

BIOGRAPHICAL SKETCH

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NAME: Gong, Li

eRA COMMONS USER NAME (credential, e.g., agency login): gong.li

POSITION TITLE: Scientific Curator/Research Scientist/Program Manager

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
Peking University	BS	06/1992	Microbiology
Tufts School of Medicine	PHD	06/2000	Molecular Biology and Microbiology

A. Personal Statement

I am the program manager and senior scientific curator for ClinPGx, and a coordinator for the ClinGen Pharmacogenomics Interpretation Committee. My research interests focus on integrating pharmacogenomics knowledge into clinical applications to ultimately improve patient care and developing standards and frameworks for assessing gene-drug response clinical validity, actionability and the clinical significance of pharmacogenomic variants. My recent works involves building the knowledge content of pharmacogenomics knowledge base, writing clinical pharmacogenomic dosing guideline (CPIC) as well as coordinating efforts by the ClinGen's Pharmacogenomics Interpretation committee and multiple large international pharmacogenomics research consortia.

1. Gong L, Klein CJ, Caudle KE, Moyer AM, Scott SA, Whirl-Carrillo M, Klein TE. Integrating Pharmacogenomics into the Broader Construct of Genomic Medicine: Efforts by the ClinGen Pharmacogenomics Working Group (PGxWG). Clin Chem. 2025 Jan 3;71(1):36-44. PubMed Central PMCID: PMC12037359.

B. Positions, Scientific Appointments and Honors**Positions and Scientific Appointments**

- 2007 - Scientific Curator/Research Scientist/Program Manager, ClinPGx/PharmGKB, Stanford University
- 2001 - 2006 Senior Scientist, Iconix Biosciences, Mountain View, CA

C. Contribution to Science

1. Contributed to clinical pharmacogenetic drug dosing guideline development.
 - a. Theken KN, Lee CR, Gong L, Caudle KE, Formea CM, Gaedigk A, Klein TE, Agúndez JAG, Grosser T. Clinical Pharmacogenetics Implementation Consortium Guideline (CPIC) for CYP2C9 and Nonsteroidal Anti-Inflammatory Drugs. Clin Pharmacol Ther. 2020 Aug;108(2):191-200. PubMed Central PMCID: PMC8080882.
 - b. Ramsey LB, Johnson SG, Caudle KE, Haidar CE, Voora D, Wilke RA, Maxwell WD, McLeod HL, Krauss RM, Roden DM, Feng Q, Cooper-DeHoff RM, Gong L, Klein TE, Wadelius M, Niemi M. The clinical pharmacogenetics implementation consortium guideline for SLCO1B1 and simvastatin-induced myopathy: 2014 update. Clin Pharmacol Ther. 2014 Oct;96(4):423-8. PubMed Central PMCID: PMC4169720.
 - c. Caudle KE, Klein TE, Hoffman JM, Muller DJ, Whirl-Carrillo M, Gong L, McDonagh EM, Sangkuhl K, Thorn CF, Schwab M, Agundez JA, Freimuth RR, Huser V, Lee MT, Iwuchukwu OF, Crews KR,

Scott SA, Wadelius M, Swen JJ, Tyndale RF, Stein CM, Roden D, Relling MV, Williams MS, Johnson SG. Incorporation of pharmacogenomics into routine clinical practice: the Clinical Pharmacogenetics Implementation Consortium (CPIC) guideline development process. *Curr Drug Metab*. 2014 Feb;15(2):209-17. PubMed Central PMCID: PMC3977533.

