Volz et al.: Completely defined co-culture of adipogenic differentiated ASCs and microvascular endothelial cells

Supplementary Data

Tab. S1: Lipid accumulation of diffASCs in mono-culture

Value of diffASCs immediately after differentiation (day 0) was set as 100%. Data are mean ± SD.

| | Def-Diff | ACM | | Co | M | ECM | |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Day | 0 | 7 | 14 | 7 | 14 | 7 | 14 |
| Lipid accumulation | 100 ±11.7 | 178 ±31.5 | 230 ±75.6 | 208 ±39.6 | 320 ±84.5 | 198 ±27.2 | 271 ±72.4 |

Tab. S2: Lipid accumulation, leptin release and glycerol release in indirect co-culture

Values of diffASCs immediately after differentiation (day 0) were set as 100%. Data are mean ± SD.

| _ | Def-Diff | ACM mono | | ACM | | СоМ | | ECM | |
|-----------------------|---------------|---------------|---------------|-----------------|---------------|-----------------|-----------------|-----------------|----------------|
| Day | 0 | 7 | 14 | 7 | 14 | 7 | 14 | 7 | 14 |
| Lipid accumulation | 100 ±7.5 | 197 ±103.9 | 130 ±27.3 | 202 ±113.1 | 139 ±49.2 | 244 ±101.2 | 198 ±54.2 | 235.3 ±106.8 | 184 ±51.44 |
| Leptin release | 100 ±104.5 | 858 ±622.6 | 76 ±124.9 | 2286 ±3286.9 | 650 ±646.5 | 3766 ±2642.3 | 2195 ±1579.9 | 1990 ±1790.0 | 1211 ±928.3 |
| Glycerol release | 100 ±23.2 | 137 ±198.8 | 14.2 ±12.6 | 71 ±80.8 | 22 ±36.0 | 89 ±101.7 | 52 ±39.4 | 101 ±93.5 | 44 ±40.6 |

Tab. S3: Lipid accumulation, leptin release and glycerol release of diffASCs in direct co-culture Value of diffASCs immediately after differentiation (day 0) was set as 100%. Data are mean ± SD.

| | Def-Diff | Мог | וס | Со | | |
|--------------------|------------|----------------|--------------|--------------|--------------|--|
| Day | 0 | 7 | 14 | 7 | 14 | |
| Lipid accumulation | 100 ±4.8 | 280 ±98.7 | 253 ±61.9 | 277 ±93.6 | 227 ±49.2 | |
| Leptin release | 100 ±127.7 | 2179.8 ±1562.5 | 2540 ±1981.7 | 2114 ±1508.3 | 1603 ±2059.8 | |
| Glycerol release | 100 ±9.1 | 148 ±47.5 | 235.8 ±79.1 | 229 ±78.1 | 229 ±89.3 | |

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