



## Gerald Crabtree

David Korn, MD, Professor of Pathology and Professor of Developmental Biology

### CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### ACADEMIC APPOINTMENTS

- Professor, Pathology
- Professor, Developmental Biology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, SPARK at Stanford
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Member, National Academy of Sciences, (1997- present)
- Investigator, HHMI, (1988-2021)

#### HONORS AND AWARDS

- Director's Award, National Institutes of Health (1984)
- Investigator, Howard Hughes Medical Institute (1988 to present)
- Member, National Academy of Sciences (1997)
- Merit Award, National Institutes of Health (2000)
- Outstanding Inventor, Stanford University (2004)
- Laureate in Chemistry with Stuart Schreiber, Thomas Scientific (2006)
- David Korn Professorship, Stanford University (2008)
- Faculty Mentor of the Year, Stanford University (2008)
- Javits Neuroscience Investigator Award, National Institutes of Health (2013)
- Fellow, American Association for the Advancement of Science (2015)

## LINKS

- [www.crablab.com](http://www.crablab.com): [www.crabtreelab.com](http://www.crabtreelab.com)
- Personal Web site: <http://crablab.stanford.edu/>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are interested in the role of chromatin regulation in development and human cancer. Recent studies have show that over 20% of all human cancers have mutations in the subunits of an ATP-dependent chromatin regulatory complex we discovered several years ago. The genes behave as tumor suppressors and sometimes as oncogenes. We hope to understand the fundamental mechanisms used by these complexes to prevent cancer.

These same chromatin remodeling complexes are frequently mutated in a variety of human neurologic diseases, reflecting their roles in the development of the nervous system. It appears that these specialized roles in the nervous system are due to the use of unique neural specific assemblies in the developing human and mouse brain. We hope to understand their fundamental mechanism of action through biochemical and genetic approaches in combination with genome-wide analysis and genome sequencing studies.

Finally, we are developing new ways of making conditional alleles of mammalian genes using synthetic ligands that we hope will bring about a new fusion of biochemical and genetic approaches to understanding and controlling fundamental biologic processes. Recently we have developed an effective way of both assaying and modifying chromatin regulation in living cells.

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Moritz Classen, Shagayeg Navabpour, Sabin Nettles, Yanlan Wang

#### Doctoral Dissertation Advisor (AC)

Samuel Kim

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Chemical and Systems Biology (Phd Program)
- Developmental Biology (Phd Program)
- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **PU.1 and BCL11B sequentially cooperate with RUNX1 to anchor mSWI/SNF to poise the T cell effector landscape.** *Nature immunology*  
Gamble, N., Bradu, A., Caldwell, J. A., McKeever, J., Bolonduro, O., Ermis, E., Kaiser, C., Kim, Y., Parks, B., Klemm, S., Greenleaf, W. J., Crabtree, G. R., Koh, et al  
2024
- **Large-scale animal model study uncovers altered brain pH and lactate levels as a transdiagnostic endophenotype of neuropsychiatric disorders involving cognitive impairment.** *eLife*  
Hagihara, H., Shoji, H., Hattori, S., Sala, G., Takamiya, Y., Tanaka, M., Ihara, M., Shibutani, M., Hatada, I., Hori, K., Hoshino, M., Nakao, A., Mori, et al

2024; 12

- **Context-specific functions of chromatin remodellers in development and disease.** *Nature reviews. Genetics*  
Gourisankar, S., Krokhotin, A., Wenderski, W., Crabtree, G. R.  
2023
- **Author Correction: Rewiring cancer drivers to activate apoptosis.** *Nature*  
Gourisankar, S., Krokhotin, A., Ji, W., Liu, X., Chang, C. Y., Kim, S. H., Li, Z., Wenderski, W., Simanauskaite, J. M., Yang, H., Vogel, H., Zhang, T., Green, et al  
2023
- **Rewiring cancer drivers to activate apoptosis.** *Nature*  
Gourisankar, S., Krokhotin, A., Ji, W., Liu, X., Chang, C., Kim, S. H., Li, Z., Wenderski, W., Simanauskaite, J. M., Yang, H., Vogel, H., Zhang, T., Green, et al  
2023
- **Forebrain-specific conditional calcineurin deficiency induces dentate gyrus immaturity and hyper-dopaminergic signaling in mice.** *Molecular brain*  
Hagihara, H., Shoji, H., Kuroiwa, M., Graef, I. A., Crabtree, G. R., Nishi, A., Miyakawa, T.  
2022; 15 (1): 94
- **Rescue of deficits by Brwd1 copy number restoration in the Ts65Dn mouse model of Down syndrome.** *Nature communications*  
Fulton, S. L., Wenderski, W., Lepack, A. E., Eagle, A. L., Fanutza, T., Bastle, R. M., Ramakrishnan, A., Hays, E. C., Neal, A., Bendl, J., Farrelly, L. A., Al-Kachak, A., Lyu, et al  
2022; 13 (1): 6384
- **The interaction of SWI/SNF with the ribosome regulates translation and confers sensitivity to translation pathway inhibitors in cancers with complex perturbations.** *Cancer research*  
Ulicna, L., Kimmey, S. C., Weber, C. M., Allard, G. M., Wang, A., Bui, N. Q., Bendall, S. C., Crabtree, G. R., Bean, G. R., Van Rechem, C.  
2022
- **ACTL6a coordinates axonal caliber recognition and myelination in the peripheral nerve.** *iScience*  
Park, H., Tsai, E., Huang, D., Weaver, M., Frick, L., Alcantara, A., Moran, J. J., Patzig, J., Melendez-Vasquez, C. V., Crabtree, G. R., Feltri, M. L., Svaren, J., Casaccia, et al  
2022; 25 (4): 104132
- **Systemic enhancement of serotonin signaling reverses social deficits in multiple mouse models for ASD.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*  
Walsh, J. J., Llorach, P., Cardozo Pinto, D. F., Wenderski, W., Christoffel, D. J., Salgado, J. S., Heifets, B. D., Crabtree, G. R., Malenka, R. C.  
2021
- **A CRISPR/Cas9-engineered ARID1A-deficient human gastric cancer organoid model reveals essential and non-essential modes of oncogenic transformation.**  
Lo, Y., Kolahi, K. S., Du, Y., Chang, C., Krokhotin, A., Nair, A., Sobba, W. D., Karlsson, K., Jones, S. J., Longacre, T. A., Mah, A. T., Sockell, A., Seoane, et al  
AMER ASSOC CANCER RESEARCH.2021
- **mSWI/SNF promotes Polycomb repression both directly and through genome-wide redistribution.** *Nature structural & molecular biology*  
Weber, C. M., Hafner, A., Kirkland, J. G., Braun, S. M., Stanton, B. Z., Boettiger, A. N., Crabtree, G. R.  
2021; 28 (6): 501-511
- **A CRISPR/Cas9-engineered ARID1A-deficient human gastric cancer organoid model reveals essential and non-essential modes of oncogenic transformation.** *Cancer discovery*  
Lo, Y. H., Kolahi, K. S., Du, Y. n., Chang, C. Y., Krokhotin, A. n., Nair, A. n., Sobba, W. D., Karlsson, K. n., Jones, S. J., Longacre, T. A., Mah, A. T., Tercan, B. n., Sockell, et al  
2021
- **Increased ACTL6A occupancy within mSWI/SNF chromatin remodelers drives human squamous cell carcinoma.** *Molecular cell*  
Chang, C. Y., Shipony, Z., Lin, S. G., Kuo, A., Xiong, X., Loh, K. M., Greenleaf, W. J., Crabtree, G. R.  
2021

- **BAF subunit switching regulates chromatin accessibility to control cell cycle exit in the developing mammalian cortex.** *Genes & development*  
Braun, S. M., Petrova, R. n., Tang, J. n., Krokhotin, A. n., Miller, E. L., Tang, Y. n., Panagiotakos, G. n., Crabtree, G. R.  
2021
- **LSH mediates gene repression through macroH2A deposition.** *Nature communications*  
Ni, K., Ren, J., Xu, X., He, Y., Finney, R., Braun, S. M., Hathaway, N. A., Crabtree, G. R., Muegge, K.  
2020; 11 (1): 5647
- **CHD8 dosage regulates transcription in pluripotency and early murine neural differentiation.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sood, S., Weber, C. M., Hodges, H. C., Krokhotin, A., Shalizi, A., Crabtree, G. R.  
2020
- **Loss of the neural-specific BAF subunit ACTL6B relieves repression of early response genes and causes recessive autism.** *Proceedings of the National Academy of Sciences of the United States of America*  
Wenderski, W., Wang, L., Krokhotin, A., Walsh, J. J., Li, H., Shoji, H., Ghosh, S., George, R. D., Miller, E. L., Elias, L., Gillespie, M. A., Son, E. Y., Staahl, et al  
2020
- **Chemical Inhibitors of a Selective SWI/SNF Function Synergize with ATR Inhibition in Cancer Cell Killing.** *ACS chemical biology*  
Chory, E. J., Kirkland, J. G., Chang, C. Y., D'Andrea, V. D., Gourisankar, S. n., Dykhuizen, E. C., Crabtree, G. R.  
2020
- **Chromatin state as a mechanism of anthracycline response in breast cancer**  
Seoane, J. A., Kirkland, J. G., Caswell-Jin, J. L., Crabtree, G. R., Curtis, C.  
AMER ASSOC CANCER RESEARCH.2019
- **Nucleosome Turnover Regulates Histone Methylation Patterns over the Genome** *MOLECULAR CELL*  
Chory, E. J., Calarco, J. P., Hathaway, N. A., Bell, O., Neel, D. S., Crabtree, G. R.  
2019; 73 (1): 61-+
- **Chromatin regulators mediate anthracycline sensitivity in breast cancer.** *Nature medicine*  
Seoane, J. A., Kirkland, J. G., Caswell-Jin, J. L., Crabtree, G. R., Curtis, C. n.  
2019
- **Cyclosporin A Specifically Inhibits Function of Nuclear Proteins Involved in T Cell Activation (Reprinted from Science vol 246, pg 1617, 1989)** *JOURNAL OF IMMUNOLOGY*  
Emmel, E. A., Verweij, C. L., Durand, D. B., Higgins, K. M., Lacy, E., Crabtree, G. R.  
2018; 201 (11): 3149–52
- **Nucleosome Turnover Regulates Histone Methylation Patterns over the Genome.** *Molecular cell*  
Chory, E. J., Calarco, J. P., Hathaway, N. A., Bell, O., Neel, D. S., Crabtree, G. R.  
2018
- **Chemically induced proximity in biology and medicine** *SCIENCE*  
Stanton, B. Z., Chory, E. J., Crabtree, G. R.  
2018; 359 (6380)
- **Rapid chromatin repression by Aire provides precise control of immune tolerance** *NATURE IMMUNOLOGY*  
Koh, A. S., Miller, E. L., Buenrostro, J. D., Moskowitz, D. M., Wang, J., Greenleaf, W. J., Chang, H. Y., Crabtree, G. R.  
2018; 19 (2): 162-+
- **Chemically induced proximity in biology and medicine.** *Science (New York, N.Y.)*  
Stanton, B. Z., Chory, E. J., Crabtree, G. R.  
2018; 359 (6380)
- **Small Molecule Targeting of Specific BAF (mSWI/SNF) Complexes for HIV Latency Reversal.** *Cell chemical biology*  
Marian, C. A., Stoszko, M. n., Wang, L. n., Leighty, M. W., de Crignis, E. n., Maschinot, C. A., Gatchalian, J. n., Carter, B. C., Chowdhury, B. n., Hargreaves, D. C., Duvall, J. R., Crabtree, G. R., Mahmoudi, et al

