



APASL 2024 Kyoto: APASL - The Center of Hepatology



Luncheon Seminar : C-2 (Room 6)

Challenges and Opportunities in Utilizing Primary Hepatocytes: Navigating Limitations in Liver Research

初代肝細胞利用における課題と挑戦

Speaker : **Jana Soyka, PhD** Miltenyi Biotec B.V. & Co. KG

Day2 : **28th March, Thursday 12:30~13:30**



Miltenyi Biotec

Kyoto International Conference Hall

Miltenyi Biotec B.V. & Co. KG

www.miltenyibiotec.com/JP-en



ランチョンセミナー 3月28日(木) 12:30~13:30
Seminar C-2 (Room 6) 1F

初代肝細胞利用における課題と挑戦

簡易的に誰でも簡単に肝臓灌流が可能に
脂肪肝マウス及びヒトキメラマウスの事例とともに



gentleMACS Perfusers

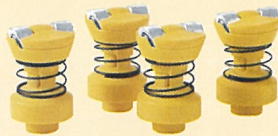
Primary hepatocytes are indispensable tools in biomedical research, providing valuable insights into liver physiology, drug metabolism, and toxicity. However, their acquisition remains a challenge, particularly through the gold standard in vivo liver perfusion technique. The limitations of this method, excluding the use of individual organs in multiple experimental settings, such as cellular, molecular, and imaging assays, necessitate innovative solutions.

Here, we present a new semi-automated perfusion technique designed to address these challenges, including the example of disease models. The gentleMACS™ Perfusion Technology also facilitates the gentle, rapid, and efficient generation of single cell suspensions from rodent livers ex vivo.

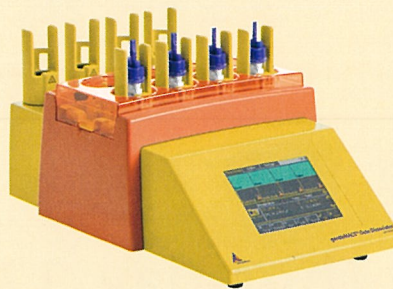
Furthermore, we introduce the MACSima Spatial Biology platform, that enables researchers to relate scientific findings at the single-cell level to spatial contexts. By incorporating spatial information, researchers gain a deeper understanding of the liver microenvironment, allowing for more comprehensive investigations into disease mechanisms and medical treatment.

展示ブース (No. S-5) にて下記をご紹介しておりますので是非お立ち寄りください。
Please come to our exhibition booth “No.S-5” and look at our technologies as below.

- 簡単な semi-automated 肝臓灌流技術 : **Perfusion Technology**
- Tissue Dissociation のスタンダード : **gentleMACS™ Octo Dissociator with Heaters**
- 磁気細胞分離の自動化へ : **autoMACS® NEO Separator**



Perfusion Sleeve



gentleMACS Octo Dissociator with Heaters



Liver Perfusion Kit, mouse and rat



Miltenyi Biotec

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