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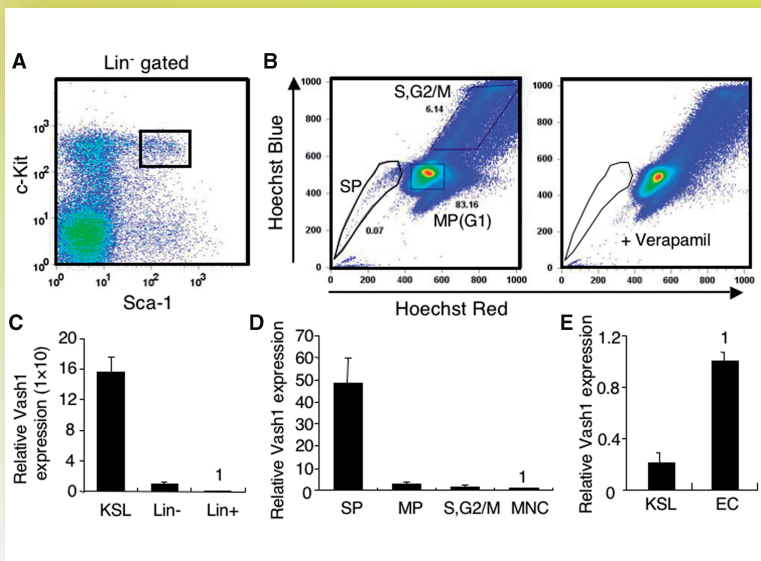
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- DNA-Protein Interaction
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Cytoskeleton, Cell Motility, and Cell Shape
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Author Index

- Akbar, B.K., 693
Esterly, N., 609
Fukuda, T., 643
Gao, C.-x., 643
Gu, J., 643
Hamano, K., 677
Hasegawa, T., 635
Inouye, K., 555
Itoh, T., 555
Kadowaki, T., 565
Kanamori, T., 693
Kawabata, K., 677
Kawahara, M., 575
Kidoya, H., 653
Klaassen, C.D., 609
Kobayashi, K., 685
Kondo, A., 643
Kunii, S., 677
Li, W., 643
Liu, W., 575
Maeda, T., 661
Makino, Y., 585
Matsumoto, A., 643
Mikami, B., 555
Miyoshi, E., 643
Mogi, T., 599, 625, 669, 685
Morimoto, K., 677
Motojima, K., 591
Murakami, T., 661
Nagamune, T., 575
Naito, H., 653
Nakayama, K.I., 565
Ohno, M., 591
Okamoto, K., 565
Okamoto, Y., 565
Okano, T., 591
Omichi, K., 585
Osada, E., 693
Saito, T., 677
Sakurama, H., 555
Sato, Y., 653
Shimizu, Y., 693
Tagawa, S., 685
Takakura, N., 653
Takita, T., 555
Taniguchi, A., 591
Taniguchi, N., 643
Tonomura, B., 677
Tsuchiya, W., 635
Tsukuba, T., 565
Ueda, H., 575
Ueda, T., 693
Wada, M., 661
Wan, Y.-J.Y., 609
Wang, X., 643
Watanabe, Y., 585
Yamamoto, E., 585
Yamamoto, K., 565
Yanagawa, M., 565
Yang, X., 609
Yasuda, Y., 565
Yasukawa, K., 555
Yokota, A., 661
Zhang, Y.-K.J., 609

COVER: (A) Flow cytometric analysis of adult bone marrow (BM) HSC population ($\text{Lin}^- \text{c-Kit}^+ \text{Sca-1}^+$) in mice as indicated by box. (B) Analysis of side population (SP) cells, main population (MP) cells, and cells in the S,G2/M phase of the cell cycle from adult BM in mice. The identification of SP cells was confirmed by their disappearance in the presence of Verapamil (right panel). (C-E) qRT-PCR for *VASH1* in several cells as indicated. (C) KSL HSC population specifically expresses *VASH1*. (D) SP cells strongly express *VASH1*. Mononuclear cells (MNCs) from whole BM were also used for comparison. (E) Comparison of *VASH1* expression by KSL cells as indicated in (A) and ECs from hind limb muscle of adult mice defined as $\text{CD31}^+ \text{CD45}^-$ cells. *VASH1* expression in HSCs suggests that *VASH1* regulates pool size of HSCs by negatively regulating proliferation of HSCs. [See Naito *et al.*; p. 653]