2018

- **Dominant-negative SMARCA4 mutants alter the accessibility landscape of tissue-unrestricted enhancers.** *Nature structural & molecular biology*  
Hodges, H. C., Stanton, B. Z., Cermakova, K. n., Chang, C. Y., Miller, E. L., Kirkland, J. G., Ku, W. L., Veverka, V. n., Zhao, K. n., Crabtree, G. R.  
2018; 25 (1): 61–72
- **Tethering of Lsh at the Oct4 locus promotes gene repression associated with epigenetic changes** *EPIGENETICS*  
Ren, J., Hathaway, N. A., Crabtree, G. R., Muegge, K.  
2018; 13 (2): 173–81
- **Rapid and reversible epigenome editing by endogenous chromatin regulators** *NATURE COMMUNICATIONS*  
Braun, S. G., Kirkland, J. G., Chory, E. J., Husmann, D., Calarco, J. P., Crabtree, G. R.  
2017; 8: 560
- **DNA binding drives the association of BRG1/hBRM bromodomains with nucleosomes.** *Nature communications*  
Morrison, E. A., Sanchez, J. C., Ronan, J. L., Farrell, D. P., Varzavand, K., Johnson, J. K., Gu, B. X., Crabtree, G. R., Musselman, C. A.  
2017; 8: 16080
- **Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits** *CELL REPORTS*  
Platt, R. J., Zhou, Y., Slaymaker, I. M., Shetty, A. S., Weisbach, N. R., Kim, J., Sharma, J., Desai, M., Sood, S., Kempton, H. R., Crabtree, G. R., Feng, G., Zhang, et al  
2017; 19 (2): 335-350
- **The BAF45a/PHF10 subunit of SWI/SNF-like chromatin remodeling complexes is essential for hematopoietic stem cell maintenance** *EXPERIMENTAL HEMATOLOGY*  
Krasteva, V., Crabtree, G. R., Lessard, J. A.  
2017; 48: 58-71
- **The BAF45a/PHF10 subunit of SWI/SNF-like chromatin remodeling complexes is essential for hematopoietic stem cell maintenance.** *Experimental hematology*  
Krasteva, V., Crabtree, G. R., Lessard, J. A.  
2017; 48: 58-71.e15
- **A General Non-Radioactive ATPase Assay for Chromatin Remodeling Complexes.** *Current protocols in chemical biology*  
Stanton, B. Z., Hodges, C., Crabtree, G. R., Zhao, K.  
2017; 9 (1): 1-10
- **TOP2 synergizes with BAF chromatin remodeling for both resolution and formation of facultative heterochromatin.** *Nature structural & molecular biology*  
Miller, E. L., Hargreaves, D. C., Kadoch, C., Chang, C., Calarco, J. P., Hodges, C., Buenrostro, J. D., Cui, K., Greenleaf, W. J., Zhao, K., Crabtree, G. R.  
2017
- **Dynamics of BAF-Polycomb complex opposition on heterochromatin in normal and oncogenic states** *NATURE GENETICS*  
Kadoch, C., Williams, R. T., Calarco, J. P., Miller, E. L., Weber, C. M., Braun, S. M., Pulice, J. L., Chory, E. J., Crabtree, G. R.  
2017; 49 (2): 213-222
- **Smarca4 ATPase mutations disrupt direct eviction of PRC1 from chromatin** *NATURE GENETICS*  
Stanton, B. Z., Hodges, C., Calarco, J. P., Braun, S. M., Ku, W. L., Kadoch, C., Zhao, K., Crabtree, G. R.  
2017; 49 (2): 282-288
- **The BAF chromatin remodelling complex is an epigenetic regulator of lineage specification in the early mouse embryo.** *Development*  
Panamarova, M., Cox, A., Wicher, K. B., Butler, R., Bulgakova, N., Jeon, S., Rosen, B., Seong, R. H., Skarnes, W., Crabtree, G., Zernicka-Goetz, M.  
2016; 143 (8): 1271-1283
- **The Many Roles of BAF (mSWI/SNF) and PBAF Complexes in Cancer.** *Cold Spring Harbor perspectives in medicine*  
Hodges, C., Kirkland, J. G., Crabtree, G. R.  
2016; 6 (8)
- **Chromatin accessibility underlies the tumor suppressor role of BAF (mSWI/SNF) complexes in many human cancers**

Hodges, C., Hargreaves, D. C., Miller, E. L., Crabtree, G. R.  
AMER ASSOC CANCER RESEARCH.2015

- **Chromatin accessibility underlies the tumor-suppression role of BAF (mSWI/SNF) complexes in many malignancies**  
Hodges, C., Hargreaves, D., Miller, E., Crabtree, G. R.  
AMER ASSOC CANCER RESEARCH.2015
- **Generation of BAF53b-Cre transgenic mice with pan-neuronal Cre activities** *GENESIS*  
Zhan, X., Cao, M., Yoo, A. S., Zhang, Z., Chen, L., Crabtree, G. R., Wu, J. I.  
2015; 53 (7): 440-448
- **Generation of BAF53b-Cre transgenic mice with pan-neuronal Cre activities.** *Genesis (New York, N.Y. : 2000)*  
Zhan, X., Cao, M., Yoo, A. S., Zhang, Z., Chen, L., Crabtree, G. R., Wu, J. I.  
2015; 53 (7): 440-8
- **Mammalian SWI/SNF chromatin remodeling complexes and cancer: Mechanistic insights gained from human genomics.** *Science advances*  
Kadoch, C., Crabtree, G. R.  
2015; 1 (5)
- **Chromatin regulation in cancer**  
Crabtree, G.  
AMER ASSOC CANCER RESEARCH.2014
- **The Role of BAF (mSWI/SNF) Complexes in Mammalian Neural Development** *AMERICAN JOURNAL OF MEDICAL GENETICS PART C- SEMINARS IN MEDICAL GENETICS*  
Son, E. Y., Crabtree, G. R.  
2014; 166 (3): 333-349
- **AN EXCHANGE OF ALTERNATIVE ATPASES WITHIN BAF COMPLEXES ACCOMPANIES THE TRANSITION FROM HEMOPOIETIC STEM CELL QUIESCENCE TO PROLIFERATION**  
Buscarlet, M., Krasteva, V., Ho, L., Simon, C., Hebert, J., Wilhelm, B., Crabtree, G., Sauvageau, G., Thibault, P., Lessard, J.  
ELSEVIER SCIENCE INC.2014: S4
- **Essential role of BRG, the ATPase subunit of BAF chromatin remodeling complexes, in leukemia maintenance** *BLOOD*  
Buscarlet, M., Krasteva, V., Ho, L., Simon, C., Hebert, J., Wilhelm, B., Crabtree, G. R., Sauvageau, G., Thibault, P., Lessard, J. A.  
2014; 123 (11): 1720-1728
- **Murine esBAF chromatin remodeling complex subunits BAF250a and Brg1 are necessary to maintain and reprogram pluripotency-specific replication timing of select replication domains** *EPIGENETICS & CHROMATIN*  
Takebayashi, S., Lei, I., Ryba, T., Sasaki, T., Dileep, V., Battaglia, D., Gao, X., Fang, P., Fan, Y., Esteban, M. A., Tang, J., Crabtree, G. R., Wang, et al  
2013; 6
- **Creating a neural specific chromatin landscape by npBAF and nBAF complexes.** *Current opinion in neurobiology*  
Staahl, B. T., Crabtree, G. R.  
2013; 23 (6): 903-913
- **The BAF Complex Interacts with Pax6 in Adult Neural Progenitors to Establish a Neurogenic Cross-Regulatory Transcriptional Network** *CELL STEM CELL*  
Ninkovic, J., Steiner-Mezzadri, A., Jawerka, M., Akinci, U., Messerodotti, G., Petricca, S., Fischer, J., von Holst, A., Beckers, J., Lie, C. D., Petrik, D., Miller, E., Tang, et al  
2013; 13 (4): 403-418
- **Reprogramming human fibroblasts to neurons by recapitulating an essential microRNA-chromatin switch** *CURRENT OPINION IN GENETICS & DEVELOPMENT*  
Tang, J., Yoo, A. S., Crabtree, G. R.  
2013; 23 (5): 591-598
- **Exome sequencing to identify de novo mutations in sporadic ALS trios.** *Nature neuroscience*  
Chesi, A., Staahl, B. T., Jovicic, A., Couthouis, J., Fasolino, M., Raphael, A. R., Yamazaki, T., Elias, L., Polak, M., Kelly, C., Williams, K. L., Fifita, J. A., Maragakis, et al  
2013; 16 (7): 851-855

