

FULL Netfabb 2018 Activation [WORK]

When a cell is the appropriate spatial stimulus or morphogen, it is free to develop. After all, not only is the positional information embedded in the cell, the cytoskeleton has the potential to be the morphogen. When a cell is determined to be part of an organ by the spatial and external stimulus (morphogen), it is independent of other similar cells (Echeverri, Di Paolo, & Galan, 2015). After differentiation, a full-blown cell is formed. The precursor cells are prevented from further development by external stimuli, and thus change in its state into a mature cell. Each cell has its own individuality and path, expressing the same program (Echeverri et al., 2015). It is the embryonic stem cells that are able to express multi-potency and generate all three germ layers. The genetic mutations that restrict embryo development are inherited by the offspring and continue their lifecycle. Genetic mutations that change spatial morphology could lead to the production of a creature with mutant characteristics or a full-blown pathological, disease state. Recombination of parts of organisms can occur at any time and have been known to occur throughout their lifecycle. In the event that recombination occurs at the appropriate time, it can allow the organism to survive through to full maturity (Hassan, Bloom, & Hamburger, 2014). Material flow direction was plotted for each degree of angle and for each magnitude. In Figure 12, it can be seen that the material behaved differently with increasing angle of activation, and the flow direction was therefore altered. The dark green represents the two distinct but related methodologies which have characterised additive. From a design standpoint, the bi-modal nature of AM makes its uses limited, as in the case of a fully-printed part, there are numerous approaches to designing a 3D-printed object. However, in some cases, the material intrinsically present within the additive process is taken advantage of. For example, when a metal object is printed from a metal alloy, its thermal properties would be advantageous for AM. The dissolution of the metal, and the characterisation of the resultant building material, allows design freedom which is otherwise not possible.

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One of the most sophisticated uses of hybridisation currently exists in medicine. The development of organs through hybridisation of tissue-engineered organs is the current challenge of tissue engineering. The authors in this study utilise a hybridisation and co-culture of fetal bowel and bladder cells, using a hybridisation process in which the cells are transferred from the foetus to the bladder, where they develop into a fully formed neobladder (Lim et al., 2016). This concept also allows the transfer of organ growth potential, through the integration of foetal cells into the adult bladder, enabling the induction of regeneration (Lim et al., 2016). This form of hybridisation is limited to transferring material between two distinct organs, and has not utilised the full potential of hybridisation as a simultaneous additive manufacturing process. The addition of stimuli prior to and throughout hybridisation could expand hybridisation to encompass the dynamic interaction of multiple tissues, and the transfer of growth potential. Although the gap between hybridisation and the ability to truly create an organ or component through hybridisation is large, the introduction of concepts of In-situ DfAM may provide a viable alternative. Current additive manufacturing platforms are not able to incorporate stimuli which can stimulate material to allow the initiation of the entire 3-D formation, and the activation of synthetic materials is limited to an initial stimulus. This is highlighted in Figures 4 (a) and 4 (b), where the green highlight represents the current state of material activation, where the material is activated by the stimulus of fusion. By increasing the number of stimuli that can be introduced into a material during manufacture, the list of potential responses will expand. In addition to the stimuli introduced into the material, the temporal range that they can be introduced is limited by the speed of manufacture; the faster the manufacture is, the greater the range of stimuli, and vice versa. The introduction of In-situ DfAM would allow the stimulus to vary over time, and in any direction. The challenge in the implementation of such a process would be in the ability to focus the addition of material to specific areas, whilst simultaneously activating a response within the structure. Whilst this is technically possible, the complexity of the manufacturing process would require significant research and development to current technologies. Sec8ef588b

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