



## Gary Peltz

Professor of Anesthesiology, Perioperative and Pain Medicine

### Bio

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#### ACADEMIC APPOINTMENTS

- Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- Transformative RO1 award, NIH/NIDDK (2010)
- One of 10 top pharmaceutical research executives, Nature Publications (2006)

#### PROFESSIONAL EDUCATION

- M.D., Stanford University , Medicine (1983)
- Ph.D., Stanford University , Structural Biology (1983)
- Fellowship, University of California-San Francisco , Rheumatology (1989)
- Residency, University of California-San Francisco , Internal Medicine (1985)
- Board Certification, American Board of Internal Medicine , Internal Medicine, Rheumatology (1989)

#### COMMUNITY AND INTERNATIONAL WORK

- Computational Genetic Analysis of Biomedical Traits in Mice

#### LINKS

- My Lab Site: <http://med.stanford.edu/peltzlab/>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The laboratory develops and uses state of the art genomic methods to identify genetic factors affecting disease susceptibility, and to translate these findings into new treatments.

Computational mouse genetics: To reduce the cost and the time frame for genetic research, we developed a more efficient method for performing genetic analysis in mice. For this analysis, a property of interest is measured in ten or more inbred mouse strains; genetic factors are then computationally predicted by identifying genomic regions where the pattern of genetic variation correlates with the distribution of trait values among the inbred strains. This enables genetic analyses to be completed in far less time (days vs. years) and with far fewer personnel than conventional methods. In 2011, we developed a 'next generation' version of this computational method,

which analyzes whole genome sequence data for 20 inbred strains. This method has been used to analyze the genetic basis for 16 different biomedical traits. Clinical trials are currently underway that test the efficacy of 2 therapies that were generated by these genetic discoveries: a pilot study at Stanford to alleviate incisional pain after surgery and a multi-center NIH funded trial for preventing narcotic drug withdrawal in infants born to narcotic consuming mothers was begun in 2012.

Metabolomic analysis: We are developing novel methods for analyzing changes in cellular metabolites caused by drug treatment or in disease. The metabolomic results are integrated with the genetic data to identify new disease mechanisms and to develop new diagnostics.