- **Kinetic Analysis of npBAF to nBAF Switching Reveals Exchange of SS18 with CREST and Integration with Neural Developmental Pathways.** *journal of neuroscience*  
Staaht, B. T., Tang, J., Wu, W., Sun, A., Gitler, A. D., Yoo, A. S., Crabtree, G. R.  
2013; 33 (25): 10348-10361
- **BAF complexes facilitate decatenation of DNA by topoisomerase IIa.** *Nature*  
Dykhuisen, E. C., Hargreaves, D. C., Miller, E. L., Cui, K., Korshunov, A., Kool, M., Pfister, S., Cho, Y., Zhao, K., Crabtree, G. R.  
2013; 497 (7451): 624-627
- **BAF complexes facilitate decatenation of DNA by topoisomerase IIa.** *Nature*  
Dykhuisen, E. C., Hargreaves, D. C., Miller, E. L., Cui, K., Korshunov, A., Kool, M., Pfister, S., Cho, Y., Zhao, K., Crabtree, G. R.  
2013; 497 (7451): 624-627
- **Exome sequencing to identify de novo mutations in sporadic ALS trios.** *Nature neuroscience*  
Chesi, A., Staaht, B. T., Jovicic, A., Couthouis, J., Fasolino, M., Raphael, A. R., Yamazaki, T., Elias, L., Polak, M., Kelly, C., Williams, K. L., Fifita, J. A., Maragakis, et al  
2013; 16 (7): 851-855
- **Reversing the oncogenic roles of misdirected chromatin remodeling: Mechanistic insights into the SS18-SSX fusion protein in synovial sarcoma.**  
Kadoch, C., Crabtree, G. R.  
LIPPINCOTT WILLIAMS & WILKINS.2013
- **Proteomic and bioinformatic analysis of mammalian SWI/SNF complexes identifies extensive roles in human malignancy.** *Nature genetics*  
Kadoch, C., Hargreaves, D. C., Hodges, C., Elias, L., Ho, L., Ranish, J., Crabtree, G. R.  
2013; 45 (6): 592-601
- **From neural development to cognition: unexpected roles for chromatin** *NATURE REVIEWS GENETICS*  
Ronan, J. L., Wu, W., Crabtree, G. R.  
2013; 14 (5): 347-359
- **The neuron-specific chromatin regulatory subunit BAF53b is necessary for synaptic plasticity and memory** *NATURE NEUROSCIENCE*  
Vogel-Ciernia, A., Matheos, D. P., Barrett, R. M., Kramar, E. A., Azzawi, S., Chen, Y., Magnan, C. N., Zeller, M., Sylvain, A., Haettig, J., Jia, Y., Tran, A., Dang, et al  
2013; 16 (5): 552-?
- **MicroRNAs: regulators of neuronal fate** *CURRENT OPINION IN CELL BIOLOGY*  
Sun, A. X., Crabtree, G. R., Yoo, A. S.  
2013; 25 (2): 215-221
- **Reversible Disruption of mSWI/SNF (BAF) Complexes by the SS18-SSX Oncogenic Fusion in Synovial Sarcoma** *CELL*  
Kadoch, C., Crabtree, G. R.  
2013; 153 (1): 71-85
- **Rethinking our intellectual origins: response to Kalinka et al.** *TRENDS IN GENETICS*  
Crabtree, G. R.  
2013; 29 (3): 127-129
- **ACTL6a enforces the epidermal progenitor state by suppressing SWI/SNF-dependent induction of KLF4.** *Cell stem cell*  
Bao, X., Tang, J., Lopez-Pajares, V., Tao, S., Qu, K., Crabtree, G. R., Khavari, P. A.  
2013; 12 (2): 193-203
- **Our fragile intellect: response to Dr Mitchell** *TRENDS IN GENETICS*  
Crabtree, G.  
2013; 29 (2): 60-62
- **Our fragile intellect. Part II** *TRENDS IN GENETICS*  
Crabtree, G. R.  
2013; 29 (1): 3-5

- **Our fragile intellect. Part I** *TRENDS IN GENETICS*  
Crabtree, G. R.  
2013; 29 (1): 1-3
- **The BAF53a subunit of SWI/SNF-like BAF complexes is essential for hemopoietic stem cell function** *BLOOD*  
Krasteva, V., Buscarlet, M., Diaz-Tellez, A., Bernard, M., Crabtree, G. R., Lessard, J. A.  
2012; 120 (24): 4720-4732
- **Screening for Inhibitors of an Essential Chromatin Remodeler in Mouse Embryonic Stem Cells by Monitoring Transcriptional Regulation** *JOURNAL OF BIOMOLECULAR SCREENING*  
Dykhuisen, E. C., Carmody, L. C., Tolliday, N., Crabtree, G. R., Palmer, M. A.  
2012; 17 (9): 1221-1230
- **Dynamics of inherently bounded histone modification domains** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Hodges, C., Crabtree, G. R.  
2012; 109 (33): 13296-13301
- **Medulloblastoma exome sequencing uncovers subtype-specific somatic mutations** *NATURE*  
Pugh, T. J., Weeraratne, S. D., Archer, T. C., Krummel, D. A., Auclair, D., Bochicchio, J., Carneiro, M. O., Carter, S. L., Cibulskis, K., Erlich, R. L., Greulich, H., Lawrence, M. S., Lennon, et al  
2012; 488 (7409): 106-110
- **Neonatal beta Cell Development in Mice and Humans Is Regulated by Calcineurin/NFAT** *DEVELOPMENTAL CELL*  
Goodyer, W. R., Gu, X., Liu, Y., Bottino, R., Crabtree, G. R., Kim, S. K.  
2012; 23 (1): 21-34
- **Dynamics and Memory of Heterochromatin in Living Cells** *CELL*  
Hathaway, N. A., Bell, O., Hodges, C., Miller, E. L., Neel, D. S., Crabtree, G. R.  
2012; 149 (7): 1447-1460
- **BAF53A enforces the epidermal progenitor state by re-targeting the SWI/SNF/BAF chromatin remodeling complex away from differentiation gene promoters** *75th Annual Meeting of the Society-for-Investigative-Dermatology*  
Bao, X., Tang, J., Tao, S., Qu, K., Crabtree, G. R., Khavari, P. A.  
NATURE PUBLISHING GROUP.2012: S63-S63
- **Mutually exclusive somatic mutations in WNT pathway medulloblastomas reveal a critical interaction between DDX3X and SMARCA4**  
Weeraratne, S. D., Archer, T., Pugh, T. J., Hargreaves, D., Yu, F., Kautzman, A., Jones, D. W., Jaeger, N., Tamayo, P., Mesirov, J. P., Pfister, S. M., Lichter, P., Crabtree, et al  
AMER ASSOC CANCER RESEARCH.2012
- **MicroRNA-mediated conversion of human fibroblasts to neurons** *NATURE*  
Yoo, A. S., Sun, A. X., Li, L., Shcheglovitov, A., Portmann, T., Li, Y., Lee-Messer, C., Dolmetsch, R. E., Tsien, R. W., Crabtree, G. R.  
2011; 476 (7359): 228-U123
- **esBAF facilitates pluripotency by conditioning the genome for LIF/STAT3 signalling and by regulating polycomb function** *NATURE CELL BIOLOGY*  
Ho, L., Miller, E. L., Ronan, J. L., Ho, W. Q., Jothi, R., Crabtree, G. R.  
2011; 13 (8): 903-U334
- **Engineering the ABA Plant Stress Pathway for Regulation of Induced Proximity** *SCIENCE SIGNALING*  
Liang, F., Ho, W. Q., Crabtree, G. R.  
2011; 4 (164)
- **ATP-dependent chromatin remodeling: genetics, genomics and mechanisms** *CELL RESEARCH*  
Hargreaves, D. C., Crabtree, G. R.  
2011; 21 (3): 396-420
- **Identification of a Putative Regulator of Early T Cell Activation Genes (Reprinted from AAAS, vol 241, pg 202-205, 1988)** *JOURNAL OF IMMUNOLOGY*  
Shaw, J., Utz, P. J., Durand, D. B., Toole, J., Emmel, E., Crabtree, G. R.



2010; 185 (9): 4972–75

- **Chromatin remodelling during development** *NATURE*  
Ho, L., Crabtree, G. R.  
2010; 463 (7280): 474-484
- **Chromatin Regulatory Mechanisms in Pluripotency** *ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY, VOL 26*  
Lessard, J. A., Crabtree, G. R.  
2010; 26: 503-532
- **MicroRNA-mediated switching of chromatin-remodelling complexes in neural development** *NATURE*  
Yoo, A. S., Staahl, B. T., Chen, L., Crabtree, G. R.  
2009; 460 (7255): 642-U112
- **SnapShot: Ca<sup>2+</sup>-Calcineurin-NFAT Signaling** *CELL*  
Crabtree, G. R., Schreiber, S. L.  
2009; 138 (1)
- **Developmental biology: The early heart remodelled.** *Nature*  
Liang, F. S., Crabtree, G. R.  
2009; 459 (7247): 654-5
- **ATP-dependent chromatin remodeling in neural development** *CURRENT OPINION IN NEUROBIOLOGY*  
Yoo, A. S., Crabtree, G. R.  
2009; 19 (2): 120-126
- **An embryonic stem cell chromatin remodeling complex, esBAF, is essential for embryonic stem cell self-renewal and pluripotency** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Ho, L., Ronan, J. L., Wu, J., Staahl, B. T., Chen, L., Kuo, A., Lessard, J., Nesvizhskii, A. I., Ranish, J., Crabtree, G. R.  
2009; 106 (13): 5181-5186
- **An embryonic stem cell chromatin remodeling complex, esBAF, is an essential component of the core pluripotency transcriptional network** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Ho, L., Jothi, R., Ronan, J. L., Cui, K., Zhao, K., Crabtree, G. R.  
2009; 106 (13): 5187-5191
- **The gene encoding early growth response 2, a target of the transcription factor NFAT, is required for the development and maturation of natural killer T cells** *NATURE IMMUNOLOGY*  
Lazarevic, V., Zullo, A. J., Schweitzer, M. N., Staton, T. L., Gallo, E. M., Crabtree, G. R., Glimcher, L. H.  
2009; 10 (3): 306-313
- **FK506-binding protein (FKBP) partitions a modified HIV protease inhibitor into blood cells and prolongs its lifetime in vivo** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Marinec, P. S., Chen, L., Barr, K. J., Mutz, M. W., Crabtree, G. R., Gestwicki, J. E.  
2009; 106 (5): 1336-1341
- **Calcineurin/NFAT Signaling Is Required for Neuregulin-Regulated Schwann Cell Differentiation** *SCIENCE*  
Kao, S., Wu, H., Xie, J., Chang, C., Ranish, J. A., Graef, I. A., Crabtree, G. R.  
2009; 323 (5914): 651-654
- **Understanding the Words of Chromatin Regulation** *CELL*  
Wu, J. I., Lessard, J., Crabtree, G. R.  
2009; 136 (2): 200-206
- **Chemical rescue of cleft palate and midline defects in conditional gsk-3beta mice** *13th International Congress of the International-Society-of-Craniofacial-Surgery / Paris Distraction Symposium*  
Liu, K. J., Arron, J. R., Stankunas, K., Crabtree, G. R., Longaker, M. T.  
MEDIMOND S R L.2009: 7–9
- **Bursting into the Nucleus** *SCIENCE SIGNALING*  
Crabtree, G. R., Graef, I. A.

