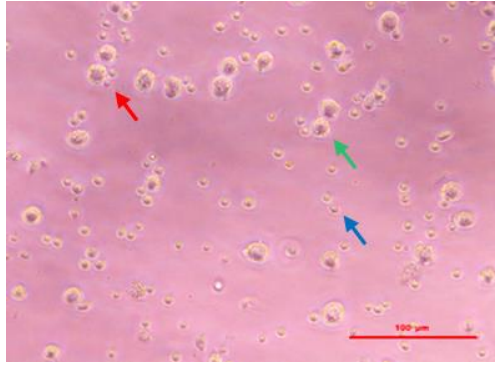


## 財團法人農業科技研究院及合作單位 可移轉技術簡介

技術名稱 Technology Term	單株抗體與融合瘤技術 Monoclonal antibody and hybridoma technology
技術發明人 Technology Representative	林俊宏、陳正文、王志鵬、謝明偉、洪郁婷、余勁擘 Jiunn-Horng Lin, Zeng-Weng Chen, Jyh-Perng Wang, Ming-Wei Hsieh, Yu-Ting Hung, Ging-Yie Yu
技術應用領域 Technology Field	醫學檢驗、醫學治療、工業純化、農業檢測、實驗室研究 medical examination, medical therapy, industrial purification, agricultural testing, laboratory research
技術簡介 Technology Description	<p>單株抗體由單一類型的免疫細胞所分泌，藉融合瘤技術製備具無限增殖能力與產生特異性單株抗體之融合瘤細胞株，以生產與製備單株抗體。基於融合瘤技術，依檢測標的製備可辨認特定抗原之特異性抗體，具高度特異性與高度敏感性的優勢，可廣泛應用於醫學、工業和農業領域，提升產業效能與產品附加價值。</p> <p>Monoclonal antibodies are antibodies produced by a clone of cultured cells that make one specific antibody. In hybridoma technology of producing monoclonal antibodies, myeloma cells are fused with lymphocytes to make a cell called a hybridoma. The hybridoma cells will keep dividing indefinitely and makes a particular antibody. Based on the advantages of its high specificity and high sensitivity detection, it can widely implied in medical, industrial and agricultural areas. Improving industrial performance and increasing the value-added to products.</p>
技轉相關 圖/表	<div style="text-align: center;"> <p>小鼠免疫 2個月      細胞融合 1天      篩選與單株化 2個月      抗體擴增 2個月      純化與修飾 2週</p> <p>施打抗原      收取脾細胞      融合瘤細胞      ELISA, IFA, Western...      腹水生產      管柱純化</p> <p>培養骨髓瘤細胞      單株化極限稀釋      施打融合瘤細胞      FITC</p> </div> <p style="text-align: center;">圖一、融合瘤技術單株抗體製備之流程。</p>



圖二、完成融合反應之細胞。圖內標示藍色箭號為脾細胞；綠色箭號為骨髓瘤細胞；紅色箭號則為融合瘤細胞。

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