Mice with human Livers: This is a novel experimental in vivo platform that replaces mouse liver with functioning human liver tissue. The reconstituted liver was shown to be a mature and functioning "human organ." It had zonal position-specific enzyme expression and bile duct function representative of mature human liver, and could generate a human-specific profile of drug metabolism. These features make this chimeric mouse the preferred experimental platform for in vivo analysis of drug metabolism or liver regeneration. The mice are maintained in a specialized barrier facility that was designed for housing these mice. The humanized mice are being used to: develop a novel platform for predicting human drug metabolism and human drug responses; for understanding stem cell development; and to develop a new method for liver transplantation that uses autologous cells without immunosuppression.

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Weida Liu, Wenlong Ren

## Publications

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### PUBLICATIONS

- **Preconception opioids interact with mouse strain to alter morphine withdrawal in the next generation.** *Psychopharmacology*  
Toorie, A., Hall, C. D., Vassoler, F. M., Peltz, G., Byrnes, E. M.  
2024
- **Hepatic organoids move from adolescence to maturity.** *Liver international : official journal of the International Association for the Study of the Liver*  
Guan, Y., Peltz, G.  
2024
- **ONDANSETRON FOR THE TREATMENT OF NEONATAL OPIOID WITHDRAWAL SYNDROME.**  
Lam, K., Mondick, J., Peltz, G., Kraft, W.  
WILEY.2024: S91
- **GenomeMUSter mouse genetic variation service enables multitrait, multipopulation data integration and analysis.** *Genome research*  
Ball, R. L., Bogue, M. A., Liang, H., Srivastava, A., Ashbrook, D. G., Lamoureux, A., Gerring, M. W., Hatoum, A. S., Kim, M. J., He, H., Emerson, J., Berger, A. K., Walton, et al  
2024
- **Genetic Discovery Enabled by A Large Language Model.** *bioRxiv : the preprint server for biology*  
Tu, T., Fang, Z., Cheng, Z., Spasic, S., Palepu, A., Stankovic, K. M., Natarajan, V., Peltz, G.  
2023
- **Neuron Navigator 1 (Nav1) regulates the response to cocaine in mice.** *Communications biology*  
Bagley, J. R., Tan, Y., Zhu, W., Cheng, Z., Takeda, S., Fang, Z., Arslan, A., Wang, M., Guan, Y., Jiang, L., Jian, R., Gu, F., Parada, et al  
2023; 6 (1): 1053
- **Analysis of structural variation among inbred mouse strains.** *BMC genomics*  
Arslan, A., Fang, Z., Wang, M., Tan, Y., Cheng, Z., Chen, X., Guan, Y., J Pisani, L., Yoo, B., Bejerano, G., Peltz, G.  
2023; 24 (1): 97

