-SARS CoV-2 Antibody Levels in a Cohort of Health Care Workers Before and After the Omicron Wave in Canada. Journal of the Association of Medical Microbiology and Infectious Disease Canada, June 2025; 10(2). <https://doi.org/10.3138/jammi-2024-0029>
- Martinez-Cajas, J.L., Jolly, A., **Gong, Y.**, Evans G., Stoner B., Jolly A., Guan H., Alvarado B. Risk of SARS-CoV-2 infection before and after the Omicron wave in a cohort of healthcare workers in Ontario, Canada. BMC Infect Dis 25, 183 (2025). <https://doi.org/10.1186/s12879-025-10580-8>
- Chan A, Martinez-Cajas J, Yip PM, Kulasingam V, Garland J, Holland D, Khaled Shamseddin M, **Gong Y***. Evaluation and Comparison of Four Quantitative SARS-CoV-2 Serological Assays in COVID-19 Patients and Immunized Healthy Individuals, Cancer Patients, and Patients with Immunosuppressive Therapy. Clinical Biochemistry 116 (2023) 1–6. DOI: [10.1016/j.clinbiochem.2023.02.010](https://doi.org/10.1016/j.clinbiochem.2023.02.010)
- Macrae K, Martinez-Cajas J, Bessai K, Abdulhamed A, **Gong Y***. Quantitative Analysis of SARS-CoV-2 Antibody Levels in Cancer Patients Post Three Doses of Immunization and Prior to Breakthrough COVID-19 Infections. Current Oncology. 2022; 29(10):7059-7071. <https://doi.org/10.3390/curroncol29100554>
- Macrae K, Gong CY, Sheth P, Martinez-Cajas J, **Gong Y***. Quantitative Analysis of SARS-CoV-2 Serological Responses Post Three Doses of Immunization and Prior to Breakthrough COVID-19 Infections. Vaccines. 2022; 10(10):1590. <https://doi.org/10.3390/vaccines10101590>
- Robinson R, Mazurek A, Xu M, and **Gong Y***. Quantitative Analysis of SARS-CoV-2 Antibody Status between Patients with Cancer and Healthy Individuals with Extended Vaccination Dosing Intervals in Canada. Curr. Oncol. 2022, 29(1), 68-76; <https://doi.org/10.3390/curroncol29010006>
- Yang X, Liu L, Hao Y; So YW; Emami S, Zhang D, **Gong Y**, Sheth P, Wang Y. A Bioluminescent Biosensor for Quantifying the Interaction of SARS-CoV-2 and Its Receptor ACE2 in Cells and In Vitro. Viruses 2021, 13(6), 1055; <https://doi.org/10.3390/v13061055>

9. Bailey D, Konforte D, Barakauskas VE, Yip P, Kulasingam V, Abouelhassan M, Beach L, Blasutig IM, Catomeris P, Dooley KC, **Gong Y**, Kavsak P, Randell EW, Robinson JL, Shaw J, Taher J, White-Al Habeeb N. Canadian Society of Clinical Chemists (CSCC) Interim Consensus Guidance for Testing and Reporting of SARS-CoV-2 Serology. Clin Biochem. 2020 Oct 5;S0009-9120(20)30844-4. [doi: 10.1016/j.clinbiochem.2020.09.005](https://doi.org/10.1016/j.clinbiochem.2020.09.005)
10. Bailey D, Konforte D, Barakauskas VE, Yip P, Kulasingam V, Yip PM, Beach L, Blasutig I, Catomeris, DeMarco ML, **Gong Y**, Kavsak PA, Randell E, Shaw J, Taher J, White-Al Habeeb N. 5 authorship groups. SARS-CoV-2 (COVID-19) serology: implications for clinical practice, laboratory medicine and public health. CMAJ August 24, 2020 192 (34) E973-E979; DOI: <https://doi.org/10.1503/cmaj.201588>
11. Expert reviewer Health Quality Ontario (HQO): ONTARIO HEALTH TECHNOLOGY ASSESSMENT SERIES Gene Expression Profiling Tests for Early-Stage Invasive Breast Cancer, 2020, Journal Ontario Health Technology Assessment Series, Volume 20, Number 10. [PMID: 32284770](https://pubmed.ncbi.nlm.nih.gov/32284770/)
12. Expert reviewer Health Quality Ontario (HQO): ONTARIO HEALTH TECHNOLOGY ASSESSMENT SERIES Cell-Free Circulating Tumour DNA Blood Testing to Detect EGFR T790M Mutation in People With Advanced Non-Small Cell Lung Cancer: A Health Technology Assessment, 2020, Journal Ontario Health Technology Assessment Series, Volume 20, Number 5. [PMID: 32206157](https://pubmed.ncbi.nlm.nih.gov/32206157/)
13. **Gong Y**, and Adeli K. A national survey on pediatric critical values used in clinical laboratories across Canada. Clinical Biochemistry. 2009 Nov;42(16-17):1610-5.
14. Schnabl K, Chan MK, **Gong Y**, Adeli K. Closing the gaps in paediatric reference intervals: the CALIPER initiative. Clin Biochem Rev. 2008 Aug;29(3):89-96.
15. **Gong Y** and Hoffman BR. Free thyroxine reference range in each trimester of pregnancy for the Roche Modular E-170 method. Clin Biochem. 2008 Jul;41(10-11):902-6.
16. Arvanitis DN, Min W, **Gong Y**, Boggs JM. Two types of detergent-insoluble glycosphingolipid/cholesterol-rich membrane domains in isolated myelin. J Neurochem. 2005 Sep; 94(6): 1696-1710.
17. Boggs JM, Wang H, Gao W, Arvanitis DN, **Gong Y**, Min W. A glycosynapse in myelin? Glycoconj J. 2004;21(3-4):97-110.
18. Sheikh KA, Zhang G, **Gong Y**, Schnaar RL, Griffin JW. An anti-ganglioside antibody-secreting hybridoma induces neuropathy in mice. Ann Neurol. 2004 Aug;56(2):228-239.
19. **Gong Y**, Tagawa Y, Lunn MP, Laroy W, Heffer-Laue M, Li CY, Griffin JW, Schnaar RL, Sheikh KA. Localization of major gangliosides in the PNS: implications for immune neuropathies. Brain. 2002 Nov;125(11):2491-2506 (figures from this paper were chosen for the cover of the issue that contained the paper).

