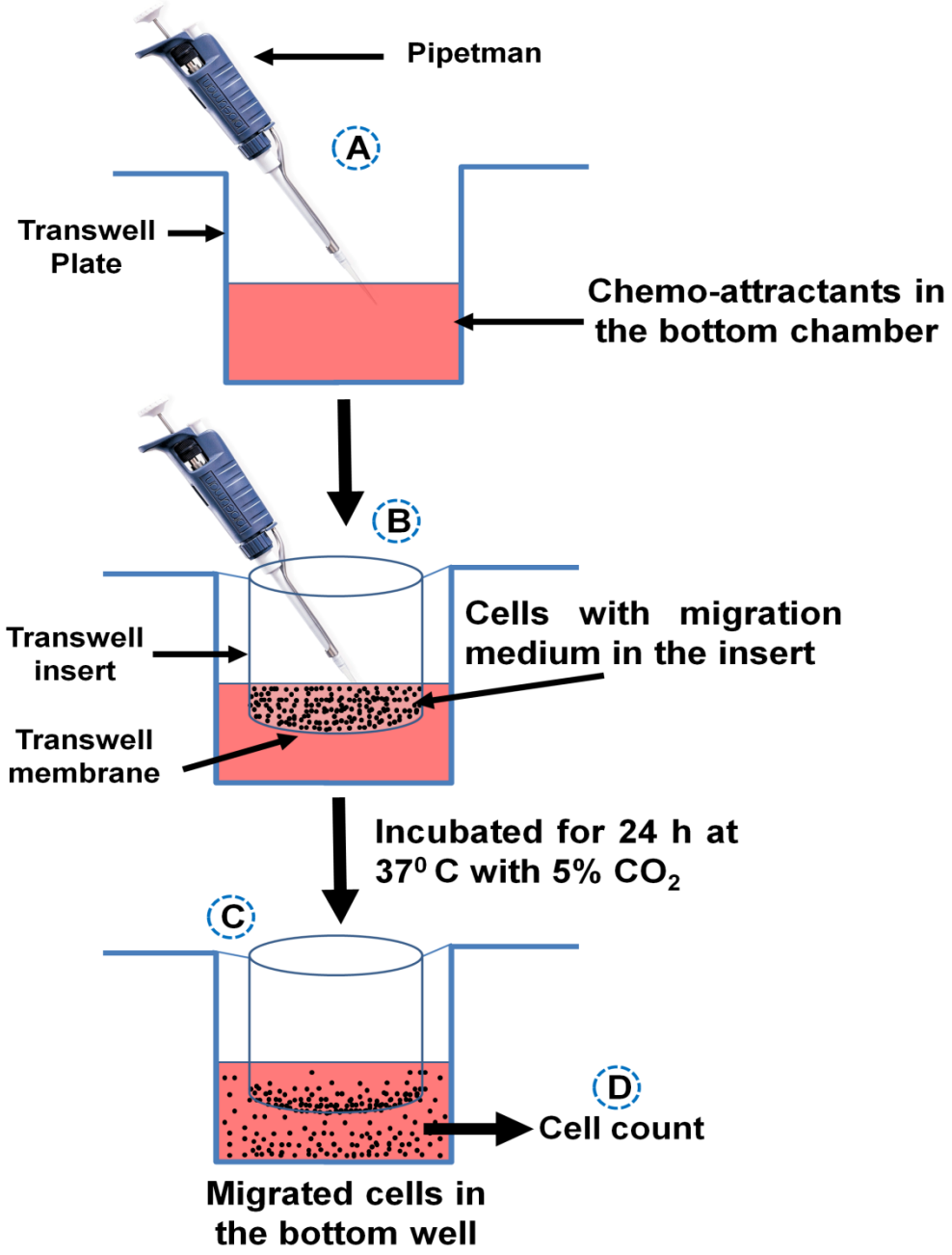