- **GSEApY: a comprehensive package for performing gene set enrichment analysis in Python.** *Bioinformatics (Oxford, England)*  
Fang, Z., Liu, X., Peltz, G.  
2022
- **Dysregulated lipid synthesis by oncogenic IDH1 mutation is a targetable synthetic lethal vulnerability.** *Cancer discovery*  
Thomas, D., Wu, M., Nakauchi, Y., Zheng, M., Thompson-Peach, C. A., Lim, K., Landberg, N., Kohnke, T., Robinson, N., Kaur, S., Kutyna, M., Stafford, M., Hiwase, et al  
2022
- **Optimizing A Therapy for Opiate Use Disorders: Characterizing Ondansetron Pharmacokinetics in Blood and Brain.** *Clinical and translational science*  
Wu, M., Cheng, Z., Le, A. T., Tan, Y., Peltz, G.  
2022
- **Ondansetron to reduce neonatal opioid withdrawal severity a randomized clinical trial.** *Journal of perinatology : official journal of the California Perinatal Association*  
Peltz, G., Jansson, L. M., Adeniyi-Jones, S., Cohane, C., Drover, D., Shafer, S., Wang, M., Wu, M., Govindaswami, B., Jegatheesan, P., Argani, C., Khan, S., Kraft, et al  
2022
- **Clinical Application of Induced Hepatocyte-like Cells Produced from Mesenchymal Stromal Cells: A Literature Review.** *Cells*  
Bogliotti, Y., Vander Roest, M., Mattis, A. N., Gish, R. G., Peltz, G., Anwyl, R., Kivlighn, S., Schuur, E. R.  
2022; 11 (13)
- **Zhx2 is a candidate gene underlying oxymorphone metabolite brain concentration associated with state-dependent oxycodone reward.** *The Journal of pharmacology and experimental therapeutics*  
Beierle, J. A., Yao, E. J., Goldstein, S. I., Lynch, W. B., Scotellaro, J. L., Shah, A. A., Sena, K. D., Wong, A. L., Linnertz, C. L., Averin, O., Moody, D. E., Reilly, C. A., Peltz, et al  
2022
- **An Automated Multi-Modal Graph-Based Pipeline for Mouse Genetic Discovery.** *Bioinformatics (Oxford, England)*  
Fang, Z., Peltz, G.  
2022
- **A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Beierle, J. A., Yao, E. J., Goldstein, S. I., Scotellaro, J. L., Sena, K. D., Averin, O., Moody, D. E., Reilly, C. A., Emili, A., Peltz, G., Ferris, M. T., Bryant, C. D.  
2022; 36 Suppl 1
- **Genetic basis of thermal nociceptive sensitivity and brain weight in a BALB/c reduced complexity cross.** *Molecular pain*  
Beierle, J. A., Yao, E. J., Goldstein, S. I., Scotellaro, J. L., Sena, K. D., Linnertz, C. A., Willits, A. B., Kader, L., Young, E. E., Peltz, G., Emili, A., Ferris, M. T., Bryant, et al  
2022; 18: 17448069221079540
- **A human multi-lineage hepatic organoid model for liver fibrosis.** *Nature communications*  
Guan, Y., Enejder, A., Wang, M., Fang, Z., Cui, L., Chen, S., Wang, J., Tan, Y., Wu, M., Chen, X., Johansson, P. K., Osman, I., Kunimoto, et al  
2021; 12 (1): 6138
- **ZHX2 IS A CANDIDATE GENE UNDERLYING BRAIN OXYMORPHONE CONCENTRATION AND OXYCODONE STATE-DEPENDENT LEARNING OF OPIOID REWARD IN A BALB/C REDUCED COMPLEXITY CROSS**  
Beierle, J., Yao, E., Scotellaro, J., Averin, O., Moody, D., Peltz, G., Ferris, M., Bryant, C.  
ELSEVIER.2021: E48
- **Genetic background determines behavioral responses during fear conditioning.** *Neurobiology of learning and memory*  
Seemiller, L. R., Mooney-Leber, S. M., Henry, E., Hess, A., Druffner, A., Peltz, G., Gould, T. J.  
2021: 107501
- **Engineered Matrices Enable the Culture of Human Patient-Derived Intestinal Organoids.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*  
Hunt, D. R., Klett, K. C., Mascharak, S., Wang, H., Gong, D., Lou, J., Li, X., Cai, P. C., Suhar, R. A., Co, J. Y., LeSavage, B. L., Foster, A. A., Guan, et al  
2021; 8 (10): 2004705
- **Engineered Matrices Enable the Culture of Human Patient-Derived Intestinal Organoids** *ADVANCED SCIENCE*

