

TECHNICAL UNIVERSITY OF KOŠICE
FACULTY OF MECHANICAL ENGINEERING



**THE BASICS OF BIOLOGY
FOR BIOMEDICAL ENGINEERING**



Marianna TREBUŇOVÁ, Marek SCHNITZER,
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FOREWORD

Fundamentals of Biology for Biomedical Engineering is a monograph that provides basic knowledge of biological science at the cellular and molecular level. The basic information about biology in this monograph is written in a simple and easy way so that the reader - "non-biologist" can quickly understand the content.

This monograph is an introduction to a specialized study of cell theory at technical universities. It is a summary of basic information about the cell, its chemical composition, structure, reproduction and development, physiology and molecular biology, as well as its aging and death. We tried to combine the chapters of this book into a "harmonious" whole, and thus we achieved that this book is not just a mechanical summary of individual disciplines, but that it forms a single entity. Molecular biology to which much of the book is devoted, certainly contributed to this integration. Examples of applications of the knowledge presented in the monograph are the scientific papers published in the Applied Sciences journal (MDPI) indexed in current content database. Readers will probably have to accept that the more exact biology is, the more difficult and demanding its studies will be.

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