

**Supplemental Information: Hemorrhagic shock-induced intestinal barrier dysfunction**

**Remediation of Hemorrhagic Shock-Induced Intestinal Barrier Dysfunction by Treatment with  
Diphenyldihaloketones**

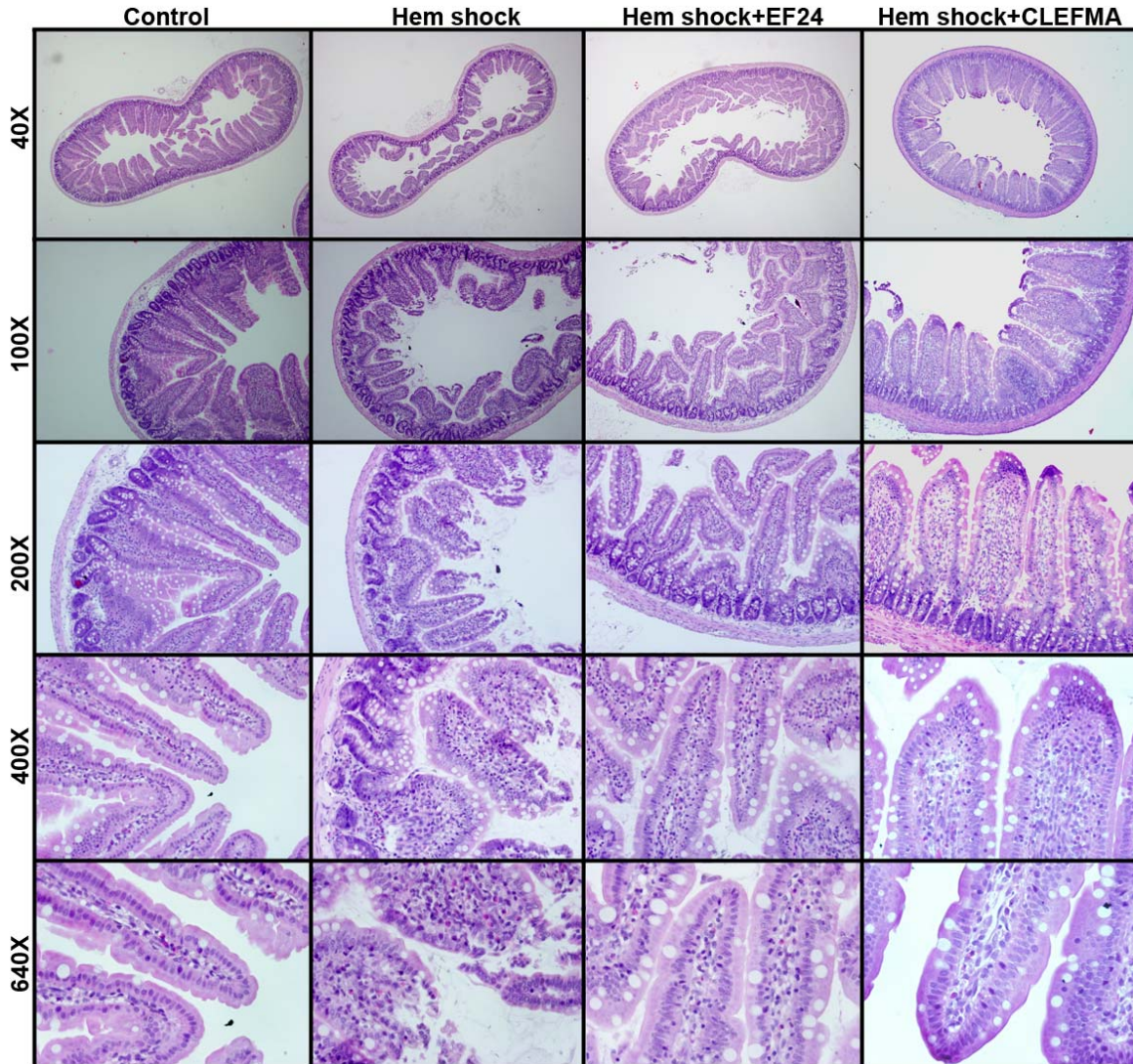
Vivek R Yadav, Alamdar Hussain, Kaustuv Sahoo, and Vibhudutta Awasthi