Hunt, D. R., Klett, K. C., Mascharak, S., Wang, H. Y., Gong, D., Lou, J., Li, X., Cai, P. C., Suhar, R. A., Co, J. Y., LeSavage, B. L., Foster, A. A., Guan, et al  
2021

- **What Have We Learned (or Expect to) From Analysis of Murine Genetic Models Related to Substance Use Disorders?** *Frontiers in psychiatry*  
Peltz, G., Tan, Y.  
1800; 12: 793961
- **Genetic Differences in Dorsal Hippocampus Acetylcholinesterase Activity Predict Contextual Fear Learning Across Inbred Mouse Strains.** *Frontiers in psychiatry*  
Mooney-Leber, S. M., Zeid, D., Garcia-Trevizo, P., Seemiller, L. R., Bogue, M. A., Grubb, S. C., Peltz, G., Gould, T. J.  
2021; 12: 737897
- **The Effect of Population Structure on Murine Genome-Wide Association Studies.** *Frontiers in genetics*  
Wang, M., Fang, Z., Yoo, B., Bejerano, G., Peltz, G.  
2021; 12: 745361
- **Transcription factor p73 regulates Th1 differentiation.** *Nature communications*  
Ren, M. n., Kazemian, M. n., Zheng, M. n., He, J. n., Li, P. n., Oh, J. n., Liao, W. n., Li, J. n., Rajaseelan, J. n., Kelsall, B. L., Peltz, G. n., Leonard, W. J.  
2020; 11 (1): 1475
- **The Phosphatidylethanolamine Biosynthesis Pathway Provides a New Target for Cancer Chemotherapy.** *Journal of hepatology*  
Guan, Y. n., Chen, X. n., Wu, M. n., Zhu, W. n., Arslan, A. n., Takeda, S. n., Nguyen, M. H., Majeti, R. n., Thomas, D. n., Zheng, M. n., Peltz, G. n.  
2019
- **IDH1 Mutant AML Is Susceptible to Targeting De Novo Lipid Synthesis Independent of 2-Hydroxyglutarate and Has a Distinct Metabolic Profile from IDH2 Mutant AML**  
Thomas, D., Nakauchi, Y., Wu, M., Zheng, M., Sinha, S., Dill, D., Peltz, G., Majeti, R.  
AMER SOC HEMATOLOGY.2018
- **Laminin alpha 1 is a genetic modifier of TGF-beta 1-stimulated pulmonary fibrosis** *JCI INSIGHT*  
Lee, C., Cho, S., Cho, W., Park, J., Lee, J., Choi, A. M., Rosas, I. O., Zheng, M., Peltz, G., Lee, C., Elias, J. A.  
2018; 3 (18)
- **A Flawed Design Produces Flawed Results.** *Journal of addiction medicine*  
Peltz, G.  
2018; 12 (3): 252
- **The Neurobiology of Opioid Addiction and the Potential for Prevention Strategies.** *JAMA*  
Peltz, G., Sudhof, T. C.  
2018
- **Laminin Alpha1 Is a Genetic Modifier of TGF-beta1-Stimulated Pulmonary Fibrosis**  
Lee, C., Cho, S., Cho, W., Park, J., Choi, A. M., Rosas, I. O., Zheng, M., Peltz, G., Lee, C., Elias, J. A.  
AMER THORACIC SOC.2018
- **Human hepatic organoids for the analysis of human genetic diseases.** *JCI insight*  
Guan, Y., Xu, D., Garfin, P. M., Ehmer, U., Hurwitz, M., Enns, G., Michie, S., Wu, M., Zheng, M., Nishimura, T., Sage, J., Peltz, G.  
2017; 2 (17)
- **Profiling of ARDS Pulmonary Edema Fluid Identifies a Metabolically Distinct Subset.** *American journal of physiology. Lung cellular and molecular physiology*  
Rogers, A. J., Contrepois, K., Wu, M., Zheng, M., Peltz, G., Ware, L. B., Matthay, M. A.  
2017: ajplung 00438 2016-?
- **Dynamic landscape and regulation of RNA editing in mammals.** *Nature*  
Tan, M. H., Li, Q. n., Shanmugam, R. n., Piskol, R. n., Kohler, J. n., Young, A. N., Liu, K. I., Zhang, R. n., Ramaswami, G. n., Ariyoshi, K. n., Gupte, A. n., Keegan, L. P., George, et al  
2017; 550 (7675): 249–54
- **Can Humanized Mice Predict Drug "Behavior" in Humans?** *Annual review of pharmacology and toxicology*  
Xu, D., Peltz, G.

