	patient #2	patient #3	patient #4	patient #6	patient #7	patient #8	patient #9	patient #10	patient #11	patient #12	patient #1
Sex	male	female	female	male	female	male	male	male	female	male	female
Age	89	78	88	46	53	57	65	51	72	ND	64
Reason for hospitalization	Knee arthritis related to a flare of chondrocalcinosis	Treatment of rheumatoid arthritis	Knee arthritis related to a flare of chondrocalcinosis	Treatment of rheumatoid arthritis	Treatment of rheumatoid arthritis	ankylosing spondylitis	knee osteoarthritis	knee osteoarthritis	Treatment of rheumatoid arthritis	psoriatic arthritis	Treatment rheumatoi arthritis
VAS (/10)	8	7	4	1	3	4	0	5	9	6	9
Plasmatic C-relative protein (mg/l)	94	5	ND	1,1	ND	1	1	ND	ND	47	0.48
Protein in synovial fluid (g/l)	34	ND	ND	ND	52,6	27,3	ND	36,6	31	ND	30
pH of synovial fluid	7.45 ± 0.02	7,68	7,75	7,66	7,77	7,72	7,85	7,76	7,61	7,63	7.49 ± 0.
Estimated LPC concentration (µM)											
LPC 16:0	38	65	93	165	161	169	124	135	128	104	56
LPC 18:1	12	16	20	66	40	40	40	34	43	30	21
LPC 18:0	16	28	34	67	75	65	55	61	51	44	22
LPC 20:4	6	12	9	13	16	16	19	20	21	13	8

Expanded View Figures

Figure EV1. Detailed analysis of exudates from 11 patients. ND, not determined.

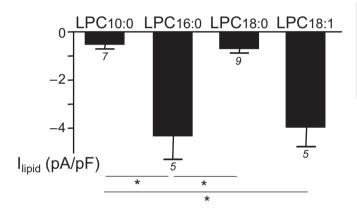


Figure EV2. Effects of LPC molecules containing different fatty acid chains on ASIC3-transfected cells at resting pH 7.4.

Current densities are measured at -80 mV from F-11 cells following 30-s applications of LPC10:0, LPC16:0, LPC18:0, or LPC18:1 at 10 μ M (*P < 0.05 Kruskal–Wallis test followed by a Dunn's *post hoc* test). The number of experiments (*n*) is indicated below each bar graph, and error bars indicate \pm SEM.

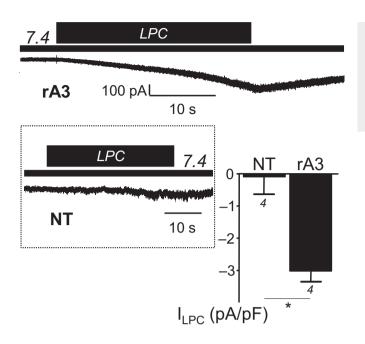


Figure EV3. Activating effect of LPC on ASIC3 channels expressed in CHO cells.

Rat ASIC3 (rA3) currents are generated by extracellular application of LPC (crude extract from bovine brain, 10 μ M) at resting pH 7.4. Current densities are measured at -80 mV and are compared to the currents induced in non-transfected (NT) cells (**P* < 0.05, Mann–Whitney *U*-test). The number of experiments (*n*) is indicated below each bar graph, and error bars indicate \pm SEM.

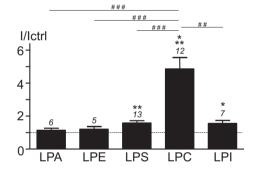


Figure EV4. Effects of different lysophospholipids on acid-induced ASIC3 current.

Comparison of the effects of LPA, LPE, LPS, LPC, and LPI at 10 μ M on the pH 7.0-induced current recorded from F-11 cells (each compound is applied for 3 min, *P < 0.05, and **P < 0.01 and ***P < 0.001, Wilcoxon test; "#P < 0.01 and "##P < 0.001, Kruskal–Wallis test followed by a Dunn's *post hoc* test). The number of experiments (*n*) is indicated above each bar graph, and error bars indicate \pm SEM.