Application of Novel Biomaterials in Clinical Surgery

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ANDREAS VESALIUS

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An Annotated Translation of the 1543 and 1555 Editions of “De Humani Corporis Fabrica” by

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• Road to Alzheimer's Disease: The Pathomechanism Underlying: Anand, R.; Kaushal, A.; Wani, W.Y.; Gill, K.D. (Chandigarh)
• Expression of MUC1, MUC2, MUC5AC and MUC5B in Mucinous Lesions of the Breast: Kim, D. (Suwon); Jung, W.-H.; Koo, J.S. (Seoul)
• Prognostic and Predictive Value of Cell Cycle Deregulation in Non-Small-Cell Lung Cancer: Steefaci, W. (Freiburg); Fieg, M. (Innsbruck); Tzankov, A. (Basel)
• A Methyl–Deficient Diet Modifies Early B Cell Development: Kurogi, T.; Inose, H.; Guo, Y.; Nobukiko, Y. (Hiroshima); Nohara, K. (Tsukuba); Kanno, M. (Hiroshima)

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Application of Novel Biomaterials in Clinical Surgery

This special issue of Pathobiology highlights novel biomaterials and their clinical use in surgery. As populations grow and expand, the need for replacement tissues and organs is constantly increasing and requires novel engineering strategies. Collective progress in the development of innovative materials and scaffolds capable of modulating the cellular responses required for tissue repair can only be achieved via collaborative interactions between investigators in the diverse Life Sciences disciplines. Application of Novel Biomaterials in Clinical Surgery includes chapters on in vivo tissue engineering, the bioartificial pancreas, the repair of tendon and ligament injuries and resorbable osteosynthesis materials in craniomaxillofacial surgery. Its main goal is to summarize the key messages of novel biomaterials and their application in clinical surgery. The publication is of interest to academic surgeons of any field, as it highlights the integration of tissue-engineered materials into clinical practice.