

Personal Information



Natini Jinawath

Address: Ramathibodi Hospital

Country: Thailand

Curriculum Vitae

Education and Training

- 2011: DABMG; Diplomate, American Board of Medical Genetics and Genomics (Clinical Cytogenetics)
- 2010: Clinical cytogenetics fellowship, Institute of Genetic Medicine, Johns Hopkins Medical Institution, Baltimore, USA
- 2008: Postdoctoral fellowship (GYN cancer genetics and genomics), Department of Pathology, Johns Hopkins Medical Institution, Baltimore, USA
- 2006: Ph.D. (Molecular Pathology), Institute of Medical Science, The University of Tokyo, Tokyo, Japan
- 1999: M.D. (2nd class honors) Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

Research and Professional Experience

- 2016 - now: Principal investigator, Research University Network (RUN) Grant
- 2015 - now: Principal investigator, Crown Property Bureau (CPB) Research Grant
- 2014 - now: Principal investigator, National Research Council of Thailand (NRCT) - Mahidol University Research Grant
- 2014 - now: Principal investigator, Thailand Research Fund (TRF) Research Career Development Grant No. RSA5780065
- 2014 - now: Director, Ramathibodi Tumor Biobank, Ramathibodi Cancer Center, Faculty of Medicine Ramathibodi Hospital, Mahidol University
- 2013 - now: Secretary, Translational Medicine PhD Program, Faculty of Medicine Ramathibodi Hospital, Mahidol University

- 2011- now: Secretary, Ramathibodi Cancer Center, Faculty of Medicine Ramathibodi Hospital, Mahidol University
- 2011- now: Member, Integrative Computational BioScience Center (ICBS), Mahidol University
- 2011 - 2014: Principal investigator, Thailand Research Fund (TRF) - Commission on Higher Education (CHE) Research Grant for New Scholar No.MRG5480183
- 2008 - now: Lecturer, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- 2002 - 2006: Research Assistant, The University of Tokyo, Tokyo, Japan
- 1999 - 2001 Internship in Family Medicine, Nan Provincial Hospital, Nan, Thailand

Awards

- 2015 - 2018: Ananda Mahidol medical scholar fellowship, Ananda Mahidol Foundation, Thailand
- 2014: The 73rd Annual Meeting of the Japanese Cancer Association (JCA) travel grant awardee
- 2013: Ingenuity System Prize, Rare Disease Science Challenge: Be HEARD Awards (organized by Assay Depot and Rare Genomics Institute, USA)
- 2012 - 2015: Ananda Mahidol medical scholar fellowship, Ananda Mahidol Foundation, Thailand
- 2011: The L'Oréal-UNESCO For Women in Science Fellowship, (Life Science), Thailand
- 2010: American Cytogenetics Conference postdoctoral travel awardee
- 2007- 2008 HERA foundation grant for ovarian cancer research awardee (OSB1 seed grant), USA
- 2006: American Association for Cancer Research (AACR)-ITOEN Scholar-in-training awardee
- 2005: AACR-ITOEN Scholar-in-training awardee
- 2001 - 2006: Japanese Government "Monbukagakusho" Scholarship

Memberships

- 2015-now: Member, Board of Director, Genetics Society of Thailand
- 2011-now: American Board of Medical Genetics and Genomics (ABMGG)
- 2008-now: The American Society of Human Genetics (ASHG)
- 2004-2008: The American Association for Cancer Research (AACR)
- 2001-2006: The Japanese Cancer Association (JCA)
- 1999-now: The Medical Council of Thailand