2008; 1 (51)

- **An EZ Mark to Miss** *CELL STEM CELL*  
Ho, L., Crabtree, G. R.  
2008; 3 (6): 577-578
- **Selective role of calcineurin in haematopoiesis and lymphopoiesis** *EMBO REPORTS*  
Gallo, E. M., Ho, L., Winslow, M. M., Staton, T. L., Crabtree, G. R.  
2008; 9 (11): 1141-1148
- **Modulation of Peripheral B Cell Tolerance by CD72 in a Murine Model** *ARTHRITIS AND RHEUMATISM*  
Li, D. H., Winslow, M. M., Cao, T. M., Chen, A. H., Davis, C. R., Mellins, E. D., Utz, P. J., Crabtree, G. R., Parnes, J. R.  
2008; 58 (10): 3192-3204
- **Monster protein controls calcium entry and fights infection** *IMMUNITY*  
Radermacher, A. N., Crabtree, G. R.  
2008; 28 (1): 13-14
- **Calcineurin sets the bandwidth for discrimination of signals during thymocyte development** *NATURE*  
Gallo, E. M., Winslow, M. M., Cante-Barrett, K., Radermacher, A. N., Ho, L., McGinnis, L., Iritani, B., Neilson, J. R., Crabtree, G. R.  
2007; 450 (7170): 731-U11
- **Down syndrome critical region-1 is a transcriptional target of nuclear factor of activated T cells-c1 within the endocardium during heart development** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wu, H., Kao, S., Barrientos, T., Baldwin, S. H., Olson, E. N., Crabtree, G. R., Zhou, B., Chang, C.  
2007; 282 (42): 30673-30679
- **Regulation of dendritic development by NeuronSpecific chromatin remodeling complexes** *NEURON*  
Wu, J. I., Lessard, J., Olave, I. A., Qiu, Z., Ghosh, A., Graef, I. A., Crabtree, G. R.  
2007; 56 (1): 94-108
- **Renaming the DSCR1/Adapt78 gene family as RCAN: regulators of calcineurin** *FASEB JOURNAL*  
Davies, K. J., Ermak, G., Rothermel, B. A., Pritchard, M., Heitman, J., Ahnn, J., Henrique-Silva, F., Crawford, D., Canaider, S., Strippoli, P., Carinci, P., Min, K., Fox, et al  
2007; 21 (12): 3023-3028
- **An essential switch in subunit composition of a chromatin remodeling complex during neural development** *NEURON*  
Lessard, J., Wu, J. I., Ranish, J. A., Wan, M., Winslow, M. M., Staahl, B. T., Wu, H., Aebersold, R., Graef, I. A., Crabtree, G. R.  
2007; 55 (2): 201-215
- **Exploiting protein destruction for constructive use** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Stankunas, K., Crabtree, G. R.  
2007; 104 (28): 11511-11512
- **Rescue of degradation-prone mutants of the FK506-rapamycin binding (FRB) protein with chemical ligands** *CHEMBIOCHEM*  
Stankunas, K., Bayle, J. H., Havranek, J. J., Wandless, T. J., Baker, D., Crabtree, G. R., Gestwicki, J. E.  
2007; 8 (10): 1162-1169
- **Selective role of NFATc3 in positive selection of thymocytes** *JOURNAL OF IMMUNOLOGY*  
Cante-Barrett, K., Winslow, M. M., Crabtree, G. R.  
2007; 179 (1): 103-110
- **Cell signaling. Nuclear actin as choreographer of cell morphology and transcription.** *Science*  
Wu, J. I., Crabtree, G. R.  
2007; 316 (5832): 1710-1711
- **NFAT signaling and the invention of vertebrates** *TRENDS IN CELL BIOLOGY*  
Wu, H., Peisley, A., Graef, I. A., Crabtree, G. R.  
2007; 17 (6): 251-260

- **Engineering small molecule specificity in nearly identical cellular environments** *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*  
Sellmyer, M. A., Stankunas, K., Briesewitz, R., Crabtree, G. R., Wandless, T. J.  
2007; 17 (10): 2703-2705
- **Enhanced NFATc1 nuclear occupancy causes T cell activation independent of CD28 costimulation** *JOURNAL OF IMMUNOLOGY*  
Pan, M., Winslow, M. M., Chen, L., Kuo, A., Felsher, D., Crabtree, G. R.  
2007; 178 (7): 4315-4321
- **Chemical rescue of cleft palate and midline defects in conditional GSK-3 beta mice** *NATURE*  
Liu, K. J., Arron, J. R., Stankunas, K., Crabtree, G. R., Longaker, M. T.  
2007; 446 (7131): 79-82
- **Stringent control of NFATc1 nuclear occupancy is critical for maintaining balanced immune response** *GENE THERAPY AND MOLECULAR BIOLOGY*  
Pan, M., Winslow, M. M., Keum, J. S., Crabtree, G. R.  
2007; 11B: 171-176
- **Calcineurin/Nfat signaling is required for perinatal lung maturation and function** *JOURNAL OF CLINICAL INVESTIGATION*  
Dave, V., Childs, T., Xu, Y., Ikegami, M., Besnard, V., Maeda, Y., Wert, S. E., Neilson, J. R., Crabtree, G. R., Whitsett, J. A.  
2006; 116 (10): 2597-2609
- **Role of transcription factor NFAT in glucose and insulin homeostasis** *MOLECULAR AND CELLULAR BIOLOGY*  
Yang, T. T., Suk, H. Y., Yang, X., Olabisi, O., Yu, R. Y., Durand, J., Jelicks, L. A., Kim, J., Scherer, P. E., Wang, Y., Feng, Y., Rossetti, L., Graef, et al  
2006; 26 (20): 7372-7387
- **Calcineurin/NFAT signalling regulates pancreatic beta-cell growth and function** *NATURE*  
Heit, J. J., Apelqvist, A. A., Gu, X., Winslow, M. M., Neilson, J. R., Crabtree, G. R., Kim, S. K.  
2006; 443 (7109): 345-349
- **A Foxy tango with NFAT** *NATURE IMMUNOLOGY*  
Ho, L., Crabtree, G.  
2006; 7 (9): 906-908
- **Signaling via GSK-3 is required during midline skeletogenesis**  
Liu, K. J., Arron, J. R., Stankunas, K., Crabtree, G. R.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: 434-35
- **Increased dosage of DSCR1 and DYRK1A on chromosome 21 destabilizes NFAT regulation and accounts for Down syndrome phenotypes**  
Polleri, A., Graef, I. A., Arron, J. R., Winslow, M. M., Kim, S. K., Miyakawa, T., Francke, U., Crabtree, G. R.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: 324
- **Calcineurin/NFAT signaling in osteoblasts regulates bone mass** *DEVELOPMENTAL CELL*  
Winslow, M. M., Pan, M., Starbuck, M., Gallo, E. M., Deng, L., Karsenty, G., Crabtree, G. R.  
2006; 10 (6): 771-782
- **NFAT dysregulation by increased dosage of DSCR1 and DYRK1A on chromosome 21** *NATURE*  
Arron, J. R., Winslow, M. M., Polleri, A., Chang, C., Wu, H., Gao, X., Neilson, J. R., Chen, L., Heit, J. J., Kim, S. K., Yamasaki, N., Miyakawa, T., Francke, et al  
2006; 441 (7093): 595-600
- **Thymocyte negative selection is mediated by protein kinase C- and Ca<sup>2+</sup>-dependent transcriptional induction of bim of cell death** *JOURNAL OF IMMUNOLOGY*  
Cante-Barrett, K., Gallo, E. M., Winslow, M. M., Crabtree, G. R.  
2006; 176 (4): 2299-2306
- **The calcineurin phosphatase complex modulates immunogenic B cell responses** *IMMUNITY*  
Winslow, M. M., Gallo, E. M., Neilson, J. R., Crabtree, G. R.  
2006; 24 (2): 141-152
- **Rapamycin analogs with differential binding specificity permit orthogonal control of protein activity** *CHEMISTRY & BIOLOGY*