20. Schnaar RL, Fromholt SE, **Gong Y**, Vyas AA, Laroy W, Wayman DM, Heffer-Lauc M, Ito H, Ishida H, Kiso M, Griffin JW, Shiekh KA. Immunoglobulin G-class mouse monoclonal antibodies to major brain gangliosides. *Anal Biochem.* 2002 Mar 15;302(2):276-84.

Selected abstracts and conference presentations

1. Chan A, Martinez-Cajas J, Shamseddin MK, Robinson AG, **Gong, Y**. A Multicentric Collaboration to Evaluate Quantitative Assays for SARS-CoV-2 & Determine Humoral and Cellular Immunity. IFPOC (The Innovation Fund Provincial Oversight Committee) Innovation Fund Showcase 2023, Toronto.
2. Chan A, Abdulhamed A, Shamseddin MK, Martinez-Cajas J, Shahmoradi-Zavareh, A, Garland J, Holland D and **Gong Y**. Vaccine-mediated humoral immune responses post primary and two booster doses in renal transplant patients with correlation to subsequent breakthrough COVID-19 infections: a prospective cohort study. Canadian Association of Pathologist Annual Scientific Meeting 2023.
3. **Gong Y**, Quenneville L, and Rees H. A retrospective review of the diagnosis of papillary lesions of the breast – the Saskatoon experience. Oral presentation, Canadian Association of Pathologist Annual Scientific Meeting, 2018.
1. McCudden C. R, Henderson M. P, **Gong Y**, Bookalam S, S. Perkins. Design of experiments for determination of HDL-Cholesterol Stability. *Clin Chem*, 2013 Jul; 59 (10, Supplement) A246
2. **Gong Y**, Berry B, Hoag G. Significant amounts of free light chains may not be demonstrated or be considerably underestimated by serum protein electrophoresis. *Am J Clin Pathol* 2010;134 (Supplement):12.
3. **Gong Y**, Ball G, and Hoag G. Routine ultra-fast liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of immunosuppressants. *Clin Chem*, 2010 Jun; 56(6, Supplement) A231.
4. **Gong Y**, Adeli K. National survey on pediatric critical values used in Biochemistry laboratories in Canada. *Clin Chem*, 2009 Jun; 55(6, Supplement) A237.
5. **Gong Y**, Wan B, Walsh W, Verjee Z, and Adeli K. Routine simultaneous measurement of 25-hydroxyvitamin D2 and D3 by isotope-dilution liquid chromatography-tandem mass spectrometry assay. *Clin Chem*, 2008 Oct; 41 (14-15): 1268.
6. **Gong Y**, Rapson LM and Vieth R. Chronic pain as a sign of a higher vitamin D requirement. 2008 AACC (American Association for Clinical Chemistry) Annual meeting, Nutrition Division Best Poster Award.
7. **Gong Y** and Hoffman BR. Free thyroxine reference range in each trimester of pregnancy for the Roche Modular E-170 method. 51st Annual Meeting of Canadian Society of Clinical Chemists, Toronto, ON. June 2007: Poster presentation.
8. Boggs JM, Arvanitis DN, Min W, **Gong Y**. Two types of low density detergent-insoluble membrane domains from myelin. *J Neurochem*, 94 (S1): 48 2005
9. Boggs JM, Wang H, Gao W, Arvanitis DN, **Gong Y**, Min W. A glycosynapse in myelin? *Glycoconj J.* 2004;21(3-4):97-110.

10. **Gong Y**, Min, Y, Boggs J M. Myelin lipid rafts transmit signals following transinteraction with sulfatide. *J Neurochem*, 90 (S1):5 2004.
11. **Gong Y**, Tagawa Y, Lunn MP, Laroy W, Heffer-Laue M, Li CY, Griffin JW, Schnaar RL, Sheikh KA. Localization of major gangliosides in the PNS: implications for immune neuropathies. *Brain*. 2002 Nov;125(11):2491-2506