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Extreme Tissue Engineering; Contents; Preface: Extreme Tissue Engineering-a User's Guide; Chapter 1 Which Tissue Engineering Tribe Are You From?; 1.1 Why do we need to engineer tissues at all?; 1.1.1 Will the real tissue engineering and regenerative medicine please stand up?; 1.1.2 Other people's definitions; 1.1.3 Defining our tissue engineering: fixing where we are on the scale-hierarchy; 1.2 Bio-integration as a fundamental component of engineering tissues; 1.2.1 Bio-scientists and physical scientists/engineers: understanding diversity in TERM  
1.3 What are the `tribes' of tissue engineering?1.3.1 Special needs for special characteristics: why is networking essential for TERM?; 1.4 Surprises from tissue engineering (Veselius to Vacanti); 1.5 So, really, is there any difference between tissue engineering and regenerative medicine?; 1.5.1 Questions never really asked: repair versus regeneration?; 1.5.2 Understanding the full spectrum: tissue replacement, repair and regeneration; 1.6 Conclusions; 1.7 Summarizing definitions; Annex 1 Other people's definitions of tissue engineering  
Annex 2 Other people's definitions of regenerative medicineFurther reading; Chapter 2 Checking Out the Tissue Groupings and the Small Print; 2.1 Checking the small print: what did we agree to engineer?; 2.2 Identifying special tissue needs, problems and opportunities; 2.3 When is `aiming high' just `over the top'?; 2.4 Opportunities, risks and problems; 2.4.1 Experimental model tissues (as distinct from spare-parts and fully regenerated tissues); 2.4.2 The pressing need for 3D model tissues; 2.4.3 Tissue models can be useful spin-offs on the way to implants  
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3.7 4D cultures-or cultures with a 4th dimension?

Highly Commended at the BMA Book Awards 2013 Extreme Tissue Engineering is an engaging introduction to Tissue Engineering and Regenerative Medicine (TERM), allowing the reader to understand, discern and place into context the mass of scientific, multi-disciplinary data currently flooding the field. It is designed to provide interdisciplinary, ground-up explanations in a digestible, entertaining way, creating a text which is relevant to all students of TERM regardless of their route into the field. Organised into three main sections: chapters 1 to 3 introduce and e