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""Using Picture Books to Curb Impulsive Anger or Anxiety"""""Other Suggested Strategies""; ""Summary""; ""Chapter 3 - Teaching Self-Control through Self-Verbalization""; ""Examining Self-Control""; ""What is Self-Control?""; ""Are Children Learning Self-Control?""; ""Brain Structures for Self-Control""; ""Do Mirror Neurons Play a Role in Self-Control?""; ""Losing Self-Control""; ""Helping Students Regain Self-Control""; ""Verbal Self-Control of Aggressive, Defiant, or other Behavior""; ""The Power of Self-Talk""; ""The ZIPPER Strategy""; ""a€œSay No and Walk Awaya€? to Resist Peer Pressure""
""Self-Control through Self-Talk and Self-Monitoring"""""The Nature of Attention""; ""Self-Monitoring for other Problem Behaviors""; ""Self-Control through Self-Rating of Emotional Intensity""; ""The Anger Thermometer""; ""Summary""; ""Chapter 4 - Managing the Behavior of Boys""; ""Why a Concern with Boys?""; ""Gender Differences in Behavior""; ""Genetic and Environmental Factors""; ""Impact of Biology""; ""Some Research Findings on Behavioral Differences""; ""Using Research-Based Strategies""; ""Movement-Based Instruction and Classroom Management""; ""Boy-Friendly Instruction and Discipline""
""The Responsibility Strategy"""""And What about Girls?""; ""The Rise of Cyberbullying""; ""Bullying versus Cyberbullying""; ""Dealing with Cyberbullying""; ""Summary""; ""Chapter 5 - Building Positive Relationships with Troubled Students""; ""Relationships and Research""; ""Insights from Neuroscience""; ""Some Research Findings""; ""Developing Teacher-Student Relationships""; ""The Importance of Positive Relationships with and for Students""; ""Reaching Unreachable Students with Dialogue Journals""; ""The Lunch Bunch: An Educatora€?s Idea""
""Managing Serious Behavior Problems through Adult Mentoring""

Sommario/riassunto

Combining theory and practice, this user-friendly guide translates current brain research into practical, effective strategies for controlling or minimizing disruptive behaviors in K-12 classrooms.

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5.2 Integration of Bioprinting and Optical Imaging; References; Bioprinting with Live Cells; 1 Introduction; 2 Bioprinting with Live Cells 2.1 2D Patterning and Cell-Sheet Technology2.2 Inkjet-Based Bioprinting; 2.3 Self-Assembly Based Bioprinting; 2.4 Extrusion-Based Bioprinting; 3 Conclusion and Discussion on Stem Cell Printing; References; Hydrogels for Cell Encapsulation and Bioprinting; 1 Introduction; 2 Hydrogels as Bio-Ink; 3 Hydrogels as Bio-Paper; 4 Properties of Bioprinting Hydrogels; 4.1 Viscosity; 4.2 Gelation Time; 4.3 Water Content and Swelling; 4.4 Degradation; 4.5 Mechanical Properties; 5 Conclusions; References; Three-Dimensional Bioprinting in Regenerative Medicine; 1 Introduction; 2 Cell Printing
3 Microvasculature Printing4 Muscle Printing; 5 Cartilage Printing; 6 Bone Printing; 7 The Future; References; Bioprinting of Dynamic Human Organs-on-Chips: Enabling Technologies for Rapid Drug Development and Personalized Medicine; 1 Clinical Need for Organs-on-Chips; 1.1 History of Drug Discovery and Development; 1.2 Tissue Culture Bioassays; 1.3 Animal Models; 1.4 Advent of Organs-on-Chips; 1.5 Current Challenges; 2 Bioprinting Design and Fabrication; 2.1 Design; 2.2 Fabrication; 3 Regulatory Pathway and Future Directions; 3.1 Regulatory Pathway
3.2 Future Directions and Concluding ThoughtsReferences; Index

Sommario/riassunto

This volume explores laser-assisted bioprinting, focusing on the most recent developments in its use for tissue engineering. Bringing together authoritative and international perspectives, the text begins with an overview and goes on to cover bioprinting in cell viability and pattern viability, tissue microfabrication to study cell proliferation, microenvironment for controlling stem cell fate, cell differentiation, zigzag cellular tubes, cartilage tissue engineering, osteogenesis, vessel substitutes, skin tissue and much more. Bioprinting is on its way to becoming a dominant technology in tissue-engineering; Bioprinting in Regenerative Medicine, from the bestselling Stem Cell Biology in Regenerative Medicine series, is essential reading for those researching or working in regenerative medicine, tissue engineering, or translational research. Those studying or working with stem cells who are interested in the development of the field will also find the information invaluable.