Department of Pharmaceutical Sciences, University of Oklahoma Health Science Center, Oklahoma City,  
OK, USA

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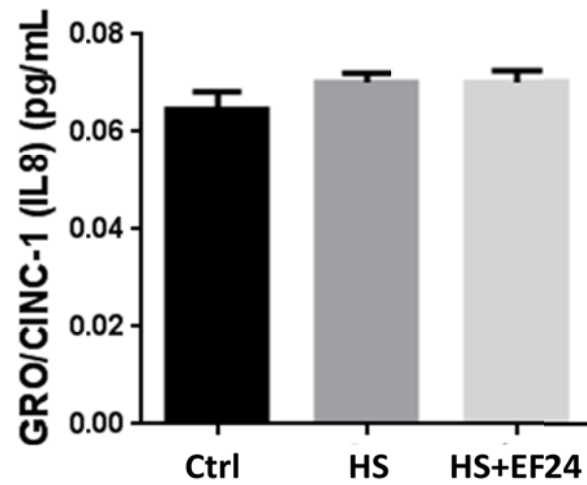
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**Fig. S1:** Microscopic pictures of ileal tissue from rats subjected to hemorrhagic shock and treated with EF24 or CLEFMA (0.4 mg/Kg bodyweight). The slices of ileum were stained with hematoxylin and eosin.



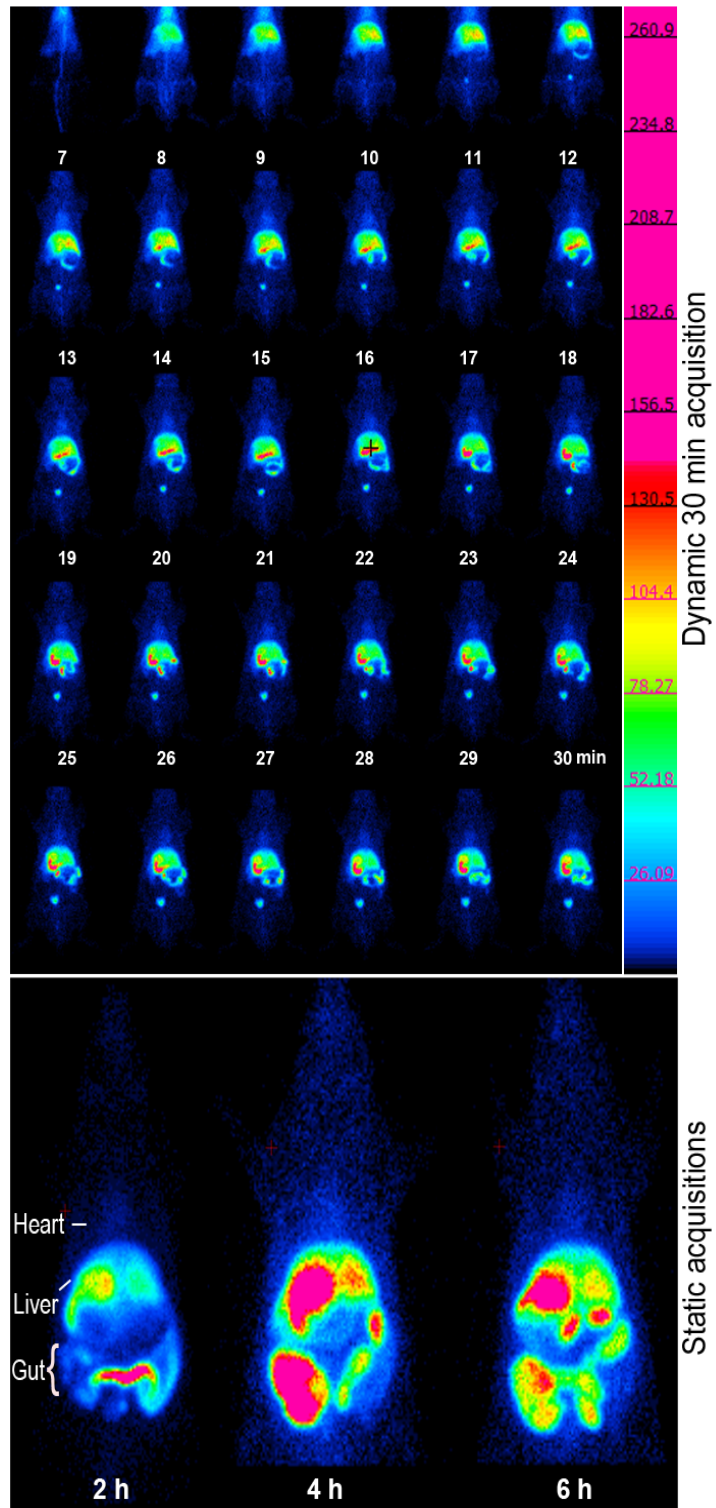
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**Fig. S2:** IL-8 or GRO/CINC-1 estimation in rat ileal tissue. IL-8 in rat ileum was estimated by ELISA using a kit supplied by Enzo Life Sciences (Farmingdale, NY). Manufacturer's instructions were followed, and the IL-8 concentration was expressed in pg/mL.