Invited Speaker, oral presentation, poster presentation

Oct 2010	My1Bio Conference 2010, Kuala Lumpur, Malaysia (invited speaker)
Mar 2011	The 39th Annual Meeting of the Thai Society of Hematology, Bangkok, Thailand (invited speaker)
June 2011	Joint Conference in Medical Sciences (JCMS 2011), Bangkok, Thailand (invited speaker)
Mar 2012	Mahidol International Conference on Infections and Cancers (MIC-IC) 2012, Bangkok, Thailand (invited speaker)
Mar 2012	The 1st Academic Meeting of Human Cytogenetics Consortium of Thailand, Phuket, Thailand (invited speaker)
Aug 2012	7th International Symposium of the Protein Society of Thailand 2012, Bangkok, Thailand (invited speaker)
Oct 2012	Days of Molecular Medicine Conference (DMM) 2012, Vienna, Austria (poster presentation)
Nov 2012	The 62nd Annual Meeting of the American Society of Human Genetics (ASHG) 2012, San Francisco, USA (poster presentation)
Nov 2012	The International Academy of Pathology (IAP) Thailand Annual Meeting 2012, Bangkok, Thailand (invited speaker)
Dec 2012	Molecular Medicine Conference (MMC) 2012, Bangkok, Thailand (invited speaker)
Jan 2013	The 2nd Meeting of South East Asian Pharmacogenomics Research Network (SEAPharm) Symposium for Genetic and Genome-Guided Personalized Medicine in Asia, Bangkok, Thailand (invited speaker)
July 2013	The 18th National Genetics Conference 2013, Bangkok, Thailand (invited speaker)
Oct 2013	The 63rd Annual Meeting of the American Society of Human Genetics (ASHG) 2013, Boston, USA (poster presentation)
Nov 2013	Special Conference on The Importance of Basic Medical Research in Thailand, Health Systems Research Institute, Bangkok, Thailand (invited speaker)
Jan 2014	The 1st Mahidol University (MU) - Research EXPO, Bangkok, Thailand (invited speaker)
July 2014	Conference on Next Generation Sequencing for Genetic and Genomic Studies (NGS 2014) by Thai Society of Genetics, Bangkok, Thailand (invited speaker)
Sep 2014	The 73rd Annual Meeting of the Japanese Cancer Association (JCA) 2014, Yokohama, Japan (oral presentation)
Sep 2014	The 30th Congress of the International Academy of Pathology (IAP) 2014, Bangkok, Thailand (invited speaker)

- Oct 2014 The 2nd Mahidol University (MU) - Research EXPO, Bangkok, Thailand (speaker)
- April 2015 The 5th Asian Chromosome Colloquium (ACC5) 2015, Bangkok, Thailand (invited speaker)
- June 2015 Joint Conference in Medical Sciences (JCMS 2015), Bangkok, Thailand (invited speaker)
- July 2015 10th International Symposium of the Protein Society of Thailand 2015, Bangkok, Thailand (invited speaker)
- Sep 2015 The 18th Asia-Pacific International Molecular Biology Network Annual Conference (A-IMBN), Cheonan-si, Korea (invited speaker)
- Oct 2015 The 65th Annual Meeting of the American Society of Human Genetics (ASHG) 2015, Baltimore, USA (poster presentation)
- Nov 2015 Systems Biology Week, Chulalongkorn hospital, Bangkok, Thailand (invited speaker)
- Jan 2016 TRF-OHEC Annual Congress 2016, Cha-Am, Thailand (oral presentation)
- May 2016 Systems Biosciences: Frontiers in Integrative Research, Institute of Molecular Biosciences, Mahidol University, Bangkok, Thailand (invited speaker)
- July 2016 Genomics and Genetics Conference 2016, Bangkok, Thailand (invited speaker)
- Oct 2016 The 66th Annual Meeting of the American Society of Human Genetics (ASHG) 2016, Vancouver, Canada (poster presentation)
- Jan 2017 TRF-OHEC Annual Congress 2017, Cha-Am, Thailand (poster presentation)
- Mar 2017 The joint Mahidol - Liverpool Symposium 2017: Antimicrobial and Drug Resistance, Faculty of Science, Mahidol University, Bangkok, Thailand (invited speaker)
- Mar 2017 Precision Oncology: Genomics Data from Thai patients vs. Global Counterparts, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand (invited speaker)
- July 2017 The 5th Asia Pacific Protein Association (APPA) Conference and the 12th International Symposium for the Protein Society of Thailand (PST), Bangsaen, Chonburi, Thailand. (invited workshop speaker)
- Sep 2017 Joint Conference in Medical Sciences (JCMS 2017), Bangkok, Thailand (invited speaker)
- Oct 2017 The 67th Annual Meeting of the American Society of Human Genetics (ASHG) 2017, Orlando, USA (poster presentation)
- Nov 2017 The 12th Asia Pacific Conference on Human Genetics (APCHG 2017), Bangkok, Thailand (invited speaker, pre-congress workshop on molecular diagnostics)
- Nov 2017 Cancer precision medicine academic conference, Bangkok, Thailand (hosted by the Research University Network; RUN), Bangkok, Thailand (invited speaker)

Nov 2017 Roche Life Science Day, Bangkok, Thailand (invited speaker)

Publications

Book Chapter:

1. Jinawath N, Shih IM. Biology and Pathology of Ovarian Cancer. In Bristow R, Armstrong D (Eds.), *Early Diagnosis and Treatment of Cancer Series: Ovarian Cancer* (chapter 2). Philadelphia: Elsevier Inc. (ISBN: 978-1-4160-4685-1), Copyright 2010.

