

BIOMATERIALS THE INTERSECTION OF BIOLOGY AND MATERIALS SCIENCE

BIOMATERIALS THE INTERSECTION OF BIOLOGY AND MATERIALS SCIENCE BIOMATERIALS THE INTERSECTION OF BIOLOGY AND MATERIALS SCIENCE BIOMATERIALS ARE MATERIALS THAT INTERACT WITH BIOLOGICAL SYSTEMS THIS FIELD BRIDGES THE DISCIPLINES OF BIOLOGY AND MATERIALS SCIENCE FOCUSING ON DEVELOPING MATERIALS THAT CAN BE USED FOR A WIDE RANGE OF MEDICAL APPLICATIONS INCLUDING IMPLANTS DRUG DELIVERY SYSTEMS TISSUE ENGINEERING SCAFFOLDS AND DIAGNOSTIC TOOLS BIOMATERIALS BIOCOMPATIBILITY BIOACTIVITY TISSUE ENGINEERING DRUG DELIVERY IMPLANTS MATERIALS SCIENCE BIOLOGY MEDICINE MEDICAL DEVICES REGENERATIVE MEDICINE BIOMATERIALS SCIENCE ENCOMPASSES THE DESIGN SYNTHESIS CHARACTERIZATION AND APPLICATION OF MATERIALS THAT INTERACT WITH BIOLOGICAL SYSTEMS IT LEVERAGES PRINCIPLES FROM BOTH BIOLOGY AND MATERIALS SCIENCE TO CREATE MATERIALS WITH SPECIFIC PROPERTIES THAT ENABLE THEM TO FUNCTION WITHIN A LIVING ORGANISM THESE MATERIALS CAN BE NATURAL SYNTHETIC OR A COMBINATION OF BOTH WITH THEIR PROPERTIES TAILORED FOR SPECIFIC BIOLOGICAL INTERACTIONS THE FIELD IS DRIVEN BY THE DESIRE TO ADDRESS CRITICAL MEDICAL NEEDS INCLUDING REPLACING OR REPAIRING DAMAGED TISSUES AND ORGANS BIOMATERIALS CAN SERVE AS SCAFFOLDS FOR TISSUE REGENERATION ENABLING THE BODY TO REBUILD ITS OWN STRUCTURES DELIVERING DRUGS AND THERAPIES MORE EFFECTIVELY BIOMATERIALS CAN BE USED TO CREATE CONTROLLEDRELEASE SYSTEMS THAT DELIVER DRUGS AT SPECIFIC TIMES AND LOCATIONS WITHIN THE BODY DEVELOPING DIAGNOSTIC TOOLS FOR EARLY DISEASE DETECTION BIOMATERIALS CAN BE INCORPORATED INTO SENSORS AND OTHER DEVICES THAT CAN DETECT DISEASE MARKERS IN BIOLOGICAL FLUIDS THE IMPORTANCE OF BIOCOMPATIBILITY A KEY CHALLENGE IN BIOMATERIALS SCIENCE IS ENSURING BIOCOMPATIBILITY THIS MEANS THE MATERIAL MUST NOT ELICIT AN ADVERSE REACTION FROM THE HOST ORGANISM BIOCOMPATIBILITY IS A COMPLEX