- Bayle, J. H., Grimley, J. S., Stankunas, K., Gestwicki, J. E., Wandless, T. J., Crabtree, G. R.  
2006; 13 (1): 99-107
- **Lymphocyte calcium signaling from membrane to nucleus** *NATURE IMMUNOLOGY*  
Gallo, E. M., Cante-Barrett, K., Crabtree, G. R.  
2006; 7 (1): 25-32
  - **'Nature-inspired' drug-protein complexes as inhibitors of A beta aggregation** *Conference on Molecular Mechanisms of Neurodegeneration*  
Bose, M., Gestwicki, J. E., Devasthali, V., Crabtree, G. R., Graef, I. A.  
PORTLAND PRESS LTD.2005: 543-547
  - **Probing Wnt signaling using small molecule regulation of protein stability and localization.** *64th Annual Meeting of the Society-for-Development-Biology*  
Liu, K. J., Arron, J. R., Gestwicki, J. E., Stankunas, K., Bayle, J. H., Devasthali, V., Baker, J. C., Crabtree, G. R.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2005: 580-80
  - **Integration of Notch 1 and Calcineurin/NFAT signaling pathways in keratinocyte growth and differentiation control** *DEVELOPMENTAL CELL*  
Mammucari, C., di Vignano, A. T., Sharov, A. A., Neilson, J., Havrda, M. C., Roop, D. R., Botchkarev, V. A., Crabtree, G. R., Dotto, G. P.  
2005; 8 (5): 665-676
  - **Recruitment of the extracellular signal-regulated kinase/ribosomal S6 kinase signaling pathway to the NFATc4 transcription activation complex** *MOLECULAR AND CELLULAR BIOLOGY*  
Yang, T. T., Xiong, Q. F., Graef, I. A., Crabtree, G. R., Chow, C. W.  
2005; 25 (3): 907-920
  - **Immunology. Decoding calcium signaling.** *Science*  
Winslow, M. M., Crabtree, G. R.  
2005; 307 (5706): 56-57
  - **Generalized resistance to thymic deletion in the NOD mouse: A polygenic trait characterized by defective induction of Bim** *IMMUNITY*  
Liston, A., Lesage, S., Gray, D. H., O'Reilly, L. A., Strasser, A., Fahrner, A. M., Boyd, R. L., Wilson, J., Baxter, A. G., Gallo, E. M., Crabtree, G. R., Peng, K. M., Wilson, et al  
2004; 21 (6): 817-830
  - **Harnessing chaperones to generate small-molecule inhibitors of amyloid beta aggregation** *SCIENCE*  
Gestwicki, J. E., Crabtree, G. R., Graef, I. A.  
2004; 306 (5697): 865-869
  - **A field of myocardial-endocardial NFAT signaling underlies heart valve morphogenesis** *CELL*  
CHANG, C. P., Neilson, J. R., Bayle, J. H., Gestwicki, J. E., Kuo, A., Stankunas, K., Graef, I. A., Crabtree, G. R.  
2004; 118 (5): 649-663
  - **Conditional regulation of Pax6 protein function with a chemical inducer of dimerization.**  
Bayle, H., Stankunas, K., Lin, Y. M., Wandless, T. J., Crabtree, G. R.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2004: 586
  - **Sequential myocardial-endocardial NFAT signaling initiates and perpetuates heart valve morphogenesis.**  
Chang, C. P., Neilson, Bayle, J. H., Gestwicki, J., Graef, Crabtree, G. R.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2004: 612
  - **A strategy for using bifunctional drugs to inhibit amyloid aggregation**  
Gestwicki, J. E., Crabtree, G. R., Graef, I. A.  
ELSEVIER SCIENCE INC.2004: S36
  - **Genetic loss of calcineurin blocks mechanical overload-induced skeletal muscle fiber type switching but not hypertrophy** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Parsons, S. A., Millay, D. P., Wilkins, B. J., Bueno, O. F., Tsika, G. L., Neilson, J. R., Liberatore, C. M., Yutzey, K. E., Crabtree, G. R., Tsika, R. W., Molkenin, J. D.  
2004; 279 (25): 26192-26200
  - **Biochemical and structural basis for partially redundant enzymatic and ranscriptional functions of DCoH and DCoH2** *BIOCHEMISTRY*

- Rose, R. B., Pullen, K. E., Bayle, J. H., Crabtree, G. R., Alber, T.  
2004; 43 (23): 7345-7355
- **Calcineurin-NFAT signaling and the design of small molecules for dissecting development and prevention of neural degeneration**  
Crabtree, G. R., Gestwicki, J., Graef  
FEDERATION AMER SOC EXP BIOL.2004: C115
  - **Calcineurin: a central controller of signalling in eukaryotes.** *EMBO reports*  
Aramburu, J., Heitman, J., Crabtree, G. R.  
2004; 5 (4): 343-348
  - **Calcineurin is required in urinary tract mesenchyme for the development of the pyeloureteral peristaltic machinery** *JOURNAL OF CLINICAL INVESTIGATION*  
CHANG, C. P., McDill, B. W., Neilson, J. R., Joist, H. E., Epstein, J. A., Crabtree, G. R., Chen, F.  
2004; 113 (7): 1051-1058
  - **Bifunctional small molecules as inhibitors of amyloidogenic protein-protein interactions.**  
Gestwicki, J. E., Graef, Crabtree, G. R.  
AMER CHEMICAL SOC.2004: U40-U41
  - **Calcineurin B1 is essential for positive but not negative selection during thymocyte development** *IMMUNITY*  
Neilson, J. R., Winslow, M. M., Hur, E. M., Crabtree, G. R.  
2004; 20 (3): 255-266
  - **Dynamic changes in transcription factor complexes during erythroid differentiation revealed by quantitative proteomics** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*  
Brand, M., Ranish, J. A., Kummer, N. T., Hamilton, J., Igarashi, K., Francastel, C., Chi, T. H., Crabtree, G. R., Aebersold, R., Groudine, M.  
2004; 11 (1): 73-80
  - **Conditional protein alleles using knockin mice and a chemical inducer of dimerization** *MOLECULAR CELL*  
Stankunas, K., Bayle, J. H., Gestwicki, J. E., Lin, Y. M., Wandless, T. J., Crabtree, G. R.  
2003; 12 (6): 1615-1624
  - **Sequential roles of Brg, the ATPase subunit of BAF chromatin remodeling complexes, in thymocyte development** *IMMUNITY*  
Chi, T. H., Wan, M. M., Lee, P. P., Akashi, K., Metzger, D., Chambon, P., Wilson, C. B., Crabtree, G. R.  
2003; 19 (2): 169-182
  - **Calcium signalling in lymphocytes** *CURRENT OPINION IN IMMUNOLOGY*  
Winslow, M. M., Neilson, J. R., Crabtree, G. R.  
2003; 15 (3): 299-307
  - **Neurotrophins and netrins require calcineurin/NFAT signaling to stimulate outgrowth of embryonic axons** *CELL*  
Graef, I. A., Wang, F., Charron, F., Chen, L., Neilson, J., Tessier-Lavigne, M., Crabtree, G. R.  
2003; 113 (5): 657-670
  - **Sonographic staging of the developmental status of mouse embryos in utero** *GENESIS*  
CHANG, C. P., Chen, L., Crabtree, G. R.  
2003; 36 (1): 7-11
  - **Protein kinase A negatively modulates the nuclear accumulation of NF-ATc1 by priming for subsequent phosphorylation by glycogen synthase kinase-3** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Sheridan, C. M., Heist, E. K., Beals, C. R., Crabtree, G. R., Gardner, P.  
2002; 277 (50): 48664-48676
  - **Identification of a polymorphic, neuron-specific chromatin remodeling complex** *GENES & DEVELOPMENT*  
Olave, I., Wang, W. D., Xue, Y. T., Kuo, A., Crabtree, G. R.  
2002; 16 (19): 2509-2517
  - **Genomic expression programs and the integration of the CD28 costimulatory signal in T cell activation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Diehn, M., Alizadeh, A. A., Rando, O. J., Liu, C. L., Stankunas, K., Botstein, D., Crabtree, G. R., Brown, P. O.

2002; 99 (18): 11796-11801

- **Hyperphenylalaninemia and impaired glucose tolerance in mice lacking the bifunctional DCoH gene** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Bayle, J. H., Randazzo, F., Johnen, G., KAUFMAN, S., Nagy, A., Rossant, J., Crabtree, G. R.  
2002; 277 (32): 28884-28891
- **Reciprocal regulation of CD4/CD8 expression by SWI/SNF-like BAF complexes** *NATURE*  
Chi, T. H., Wan, M., Zhao, K. J., Taniuchi, I., Chen, L., Littman, D. R., Crabtree, G. R.  
2002; 418 (6894): 195-199
- **NFAT signaling: Choreographing the social lives of cells** *CELL*  
Crabtree, G. R., Olson, E. N.  
2002; 109: S67-S79
- **Phosphatidylinositol-dependent actin filament binding by the SWI/SNF-like BAF chromatin remodeling complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Rando, O. J., Zhao, K. J., Janmey, P., Crabtree, G. R.  
2002; 99 (5): 2824-2829
- **Nuclear actin and actin-related proteins in chromatin remodeling** *ANNUAL REVIEW OF BIOCHEMISTRY*  
Olave, I. A., Reck-Peterson, S. L., Crabtree, G. R.  
2002; 71: 755-781
- **NFAT signaling in vertebrate development** *CURRENT OPINION IN GENETICS & DEVELOPMENT*  
Graef, I. A., Chen, F., Crabtree, G. R.  
2001; 11 (5): 505-512
- **Signals transduced by Ca<sup>2+</sup>/calcineurin and NFATc3/c4 pattern the developing vasculature** *CELL*  
Graef, I. A., Chen, F., Chen, L., Kuo, A., Crabtree, G. R.  
2001; 105 (7): 863-875
- **Cell signaling can direct either binary or graded transcriptional responses** *EMBO JOURNAL*  
Biggar, S. R., Crabtree, G. R.  
2001; 20 (12): 3167-3176
- **Monitoring the duration of antigen-receptor occupancy by calcineurin/glycogen-synthase-kinase-3 control of NF-AT nuclear shuttling** *CURRENT OPINION IN IMMUNOLOGY*  
Neilson, J., Stankunas, K., Crabtree, G. R.  
2001; 13 (3): 346-350
- **Evolutionary relationships among Rel domains indicate functional diversification by recombination** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Graef, I. A., Gastier, J. M., FRANCKE, U., Crabtree, G. R.  
2001; 98 (10): 5740-5745
- **Jun N-terminal kinase 2 modulates thymocyte apoptosis and T cell activation through c-Jun and nuclear factor of activated T cell (NF-AT)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Behrens, A., Sabapathy, K., Graef, I., Cleary, M., Crabtree, G. R., Wagner, E. F.  
2001; 98 (4): 1769-1774
- **Calcium, calcineurin, and the control of transcription** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Crabtree, G. R.  
2001; 276 (4): 2313-2316
- **Calcineurin inhibitors and the generalization of the presenting protein strategy** *ADVANCES IN PROTEIN CHEMISTRY, VOL 56*  
Vogel, K. W., Briesewitz, R., Wandless, T. J., Crabtree, G. R.  
2001; 56: 253-?
- **A Brg1 null mutation in the mouse reveals functional differences among mammalian SWI/SNF complexes** *MOLECULAR CELL*  
Bultman, S., Gebuhr, T., Yee, D., La Mantia, C., Nicholson, J., Gilliam, A., Randazzo, F., Metzger, D., Chambon, P., Crabtree, G., Magnuson, T.

