

## Curriculum Vitae

Dr. Panomwat Amornphimoltham

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### 1. Educations (from latest year)

Degree	Program/Institute	Year
Doctor of Philosophy	Oral and Experimental Pathology / U of Maryland, USA	2007
Doctor of Dental Surgery	Dentistry / Prince of Songkla University	1995

### 2. Working Experience (from latest year)

Position – Organization or Institute	Year
Project Scientist, Gutkind lab, Moores Cancer Center. University of California, San Diego, USA	2015-2017
Staff Scientist, Intracellular Membrane Trafficking Unit, Oral and Pharyngeal Cancer Branch, NIDCR, National Institutes of Health, Maryland, USA	2010-2015
Research Fellow, Intracellular Membrane Trafficking Unit, Oral and Pharyngeal Cancer Branch, NIDCR, National Institutes of Health, Maryland, USA	2008-2010
Post-doctoral Fellow, Molecular carcinogenesis unit, Oral and Pharyngeal Cancer Branch, NIDCR, National Institutes of Health, Maryland, USA	2000-2004
Faculty member, Faculty in Department of Oral Biology, School of Dentistry, Prince of Songkla University, Songkhla, Thailand	1996-2002

### 3. Expertise

- Head and neck cancer research
- Cancer animal model
- Cancer translational research
- Signaling pathway in head and neck cancer

### 4. Teaching Experience

Yes

No

Institutes	Faculty/Dept.	Programs	Subjects	Year
Prince of Songkla University	Faculty of Dentistry/Oral Biology and Occlusion Dept.	Doctor of dental surgery	Oral Biology 1,2,3	1996-2002

Walailak University	International College of Dentistry	Doctor of Dental Surgery and Master of Science (Dentistry)	Learning Process Research Methodology and Data Analysis Advanced Oral Biology	2018-2020
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## 5. Publications (latest 5 years)

### 5.1 Research articles

1. Yamaguchi K, Iglesias-Bartolomé R, Wang Z, Callejas-Valera JL, Amornphimoltham P, Molinolo AA, Cohen EE, Califano JA, Lippman SM, Luo J, Gutkind JS. A synthetic-lethality RNAi screen reveals an ERK-mTOR co-targeting pro-apoptotic switch in PIK3CA+ oral cancers. *Oncotarget*. 2016 Mar 8;7(10):10696-709.
2. Callejas-Valera JL, Iglesias-Bartolome R, Amornphimoltham P, Palacios-Garcia J, Martin D, Califano JA, Molinolo AA, Gutkind JS. mTOR inhibition prevents rapid-onset of carcinogen-induced malignancies in a novel inducible HPV-16 E6/E7 mouse model. *Carcinogenesis*. 2016 Oct;37(10):1014-25. doi: 10.1093/carcin/bgw086. Epub 2016 Aug 18.
3. Amornphimoltham P, Thompson J, Melis N, Weigert R. Non-invasive intravital imaging of head and neck squamous cell carcinomas in live mice. *Methods*. 2017 Sep 1;128:3-11. doi: 10.1016/j.jymeth.2017.07.026. Epub 2017 Aug 3
4. Zhao X, Deng P, Iglesias-Bartolome R, Amornphimoltham P, Steffen DJ, Jin Y, Molinolo AA, de Castro LF, Ovejero D, Yuan Q, Chen Q, Han X, Bai D, Taylor SS, Yang Y, Collins MT, Gutkind JS. Expression of an active G $\alpha$ s mutant in skeletal stem cells is sufficient and necessary for fibrous dysplasia initiation and maintenance. *Proc Natl Acad Sci U S A*. 2018 Jan 16;115(3):E428-E437.
5. Fukusumi T, Guo TW, Sakai A, Ando M, Ren S, Haft S, Liu C, Amornphimoltham P, Gutkind JS, Califano JA. The NOTCH4-HEY1 Pathway Induces Epithelial-Mesenchymal Transition in Head and Neck Squamous Cell Carcinoma. *Clin Cancer Res*. 2018 Feb 1;24(3):619-633.
6. 4E-BP1 Is a Tumor Suppressor Protein Reactivated by mTOR Inhibition in Head and Neck Cancer. Wang Z, Feng X, Molinolo AA, Martin D, Vitale-Cross L, Nohata N, Ando M, Wahba A, Amornphimoltham P, Wu X, Gilardi M, Allevato M, Wu V, Steffen DJ, Tofilon P, Sonenberg N, Califano J, Chen Q, Lippman SM, Gutkind JS. *Cancer Res*. 2019 Apr 1;79(7):1438-1450. doi: 10.1158/0008-5472.CAN-18-1220. Epub 2019 Mar 20.

7. Metformin inhibits progression of Head and Neck Squamous Cell Carcinoma by acting Directly on Carcinoma Initiating Cells. Wu X, Yeerna H, Goto Y, Ando T, Wu VH, Zhang X, Wang Z, Amornphimoltham P, Murphy AN, Tamayo P, Chen Q, Lippman SM, Gutkind JS. *Cancer Res.* 2019 Jul 10. pii: canres.3525.2018.
8. Wang Z, Wu VH, Allevato MM, et al. Syngeneic animal models of tobacco-associated oral cancer reveal the activity of in situ anti-CTLA-4. *Nat Commun.* 2019;10(1):5546. Published 2019 Dec 5. doi:10.1038/s41467-019-13471-0.

## 5.2 Proceeding

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## 5.3 Review articles

1. Amornphimoltham P, Yuen PST, Star RA, Leelahavanichkul A. Gut Leakage of Fungal-Derived Inflammatory Mediators: Part of a Gut-Liver-Kidney Axis in Bacterial Sepsis. *Dig Dis Sci.* 2019 Mar 13. doi: 10.1007/s10620-019-05581-y.

## 5.4 Book Chapters

1. Amornphimoltham P, Roth SJ, Idekar T and Gutkind JS. Targeting the mTOR Signaling Circuitry in Head and Neck Cancer, (2017) In *Squamous cell Carcinoma: Molecular Therapeutic Targets*, Warnakulasuriya S and Khan Z (Ed.) (Springer) ISBN: 978-94-024-1083-9; p 163-182

## 5.5 Patents

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## 6. Awards

Awards	Year
Outstanding abstract for short talk at Membrane Dynamics in Cancer Conference; Beatson international cancer research, UK, 2012	2012
National Institute of Dental Research, Performance Award, 2007	2007