- d. Johnson JA, Gong L, Whirl-Carrillo M, Gage BF, Scott SA, Stein CM, Anderson JL, Kimmel SE, Lee MT, Pirmohamed M, Wadelius M, Klein TE, Altman RB. Clinical Pharmacogenetics Implementation Consortium Guidelines for CYP2C9 and VKORC1 genotypes and warfarin dosing. *Clin Pharmacol Ther*. 2011 Oct;90(4):625-9. PubMed Central PMCID: PMC3187550.
2. Contributed to PharmGKB (www.pharmgkb.org) knowledgebase development, literature curation, tool and interface development.
 - a. Whirl-Carrillo M, Huddart R, Gong L, Sangkuhl K, Thorn CF, Whaley R, Klein TE. An Evidence-Based Framework for Evaluating Pharmacogenomics Knowledge for Personalized Medicine. *Clin Pharmacol Ther*. 2021 Sep;110(3):563-572. PubMed Central PMCID: PMC8457105.
 - b. Gong L, Whirl-Carrillo M, Klein TE. PharmGKB, an Integrated Resource of Pharmacogenomic Knowledge. *Curr Protoc*. 2021 Aug;1(8):e226. PubMed Central PMCID: PMC8650697.
 - c. Whirl-Carrillo M, Sangkuhl K, Gong L, Klein TE. Novel Disease-Drug Database Demonstrating Applicability for Pharmacogenomic-Based Prescribing. *Clin Pharmacol Ther*. 2016 Dec;100(6):600-602. PubMed Central PMCID: PMC5115984.
 - d. Gong L, Owen RP, Gor W, Altman RB, Klein TE. PharmGKB: an integrated resource of pharmacogenomic data and knowledge. *Curr Protoc Bioinformatics*. 2008 Sep;Chapter 14:14.7.1-14.7.17. PubMed Central PMCID: PMC4153752.
 3. Drafted peer-reviewed pharmacogenomic gene and drug pathway summaries.
 - a. Gong L, Giacomini MM, Giacomini C, Maitland ML, Altman RB, Klein TE. PharmGKB summary: sorafenib pathways. *Pharmacogenet Genomics*. 2017 Jun;27(6):240-246. PubMed Central PMCID: PMC5418090.
 - b. Gong L, Stamer UM, Tzvetkov MV, Altman RB, Klein TE. PharmGKB summary: tramadol pathway. *Pharmacogenet Genomics*. 2014 Jul;24(7):374-80. PubMed Central PMCID: PMC4100774.
 - c. Gong L, Goswami S, Giacomini KM, Altman RB, Klein TE. Metformin pathways: pharmacokinetics and pharmacodynamics. *Pharmacogenet Genomics*. 2012 Nov;22(11):820-7. PubMed Central PMCID: PMC3651676.
 - d. Gong L, Thorn CF, Bertagnolli MM, Grosser T, Altman RB, Klein TE. Celecoxib pathways: pharmacokinetics and pharmacodynamics. *Pharmacogenet Genomics*. 2012 Apr;22(4):310-8. PubMed Central PMCID: PMC3303994.
 4. Coordinated data submission, curation, data sharing and analysis for international pharmacogenomic data consortia and clinical implementation consortia.
 - a. Verma SS, Bergmeijer TO, Gong L, Reny JL, Lewis JP, Mitchell BD, Alexopoulos D, Aradi D, Altman RB, Bleden K, Bradford Y, Campo G, Chang K, Cleator JH, Déry JP, Dridi NP, Fernandez-Cadenas I, Fontana P, Gawaz M, Geisler T, Gensini GF, Giusti B, Gurbel PA, Hochholzer W, Holmvang L, Kim EY, Kim HS, Marcucci R, Montaner J, Backman JD, Pakyz RE, Roden DM, Schaeffeler E, Schwab M, Shin JG, Siller-Matula JM, Ten Berg JM, Trenk D, Valgimigli M, Wallace J, Wen MS, Kubo M, Lee MTM, Whaley R, Winter S, Klein TE, Shuldiner AR, Ritchie MD. Genomewide Association Study of Platelet Reactivity and Cardiovascular Response in Patients Treated With Clopidogrel: A Study by the International Clopidogrel Pharmacogenomics Consortium. *Clin Pharmacol Ther*. 2020 Nov;108(5):1067-1077. PubMed Central PMCID: PMC7689744.
 - b. Friedman PN, Shaazuddin M, Gong L, Grossman RL, Harralson AF, Klein TE, Lee NH, Miller DC, Nutescu EA, O'Brien TJ, O'Donnell PH, O'Leary KJ, Tuck M, Meltzer DO, Perera MA. The ACCOuNT Consortium: A Model for the Discovery, Translation, and Implementation of Precision Medicine in African Americans. *Clin Transl Sci*. 2019 May;12(3):209-217. PubMed Central PMCID:

PMC6510376.

- c. Bergmeijer TO, Reny JL, Pakyz RE, Gong L, Lewis JP, Kim EY, Aradi D, Fernandez-Cadenas I, Horenstein RB, Lee MTM, Whaley RM, Montaner J, Gensini GF, Cleator JH, Chang K, Holmvang L, Hochholzer W, Roden DM, Winter S, Altman RB, Alexopoulos D, Kim HS, Déry JP, Gawaz M, Bliden K, Valgimigli M, Marcucci R, Campo G, Schaeffeler E, Dridi NP, Wen MS, Shin JG, Simon T, Fontana P, Giusti B, Geisler T, Kubo M, Trenk D, Siller-Matula JM, Ten Berg JM, Gurbel PA, Hulot JS, Mitchell BD, Schwab M, Ritchie MD, Klein TE, Shuldiner AR. Genome-wide and candidate gene approaches of clopidogrel efficacy using pharmacodynamic and clinical end points-Rationale and design of the International Clopidogrel Pharmacogenomics Consortium (ICPC). *Am Heart J.* 2018 Apr;198:152-159. PubMed Central PMCID: PMC5903579.
- d. Province MA, Goetz MP, Brauch H, Flockhart DA, Hebert JM, Whaley R, Suman VJ, Schroth W, Winter S, Zembutsu H, Mushiroda T, Newman WG, Lee MT, Ambrosone CB, Beckmann MW, Choi JY, Dieudonné AS, Fasching PA, Ferraldeschi R, Gong L, Haschke-Becher E, Howell A, Jordan LB, Hamann U, Kiyotani K, Krippel P, Lambrechts D, Latif A, Langsenlehner U, Lorzio W, Neven P, Nguyen AT, Park BW, Purdie CA, Quinlan P, Renner W, Schmidt M, Schwab M, Shin JG, Stingl JC, Wegman P, Wingren S, Wu AH, Ziv E, Zirpoli G, Thompson AM, Jordan VC, Nakamura Y, Altman RB, Ames MM, Weinshilboum RM, Eichelbaum M, Ingle JN, Klein TE. CYP2D6 genotype and adjuvant tamoxifen: meta-analysis of heterogeneous study populations. *Clin Pharmacol Ther.* 2014 Feb;95(2):216-27. PubMed Central PMCID: PMC3904554.
5. Coordinated efforts to develop frameworks for evaluating gene-drug response clinical validity and actionability to facilitate the critical inclusion of PGx into the larger context of genomic medicine.
 - a. Gong L, Klein CJ, Caudle KE, Moyer AM, Scott SA, Whirl-Carrillo M, Klein TE. Integrating Pharmacogenomics into the Broader Construct of Genomic Medicine: Efforts by the ClinGen Pharmacogenomics Working Group (PGxWG). *Clin Chem.* 2025 Jan 3;71(1):36-44. PubMed Central PMCID: PMC12037359.