SHORT REPORT: 2,3,7,8-TETRACHLORODIBENZO- -DIOXIN (TCDD) REDUCES $A \quad A \quad A \quad \text{BURDENS IN C57BL/6 MICE}$

OWEN J. BOWERS, KIRSA B. SOMMERSTED, RYAN T. SOWELL, GRETCHEN E. BOLING, WILLIAM H. HANNEMAN, RICHARD G. TITUS, AND GREGORY K. DEKREY*



A Acute exposure to 2,3,7,8-tetrachlorodibenzo dioxn7u4srH(p)] TJET/F1 SF02 316.4125 596.32.7(H)] TJ
—infected mice to TCDD caused a dose-dependent and unexpected decrease in parasite burdens on day 20 after infection. In contrast, TCDD-mediated lymphoid atrophy, suppressed antibody levels,

- 2. Solbach W, Laskay T, 2000. The host response to infection. *A* 174: 275–317.
- 3. Alexander J, Bryson K, 2005. T helper (h) 1/Th2 and Paradox rather than paradigm. 99: 17–23.
- 4. Brown DR, Reiner SL, 1999. Polarized helper-T-cell responses against in the absence of B cells. '* 67: 266-270.
- 5. Huber M, Timms E, Mak TW, Rollinghoff M, Lohoff M, 1998. Effective and long-lasting immunity against the parasite * 56. 3968-3970 66.
- Safe SS, 1990. Polychlorinated biphenyls (PCBs), dibenzo
 dioxins (PCDDs), dibenzofurans (PCDFs), and related compounds: Environmental and mechanistic considerations which

biology, Immunology and Pathology, College of Veterinary and Biomedical Sciences, Colorado State University, Fort Collins, CO, 80523, Telephone: 970-491-4964, Fax: 970-491-0603, E-mail: richard.titus@colostate.edu. Gregory K. DeKrey, School of Biological Sciences, College of Natural and Health Sciences, University of Northern Colorado, 501 20th Street, Greeley, CO 80639, Telephone: 970-351-2493, Fax: 970-351-2335, E-mail: gregory.dekrey@unco.edu.

REFERENCES

1. Lohoff M, Gessner A, Bogdan C, Röllinghoff M, 1998. The Th1/
Th2 paradigm and experimental murine leishmaniasis.

**A | Maria C | 1115: 191-202.

- macrophages augment Th2-type T cell activation. 153:4378-4387.
- 4378–4387.
 Mbow ML, DeKrey GK, Titus RG, 2001. Induces differential expression of costimulatory molecules on mouse epidermal cells. Induces differential expression of costimulatory molecules on mouse epidermal cells. Induces differential expression of costimulatory molecules on mouse epidermal cells. Induces differential expression of costimulatory molecules on mouse epidermal cells. Induces differential expression of the cost of th