2000; 6 (6): 1287-1295

- **Transcription - Regulation of the regulators** *NATURE*  
Stewart, S., Crabtree, G. R.  
2000; 408 (6808): 46-47
- **Structural basis of dimerization, coactivator recognition and MODY3 mutations in HNF-1 alpha** *NATURE STRUCTURAL BIOLOGY*  
Rose, R. B., Bayle, J. H., Endrizzi, J. A., Cronk, J. D., Crabtree, G. R., Alber, T.  
2000; 7 (9): 744-748
- **The vav exchange factor is an essential regulator in actin-dependent receptor translocation to the lymphocyte-antigen-presenting cell interface** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Wulfig, C., Bauch, A., Crabtree, G. R., DAVIS, M. M.  
2000; 97 (18): 10150-10155
- **Chemically regulated transcription factors reveal the persistence of repressor-resistant transcription after disrupting activator function** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Biggar, S. R., Crabtree, G. R.  
2000; 275 (33): 25381-25390
- **Perspectives: signal transduction. Inositol phosphates in the nucleus.** *Science*  
Chi, T. H., Crabtree, G. R.  
2000; 287 (5460): 1937-1939
- **Searching for a function for nuclear actin** *TRENDS IN CELL BIOLOGY*  
Rando, O. J., Zhao, K. J., Crabtree, G. R.  
2000; 10 (3): 92-97
- **The cytoskeleton in lymphocyte signaling** *ADVANCES IN IMMUNOLOGY, VOL 75*  
Bauch, A., Alt, F. W., Crabtree, G. R., Snapper, S. B.  
2000; 75: 89-114
- **L-type calcium channels and GSK-3 regulate the activity of NF-ATc4 in hippocampal neurons** *NATURE*  
Graef, I. A., Mermelstein, P. G., Stankunas, K., Neilson, J. R., Deisseroth, K., Tsien, R. W., Crabtree, G. R.  
1999; 401 (6754): 703-708
- **The interface of signal transduction and chromatin regulation.**  
Crabtree, G. R.  
FEDERATION AMER SOC EXP BIOL.1999: A1421
- **Continuous and widespread roles for the Swi-Snf complex in transcription** *EMBO JOURNAL*  
Biggar, S. R., Crabtree, G. R.  
1999; 18 (8): 2254-2264
- **Generic signals and specific outcomes: Signaling through Ca<sup>2+</sup>, calcineurin, and NF-AT** *CELL*  
Crabtree, G. R.  
1999; 96 (5): 611-614
- **Affinity modulation of small-molecule ligands by borrowing endogenous protein surfaces** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Briesewitz, R., Ray, G. T., Wandless, T. J., Crabtree, G. R.  
1999; 96 (5): 1953-1958
- **The actin cytoskeleton and lymphocyte activation** *CELL*  
Penninger, J. M., Crabtree, G. R.  
1999; 96 (1): 9-12
- **Signaling through calcium, calcineurin, and NF-AT in lymphocyte activation and development** *64th Symposia: Signaling and Gene Expression in the Immune System*  
Stankunas, K., Graef, I. A., Neilson, J. R., Park, S. H., Crabtree, G. R.  
COLD SPRING HARBOR LAB PRESS, PUBLICATIONS DEPT.1999: 505-516

- **The Actin Cytoskeleton and Lymphocyte Activation Cell --**  
Gerald R. Crabtree, Josef M. Penninger  
1999
- **Rapid and phosphoinositol-dependent binding of the SWI/SNF-like BAF complex to chromatin after T lymphocyte receptor signaling** *CELL*  
Zhao, K. J., Wang, W. D., Rando, O. J., Xue, Y. T., Swiderek, K., Kuo, A., Crabtree, G. R.  
1998; 95 (5): 625-636
- **Conditional activation and inactivation of genes using induced proximity.**  
Vogel, K., Yonezawa, A., Schreiber, S., Crabtree, G. R.  
AMER SOC CELL BIOLOGY.1998: 2A
- **Five SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin (SMARC) genes are dispersed in the human genome** *GENOMICS*  
Ring, H. Z., Vameghi-Meyers, V., Wang, W. D., Crabtree, G. R., FRANCKE, U.  
1998; 51 (1): 140-143
- **Defects in actin-cap formation in Vav-deficient mice implicate an actin requirement for lymphocyte signal transduction** *CURRENT BIOLOGY*  
Holsinger, L. J., Graef, I. A., Swat, W., Chi, T., Bautista, D. M., Davidson, L., Lewis, R. S., Alt, F. W., Crabtree, G. R.  
1998; 8 (10): 563-572
- **Role of the NF-ATc transcription factor in morphogenesis of cardiac valves and septum** *NATURE*  
de la Pompa, J. L., Timmerman, L. A., Takimoto, H., Yoshida, H., Elia, A. J., Samper, E., Potter, J., Wakeham, A., Marengere, L., Langille, B. L., Crabtree, G. R., Mak, T. W.  
1998; 392 (6672): 182-186
- **Architectural DNA binding by a high-mobility-group/kinesin-like subunit in mammalian SWI/SNF-related complexes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Wang, W. D., Chi, T. H., Xue, Y. T., Zhou, S., Kuo, A., Crabtree, G. R.  
1998; 95 (2): 492-498
- **Dimerization as a regulatory mechanism in signal transduction** *ANNUAL REVIEW OF IMMUNOLOGY*  
Klemm, J. D., Schreiber, S. L., Crabtree, G. R.  
1998; 16: 569-592
- **Characterization of *Saccharomyces cerevisiae* dna2 mutants suggests a role for the helicase late in S phase** *MOLECULAR BIOLOGY OF THE CELL*  
Fiorentino, D. F., Crabtree, G. R.  
1997; 8 (12): 2519-2537
- **Protein acetylation: more than chromatin modification to regulate transcription** *CHEMISTRY & BIOLOGY*  
Bayle, J. H., Crabtree, G. R.  
1997; 4 (12): 885-888
- **Small molecule-dependent genetic selection in stochastic nanodroplets as a means of detecting protein-ligand interactions on a large scale** *CHEMISTRY & BIOLOGY*  
Borchardt, A., Liberles, S. D., Biggar, S. R., Crabtree, G. R., Schreiber, S. L.  
1997; 4 (12): 961-968
- **Proximity and orientation underlie signaling by the non-receptor tyrosine kinase ZAP70** *EMBO JOURNAL*  
Graef, I. A., Holsinger, L. J., Diver, S., Schreiber, S. L., Crabtree, G. R.  
1997; 16 (18): 5618-5628
- **Redundant expression but selective utilization of nuclear factor of activated T cells family members** *JOURNAL OF IMMUNOLOGY*  
Timmerman, L. A., Healy, J. I., Ho, S. N., Chen, L., Goodnow, C. C., Crabtree, G. R.  
1997; 159 (6): 2735-2740
- **Rapid targeting of nuclear proteins to the cytoplasm** *CURRENT BIOLOGY*  
Klemm, J. D., Beals, C. R., Crabtree, G. R.



1997; 7 (9): 638-644

- **Diversity and specialization of mammalian SWI/SNF complexes**  
Wang, W. D., Crabtree, G. R.  
FEDERATION AMER SOC EXP BIOL.1997: A1300
- **The transcriptional paradox: Octamer factors and B and T cells** *SCIENCE*  
Graef, I. A., Crabtree, G. R.  
1997; 277 (5323): 193-194
- **Different nuclear signals are activated by the B cell receptor during positive versus negative signaling** *IMMUNITY*  
Healy, J. I., Dolmetsch, R. E., Timmerman, L. A., Cyster, J. G., Thomas, M. L., Crabtree, G. R., Lewis, R. S., Goodnow, C. C.  
1997; 6 (4): 419-428
- **Nuclear localization of NF-ATc by a calcineurin-dependent, cyclosporin-sensitive intramolecular interaction** *GENES & DEVELOPMENT*  
Beals, C. R., Clipstone, N. A., Ho, S. N., Crabtree, G. R.  
1997; 11 (7): 824-834
- **Nuclear export of NF-ATc enhanced by glycogen synthase kinase-3** *SCIENCE*  
Beals, C. R., Sheridan, C. M., Turck, C. W., Gardner, P., Crabtree, G. R.  
1997; 275 (5308): 1930-1933
- **Fas signal transduction triggers either proliferation or apoptosis in human fibroblasts** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Freiberg, R. A., Spencer, D. M., Choate, K. A., DUH, H. J., Schreiber, S. L., Crabtree, G. R., Khavari, P. A.  
1997; 108 (2): 215-219
- **Specific triggering of the Fas signal transduction pathway in normal human keratinocytes** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Freiberg, R. A., Spencer, D. M., Choate, K. A., Peng, P. D., Schreiber, S. L., Crabtree, G. R., Khavari, P. A.  
1996; 271 (49): 31666-31669
- **Three-part inventions: Intracellular signaling and induced proximity** *TRENDS IN BIOCHEMICAL SCIENCES*  
Crabtree, G. R., Schreiber, S. L.  
1996; 21 (11): 418-422
- **Rapid shuttling of NF-AT in discrimination of Ca<sup>2+</sup> signals and immunosuppression** *NATURE*  
Timmerman, L. A., Clipstone, N. A., Ho, S. N., Northrop, J. P., Crabtree, G. R.  
1996; 383 (6603): 837-840
- **Purification and biochemical heterogeneity of the mammalian SWI-SNF complex** *EMBO JOURNAL*  
Wang, W. D., Cote, J., Xue, Y., Zhou, S., Khavari, P. A., Biggar, S. R., Muchardt, C., Kalpana, G. V., Goff, S. P., Yaniv, M., Workman, J. L., Crabtree, G. R.  
1996; 15 (19): 5370-5382
- **Diversity and specialization of mammalian SWI/SNF complexes** *GENES & DEVELOPMENT*  
Wang, W. D., Xue, Y. T., Zhou, S., Kuo, A., Cairns, B. R., Crabtree, G. R.  
1996; 10 (17): 2117-2130
- **The mechanism of action of cyclosporin A and FK506** *Symposium on New Frontiers in the Immunoregulation of Allergic and Autoimmune Diseases*  
Ho, S., Clipstone, N., Timmermann, L., Northrop, J., Graef, I., Fiorentino, D., Nourse, J., Crabtree, G. R.  
ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS.1996: S40-S45
- **Dimeric ligands define a role for transcriptional activation domains in reinitiation** *NATURE*  
Ho, S. N., Biggar, S. R., Spencer, D. M., Schreiber, S. L., Crabtree, G. R.  
1996; 382 (6594): 822-826
- **Functional analysis of Fas signaling in vivo using synthetic inducers of dimerization** *CURRENT BIOLOGY*  
Spencer, D. M., Belshaw, P. J., Chen, L., Ho, S. N., Randazzo, F., Crabtree, G. R., Schreiber, S. L.  
1996; 6 (7): 839-847