2016; 56: 323-38

- **Palonosetron and hydroxyzine pre-treatment reduces the objective signs of experimentally-induced acute opioid withdrawal in humans: a double-blinded, randomized, placebo-controlled crossover study.** *American journal of drug and alcohol abuse*  
Erlendson, M. J., D'Arcy, N., Encisco, E. M., Yu, J. J., Rincon-Cruz, L., Peltz, G., Clark, J. D., Chu, L. F.  
2016: 1-9
- **Treating Liver Fibrosis: (Re)Programmed to Succeed.** *Cell stem cell*  
Guan, Y., Xu, D., Peltz, G.  
2016; 18 (6): 683-4
- **A Pharmacogenetic Discovery: Cystamine Protects Against Haloperidol-Induced Toxicity and Ischemic Brain Injury** *GENETICS*  
Zhang, H., Zheng, M., Wu, M., Xu, D., Nishimura, T., Nishimura, Y., Giffard, R., Xiong, X., Xu, L. J., Clark, J. D., Sahbaie, P., Dill, D. L., Peltz, et al  
2016; 203 (1): 599-?
- **The multiple PDZ domain protein Mpdz/MUPP1 regulates opioid tolerance and opioid-induced hyperalgesia** *BMC GENOMICS*  
Donaldson, R., Sun, Y., Liang, D., Zheng, M., Sahbaie, P., Dill, D. L., Peltz, G., Buck, K. J., Clark, J. D.  
2016; 17
- **Quantitative CRISPR interference screens in yeast identify chemical-genetic interactions and new rules for guide RNA design.** *Genome biology*  
Smith, J. D., Suresh, S., Schlecht, U., Wu, M., Wagih, O., Peltz, G., Davis, R. W., Steinmetz, L. M., Parts, L., St Onge, R. P.  
2016; 17 (1): 45-?
- **Palonosetron and hydroxyzine pre-treatment reduces the objective signs of experimentally-induced acute opioid withdrawal in humans: a double-blinded, randomized, placebo-controlled crossover study** *The American Journal of Drug and Alcohol Abuse*  
Erlendson, M., D'Arcy, N., Encisco, E., Yu, J., Rincon-Cruz, L., Peltz, G., Clark, D. J., Chu, L. F.  
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- **Can Humanized Mice Predict Drug "Behavior" in Humans?** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 56*  
Xu, D., Peltz, G.  
2016; 56: 323-338
- **Long-Acting Opioids for Treating Neonatal Abstinence Syndrome A High Price for a Short Stay?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Peltz, G., Anand, K. J.  
2015; 314 (19): 2023-2024
- **Humanized Thymidine Kinase-NOG Mice Can Be Used to Identify Drugs That Cause Animal-Specific Hepatotoxicity: A Case Study with Furosemide** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*  
Xu, D., Michie, S. A., Zheng, M., Takeda, S., Wu, M., Peltz, G.  
2015; 354 (1): 73-78
- **Ondansetron pharmacokinetics in pregnant women and neonates: towards a new treatment for neonatal abstinence syndrome.** *Clinical pharmacology & therapeutics*  
Elkomy, M., Sultan, P., Carvalho, B., Peltz, G., Wu, M., Clavijo, C., Galinkin, J., Drover, D.  
2015; 97 (2): 167-176
- **The role of abcb5 alleles in susceptibility to haloperidol-induced toxicity in mice and humans.** *PLoS medicine*  
Zheng, M., Zhang, H., Dill, D. L., Clark, J. D., Tu, S., Yablonovitch, A. L., Tan, M. H., Zhang, R., Rujescu, D., Wu, M., Tessarollo, L., Vieira, W., Gottesman, et al  
2015; 12 (2): e1001782
- **Chimeric TK-NOG Mice: A Predictive Model for Cholestatic Human Liver Toxicity.** *journal of pharmacology and experimental therapeutics*  
Xu, D., Wu, M., Nishimura, S., Nishimura, T., Michie, S. A., Zheng, M., Yang, Z., Yates, A. J., Day, J. S., Hillgren, K. M., Takeda, S. T., Guan, Y., Guo, et al  
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- **The role of Abcb5 alleles in susceptibility to haloperidol-induced toxicity in mice and humans.** *PLoS medicine*  
Zheng, M., Zhang, H., Dill, D. L., Clark, J. D., Tu, S., Yablonovitch, A. L., Tan, M. H., Zhang, R., Rujescu, D., Wu, M., Tessarollo, L., Vieira, W., Gottesman, et al  
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- **The Netrin-1 receptor DCC is a regulator of maladaptive responses to chronic morphine administration** *BMC GENOMICS*  
Liang, D., Zheng, M., Sun, Y., Sahbaie, P., Low, S. A., Peltz, G., Scherrer, G., Flores, C., Clark, J. D.

