Controlling micellar structure



LETTERSI BOOKS I POLICY FORUM I EDUCATION FORUM I PERSPECTIVES

ETTERS

edited by Etta Kavanagh

Genetics and he Sopranos

THE SOPRANTOSE WIDELY VIEWED HBO TELEVISION SERIES PORtraying contemporary Mafia life in New Jersey, recently aired its final episode. Future critics of popular culture who look back be Sopranosyears from now may especially appreciate its relatively sophisticated treatment of genetic themes.

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By my count, the 86 episodes aired since 1999 include 20 explicit alogs about genetics. These range from the comical ("Two beautiful ds—you must be proud... yeah, yeah—how about that huh?... ven with our genes.") to dinnertime conversation about the number nucleotides in a chromosome, to the forensic ("cut him up in the ork area?... no more of that: DNA.") and the dramatic ("My God—ere's nothing holding us together but DNA!").

Cloning. AsThe Sopranos

The most in-depth discussions about heredity occur betweentthes its place in the history of American popular culture, its use of ad character Tony Soprano and his psychiatrist concerning the effect dialogs may, in the long run, be recognized as one of its mosts. dialogs about genetics. These range from the comical ("Two beautiful kids—you must be proud... yeah, yeah—how about that huh?... Even with our genes.") to dinnertime conversation about the number of nucleotides in a chromosome, to the forensic ("cut him up in the work area?... no more of that: DNA.") and the dramatic ("My Godthere's nothing holding us together but DNA!").

lead character Tony Soprano and his psychiatrist concerning deaetic dialogs may, in the long run, be recognized as one of its most genetic basis of panic attacks in Tony's family when he discovers the transfer in the productive

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1. B. Bates Public Understand. 364, 47 (2005)

U.S. Science Funding

more, and that is the point. In contrast to the federal discretionary budget, whose limits are increasingly constrained by mandated pro-

A Less Pessimistic View of with Gentile that the capacity exists to do 2. Washington, DC, 2007), Table I-11, p. 59. National Science Board, "Science and Engineering Indicators 2006: Highlights—National R&D Trends," vol. 1 (NSB 06-01, National Science Foundation, Arlington, VA, 2006), pp. 4-5.

REGARDING J. M. GENTILE'S LETTER "MEDITAL NOW vate-sector investments in research the U.S. a world leader in science" (13 July, pand development tend to grow with the Evolution and Group 194), readers would do well to examine myeconomy. They currently exceed federal R&D entire address to the AAAS Science Policity a factor of more than twa) (Research universities and other institutions are already Forum (available at www.ostp.gov).

In my talk, I expressed alarm that the forming innovative partnerships with state WORRY THAT SOME PSYCHOLOGIS ₹S, nation's research capacity in some fields iand private-sector entities to augment federahiliar with evolutionary biology, will be misoutpacing trends in federal research supportesearch funding, and this will certainlyled by J. Haidt's account of "The new synthe". that have persisted over four decades. It is sire on tinue. This is a healthy trend that should is in moral psychology" (Reviews, 18 Max. ply not the case that "the United States have encouraged. p. 998). Haidt claims that whereas "[h]umah JOHN H. MARBURGER Ilgroup selection was essentially declared off-

begun to stumble as a world leader in science and technology" or that researchers have beenector, Office of Science and Technology Policy, Exelemits in 1966," it is now accepted that "left high and dry by flat federal funding." We Office of the President, 725 17th Street, NW, Washingtgnoups that develop norms, practices, a 🛱 d continue to outspend and outperform all other 20502, USA. major economies in research, and R&D fund-

\$143 billion) since 20011 . I certainly agree

institutions that elicit more group-beneficial behavior can grow, attract new members, and

References

ing has grown by 56% (from \$91 billion to 1. AAAS Report XXXII, "Research & Development FY20 polace less cooperative groups" (p. 100 g). (American Association for the Advancement of Scien Although it is certainly true that such things

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"can" happen, Haidt fails to mention that the overwhelming conviction among evolutionary theorists remains that they are most unlikely, since the selection differential between groups would have to exceed the cost differential experienced by self-sacrificial individuals within groups.

By a rhetorical sleight of hand, after describing D. S. Wilson's group-selection hypothesis for the evolution of religion, Haidt then announces—as though it were fact—that "group selection greatly increased cooperation within the group" (p. 1001). This is pure speculation, not fact, and highly controversial, contrarian speculation at that.

In another case of substituting opinion for reality, Haidt proposes his "Principle 4," arguing for the biological legitimacy of "patriotism, respect for tradition, and a sense of sacredness" (p. 1001). Perhaps, in the future, these supposed components of morality will be found to have genuine evolutionary underpinnings, but for now they seem closer to a political platform plank for the religious right; psychologists interested in achieving a new synthesis by applying evolutionary biology to human morality should bear in mind that just because these notions appeared in