

# Biology Today And Tomorrow Biology For Non Science Majors

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this is the only book to focus on industrial and environmental applications of synthetic biology covering 17 of the most promising uses in the areas of biofuel bioremediation and biomaterials the contributions are written by experts from academia non profit organizations and industry outlining not only the scientific basics but also the economic environmental and ethical impact of the new technologies this makes it not only suitable as supplementary material for students but also the perfect companion for policy makers and funding agencies if they are to make informed decisions about synthetic biology largely coordinated by markus schmidt a policy adviser and the only european to testify in front of the bioethics commission of the obama administration

the tremendous progress in biology over the last half century from watson and crick s elucidation of the structure of dna to today s astonishing rapid progress in the field of synthetic biology has positioned us for significant innovation in chemical production new bio based chemicals improved public health through improved drugs and diagnostics and biofuels that reduce our dependency on oil are all results of research and innovation in the biological sciences in the past decade we have witnessed major advances made possible by biotechnology in areas such as rapid low cost dna sequencing metabolic engineering and high throughput screening the manufacturing of chemicals using biological synthesis and engineering could expand even faster a proactive strategy implemented through the development of a technical roadmap similar to those that enabled sustained growth in the semiconductor industry and our explorations of space is needed if we are to realize the widespread benefits of accelerating the industrialization of biology industrialization of biology presents such a roadmap to achieve key technical milestones for chemical manufacturing through biological routes this report examines the technical economic and societal factors that limit the adoption of bioprocessing in the chemical industry today and which if surmounted would markedly accelerate the advanced manufacturing of chemicals via industrial biotechnology working at the interface of synthetic chemistry metabolic engineering molecular biology and synthetic biology industrialization of biology identifies key technical goals for next generation chemical manufacturing then identifies the gaps in knowledge tools techniques and systems required to meet those goals and targets and timelines for achieving them this report also considers the skills necessary to accomplish the roadmap goals and what training opportunities are required to produce the cadre of

skilled scientists and engineers needed

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this book focuses on the impacts of anthropogenic radiation on wildlife and ecosystems and provides an in depth look at the approaches and available tools we can use to gain information about biological effects of radiation in the environment the nuclear accidents in chornobyl in 1986 and fukushima in 2011 focussed the attention of the world on the vulnerability of ecosystems to radiation in chornobyl there still remains an exclusion zone where levels are considered to be too high for people and impacts on terrestrial and aquatic ecosystems can still be measured 35 years later in the area impacted by the fukushima disaster intense remediation is still under way at tremendous cost and causing widespread disruption to the environment that accident impacted the terrestrial and marine ecosystems in both accidents it became obvious that a radiation protection framework focussing on protection of humans a single species and using evacuation as a key strategy was not sufficient to protect the natural environment the complexity of ecosystems makes developing a protection framework very challenging but in order to even start the process it is vital to gather information about likely impacts of low dose exposures on wildlife and to develop monitoring tools to measure changes over time this book contains reviews and original research aimed at filling our knowledge gaps about these important areas environmental radiobiology will be a key resource for academics researchers and advanced students of radiobiology radioecology biology ecology biomedicine and research methods the chapters included in this book were originally published as a special issue of international journal of radiation biology

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