- **CHARACTERIZATION OF T-CELL MUTANTS WITH DEFECTS IN CAPACITATIVE CALCIUM-ENTRY - GENETIC-EVIDENCE FOR THE PHYSIOLOGICAL ROLES OF CRAC CHANNELS** *JOURNAL OF CELL BIOLOGY*  
Fanger, C. M., Hoth, M., Crabtree, G. R., Lewis, R. S.  
1995; 131 (3): 655-667
- **A GENERAL STRATEGY FOR PRODUCING CONDITIONAL ALLELES OF SRC-LIKE TYROSINE KINASES** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Spencer, D. M., Graef, I., AUSTIN, D. J., Schreiber, S. L., Crabtree, G. R.  
1995; 92 (21): 9805-9809
- **SIGNAL-TRANSDUCTION IN T-LYMPHOCYTES USING A CONDITIONAL ALLELE OF SOS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Holsinger, L. J., Spencer, D. M., AUSTIN, D. J., Schreiber, S. L., Crabtree, G. R.  
1995; 92 (21): 9810-9814
- **NFATC3, A LYMPHOID-SPECIFIC NFATC FAMILY MEMBER THAT IS CALCIUM-REGULATED AND EXHIBITS DISTINCT DNA FINDING SPECIFICITY** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Ho, S. N., Thomas, D. J., Timmerman, L. A., Li, X., FRANCKE, U., Crabtree, G. R.  
1995; 270 (34): 19898-19907
- **ISOLATION OF MUTANT T-LYMPHOCYTES WITH DEFECTS IN CAPACITATIVE CALCIUM-ENTRY** *IMMUNITY*  
SERAFINI, A. T., Lewis, R. S., Clipstone, N. A., Bram, R. J., Fanger, C., Fiering, S., Herzenberg, L. A., Crabtree, G. R.  
1995; 3 (2): 239-250
- **CLONING AND CHROMOSOMAL LOCALIZATION OF THE HUMAN AND MURINE GENES FOR THE T-CELL TRANSCRIPTION FACTORS NFATC AND NFATP** *CYTOGENETICS AND CELL GENETICS*  
Li, X., Ho, S. N., Luna, J., Giacalone, J., Thomas, D. J., Timmerman, L. A., Crabtree, G. R., FRANCKE, U.  
1995; 68 (3-4): 185-191
- **INTERLEUKIN-2-MEDIATED ELIMINATION OF THE P27(KIP1) CYCLIN-DEPENDENT KINASE INHIBITOR PREVENTED BY RAPAMYCIN** *NATURE*  
Nourse, J., Firpo, E., Flanagan, W. M., Coats, S., Polyak, K., Lee, M. H., Massague, J., Crabtree, G. R., ROBERTS, J. M.  
1994; 372 (6506): 570-573
- **MOLECULAR ANALYSIS OF THE INTERACTION OF CALCINEURIN WITH DRUG-IMMUNOPHILIN COMPLEXES** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Clipstone, N. A., Fiorentino, D. F., Crabtree, G. R.  
1994; 269 (42): 26431-26437
- **SPECIFIC-INHIBITION OF FORMATION OF TRANSCRIPTION COMPLEXES BY A CALICHEAMICIN OLIGOSACCHARIDE - A PARADIGM FOR THE DEVELOPMENT OF TRANSCRIPTIONAL ANTAGONISTS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Ho, S. N., Boyer, S. H., Schreiber, S. L., Danishefsky, S. J., Crabtree, G. R.  
1994; 91 (20): 9203-9207
- **NF-AT COMPONENTS DEFINE A FAMILY OF TRANSCRIPTION FACTORS TARGETED IN T-CELL ACTIVATION** *NATURE*  
Northrop, J. P., Ho, S. N., Chen, L., Thomas, D. J., Timmerman, L. A., Nolan, G. P., Admon, A., Crabtree, G. R.  
1994; 369 (6480): 497-502
- **CLONING AND CHARACTERIZATION OF NF-AT(C) AND NF-AT(P) - THE CYTOPLASMIC COMPONENTS OF NF-AT** *5th International Conference on Mechanisms of Lymphocyte Activation and Immune Regulation*  
Ho, S., Timmerman, L., Northrop, J., Crabtree, G. R.  
PLENUM PRESS DIV PLENUM PUBLISHING CORP.1994: 167-173
- **BRG1 - A PUTATIVE MURINE HOMOLOG OF THE DROSOPHILA-BRAHMA GENE, A HOMEOTIC GENE REGULATOR** *DEVELOPMENTAL BIOLOGY*  
Randazzo, F. M., Khavari, P., Crabtree, G., Tamkun, J., Rossant, J.  
1994; 161 (1): 229-242
- **SIGNAL TRANSMISSION BETWEEN THE PLASMA-MEMBRANE AND NUCLEUS OF T-LYMPHOCYTES** *ANNUAL REVIEW OF BIOCHEMISTRY*

- Crabtree, G. R., Clipstone, N. A.  
1994; 63: 1045-1083
- **CONTROLLING SIGNAL-TRANSDUCTION WITH SYNTHETIC LIGANDS** *SCIENCE*  
Spencer, D. M., Wandless, T. J., Schreiber, S. L., Crabtree, G. R.  
1993; 262 (5136): 1019-1024
  - **BRG1 CONTAINS A CONSERVED DOMAIN OF THE SWI2/SNF2 FAMILY NECESSARY FOR NORMAL MITOTIC GROWTH AND TRANSCRIPTION** *NATURE*  
Khavari, P. A., Peterson, C. L., Tamkun, J. W., Mendel, D. B., Crabtree, G. R.  
1993; 366 (6451): 170-174
  - **PRIMARY EXTRAUTERINE ENDOMETRIAL STROMAL NEOPLASMS - A CLINICOPATHOLOGICAL STUDY OF 20 CASES AND A REVIEW OF THE LITERATURE** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY*  
Chang, K. L., CRABTREE, G. S., LIMTAN, S. K., Kempson, R. L., Hendrickson, M. R.  
1993; 12 (4): 282-296
  - **IDENTIFICATION OF THE IMMUNOPHILINS CAPABLE OF MEDIATING INHIBITION OF SIGNAL-TRANSDUCTION BY CYCLOSPORINE-A AND FK506 - ROLES OF CALCINEURIN BINDING AND CELLULAR LOCATION** *MOLECULAR AND CELLULAR BIOLOGY*  
Bram, R. J., Hung, D. T., Martin, P. K., Schreiber, S. L., Crabtree, G. R.  
1993; 13 (8): 4760-4769
  - **GENES FOR THE DIMERIZATION COFACTOR OF HEPATOCYTE NUCLEAR FACTOR-1-ALPHA (DCOH) ARE ON HUMAN AND MURINE CHROMOSOMES-10** *GENOMICS*  
MILATOVIICH, A., Mendel, D. B., Crabtree, G. R., FRANCKE, U.  
1993; 16 (1): 292-295
  - **Regulation of the HNF-1 homeodomain proteins by DCoH.** *Current opinion in genetics & development*  
Hansen, L. P., Crabtree, G. R.  
1993; 3 (2): 246-253
  - **CHARACTERIZATION OF THE NUCLEAR AND CYTOPLASMIC COMPONENTS OF THE LYMPHOID-SPECIFIC NUCLEAR FACTOR OF ACTIVATED T-CELLS (NF-AT) COMPLEX** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Northrop, J. P., Ullman, K. S., Crabtree, G. R.  
1993; 268 (4): 2917-2923
  - **JUN FAMILY MEMBERS ARE CONTROLLED BY A CALCIUM-REGULATED, CYCLOSPORINE-A-SENSITIVE SIGNALING PATHWAY IN ACTIVATED LYMPHOCYTES-T** *GENES & DEVELOPMENT*  
Ullman, K. S., Northrop, J. P., Admon, A., Crabtree, G. R.  
1993; 7 (2): 188-196
  - **THE IDENTIFICATION OF A TRUNCATED FORM OF HNF1-BETA WHICH POTENTIALLY FUNCTIONS AS A REPRESSOR OF TRANSACTIVATION BY HNF1-BETA**  
HANSEN, L. P., CRABTREE, G. R.  
WILEY-LISS.1993: 75
  - **CALCINEURIN IS A KEY SIGNALING ENZYME IN T-LYMPHOCYTE ACTIVATION AND THE TARGET OF THE IMMUNOSUPPRESSIVE DRUGS CYCLOSPORINE-A AND FK506** *Conference on Immunosuppressive and Antiinflammatory Drugs*  
Clipstone, N. A., Crabtree, G. R.  
NEW YORK ACAD SCIENCES.1993: 20-30
  - **RAPAMYCIN INHIBITS P34(CDC2) EXPRESSION AND ARRESTS T-LYMPHOCYTE PROLIFERATION AT THE G1/S TRANSITION** *Conference on Immunosuppressive and Antiinflammatory Drugs*  
Flanagan, W. M., Crabtree, G. R.  
NEW YORK ACAD SCIENCES.1993: 31-37
  - **RAPAMYCIN SELECTIVELY INHIBITS INTERLEUKIN-2 ACTIVATION OF P70 S6 KINASE** *NATURE*  
Kuo, C. J., Chung, J. K., Fiorentino, D. F., Flanagan, W. M., Blenis, J., Crabtree, G. R.  
1992; 358 (6381): 70-73
  - **IDENTIFICATION OF CALCINEURIN AS A KEY SIGNALING ENZYME IN LYMPHOCYTE-T ACTIVATION** *NATURE*