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**Fig. S3:** Gamma camera images of a rat injected with Tc-99m-EF24. The labeling procedure for Tc-99m-EF24 has been described elsewhere (22). The rat was injected with approximately 74 MBq of Tc-99m-EF24 and imaged in a NanoSPECT system (Bioscan, Washington DC). A dynamic image acquisition of Tc-99m-EF24 kinetics in the first 30 min of intravenous administration was followed by static images (at 0.5, 2, 4, and 6 h). The images are representative of three identically imaged rats.



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**Table S1:** Sequences of primers used in RT-PCR analyses. The primers for RT-PCR in rat ileal tissues were obtained from [www.realtimeprimers.com](http://www.realtimeprimers.com).

Gene	5'-Forward-3'	5'-Reverse-3'
Zonula Occludens-1	TGTCCAGAGTCTCGGAAAAG	GACGATCATCATGCAAATCA
Zonula Occludens-2	GCATGAGGAGAGCATAAGGA	GCAGAGAGGTTTACTTGA
Zonula Occludens-3	CAGGAAGTCAAGGCTGTCAT	GGTGTCTTCGTAGTCGCTGT
Occludin	TGGTCTCTACGTGGACCAAT	TTAGGGGGCTGTTCATCATA
Claudin-1	GCCCCAATGGAAGATTTACT	TAAGCACCTCATGCACTTCA
Claudin-2	AAGTGCTGTCTCCCACTGAG	TGCCTCTCCAAAACAGTAGG
Claudin-3	AGAAGCGAGAGATGGGAAT	GGTACATCGACGGTTGGTAG
Claudin-4	TATACCCCTCCCTCTTCAG	ATGCAGGTGCCATTTATTGT
$\alpha$ -Defensin-related sequence-1	CAGGCTGATCCCATTCAAGA	GTGGACCTTGATAGCCGAAT
Defensin-5	TGCTCTGCTCTCCGTGATTA	AGTGCCTTTATCCCCTCAA
Angiopoetin-4	ATGACAGCAGCATCTCAGCA	GCGGATGCCATTGATCTTAT
Lysozyme-2	GGTGAATGACGGCAAACC	AGACTCCGCAGTTCCGAATA

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**Table S2:** Primary antibodies used for immunoblotting assays described in the main text were obtained from Santa Cruz Biotechnology, Inc. (SCBT, Dallas, TX) and Cell Signaling Technology (CST, Danvers, MA).

Protein	Antibody source and catalogue #	Dilution and application
Zonula Occludens-1	SCBT, sc10804	1:1000 immunoblotting 1:150 immunohistochemistry
Zonula Occludens-2	SCBT, sc11448	1:1000 immunoblotting 1:500 immunohistochemistry
Occludin	SCBT, sc5562	1:1000 immunoblotting 1:500 immunohistochemistry
Claudin-1	SCBT, sc17658	1:1000 immunoblotting 1:400 immunohistochemistry
Ileal lipid- binding protein	SCBT, sc23994	1:1000 immunoblotting 1:500 immunohistochemistry
CD163	SCBT, sc33560	1:1000 immunoblotting
Phospho- tyrosine	SCBT, sc7020	1 µg/100 µg total protein immunoprecipitation
Phospho- threonine	CST, 9381	1 µg/100 µg total protein immunoprecipitation