Ecological Developmental Biology

By Gilbert, Scott F. / Epel, David

Condition: New. Publisher/Verlag: Oxford University Press | The Environmental Regulation of Development, Health and Evolution | The only book that, in one place:details the three main epigenetic sources of phenotype: symbionts, altered chromatin structure, and plasticity.discusses the various ways that development can be disrupted: teratogens, endocrine disruptors, global climate change, and mismatches between diet and environment.documents the evidence for an extended evolutionary synthesis involving the modern synthesis, evo-devo, and eco-evo-devo. | The science studying this new world, uncovering the relationships between genes, developing organisms, and their environments, is called ecological developmental biology. This book presents the data for ecological developmental biology, integrating it into new accounts of medicine, evolution, and embryology.The new evolutionary science created by this approach to nature is called ecological evolutionary developmental biology (eco-evo-devo). The book documents the evidence for a new, extended, evolutionary synthesis, a synthesis that: confounds the creationist belief that evolution can't be described above the species-level; integrates aging and 'Western' diseases such as diabetes, atherosclerosis, cancer, and obesity into an evolutionary context; and sees interspecies interactions both within the organism and between organisms as being critical for evolution, development, and fitness.The only book that, in one place:Details the three main epigenetic sources of...

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