CONCEPT THAT INVOLVES SEVERAL FACTORS INCLUDING TOXICITY THE MATERIAL SHOULD NOT BE TOXIC TO CELLS OR TISSUES INFLAMMATION THE MATERIAL SHOULD NOT INDUCE AN INFLAMMATORY RESPONSE IMMUNE RESPONSE THE MATERIAL SHOULD NOT TRIGGER AN IMMUNE REACTION 2 INTEGRATION WITH HOST TISSUE THE MATERIAL SHOULD BE ABLE TO INTEGRATE WITH SURROUNDING TISSUE AND FUNCTION PROPERLY ADVANCEMENTS IN BIOMATERIALS SCIENCE SIGNIFICANT ADVANCEMENTS HAVE BEEN MADE IN BIOMATERIALS SCIENCE LEADING TO THE DEVELOPMENT OF A WIDE RANGE OF MATERIALS WITH UNIQUE PROPERTIES NATURAL BIOMATERIALS COLLAGEN A UBIQUITOUS PROTEIN IN THE HUMAN BODY COLLAGEN IS USED IN A VARIETY OF MEDICAL APPLICATIONS INCLUDING WOUND HEALING TISSUE REGENERATION AND DRUG DELIVERY CHITIN A NATURALLY OCCURRING POLYSACCHARIDE FOUND IN THE EXOSKELETONS OF CRUSTACEANS AND INSECTS CHITIN IS BIOCOMPATIBLE BIODEGRADABLE AND HAS GOOD MECHANICAL STRENGTH SILK SILK PROTEINS POSSESS EXCELLENT BIOCOMPATIBILITY BIODEGRADABILITY AND MECHANICAL PROPERTIES MAKING THEM SUITABLE FOR VARIOUS APPLICATIONS INCLUDING TISSUE ENGINEERING AND DRUG DELIVERY SYNTHETIC BIOMATERIALS POLYMERS A WIDE RANGE OF SYNTHETIC POLYMERS ARE USED IN BIOMATERIALS APPLICATIONS INCLUDING POLYLACTIC ACID PLA POLYGLYCOLIC ACID PGA AND POLYETHYLENE GLYCOL PEG THESE POLYMERS CAN BE TAILORED TO EXHIBIT SPECIFIC PROPERTIES LIKE BIODEGRADABILITY BIOCOMPATIBILITY AND MECHANICAL STRENGTH METALS TITANIUM STAINLESS STEEL AND COBALTCHROMIUM ALLOYS ARE COMMONLY USED IN ORTHOPEDIC IMPLANTS DUE TO THEIR BIOCOMPATIBILITY AND STRENGTH CERAMICS BIOCERAMICS LIKE HYDROXYAPATITE AND BIOACTIVE GLASS ARE USED IN BONE GRAFTS AND DENTAL IMPLANTS BECAUSE OF THEIR BIOCOMPATIBILITY AND OSTEOINDUCTIVE PROPERTIES BIOMATERIALS FOR TISSUE ENGINEERING TISSUE ENGINEERING AIMS TO DEVELOP FUNCTIONAL TISSUES AND ORGANS USING CELLS AND BIOMATERIALS BIOMATERIALS SERVE AS SCAFFOLDS TO SUPPORT CELL GROWTH AND DIFFERENTIATION SCAFFOLD DESIGN IS CRUCIAL AS IT DICTATES THE MECHANICAL PROPERTIES POROSITY AND SURFACE PROPERTIES OF THE BIOMATERIAL ALL OF WHICH INFLUENCE CELL BEHAVIOR BIOMATERIALS FOR DRUG DELIVERY BIOMATERIALS CAN BE USED TO DESIGN INNOVATIVE DRUG DELIVERY SYSTEMS THAT IMPROVE THE EFFICACY AND SAFETY OF MEDICATIONS THESE SYSTEMS CAN CONTROL THE RELEASE OF DRUGS OVER TIME TARGET SPECIFIC TISSUES OR ORGANS AND REDUCE SIDE EFFECTS EXAMPLES INCLUDE

NANOPARTICLES NANOPARTICLES MADE OF BIODEGRADABLE POLYMERS CAN ENCAPSULATE DRUGS AND 3 DELIVER THEM TO SPECIFIC CELLS OR TISSUES

HYDROGELS HYDROGELS ARE WATERABSORBING POLYMERS THAT CAN BE USED TO CREATE INJECTABLE DRUG DELIVERY SYSTEMS CHALLENGES AND FUTURE DIRECTIONS DESPITE THE SIGNIFICANT PROGRESS MADE BIOMATERIALS SCIENCE STILL FACES CHALLENGES LONGTERM BIOCOMPATIBILITY ENSURING THE LONGTERM BIOCOMPATIBILITY OF MATERIALS IS CRUCIAL FOR APPLICATIONS REQUIRING IMPLANTS OR LONGTERM DRUG DELIVERY INTEGRATION WITH THE HOST TISSUE ACHIEVING OPTIMAL INTEGRATION OF BIOMATERIALS WITH SURROUNDING TISSUE REMAINS A KEY CHALLENGE REGULATING THE IMMUNE RESPONSE CONTROLLING THE IMMUNE RESPONSE TO BIOMATERIALS IS ESSENTIAL FOR PREVENTING REJECTION AND INFLAMMATION DEVELOPING BIOMATERIALS WITH TUNABLE PROPERTIES THE ABILITY TO TAILOR BIOMATERIALS FOR SPECIFIC APPLICATIONS LIKE CONTROLLING DEGRADATION RATE OR MECHANICAL PROPERTIES IS ESSENTIAL FOR ADVANCING THE FIELD FUTURE DIRECTIONS IN BIOMATERIALS SCIENCE FOCUS ON DEVELOPING BIOMIMETIC MATERIALS MIMICKING THE STRUCTURE AND FUNCTION OF NATURAL MATERIALS TO CREATE BIOMATERIALS WITH ENHANCED PERFORMANCE CREATING BIOCOMPATIBLE AND BIODEGRADABLE MATERIALS EXPLORING NOVEL MATERIALS WITH SUPERIOR BIOCOMPATIBILITY AND TUNABLE DEGRADATION RATES INTEGRATING BIOMATERIALS WITH ELECTRONICS COMBINING BIOMATERIALS WITH ELECTRONIC COMPONENTS TO CREATE SMART DEVICES FOR DRUG DELIVERY TISSUE ENGINEERING AND DIAGNOSTICS PERSONALIZING BIOMATERIALS TAILORING BIOMATERIALS TO INDIVIDUAL PATIENTS BASED ON THEIR GENETIC AND PHYSIOLOGICAL CHARACTERISTICS CONCLUSION BIOMATERIALS SCIENCE STANDS AT THE EXCITING INTERSECTION OF BIOLOGY AND MATERIALS SCIENCE OFFERING IMMENSE POTENTIAL FOR ADDRESSING CRITICAL MEDICAL NEEDS AS WE CONTINUE TO PUSH THE BOUNDARIES OF BIOMATERIAL DESIGN AND EXPLORE NEW MATERIALS AND FABRICATION TECHNIQUES WE ARE POISED TO WITNESS TRANSFORMATIVE ADVANCEMENTS IN HEALTHCARE WITH THE PROMISE OF ENHANCED TREATMENTS IMPROVED DIAGNOSTICS AND ULTIMATELY A BETTER FUTURE FOR HUMAN HEALTH FAQs 1 WHAT ARE THE MAJOR APPLICATIONS OF BIOMATERIALS 4 BIOMATERIALS HAVE A WIDE RANGE OF APPLICATIONS IN MEDICINE INCLUDING IMPLANTS BONE PLATES JOINT REPLACEMENTS DENTAL IMPLANTS TISSUE ENGINEERING SCAFFOLDS FOR TISSUE REGENERATION DRUG DELIVERY CONTROLLEDRELEASE SYSTEMS NANOPARTICLES

