













JOANN	Laser C RCH	renter Leoben	Biomaterials	
	Generation	Materials	Body reaction	
	1	Industrial materials	Distinct foreign body reaction (inflammation)	
	2	Inert materials	No reaction	
	3	Bioactive and metabolic inductive	Triggering of natural tissue growth	
	4	Cell-material compounds (vital-avital)	Scaffolds with cultivated cells	fied
			INNOVATION aus TRA	ISO 9001 certi

























Laser Cent	er Leoben		
Host	response	e - regen	eration
generative cap	acity of cells fol	lowing injury:	
Category	Normal rate of replication	Response to stimulus / injury	Examples
Renewing / labile	high	Modest increase	Skin, intestinal mucosa, bone marrow, bone
Expanding / stable	low	Marked increase	Endothelium, fibroblasts, liver cells
Static / permanent	none	No replication, replacement by scar	Heart muscle cells, nerves



























































