
The Superorganism The Beauty Elegance And Strangeness Of Insect Societies

superorganism (band) - wikipedia - superorganism is an english indie pop band, formed in early 2017 and based in london. the group consists of eight members, including lead vocalist orono noguchi, alongside emily, harry, tucan, robert strange, ruby, b, and soul. **the global superorganism: an evolutionary-cybernetic model ...** - superorganism, and that it becomes more like a superorganism as technology and globalization advance. a superorganism is a higher-order, "living" system, whose components (in this case, individual humans) are organisms themselves. biologists agree that social insect colonies, such as ant nests or bee hives, can best be seen as such **the superorganism apud - university of arizona** - the superorganism concept was originally developed from an old analogy between common, well defined organisms and animal societies; it was not formally linked to any theory, model or explanation to its evolution-later, with development of modern evolutionary theory, the superorganism concept was automatically linked to group-level selection **supercharging science for the superorganism** - supercharging science for the superorganism francis s. collins, m.d., ph.d. director, national institutes of health human microbiome science: vision for the future july 24, 2013 "science in pursuit of fundamental knowledge about the nature and behavior of living systems . **superorganism - bjj caveman** - superorganism: a collective of species, living cohesively alongside each other to survive. this collective, known as the microbiome, is as unique to each and every one of us that we're just as identifiable by it as we are our fingerprints. nearly every single aspect of your health and well-being is related to your microbiome. **social immunity and the superorganism: behavioral defenses ...** - superorganism. analogies can be made between mechanisms of individual and social immune defense, which also sheds light on the superorganism concept (cremer & sixt, 2009). one clear example would be the analogy of cellular encapsulation, which involves hemocytes in the bee's hemolymph surrounding a microbe that **social insects - superorganisms or just superb organisms?** - "a superorganism is a colony of individuals self-organized by division of labour and united by a closed system of communication." a fourth definition follows in the glossary: "a superorganism is a society that possesses features of organization analogous to the physiological properties of single organisms." **complex societies: the evolutionary origins of a crude ...** - complex societies: the evolutionary origins of a crude superorganism peter j. richerson department of environmental science and management university of california davis davis, ca 95616 pjrigherson@ucdavis robert boyd anthropology department university of california los angeles los angeles, ca 90024 boyd@anthrocnet.ucla biosketches **invited review parasites of the superorganism: are they ...** - superorganism). yet, in reality, it is not possible to state whether an ecosystem is in poor health or in good health as the criteria are ambiguous and the definition will vary according to a particular party's interests. however, the concept has been successful in raising the profile of environmental concerns by communicating useful general- **science of a superorganism - seth bordenstein** - science of a superorganism if you were to sum up the weight of all bacteria on earth, they would outweigh humans roughly 5000 to 1. the laws of nature are the same everywhere! microorganisms populate the earth in every imaginable and inhospitable place - from plant roots to boiling springs. **the psychology of superorganisms: collective decision ...** - under the superorganism concept, insect societies are so tightly integrated that they possess features analogous to those of single organisms, including collective cognition. if so, colony function might fruitfully be studied using methods developed to understand individual animals. here, we review re-

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