HYDROGELS DIAGNOSTIC TOOLS SENSORS BIOSENSORS MICROFLUIDIC DEVICES 2 WHAT ARE THE KEY PROPERTIES OF A GOOD BIOMATERIAL A GOOD BIOMATERIAL SHOULD POSSESS THE FOLLOWING PROPERTIES BIOCOMPATIBILITY NONTOXIC NONINFLAMMATORY NONIMMUNOGENIC BIOACTIVITY PROMOTES SPECIFIC BIOLOGICAL RESPONSES SUCH AS CELL ADHESION OR BONE GROWTH MECHANICAL STRENGTH SUFFICIENT STRENGTH FOR ITS INTENDED APPLICATION DEGRADABILITY CONTROLLED DEGRADATION RATE FOR SPECIFIC APPLICATIONS PROCESSABILITY EASY TO MANUFACTURE AND STERILIZE 3 WHAT ARE THE CHALLENGES ASSOCIATED WITH BIOMATERIALS THE CHALLENGES ASSOCIATED WITH BIOMATERIALS INCLUDE LONGTERM BIOCOMPATIBILITY ENSURING THE MATERIAL REMAINS SAFE AND FUNCTIONAL OVER TIME INTEGRATION WITH HOST TISSUE ACHIEVING SEAMLESS INTEGRATION OF THE MATERIAL WITH SURROUNDING TISSUE CONTROLLING THE IMMUNE RESPONSE PREVENTING REJECTION OR INFLAMMATION BY THE IMMUNE SYSTEM DEVELOPING BIOMATERIALS WITH TUNABLE PROPERTIES TAILORING THE PROPERTIES OF BIOMATERIALS FOR SPECIFIC APPLICATIONS 4 WHAT ARE THE FUTURE DIRECTIONS OF BIOMATERIALS SCIENCE FUTURE DIRECTIONS IN BIOMATERIALS SCIENCE INCLUDE BIOMIMETIC MATERIALS MIMICKING NATURAL MATERIALS FOR IMPROVED PERFORMANCE BIOCOMPATIBLE AND BIODEGRADABLE MATERIALS DEVELOPING NEW MATERIALS WITH SUPERIOR PROPERTIES INTEGRATING BIOMATERIALS WITH ELECTRONICS CREATING SMART DEVICES FOR VARIOUS APPLICATIONS PERSONALIZING BIOMATERIALS TAILORING MATERIALS TO INDIVIDUAL PATIENTS NEEDS 5 HOW DO BIOMATERIALS CONTRIBUTE TO REGENERATIVE MEDICINE BIOMATERIALS PLAY A VITAL ROLE IN REGENERATIVE MEDICINE BY PROVIDING SCAFFOLDS FOR TISSUE REGENERATION THESE SCAFFOLDS SUPPORT CELL GROWTH AND DIFFERENTIATION ENABLING THE BODY TO REBUILD ITS OWN STRUCTURES THIS HAS ENORMOUS POTENTIAL FOR TREATING CONDITIONS LIKE BONE DEFECTS CARTILAGE DAMAGE AND ORGAN FAILURE 5

