Stanford



David J. Wong, MD, PhD

Clinical Associate Professor, Dermatology

CLINICAL OFFICE (PRIMARY)

- **Dermatology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Averley Mayo - Administrative Assistant

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Bio

BIO

David Wong, M.D., Ph.D., is a Clinical Associate Professor of Dermatology and the CEO of Direct Dermatology, Inc. He attended medical school at University of Washington School of Medicine and completed his residency at Stanford University. He also received his PhD in Molecular Genetics at the University of Washington and Fred Hutchinson Cancer Research Center. His clinical interests include skin cancer, teledermatology, and care innovation for underserved communities.

CLINICAL FOCUS

- Skin Cancer
- Teledermatology
- Dermatology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Dermatology

HONORS AND AWARDS

- Research Fellowship, Dermatology Foundation (2005-2006)
- Research Career Development Award, Dermatology Foundation (2006-2009)
- Young Investigator Award, American Academy of Dermatology (2008)
- K08 Clinical Scientist Development Award, NIH (2009-2010)

PROFESSIONAL EDUCATION

- Internship: Santa Clara Valley Medical Center (2003) CA
- Board Certification: Dermatology, American Board of Dermatology (2006)
- Residency: Stanford University Medical Center (2006) CA
- Medical Education: University of Washington School of Medicine (2002) WA

- M.D., University of Washington (2002)
- Ph.D., Fred Hutchinson Cancer Center , Molecular and Cellular Biology (2000)
- B.S., Brown University , Biochemistry (1994)
- Residency, Stanford University , Dermatology (2006)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interest is focused on investigating the molecular networks that underlie cancer stem cells and designing therapies that selectively target these cells, thereby eliminating a cancer's potential for regrowth.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Dermatology (Fellowship Program)

Publications

PUBLICATIONS

- **Extensive and coordinated transcription of noncoding RNAs within cell-cycle promoters** *NATURE GENETICS*
  Hung, T., Wang, Y., Lin, M. F., Koegel, A. K., Kotake, Y., Grant, G. D., Horlings, H. M., Shah, N., Umbricht, C., Wang, P., Wang, Y., Kong, B., Langerod, et al
  2011; 43 (7): 621-U196
- **Stemness, cancer and cancer stem cells** *CELL CYCLE*
  Wong, D. J., Segal, E., Chang, H. Y.
  2008; 7 (23): 3622-3624
- **Deletional tolerance mediated by extrathymic Aire-expressing cells** *SCIENCE*
  Gardner, J. M., DeVoss, J. J., Friedman, R. S., Wong, D. J., Tan, Y. X., Zhou, X., Johannes, K. P., Su, M. A., Chang, H. Y., Krummel, M. F., Anderson, M. S.
  2008; 321 (5890): 843-847
- **Module map of stem cell genes guides creation of epithelial cancer stem cells** *CELL STEM CELL*
  Wong, D. J., Liu, H., Ridky, T. W., Cassarino, D., Segal, E., Chang, H. Y.
  2008; 2 (4): 333-344
- **Revealing targeted therapy for human cancer by gene module maps** *CANCER RESEARCH*
  Wong, D. J., Nuyten, D. S., Regev, A., Lin, M., Adler, A. S., Segal, E., van de Vijver, M. J., Chang, H. Y.
  2008; 68 (2): 369-378
- **Learning more from microarrays: Insights from modules and networks** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Wong, D. J., Chang, H. Y.
  2005; 125 (2): 175-182
- **A Molecular Signature for Purified Definitive Endoderm Guides Differentiation and Isolation of Endoderm from Mouse and Human Embryonic Stem Cells** *STEM CELLS AND DEVELOPMENT*
  Wang, P., McKnight, K. D., Wong, D. J., Rodriguez, R. T., Sugiyama, T., Gu, X., Ghodasara, A., Qu, K., Chang, H. Y., Kim, S. K.
  2012; 21 (12): 2273-2287
- **Interferon and Biologic Signatures in Dermatomyositis Skin: Specificity and Heterogeneity across Diseases** *PLOS ONE*
  Wong, D., Kea, B., Pesich, R., Higgs, B. W., Zhu, W., Brown, P., Yao, Y., Fiorentino, D.
  2012; 7 (1)
- **Invasive three-dimensional organotypic neoplasia from multiple normal human epithelia** *NATURE MEDICINE*