International Journals:

1. Hnoonual A, Thammachote W, Tim-Aroon T, Rojnueangnit K, Hansakunachai T, Sombuntham T, Roongpraiwan R, Worachotekamjorn J, Chuthapisith J, Fuchareon S, Wattanasirichaigoon D, Ruangdaraganon N, Limprasert P, Jinawath N. Chromosomal microarray analysis in a cohort of underrepresented population identifies SERINC2 as a novel candidate gene for autism spectrum disorder. *Sci Rep.* 2017, Sep 21;7(1): 12096. IF = 4.259

2. Jinawath N, Shiao MS, Norris A, Murphy K, Klein AP, Yonescu R, Iacobuzio-Donahue C, Meeker A, Jinawath A, Yeo CJ, Eshleman JR, Hruban RH, Brody JR, Griffin CA, Harada S. Alterations of type II classical cadherin, cadherin-10 (CDH10), is associated with pancreatic ductal adenocarcinomas. *Genes Chromosomes Cancer.* 2017 May;56(5):427-435. IF = 3.96

3. Tim-Aroon T*, Jinawath N*, Thammachote W, Sinpitak P, Limrungsikul A, Khongkhatithum C, Wattanasirichaigoon D. 1q21.3 deletion involving GATAD2B: An emerging recurrent microdeletion syndrome. *Am J Med Genet A.* 2017 Mar;173(3):766-770. IF = 2.259

4. Jinawath N, Bunbanjerdasuk S, Chayanupatkul M, Ngamphaiboon N, Asavapanumas N, Svasti J, Charoensawan V. Bridging the gap between clinicians and systems biologists: from network biology to translational biomedical research. *J Transl Med.* 2016 Nov 22;14(1):324. IF = 3.786

5. Suktitipat B, Naktang C, Mhuantong W, Tularak T, Artiwet P, Pasomsap E, Jongjaroenprasert W, Fuchareon S, Mahasirimongkol S, Chantratita W, Yimwadsana B, Charoensawan V, Jinawath N. Copy Number Variation in Thai Population. *PLoS One.* 2014 Aug 13;9(8):e104355. IF = 3.234

6. Ojha SC, Jaide C, Jinawath N, Rotjanapan P, Baral P. Geohelminths: public health significance. *J Infect Dev Ctries.* 2014 Jan 15;8(1):5-16. IF = 1.2

7. Trachoo O, Assanatham M, Jinawath N, Nongnuch A. Chromosome 20p inverted duplication deletion identified in a Thai female adult with mental retardation, obesity, chronic kidney disease and characteristic facial features. *Eur J Med Genet.* 2013 Jun;56(6):319-24. IF = 1.486

8. Yap KL, Fraley SI, Thiaville MM, Jinawath N, Nakayama K, Wang J, Wang TL, Wirtz D, Shih IM. NAC1 is an actin-binding protein that is essential for effective cytokinesis in cancer cells. *Cancer Res.* 2012 Aug 15;72(16):4085-96. IF = 9.284

9. Jinawath N, Zambrano R, Wohler ES, Palmquist MK, Hoover-Fong J, Hamosh A, Batista DA. Mosaic trisomy 13: understanding origin using SNP array. *J Med Genet.* 2011 May;48(5):323-6. IF = 5.751

10. Jinawath N, Morsberger L, Norris-Kirby A, Williams LM, Yonescu R, Argani P, Griffin CA, Murphy KM. Complex rearrangement of chromosomes 1, 7, 21, 22 in Ewing sarcoma. *Cancer Genet Cytogenet.* 2010 Aug;201(1):42-7. IF = 1.537