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LANGUAGE LEARNING AND LIBRARY LEARNING IN A UNIVERSITY SETTING ARE CLOSELY RELATED ENDEAVORS THAT INTERSECT AT VARIOUS TIMES AND

LOCATIONS AND WITH VARIOUS TEACHERS AND LEARNERS THIS BOOK IS AN EXAMINATION OF HOW THESE INTERSECTIONS ARE EXPERIENCED BY LANGUAGE LEARNERS ITS AIM IS TO EXPLORE THE TWO TYPES OF LEARNING TO HELP SUSTAIN AND DEVELOP THE LEARNING IN BOTH AREAS THE INTERSECTION OF LIBRARY LEARNING AND SECOND LANGUAGE LEARNING THEORY AND PRACTICE IS AIMED AT PRACTITIONERS BOTH LIBRARIANS AND LANGUAGE INSTRUCTORS AND DESCRIBES EVERYDAY SCENARIOS WHICH WILL RESONATE WITH ACADEMIC LIBRARIANS AND LANGUAGE INSTRUCTORS IT PRESENTS PRACTICAL EXPERIENCES AND ACCOMPANIES THEM WITH A CONSIDERATION OF THE LITERATURE OF BOTH LIBRARIANSHIP AND LANGUAGE EDUCATION IT REVIEWS AND EVALUATES PROFESSIONAL PRACTICES EMPLOYED BY WORKING LIBRARIANS AND LANGUAGE INSTRUCTORS IN THEIR DEALINGS WITH INTERNATIONAL STUDENTS CONSIDERATIONS OF THE INTERSECTIONS BETWEEN LANGUAGE LEARNING AND LIBRARY LEARNING ARE PLACED WITHIN A THEORETICAL FRAMEWORK OF LEARNER AUTONOMY THIS FRAMEWORK OFFERS LIBRARIANS AND LANGUAGE INSTRUCTORS METHODS AND PRACTICES THAT ENABLE STUDENTS TO TAKE CONTROL OF THEIR LEARNING IN THE AREAS OF BOTH LANGUAGE LEARNING AND LIBRARY LEARNING A CONCLUDING CHAPTER OFFERS WAYS TO CONNECT THE FRAMEWORK OF LEARNER AUTONOMY TO SETTINGS OUTSIDE THAT OF A UNIVERSITY CONTEXT

THERE ARE NOT MANY BOOKS THAT ADDRESS THE BOUNDARIES OF CARE OF OLDER PEOPLE FROM A WORK LIFE PERSPECTIVE THIS BOOK AUTHORED BY CONTRIBUTORS FROM VARIOUS COUNTRIES LOOKS AT THE BOUNDARIES OF CARE BY LOOKING AT PRIVATE AND PUBLIC HELP PROFESSIONAL AND PERSONAL HELP AND PAID AND UNPAID CAREGIVERS IT CAPTURES AND CONCEPTUALIZES THE COMPLEXITY OF THE INTERSECTION OF WORK AND HOME LIFE AS IT RELATES TO THE PROVISION OF ASSISTANCE AND SUPPORT TO OLDER RELATIVES IN A VARIETY OF CARE WORK CONTEXTS IT EXPLORES THESE ISSUES WITHIN A CRITICAL FRAMEWORK RATHER THAN FROM AN ASSUMED STRESS OR BURDEN PERSPECTIVE WHICH DOMINATES CURRENT TEXTS ON THE TOPIC READERS OF THIS VOLUME WILL GAIN A DEEPER UNDERSTANDING OF ISSUES OF CARE PROVISION AMONGST NETWORKS OF CAREERS AND HELPERS AND OF THE PARTICULAR DYNAMICS OF CARE WHEN IT IS EPISODIC OR FRAMED BY CONSTRAINTS OF SPACE AND TIME AS A RESULT OF GEOGRAPHY IN ADDITION

EACH CHAPTER ADDRESSES ISSUES OF DIVERSITY WITH SENSITIVITY TO GENDER RACE AND ETHNICITY THIS BOOK WILL BE OF USE TO ACADEMICS AND GRADUATE STUDENTS IN GERONTOLOGY FAMILY STUDIES IO PSYCHOLOGY GENDER STUDIES AND SOCIOLOGY

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THIS REPORT WHICH EMBRACES THE RESULTS OF TWO SEASON S FIELD WORK CONTAINS A DESCRIPTION OF THE GENERAL GEOLOGY OF THE FITZROY BASIN IN THE KIMBERLEY DIVISION WITH RELATION TO THE POSSIBILITY OF THE OCCURRENCE OF MINERAL OIL IN THESE LOCALITIES PREFATORY NOTE

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