Ridky, T. W., Chow, J. M., Wong, D. J., Khavari, P. A.
2010; 16 (12): 1450-U137

- **Long non-coding RNA HOTAIR reprograms chromatin state to promote cancer metastasis** *NATURE*
  Gupta, R. A., Shah, N., Wang, K. C., Kim, J., Horlings, H. M., Wong, D. J., Tsai, M., Hung, T., Argani, P., Rinn, J. L., Wang, Y., Brzoska, P., Kong, et al
  2010; 464 (7291): 1071-U148

- **Identification, molecular characterization, clinical prognosis, and therapeutic targeting of human bladder tumor-initiating cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Chan, K. S., Espinosa, I., Chao, M., Wong, D., Ailles, L., Diehn, M., Gill, H., Presti, J., Chang, H. Y., van de Rijn, M., Shortliffe, L., Weissman, I. L.
  2009; 106 (33): 14016-14021

- **CSN5 isopeptidase activity links COP9 signalosome activation to breast cancer progression** *CANCER RESEARCH*
  Adler, A. S., Littlepage, L. E., Lin, M., Kawahara, T. L., Wong, D. J., Werb, Z., Chang, H. Y.
  2008; 68 (2): 506-515

- **p16(INK4a) lesions are common, early abnormalities that undergo clonal expansion in Barrett's metaplastic epithelium** *CANCER RESEARCH*
  Wong, D. J., Paulson, T. G., Prevo, L. J., Galipeau, P. C., Longton, G., Blount, P. L., Reid, B. J.
  2001; 61 (22): 8284-8289

- **Progressive region-specific de novo methylation of the p16 CpG island in primary human mammary epithelial cell strains during escape from M-0 growth arrest** *MOLECULAR AND CELLULAR BIOLOGY*
  Wong, D. J., Foster, S. A., Galloway, D. A., Reid, B. J.
  1999; 19 (8): 5642-5651

- **Evolution of neoplastic cell lineages in Barrett oesophagus** *NATURE GENETICS*
  Barrett, M. T., Sanchez, C. A., Prevo, L. J., Wong, D. J., Galipeau, P. C., Paulson, T. G., Rabinovitch, P. S., Reid, B. J.
  1999; 22 (1): 106-109

- **p16(INK4a) expression is frequently decreased and associated with 9p21 loss of heterozygosity in sporadic melanoma** *JOURNAL OF CUTANEOUS PATHOLOGY*
  FUNK, J. O., Schiller, P. I., Barrett, M. T., Wong, D. J., Kind, P., SANDER, C. A.
  1998; 25 (6): 291-296

- **Inactivation of p16 in human mammary epithelial cells by CpG island methylation** *MOLECULAR AND CELLULAR BIOLOGY*
  Foster, S. A., Wong, D. J., Barrett, M. T., Galloway, D. A.
  1998; 18 (4): 1793-1801

- **Members of the olfactory receptor gene family are contained in large blocks of DNA duplicated polymorphically near the ends of human chromosomes** *HUMAN MOLECULAR GENETICS*
  Trask, B. J., Friedman, C., Martin-Gallardo, A., Rowen, L., Akinbami, C., Blankenship, J., Collins, C., Giorgi, D., Iadonato, S., Johnson, F., Kuo, W. L., Massa, H., Morrish, et al
  1998; 7 (1): 13-26

- **P16(INK4 alpha) promoter is hypermethylated at a high frequency in esophageal adenocarcinomas** *CANCER RESEARCH*
  Wong, D. J., Barrett, M. T., Stoger, R., Emond, M. J., Reid, B. J.
  1997; 57 (13): 2619-2622

- **THE FORMATION AND MAINTENANCE OF THE DEFINITIVE ENDODERM LINEAGE IN THE MOUSE - INVOLVEMENT OF HNF3/FORKHEAD PROTEINS** *DEVELOPMENT*
  Ang, S. L., Wierda, A., Wong, D., Stevens, K. A., Cascio, S., Rossant, J., Zaret, K. S.
  1993; 119 (4): 1301-1315