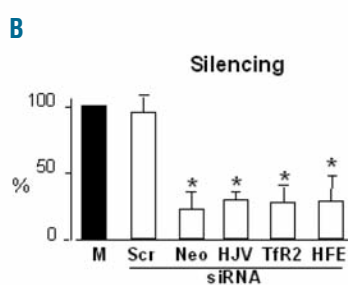
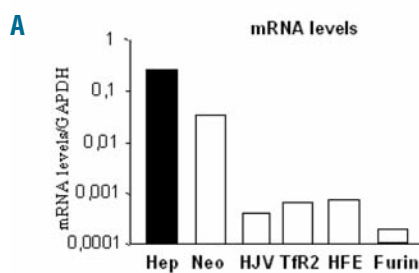


Transferrin receptor 2 and HFE regulate furin expression via mitogen-activated protein kinase/extracellular signal-regulated kinase (MAPK/Erk) signaling. Implications for transferrin-dependent hepcidin regulation

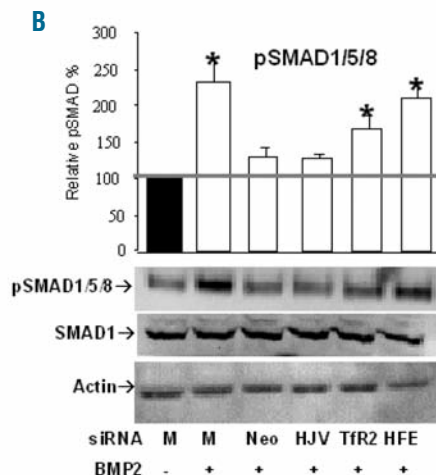
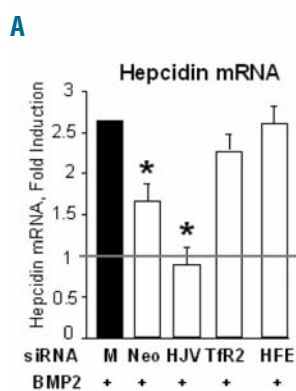
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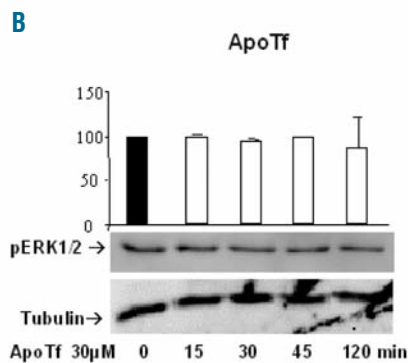
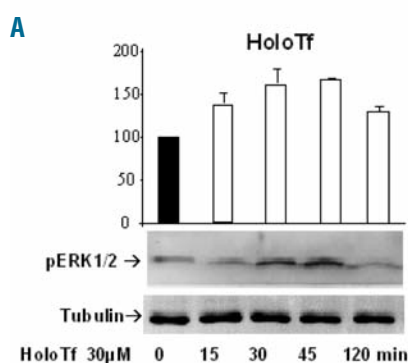
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Online Supplementary Figure S1. Transcript levels and silencing. The level of the mRNA of the proteins was evaluated by real-time RT-PCR using GAPDH as a reference. (A) Level of the mRNA relative to that of GAPDH. (B) Level of the mRNA after transfection with the corresponding siRNA, expressed as a percentage of that of the mock transfected cells. The HepG2 cells were transfected with 100 pmol of the siRNA and analyzed 72 h after transfection. Mean and SD of three independent experiments.

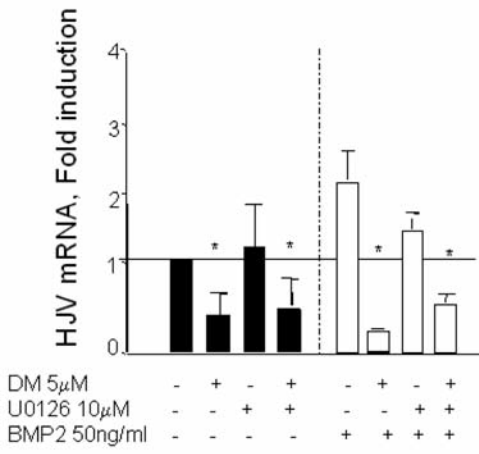


Online Supplementary Figure S2. Induction of hepcidin by BMP2. HepG2 cells were transfected with the different siRNA and then induced for 16 h with 50 ng/mL of BMP2. (A) Fold-increase of hepcidin mRNA relative to the level before incubation with BMP2. (B) Western blotting of phosphoSMAD1/5/8 and of SMAD1.



Online Supplementary Figure S3. HepG2 cells were incubated for different periods with 30 µM apotransferrin (ApoTf) or holotransferrin (HoloTf) and analyzed. (A) Western blotting of pERK1/2 after the indicated time of incubation with HoloTf. (B) The same after the indicated time of incubation with ApoTf. Representative of three independent experiments. The histograms represent the mean of three experiments.

HJV mRNA



Online Supplementary Figure S4. Treatment with dorsomorphin. HepG2 cells were grown for 6 h in the presence or the absence of 50 ng/mL BMP2 with or without dorsomorphin (DM) or 10 μ M U0126. They were then analyzed for the level of HJV mRNA. Mean of three independent experiments.