

Curriculum Vitae

NAME: Patrick Tan , MD PhD

TITLE: Professor, Duke-NUS Medical School Singapore
Deputy Executive Director, Biomedical Research Council, A*STAR
Director, SingHealth Duke-NUS Institute of Precision Medicine (PRISM)

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EDUCATION:

1986 - 1987 National Junior College, Singapore, GCE 'A' Level
1988 - 1992 Harvard University, B.A. (Biochemistry)
1992 - 2000 Stanford University School of Medicine, M.D., Ph.D (Developmental Biology)

CURRENT APPOINTMENTS:

2016 - Present Deputy Executive Director, Biomedical Research Council, A*STAR
2015 - Present Director, SingHealth Duke-NUS Institute of Precision Medicine (PRISM)
2012 - Present Professor (Tenured), Cancer and Stem Cell Biology, Duke-NUS Medical School
2012 - Present Senior Principal Investigator, Cancer Science Institute of Singapore (NUS)
2009 - Present Director, Duke-NUS Genome Biology Facility

ADJUNCT APPOINTMENTS

2006 - Present Principal Investigator (Adjunct), National Cancer Centre, Singapore
2012 - Present Professor (Adjunct), Dept of Physiology, National University of Singapore

AWARDS

1987 President's Scholarship, Singapore
1987 Loke Cheng Kim Scholarship, Singapore
1988 Detur Prize for Academic Excellence, Harvard University
1991 Signet Society, Harvard University
1992 Graduated summa cum laude (Highest Honors), Harvard University
1992 Phi Beta Kappa Society
1992 Fairchild Fellowship (for MSTP training), Stanford University
1998 Charles Yanofsky Award for Most Outstanding Graduate Thesis (Physics, Biology, Chemistry), Stanford University
2001 Young Scientist Award (Singapore National Academy of Sciences)
2001 NCC Academic Award for Best Intellectual Property Filing
2002 NCC Academic Award for Best New Research Programme
2002 Singapore Youth Award (National Youth Council)
2002 Best Business Plan and Executive Summary (Systome Therapeutics), Startup@Singapore National Techno-Venture Competition
2004 SingHealth Investigator Excellence Award

2005	AACR-ITO EN Scholar in Training Award, AACR 96th Annual Meeting (for graduate student Amit Aggarwal)
2008	Singapore Youth Award, Medal of Commendation (National Youth Council)
2010	AACR-Bristol-Myers Squibb Oncology Scholar-in-Training Award (for graduate student Iain Tan)
2010	ASCO Young Investigator Award (for graduate student Iain Tan)
2011	Singapore General Hospital Scientist Award
2011	Duke-NUS Pioneer Award (Faculty Award for Contributions to Medical Curriculum Development)
2011	Swee Liew Wadsworth Lectureship. Department of Physiology, National University of Singapore
2013	Duke-NUS Pioneer Award (Faculty Award for Contributions to Establishing Duke-NUS)
2013	Chen New Investigator Award, Human Genome Organization
2013	American Society for Clinical Investigation (2013)
2015	President's Science Award 2015 (Team)
2016	Japanese Cancer Association International Award

Selected Publications (from >200):

- Huang et al (2018) Genomic and Epigenomic Profiling of High-Risk Intestinal Metaplasia Reveals Molecular Determinants of Progression to Gastric Cancer. *Cancer Cell* <https://doi.org/10.1016/j.ccell.2017.11.018>
- Qamra et al (2017) Epigenomic Promoter Alterations Amplify Gene Isoform and Immunogenic Diversity in Gastric Adenocarcinoma. *Cancer Discovery*. Jun;7(6):630-651. [PMID 28320776]
- Zouridis et al (2012) Methylation Subtypes and Large Scale Epigenetic Alterations in Gastric Cancer. *Sci Transl Med*. 4(156):156ra140 [PMID 23076357]
- Zang et al (2012) Exome sequencing of gastric adenocarcinoma identifies recurrent somatic mutations in cell adhesion and chromatin remodeling genes. *Nat Genet*. 44(5):570-4. [PMID 22484628]
- Deng et al . (2012) A comprehensive survey of genomic alterations in gastric cancer reveals systematic patterns of molecular exclusivity and co-occurrence among distinct therapeutic targets. *Gut*. 61(5):673-84. [PMID:22315472]
- Ong et al (2012) Exome sequencing of liver fluke-associated cholangiocarcinoma. *Nat Genet*. 44(6):690-3. [PMID 22561520]
- Tan et al (2011) Intrinsic subtypes of gastric cancer, based on gene expression pattern, predict survival and respond differently to chemotherapy. *Gastroenterology* 141(2):476-85 [PMID:21684283]
- Tao et al (2011) CD44-SLC1A2 gene fusions in gastric cancer. *Sci Transl Med*. 3(77):77ra30. [PMID:21471434]
- Palanisamy et al (2010) Rearrangements of the RAF kinase pathway in prostate cancer, gastric cancer and melanoma. *Nat Med*. 16(7):793-8. [PMID:20526349]
- Tay et al (2003) A combined comparative genomic hybridization and expression microarray analysis of gastric cancer reveals novel molecular subtypes. *Cancer Res*. 63(12):3309-16. [PMID 12810664]