- Clipstone, N. A., Crabtree, G. R.  
1992; 357 (6380): 695-697
- **NEGATIVE REGULATION OF INTERLEUKIN-2 TRANSCRIPTION BY THE GLUCOCORTICOID RECEPTOR** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Northrop, J. P., Crabtree, G. R., Mattila, P. S.  
1992; 175 (5): 1235-1245
  - **A TRANSCRIPTIONAL HIERARCHY INVOLVED IN MAMMALIAN CELL-TYPE SPECIFICATION** *NATURE*  
Kuo, C. J., Conley, P. B., Chen, L., Sladek, F. M., Darnell, J. E., Crabtree, G. R.  
1992; 355 (6359): 457-461
  - **INVITRO TRANSCRIPTION FAITHFULLY REFLECTING T-CELL ACTIVATION REQUIREMENTS** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Flanagan, W. M., Crabtree, G. R.  
1992; 267 (1): 399-406
  - **REGULATION OF THE INTERLEUKIN-2 GENE** *CHEMICAL IMMUNOLOGY*  
RIEGEL, J. S., Corthesy, B., Flanagan, W. M., Crabtree, G. R.  
1992; 51: 266-298
  - **CHARACTERIZATION OF A COFACTOR THAT REGULATES DIMERIZATION OF A MAMMALIAN HOMEODOMAIN PROTEIN** *SCIENCE*  
Mendel, D. B., Khavari, P. A., Conley, P. B., Graves, M. K., Hansen, L. P., Admon, A., Crabtree, G. R.  
1991; 254 (5039): 1762-1767
  - **SITE OF ACTION OF CYCLOSPORINE AND FK-506 IN THE PATHWAYS OF COMMUNICATION BETWEEN THE LYMPHOCYTE-T ANTIGEN RECEPTOR AND THE EARLY ACTIVATION GENES** *INTERNATIONAL CONGRESS ON FK 506*  
Ullman, K. S., Flanagan, W. M., COTHESY, B., Kuo, P., Northrop, J. P., Crabtree, G. R.  
ELSEVIER SCIENCE INC.1991: 2845-45
  - **ACTIVATION OF EARLY GENE-EXPRESSION IN LYMPHOCYTES-T BY OCT-1 AND AN INDUCIBLE PROTEIN, OAP40** *SCIENCE*  
Ullman, K. S., Flanagan, W. M., Edwards, C. A., Crabtree, G. R.  
1991; 254 (5031): 558-562
  - **NUCLEAR-ASSOCIATION OF A T-CELL TRANSCRIPTION FACTOR BLOCKED BY FK-506 AND CYCLOSPORINE-A** *NATURE*  
Flanagan, W. M., Corthesy, B., Bram, R. J., Crabtree, G. R.  
1991; 352 (6338): 803-807
  - **INDEPENDENT REGULATION OF HNF-1-ALPHA AND HNF-1-BETA RETINOIC ACID IN F9-TERATOCARCINOMA CELLS** *EMBO JOURNAL*  
Kuo, C. J., Mendel, D. B., Hansen, L. P., Crabtree, G. R.  
1991; 10 (8): 2231-2236
  - **HNF-1-ALPHA AND HNF-1-BETA (VHNF-1) SHARE DIMERIZATION AND HOMEODOMAINS, BUT NOT ACTIVATION DOMAINS, AND FORM HETERODIMERS INVITRO** *GENES & DEVELOPMENT*  
Mendel, D. B., Hansen, L. P., Graves, M. K., Conley, P. B., Crabtree, G. R.  
1991; 5 (6): 1042-1056
  - **HNF-1, A MEMBER OF A NOVEL CLASS OF DIMERIZING HOMEODOMAIN PROTEINS** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Mendel, D. B., Crabtree, G. R.  
1991; 266 (2): 677-680
  - **THE ACTIONS OF CYCLOSPORINE-A AND FK506 SUGGEST A NOVEL STEP IN THE ACTIVATION OF LYMPHOCYTES-T** *EMBO JOURNAL*  
Mattila, P. S., Ullman, K. S., Fiering, S., EMMEL, E. A., McCutcheon, M., Crabtree, G. R., Herzenberg, L. A.  
1990; 9 (13): 4425-4433
  - **MOLECULAR-CLONING, FUNCTIONAL EXPRESSION, AND CHROMOSOMAL LOCALIZATION OF MOUSE HEPATOCYTE NUCLEAR FACTOR-I** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Kuo, C. J., Conley, P. B., Hsieh, C. L., FRANCKE, U., Crabtree, G. R.  
1990; 87 (24): 9838-9842
  - **SINGLE CELL ASSAY OF A TRANSCRIPTION FACTOR REVEALS A THRESHOLD IN TRANSCRIPTION ACTIVATED BY SIGNALS EMANATING FROM THE T-CELL ANTIGEN RECEPTOR** *GENES & DEVELOPMENT*

- Fiering, S., Northrop, J. P., Nolan, G. P., Mattila, P. S., Crabtree, G. R., Herzenberg, L. A.  
1990; 4 (10): 1823-1834
- **CELL TYPE SPECIFICITY AND ACTIVATION REQUIREMENTS FOR NFAT-1 (NUCLEAR FACTOR OF ACTIVATED T-CELLS) TRANSCRIPTIONAL ACTIVITY DETERMINED BY A NEW METHOD USING TRANSGENIC MICE TO ASSAY TRANSCRIPTIONAL ACTIVITY OF AN INDIVIDUAL NUCLEAR FACTOR** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Verweij, C. L., Guidos, C., Crabtree, G. R.  
1990; 265 (26): 15788-15795
  - **HNF-1 SHARES 3 SEQUENCE MOTIFS WITH THE POU DOMAIN PROTEINS AND IS IDENTICAL TO LF-B1 AND APF** *GENES & DEVELOPMENT*  
Baumhueter, S., Mendel, D. B., Conley, P. B., Kuo, C. J., Turk, C., Graves, M. K., Edwards, C. A., Courtois, G., Crabtree, G. R.  
1990; 4 (3): 372-379
  - **LYMPHOCYTE-T ANTIGEN INTERACTIONS IN TRANSPLANT REJECTION** *NEW ENGLAND JOURNAL OF MEDICINE*  
KRENSKY, A. M., WEISS, A., Crabtree, G., DAVIS, M. M., Parham, P.  
1990; 322 (8): 510-517
  - **TRANSMISSION OF SIGNALS FROM THE LYMPHOCYTE-T ANTIGEN RECEPTOR TO THE GENES RESPONSIBLE FOR CELL-PROLIFERATION AND IMMUNE FUNCTION - THE MISSING LINK** *ANNUAL REVIEW OF IMMUNOLOGY*  
Ullman, K. S., Northrop, J. P., Verweij, C. L., Crabtree, G. R.  
1990; 8: 421-452
  - **CYCLOSPORINE-A SPECIFICALLY INHIBITS FUNCTION OF NUCLEAR PROTEINS INVOLVED IN T-CELL ACTIVATION** *SCIENCE*  
EMMEL, E. A., Verweij, C. L., Durand, D. B., Higgins, K. M., Lacy, E., Crabtree, G. R.  
1989; 246 (4937): 1617-1620
  - **THE ROLE OF HNF-1 IN LIVER-SPECIFIC GENE-EXPRESSION** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*  
Baumhueter, S., Courtois, G., Morgan, J. G., Crabtree, G. R.  
1989; 557: 272-279
  - **CONTINGENT GENETIC REGULATORY EVENTS IN LYMPHOCYTE-T ACTIVATION** *SCIENCE*  
Crabtree, G. R.  
1989; 243 (4889): 355-361
  - **THE ROLE OF HNF-1 IN LIVER-SPECIFIC GENE-EXPRESSION** *CONF ON REGULATION OF THE ACUTE PHASE AND IMMUNE RESPONSES - A NEW CYTOKINE : INTERLEUKIN-6*  
Baumhueter, S., Courtois, G., Morgan, J. G., Crabtree, G. R.  
NEW YORK ACAD SCIENCES.1989: 272-279
  - **PURIFIED HEPATOCYTE NUCLEAR FACTOR-I INTERACTS WITH A FAMILY OF HEPATOCYTE-SPECIFIC PROMOTERS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Courtois, G., Baumhueter, S., Crabtree, G. R.  
1988; 85 (21): 7937-7941
  - **A VARIANT NUCLEAR-PROTEIN IN DEDIFFERENTIATED HEPATOMA-CELLS BINDS TO THE SAME FUNCTIONAL SEQUENCES IN THE BETA-FIBRINOGEN GENE PROMOTER AS HNF-1** *EMBO JOURNAL*  
Baumhueter, S., Courtois, G., Crabtree, G. R.  
1988; 7 (8): 2485-2493
  - **IDENTIFICATION OF A PUTATIVE REGULATOR OF EARLY T-CELL ACTIVATION GENES** *SCIENCE*  
Shaw, J. P., Utz, P. J., Durand, D. B., Toole, J. J., EMMEL, E. A., Crabtree, G. R.  
1988; 241 (4862): 202-205
  - **SP1, A CAAT-BINDING FACTOR, AND THE ADENOVIRUS MAJOR LATE PROMOTER TRANSCRIPTION FACTOR INTERACT WITH FUNCTIONAL REGIONS OF THE GAMMA-FIBRINOGEN PROMOTER** *MOLECULAR AND CELLULAR BIOLOGY*  
Morgan, J. G., Courtois, G., Fourel, G., Chodosh, L. A., Campbell, L., Evans, E., Crabtree, G. R.  
1988; 8 (6): 2628-2637
  - **CHARACTERIZATION OF ANTIGEN RECEPTOR RESPONSE ELEMENTS WITHIN THE INTERLEUKIN-2 ENHANCER** *MOLECULAR AND CELLULAR BIOLOGY*

Durand, D. B., Shaw, J. P., Bush, M. R., Replogle, R. E., Belagaje, R., Crabtree, G. R.  
1988; 8 (4): 1715-1724

● **IDENTIFICATION AND CHARACTERIZATION OF NUCLEAR PROTEINS INVOLVED IN THE EXPRESSION OF FIBRINOGEN GENES** *8TH INTERNATIONAL FIBRINOGEN WORKSHOP*

Courtois, G., Morgan, J., Baumhueter, S., Crabtree, G. R.  
ELSEVIER SCIENCE PUBL B V.1988: 3-6

● **INTERACTION OF A LIVER-SPECIFIC NUCLEAR FACTOR WITH THE FIBRINOGEN AND ALPHA-1-ANTITRYPSIN PROMOTERS** *SCIENCE*

Courtois, G., Morgan, J. G., Campbell, L. A., Fourel, G., Crabtree, G. R.  
1987; 238 (4827): 688-692