11. Jinawath N, Vasoontara C, Jinawath A, Fang X, Zhao K, Yap KL, Guo T, Lee CS, Wang W, Balgley BM, Davidson B, Wang TL, Shih IeM. Oncoproteomic Analysis Reveals Co-Upregulation of RELA and STAT5 in Carboplatin Resistant Ovarian Carcinoma. *PLoS ONE*. 2010 Jun 18;5(6):e11198. IF = 4.351
12. Tian Y, Tan A-C, Sun X, Olson MT, Xie Z, Jinawath N, Chan DW, Shih IeM, Zhang Z, Zhang H. Quantitative proteomic analysis of ovarian cancer cells identified mitochondrial proteins associated with paclitaxel resistance. *Proteomics-Clinical applications*. 2009 Oct;3(11):1288-95. IF = 1.514
13. Jinawath N, Norris-Kirby A, Smith BD, Gocke CD, Batista DA, Griffin CA, Murphy KM. A rare e14a3 (b3a3) BCR-ABL fusion transcript in chronic myeloid leukemia: diagnostic challenges in clinical laboratory practice. *J Mol Diagn*. 2009 Jul;11(4):359-63. IF = 3.413
14. Kuo KT, Guan B, Feng Y, Mao TL, Chen X, Jinawath N, Wang Y, Kurman RJ, Shih IeM, Wang TL. Analysis of DNA copy number alterations in ovarian serous tumors identifies new molecular genetic changes in low-grade and high-grade carcinomas. *Cancer Res*. 2009 May 1;69(9):4036-42. IF = 7.543
15. Jinawath N, Vasoontara C, Yap KL, Thiaville MM, Nakayama K, Wang TL, Shih IM. NAC-1, a potential stem cell pluripotency factor, contributes to paclitaxel resistance in ovarian cancer through inactivating Gadd45 pathway. *Oncogene*. 2009 May 7;28(18):1941-8. IF = 7.135
16. Sheu JJ, Hua CH, Wan L, Lin YJ, Lai MT, Tseng HC, Jinawath N, Tsai MH, Chang NW, Lin CF, Lin CC, Hsieh LJ, Wang TL, Shih IeM, Tsai FJ. Functional genomic analysis identified epidermal growth factor receptor activation as the most common genetic event in oral squamous cell carcinoma. *Cancer Res*. 2009 Mar 15;69(6):2568-76. IF = 7.543
17. Choi JH, Sheu JJ, Guan B, Jinawath N, Markowski P, Wang TL, Shih IeM. Functional analysis of 11q 13.5 amplicon identifies Rsf-1 (HBXAP) as a gene involved in paclitaxel resistance in ovarian cancer. *Cancer Res*. 2009 Feb 15;69(4):1407-15. IF = 7.543
18. Nakayama K, Nakayama N, Jinawath N, Salani R, Kurman RJ, Shih IeM, Wang TL. Amplicons profiles in ovarian serous carcinomas. *Int J Cancer* 120(12):2613-7, 2007. IF = 4.722
19. Nakayama K, Nakayama N, Davidson B, Sheu JJ, Jinawath N, Santillan A, Salani R, Bristow RE, Morin PJ, Kurman RJ, Wang TL, Shih IeM. A BTB/POZ protein, NAC-1, is related to tumor recurrence and is essential for tumor growth and survival. *PNAS* 103(49):18739-44, 2006. IF = 9.432
20. Mahasirimongkol S, Chantratita W, Promso S, Pasomsab E, Jinawath N, Jongjaroenprasert W, Lulitanond V, Krittayapoositpot P, Tongsimma S, Sawanpanyalert P, Kamatani N, Nakamura Y, Sura T. Similarity of the allele frequency and linkage disequilibrium pattern of single nucleotide polymorphisms in drug-related gene loci between Thai and northern East Asian populations: implications for tagging SNP selection in Thais. *J Hum Genet* 51(10):896-904, 2006. IF = 2.547
21. Jinawath N, Chamgramol Y, Furukawa Y, Obama K, Tsunoda T, Sripa B, Pairojkul C, Nakamura Y. Comparison of gene expression profiles between *Opisthorchis viverrini* and non-*Opisthorchis viverrini* associated human intrahepatic cholangiocarcinoma. *Hepatology* 44(4):1025-38, 2006. IF = 10.840
22. Jinawath N, Furukawa Y, Hasegawa S, Li M, Tsunoda T, Satoh S, Yamaguchi T, Imamura H, Inoue M, Shiozaki H, Nakamura Y. Comparison of gene-expression profiles between diffuse- and intestinal-type gastric cancers using a genome-wide cDNA microarray. *Oncogene* 23(40):6830-44, 2004. IF = 7.135

23. Jinawath N, Furukawa Y, Nakamura Y. Identification of NOL8, a nucleolar protein containing an RNA recognition motif (RRM), which was overexpressed in diffuse-type gastric cancer. *Cancer Sci* 95(5):430-5, 2004. IF = 3.771

Patents

1. Ramathibodi Tumor Biobank Software. Thai patent certificate no. ๑1.5673. Jan 14, 2015.