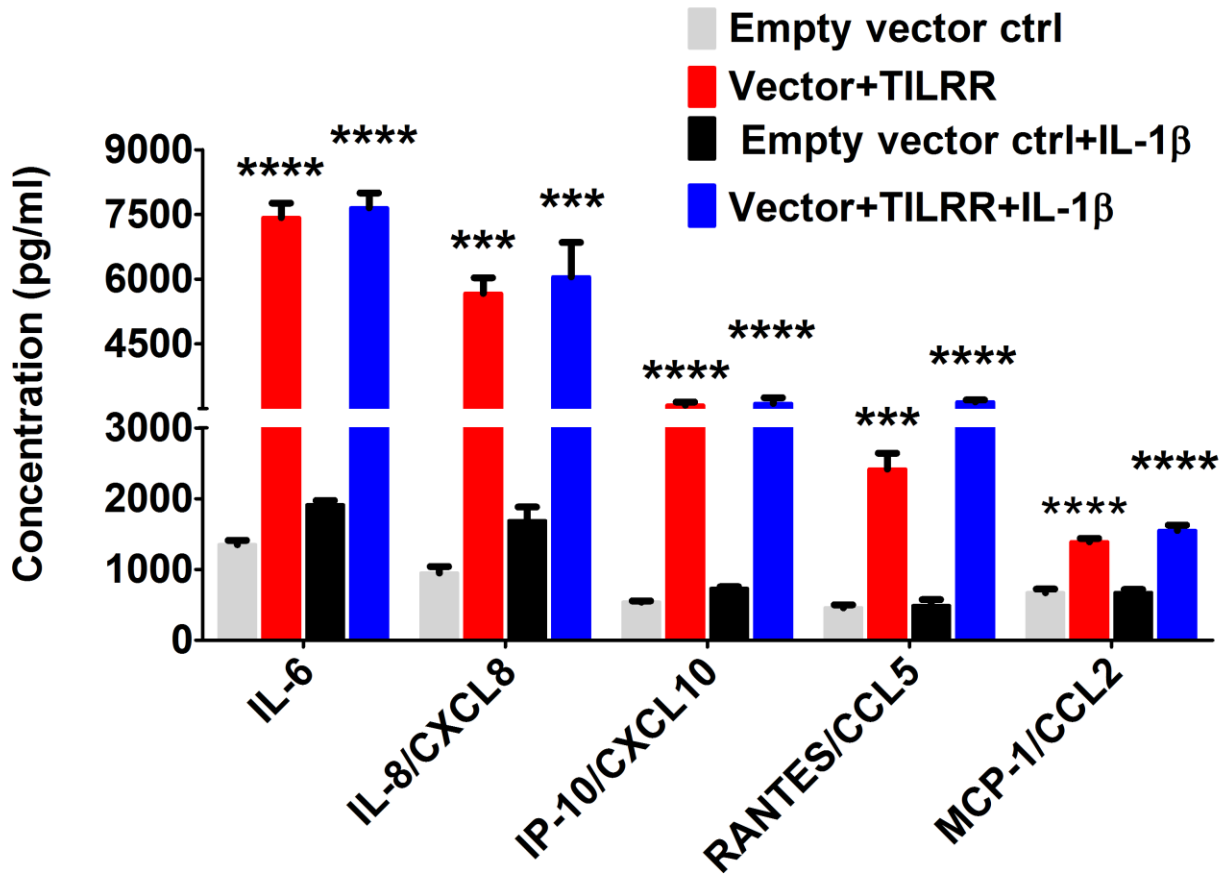


