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People	Transcriptional Modulation of the Developing Immune System by Early Life Social Adversity by Steven W. Cole, Gabriella Conti, Jesusa M. Arevalo, Angela M. Ruggiero, James J. Heckman, Stephen J. Suomi (October 2012)							
Research								
Labor Policy								
Publications	Abstract: To identify	Abstract: To identify molecular mechanisms by which early life social conditions might influence adult risk of						
Discussion Papers	disease in rhesus macaques (Macaca mulatta), we analyze changes in basal leukocyte gene expression profiles in 4-month-old animals reared under adverse social conditions. Compared to the basal condition of maternal rearing (MR), leukocytes from peer-reared (PR) animals and PR animals provided with an inanimate surrogate mother (surrogate/peer reared; SPR) show enhanced expression of genes involved in inflammation, cytokine signaling, and T lymphocyte activation, and suppression of genes involved in several innate antimicrobial defenses including Type I Interferon antiviral responses. Promoter-based bioinformatic analyses implicate increased activity of CREB and NF-kB transcription factors and decreased activity of Interferon Response Factors (IRFs) in structuring the observed							
Policy Papers								
Standpunkte								
Books								
Research Reports								
IZA Compact	differences in gene expression. Transcript origin analyses identify monocytes and CD4+ T lymphocytes as primary cellular mediators of transcriptional up-regulation and B lymphocytes as major							
IZA in the Press	sources of	sources of down-regulated genes. These findings show that adverse social conditions can become						
Publication Record	they implicate sympathetic nervous system-linked transcription control pathways as candidate							
Journals	mediators of those effects and potential targets for health-protective intervention.							
Events			<u>xpoi 1101 00</u>	<u>~</u> <u>}</u>				
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