

Name Stephen Keith Chapes

Title Professor of Biology

Publications

Teaching Publication (1)

Chapes S. K. Analyze the data problems. In: Kuby Immunology 6th Edition. Kindt, T.J., R.A. Goldsby and B.A. Osborne. W.H. Freeman and Company, New York. 2006. I authored the problems for the “analyze the data problems” section of the textbook. The publisher had these problems peer reviewed before incorporation into the text book. This was a new feature in the 6th edition of the currently best selling Immunology text book in the USA.

Review and Invited Articles (13 Total; * indicates refereed or invited article)

Haskill, S., and S.K. Chapes. 1985. Tumoricidal activation of resident macrophages: Synergistic action of *C. parvum* and granulocytes. *Progress in Leukocyte Biology* 4:69-80.

*Chapes, S.K., K.M. Kopydlowski, S.D. Fleming and J.J. Iandolo. 1992. Glucocorticoid effects on immune cell activation by staphylococcal exotoxins and lipopolysaccharide. *Transactions of the Kansas Acad. Sci.* 95:23-28.

*Chapes, S.K. 1992. SV40 Immortalization. In: *Encyclopedia of Immunology*. Ed. by I.M. Roitt and P.J. Delves. Academic Press. London, pp 1412-1414.

Morrison, D.R., S.K. Chapes, J.A. Guikema, B.S. Spooner and M.L. Lewis. 1992. Experiments with suspended cells on the space shuttle. *The Physiologist* 35(1):S31-S34.

*Chapes, S.K., K.M. Woods and J.W. Armstrong. 1993. Ground-based experiments complement microgravity flight opportunities in the investigation of the effects of space flight on the immune response: Is protein kinase C gravity sensitive? *Transactions of Kansas Acad. Sci.* 96:74-79.

*Chapes, S.K., A.M. Mastro, G. Sonnenfeld and W.D. Berry. 1993. Antiorthostatic suspension as a model for the effects of space flight on the immune system. *J. Leukoc. Biol.* 54:227-235.

*Chapes, S.K., D.R. Morrison, J.A. Guikema, M.L. Lewis and B.S. Spooner. 1994. Production and action of cytokines in space. *Adv. Space Res.* 14:5-9.

*Iandolo, J.J. and S.K. Chapes. 1997. The Exfoliative Toxins of *Staphylococcus aureus*. In: *Superantigens: Molecular Biology, Immunology and Relevance to Human Disease and Basic Biology*, Ed by D.Y. Leung, B.T. Huber and P.M. Schlievert; Marcel Dekker, Inc.

New York. pp. 231-255.

*Chapes, S.K. A.D. Wright, A.A. Beharka. 2001. Superantigen activation of macrophages. In: Staphylococcal Disease and Infection (Chapter 5), Ed by A.L. Honeyman, M. Bendinelli, H. Friedman, Kluwer Academic/Plenum Press. New York. pp. 67-91.

J. Vellinger, K. W. Barton, J. F. Doyle, M. E. Wells, P. Todd and S. K. Chapes. 2001. Multiple robotic cell culture bioreactor systems for cell and tissue research in low gravity. AIAA Paper 2001-5012, American Institute of Aeronautics and Astronautics Proceedings on International Space Station Utilization, Washington, DC.

*Chapes, S.K. 2004. Lessons from Immune 1-3: What did we learn and what do we need to do in the future? J. Gravitational. Physiol. 11(2):45-48 (PMID: 16231452).

*Chapes, S.K. and R.R. Ganta. 2005. Mouse Infection Models for Space Flight Immunology. Adv. in Space Biol. and Medicine; Issue: Experimentation with Animal Models in Space Ed. By G. Sonnenfeld, Elsevier, New York. pp. 81-104 (PMID: 16101105).

*Ganta, R.R., L. Peddireddi, G.-M. Seo, S. E. DeDonder, C. Cheng and S.K. Chapes. 2009. Molecular Characterization of Ehrlichia Interactions with Tick Cells and Macrophages. Frontiers in Bioscience. 14: 3259-3273 (PMID: 19273271).

Refereed Journal Publications (74 Total)

Chapes, S.K., and W.A.F. Tompkins. 1979. Cytotoxic macrophages induced in hamsters by vaccinia virus: Selective cytotoxicity for virus-infected targets by macrophages collected late after immunization. J. Immunol. 123:303-310.

Chapes, S.K., S.S. Fan, J.M. Cummins and W.A.F. Tompkins. 1981. Activation of natural killer cell cytotoxicity from bonemarrow cells co-cultivated with immune peritoneal macrophages. J. Reticuloendothel. Soc. 29:341-355.

Chapes, S.K., and W.A.F. Tompkins. 1981. Distribution of macrophage cytotoxic and macrophage helper functions on BSA discontinuous gradients. J. Reticuloendothel. Soc. 30:517-530.

Chapes, S.K., and S. Haskill. 1982. Role of Corynebacterium parvum in the activation of peritoneal macrophages. I. Association between intracellular C. parvum and cytotoxic macrophages. Cell. Immunol. 70:65-75.

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- Chapes, S.K., A.E. O'Neill, L. Flaherty, and L.R. Gooding. 1987. Macrophage-resistant murine SV40 tumors express a retroviral type specific gp70. *J. Virology.* 61:928-932.
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- Xie L., M. T. Ortega, S. Mora, and S. K. Chapes. 20___. Phenotypic conversion of C2D macrophage cells in brown and white adipose tissue. Submitted for publication.
- Xie L., M. T. Ortega, S. Mora, and S. K. Chapes. 20___. Interactive changes between macrophages and adipocytes. Submitted for publication.
- Mordica W.J., R.J. Gallagher, J.L. Kennedy and S.K. Chapes. 20___. Male CD81 Knock-out

Genotype Disrupts Mendelian Distribution of Offspring. Submitted for publication.

Published Abstracts and Presentations

Chapes, S.K., and W.A.F. Tompkins. 1978. Kinetics and range of target cell killing by hamster peritoneal macrophages activated by vaccinia virus. *J. Reticuloendothel. Soc.* 24:47a.

Chapes, S.K., and W.A.F. Tompkins. 1980. Macrophage modulation of hamster natural killer cells in vitro. *Fed. Proceedings* 39:360.

Chapes, S.K. 1981. Cellular immunity in hamsters after immunization with vaccinia virus: Studies on macrophage functional heterogeneity and interactions between natural killer cells and macrophages. *Dissertation Abst. Int.* 42:133B.

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Haskill, S., S.K. Chapes, S.E. Becker, D.O. Adams, and S. Buessow. 1983. Macrophage functional heterogeneity is associated with a continuum of increasing phenotypic characteristics. *Fed. Proceedings* 42:1076.

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Flebbe, L., K. Chapes and D. Morrison. 1989. Macrophages from C3H/HeJ endotoxin low responder mice are stimulated by R-chemotype LPS. *FASEB J.* 3:A1343.

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