Supplementary Figure 1: Illustration of the Transwell migration assay. (A) TILRR-overexpressed HeLa cell culture supernatants (light red color) added to the bottom chamber of Tranwell plate. **(B)** Immune cells ($5x10^5$/insert) (THP-1 or MOLT-4) containing migration media dispensed in Transwell insert. **(C)** Following 24h of incubation at 37^0 C, the migrated cells in bottom chamber were examined under microscope. **(D)** Media containing migrated cells were collected from bottom chamber and estimated for cell number using hemocytometer, automated cell counter and flow cytometry analysis.



Supplementary Figure 2: TILRR overexpression in HeLa cells increased the production of Pro-inflammatory cytokine/chemokine(s) with or without added IL-1β. HeLa ($5x10^5$cells/well) cells were co-transfected with either pEZ-TILRR-M68 (1.0µg/$5x10^5$ cells) or pEZ-NEG-M68 (1.0µg/$5x10^5$ cells) with PmaxGFP (0.2µg/$5x10^5$ cells) vector as explained in materials and methods section. In parallel, cells were incubated with or without the addition of IL-1β (1nM) in serum free DMEM (HeLa) media and then the cultured media were collected. Thirteen different inflammatory cytokines were measured using an in-house developed multiplex cytokine/chemokine(s) bead assay with BioPlex 200 (BIORAD). The data represent the relative level of vector+TILRR, in the presence or absence of IL-1β, compared to the empty vector control. The sample measurements below the detection limit were assigned as zero. The data represent mean of three independent experiments (mean±SEM). Statistical comparisons conducted using student t test with 95% CI, all $p<0.05$ were reported and indicated using an asterisks' ***$p<0.001$, and ****$p<0.0001$. Legends on the upper right corner show the experimental conditions. The data were adapted from Kashem et al. (5) under the license CC BY 4.0.

Supplementary Table 1: Primary and secondary antibodies used in Bio-Plex Multiplex cytokines/chemokines bead assay

Primary antibody (Uncoupled)			
SL	**Name**	**Catalog#**	**Vendor**
1	Human IL-1beta/ IL-1F2 Antibody	MAB601-500	R&D System
2	Human IL-6 MAb	M620	ThermoFisher Scientific
3	Rat Anti-Human IL-10-UNLB	10100-01	SouthernBiotech
4	Human/Primate IL-17/IL-17A Antibody	MAB317-500	R&D System
5	Human IP-10/ CXCL10/CRG-2 Antibody	MAB266-500	R&D System
6	Human CXCL8/IL-8 MAb	M801	ThermoFisher Scientific
7	Human CCL5/RANTES PAb	P230E	ThermoFisher Scientific
8	Rat Anti-Human GM-CSF-UNLB	10111-01	SouthernBiotech
9	Human IFNγ MAb	M700A	ThermoFisher Scientific
10	Human MCP-1/CCL2/JE Antibody	MAB679-500	R&D System
11	Human MIP-1α/CCL3Antibody	AF-270-NA	R&D System
12	Human MIP-1β/CCL4 Antibody	MAB271-100	R&D System
13	Human TNFα MAb	M303	ThermoFisher Scientific
Detection antibody (Biotinylated)			
SL	**Name**	**Catalog#**	**Vendor**
1	Human IL-1beta/IL-1F2 Biotinylated Antibody	BAF201	R&D System
2	Human IL-6 MAb, Biotin-labeled	M621B	ThermoFisher Scientific
3	Rat Anti-Human IL-10-BIOT	10110-08	SouthernBiotech
4	Human/Primate IL-17/IL-17A Biotinylated Antibody	BAF317	R&D System
5	Human IP-10/CXCL10/CRG-2 Biotinylated Antibody	BAF266	R&D System
6	Human CXCL8/IL-8 MAb, Biotin-labeled	M802B	ThermoFisher Scientific
7	Human CCL5/RANTES MAb, Biotin-labeled	M230B	ThermoFisher Scientific
8	Rat Anti-Human GM-CSF-BIOT	10112-08	SouthernBiotech
9	Human IFNγ MAb, Biotin-labeled	M701B	ThermoFisher Scientific
10	Human MCP-1/CCL2/JE Biotinylated Antibody	BAF279	R&D System
11	Human MIP-1α/CCL3 Biotinylated Antibody	BAF270	R&D System
12	Human MIP-1β/CCL4 Biotinylated Antibody	BAF271	R&D System
13	Human TNFα MAb, Biotin-labeled	M302B	ThermoFisher Scientific

Reference

1. Kashem MA, Li H, Toledo NP, Omange RW, Liang B, Liu LR, et al. Toll-like Interleukin 1 Receptor Regulator Is an Important Modulator of Inflammation Responsive Genes. Frontiers in Immunology. 2019;10(272):1-16. DOI: 10.3389/fimmu.2019.00272.