Stanford

Stuart Kim

Professor of Developmental Biology, Emeritus

Department of Developmental Biology

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Department of Developmental Biology

LINKS

- Stuart Kim Lab: http://cmgm.stanford.edu/~kimlab

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Please see my lab website for description of research and publications. I do not update this site often.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Chemical and Systems Biology (PhD Program)
- Developmental Biology (PhD Program)

Publications

PUBLICATIONS

- **Roles of the developmental regulator unc-62/Homothorax in limiting longevity in Caenorhabditis elegans.** *PLoS genetics*
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- **An Engineering Approach to Extending Lifespan in C. elegans** *PLOS GENETICS*
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- **Variable Pathogenicity Determines Individual Lifespan in Caenorhabditis elegans** *PLOS GENETICS*
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- **An elt-3/elt-5/elt-6 GATA transcription circuit guides aging in C-elegans** *CELL*
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- **AGEMAP: A gene expression database for aging in mice** *PLOS GENETICS*
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- **Transcriptional profiling of aging in human muscle reveals a common aging signature** *PLOS GENETICS*
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- **A transcriptional profile of aging in the human kidney** *PLOS BIOLOGY*
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- **A gene-coexpression network for global discovery of conserved genetic modules** *SCIENCE*
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- **Chromosomal clustering of muscle-expressed genes in Caenorhabditis elegans** *NATURE*
  Roy, P. J., Stuart, J. M., Lund, J., Kim, S. K.
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- **A gene expression map for Caenorhabditis elegans** *SCIENCE*
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- **Optimal multiple testing under a Gaussian prior on the effect sizes** *BIOMETRIKA*
  Dobriban, E., Fortney, K., Kim, S. K., Owen, A. B.
  2015; 102 (4): 753-766

- **Reproductive Aging Drives Protein Accumulation in the Uterus and Limits Lifespan in C. elegans** *PLOS GENETICS*
  Zimmerman, S. M., Hinkson, I. V., Elias, J. E., Kim, S. K.
  2015; 11 (12)

- **Genome-Wide Scan Informed by Age-Related Disease Identifies Loci for Exceptional Human Longevity** *PLOS GENETICS*
  Fortney, K., Dobriban, E., Garagnani, P., Pirazzini, C., Monti, D., Mari, D., Atzmon, G., Barzilai, N., Franceschi, C., Owen, A. B., Kim, S. K.
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- **Applying Personal Genetic Data to Injury Risk Assessment in Athletes** *PLOS ONE*
  Goodlin, G. T., Roos, A. K., Roos, T. R., Hawkins, C., Beache, S., Baur, S., Kim, S. K.
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- **Reconciliation of daf-2 suppression by elt-3 in Caenorhabditis elegans from Tonsaker et al. (2012) and Kim et al. (2012).** *Mechanisms of ageing and development*
  Kim, S. K., Budovskaya, Y. V., Johnson, T. E.
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- **Response to Tonsaker et al.** *Mechanisms of ageing and development*
  Kim, S. K., Budovskaya, Y. V., Johnson, T. E.
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- **Seeing elegance in gene regulatory networks of the worm** *CURRENT OPINION IN GENETICS & DEVELOPMENT*
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- **The early bird catches the worm: new technologies for the Caenorhabditis elegans toolkit** *NATURE REVIEWS GENETICS*
  Xu, X., Kim, S. K.
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- **Properties of Balanced Permutations** *JOURNAL OF COMPUTATIONAL BIOLOGY*
  Southworth, L. K., Kim, S. K., Owen, A. B.
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- **Cell biology - Proteins that promote long life** *SCIENCE*
  Kim, S. K.
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- **Systems biology of aging in four species** *CURRENT OPINION IN BIOTECHNOLOGY*
  Zahn, J. M., Kim, S. K.
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- **Common aging pathways in worms, flies, mice and humans** *JOURNAL OF EXPERIMENTAL BIOLOGY*
  Kim, S. K.
  2007; 210 (9): 1607-1612
- **Common aging pathways in worms, flies, mice and humans.** *The Journal of Experimental Biology*
  Kim SK
  2007: 1607-1612
- **Chromosomal clustering and GATA transcriptional regulation of intestine-expressed genes in C-elegans** *DEVELOPMENT*
  Pauli, F., Liu, Y. Y., Kim, Y. A., Chen, P. J., Kim, S. K.
  2006; 133 (2): 287-295
- **A gene recommender algorithm to identify coexpressed genes in C-elegans** *GENOME RESEARCH*
  Owen, A. B., Stuart, J., Mach, K., Villeneuve, A. M., Kim, S.
  2003; 13 (8): 1828-1837
- **Global analysis of dauer gene expression in Caenorhabditis elegans** *DEVELOPMENT*
  Wang, J., Kim, S. K.
  2003; 130 (8): 1621-1634
- **The modular era of functional genomics.** *Genome biology*
  Segal, E., Kim, S. K.
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- **Transcriptional profile of aging in C-elegans** *CURRENT BIOLOGY*
  Lund, J., Tedesco, P., Duke, K., Wang, J., Kim, S. K., Johnson, T. E.
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- **A targeted RNAi screen for genes involved in chromosome morphogenesis and nuclear organization in the Caenorhabditis elegans germline** *GENETICS*
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- **Signaling specificity - the RTK/RAS/MAP kinase pathway in metazoans** *TRENDS IN GENETICS*
  Tan, P. B., Kim, S. K.
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- **The LIN-2/LIN-7/LIN-10 complex mediates basolateral membrane localization of the C-elegans EGF receptor LET-23 in vulval epithelial cells** *CELL*
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  Tan, P. B., Lackner, M. R., Kim, S. K.
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  Kim, S. K.
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- **Inhibition of Caenorhabditis elegans vulval induction by gap-1 and by let-23 receptor tyrosine kinase** *GENES & DEVELOPMENT*
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  Miller, L. M., Gallegos, M. E., MORISSEAU, B. A., Kim, S. K.
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- **PREVENTION OF PROGRAMMED CELL-DEATH IN CAENORHABDITIS-ELEGANS BY HUMAN BCL-2** *SCIENCE*
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