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- **Fialuridine induces acute liver failure in chimeric TK-NOG mice: a model for detecting hepatic drug toxicity prior to human testing.** *PLoS medicine*  
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2014; 11 (4)
- **Enabling Autologous Human Liver Regeneration With Differentiated Adipocyte Stem Cells** *CELL TRANSPLANTATION*  
Xu, D., Nishimura, T., Zheng, M., Wu, M., Su, H., Sato, N., Lee, G., Michie, S., Glenn, J., Peltz, G.  
2014; 23 (12): 1573-1584
- **Liquid chromatography/mass spectrometry methods for measuring dipeptide abundance in non-small-cell lung cancer.** *Rapid communications in mass spectrometry : RCM*  
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2013; 27 (18): 2091-2098
- **Acute and chronic phases of complex regional pain syndrome in mice are accompanied by distinct transcriptional changes in the spinal cord** *MOLECULAR PAIN*  
Gallagher, J. J., Tajerian, M., Guo, T., Shi, X., Li, W., Zheng, M., Peltz, G., Kingery, W. S., Clark, J. D.  
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- **Metabolomic-derived novel cyst fluid biomarkers for pancreatic cysts: glucose and kynurenine.** *Gastrointestinal endoscopy*  
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- **Metabolomic-derived novel cyst fluid biomarkers for pancreatic cysts: glucose and kynurenine** *GASTROINTESTINAL ENDOSCOPY*  
Park, W. G., Wu, M., Bowen, R., Zheng, M., Fitch, W. L., Pai, R. K., Wodziak, D., Visser, B. C., Poultides, G. A., Norton, J. A., Banerjee, S., Chen, A. M., Friedland, et al  
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- **Reply to Bissig and Grompe.** *Trends in pharmacological sciences*  
Peltz, G.  
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- **Can 'humanized' mice improve drug development in the 21st century?** *Trends in pharmacological sciences*  
Peltz, G.  
2013; 34 (5): 255-260
- **Using Chimeric Mice with Humanized Livers to Predict Human Drug Metabolism and a Drug-Drug Interaction** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*  
Nishimura, T., Hu, Y., Wu, M., Pham, E., Suemizu, H., Elazar, M., Liu, M., Idilman, R., Yurdaydin, C., Angus, P., Stedman, C., Murphy, B., Glenn, et al  
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- **Human pharmacogenetic analysis in chimeric mice with 'humanized livers'** *PHARMACOGENETICS AND GENOMICS*  
Hu, Y., Wu, M., Nishimura, T., Zheng, M., Peltz, G.  
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- **OPIATE-INDUCED CHANGES IN BRAIN ADENOSINE LEVELS AND NARCOTIC DRUG RESPONSES** *NEUROSCIENCE*  
Wu, M., Sahbaie, P., Zheng, M., Lobato, R., Boison, D., Clark, J. D., Peltz, G.  
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- **Identification of drug targets by chemogenomic and metabolomic profiling in yeast** *PHARMACOGENETICS AND GENOMICS*  
Wu, M., Zheng, M., Zhang, W., Suresh, S., Schlecht, U., Fitch, W. L., Aronova, S., Baumann, S., Davis, R., St Onge, R., Dill, D. L., Peltz, G.  
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- **Diagnostic Utility of Metabolomic-Derived Biomarkers for Pancreatic Cysts**

Park, W. G., Wu, M., Bowen, R., Zheng, M., Fitch, W. L., Pai, R. K., Wodziak, D., Visser, B. C., Poultsides, G. A., NORTON, J. A., Banerjee, S., Chen, A. M., Friedland, et al

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- **Cd14 SNPs regulate the innate immune response** *MOLECULAR IMMUNOLOGY*  
Liu, H., Hu, Y., Zheng, M., Suhoski, M. M., Engleman, E. G., Dill, D. L., Hudnall, M., Wang, J., Spolski, R., Leonard, W. J., Peltz, G.  
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Sorge, R. E., Trang, T., Dorfman, R., Smith, S. B., Beggs, S., Ritchie, J., Austin, J., Zaykin, D. V., Vander Meulen, H., Costigan, M., Herbert, T. A., Yarkoni-Abitbul, M., Tichauer, et al  
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- **A better prognosis for genetic association studies in mice** *TRENDS IN GENETICS*  
Zheng, M., Dill, D., Peltz, G.  
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- **Next-Generation Computational Genetic Analysis: Multiple Complement Alleles Control Survival after Candida albicans Infection** *INFECTIO AND IMMUNITY*  
Peltz, G., Zaas, A. K., Zheng, M., Solis, N. V., Zhang, M. X., Liu, H., Hu, Y., Boxx, G. M., Phan, Q. T., Dill, D., Filler, S. G.  
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