

Biomimetics : Integrative Science and Wisdom

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Convergence of knowledge and studies carried-out in different fields including those of methods and research findings constitute the nature of science. Interdisciplinary studies refer to those that are done in subject matters that make use of a number of distinctive scientific fields toward solving a common problem that also leads to development in science and introduction of new theories. To improve the quality as well as the level of our scientific knowledge, researchers must propose logical models combined with comprehensive rational that can be used towards advancement of research and scientific knowledge. The most successful methods applied in numerous scientific fields as well as in integrative sciences, have been those that deal with the natural phenomena. God has created the nature along with realm of knowledge, science and wisdom that are aimed to meet the real needs of humans and other creatures. Therefore, a good model is the one that would be aimed towards convergence of sciences and for knowledge development, leading to identification of natural phenomena and their subsequent mapping into real-world observations, that is called biomimetic science. Knowledge of basic and cognitive sciences as well as wisdom are required to identify the underlying laws of nature and the pattern of natural phenomena. The interdisciplinary sciences and worldwide knowledge are needed in order to be able to identify the unknown phenomena in nature and the world around us using intellectual tools, measurement devices, differentiable tests and various scientific methods. This would then lead to defining concepts and mechanisms of creation as well as development and understanding the laws governing the observed or discovered phenomena. Basic and cognitive sciences discuss questions such as “why” and “how” of phenomena and their relations whereby we discover the secrets and observe invisible life forces using different analysis and advanced scientific tools. As a result, theories, hypothesis, and equations can be innovated by which secrets and the complexity of natural phenomena and relations between them can be formulated and offered to the society. Advanced technologies can be generated by means of accurate identification of natural phenomena and the relations that may exist among them and finally by correctly mapping such relationships into our observations. This issue is rooted in the processes of basic and cognitive sciences and today a great share of advanced technologies is devoted towards advanced science. Hence for advancement and the growth of the country in science, innovation and technology, we need to invest in interdisciplinary sciences and wisdom knowledge as well discovery of new structures, so that we can achieve a level of high standard in science and technology in coming years. Thus, it is suggested that a nucleus of biomimetic science and technology research be formed by inviting scientists, researchers, entrepreneurs, policy makers, investors as well as the sponsors in order to plan and devise policies for the advancement of integrative science and wisdom that would be in line with natural phenomena where we can plan ways for the advancement in this science that is coherent with science and wisdom innovation system.

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