

Supplementary Materials

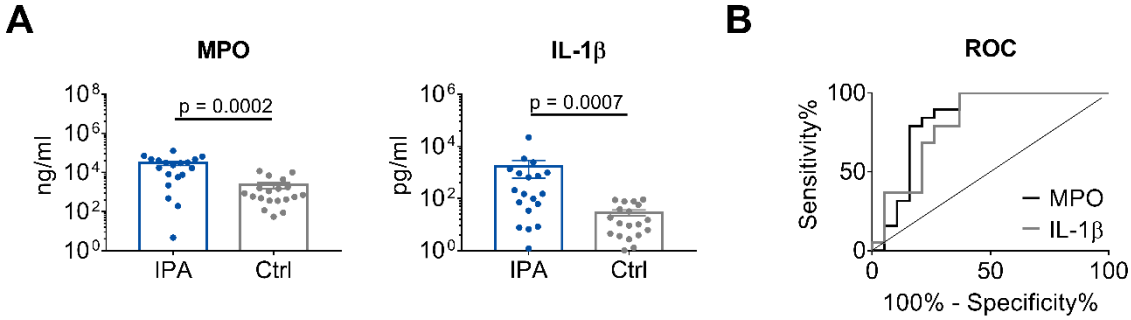


Figure S1. Distinction of IPA and Ctrl patients by MPO and IL-1β. **(A)** Levels of MPO and IL-1β in the BALF of 19 patients with IPA compared with 19 age- and sex-matched Ctrl patients. Data are presented as mean ± SEM. *P*-values were determined by Mann-Whitney *U* test. **(B)** Area under the curve (AUC) as determined by ROC curve analysis for MPO and IL-1β values depicted in (A) for IPA and Ctrl patients.

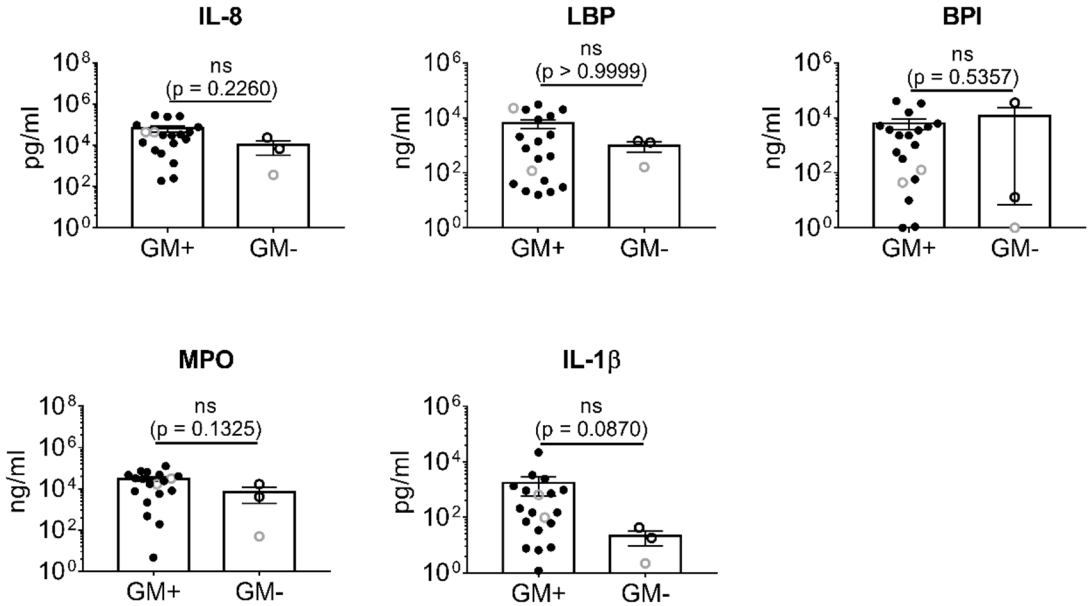


Figure S2. Comparison of IL-8, LBP, BPI, MPO and IL-1β. Comparison of included patients (GM positive in serum and BALF, GM+), and patients not meeting inclusion criteria because serum GM was beneath the cut-off, despite typical radiological findings (GM positive in serum, but negative in BALF, GM-). Patients with Mucorales co-infection are marked in grey, non-filled symbols. Data are presented as mean ± SEM. Mann-Whitney *U* test was used for the statistical analysis, non-significant (ns) results are marked.

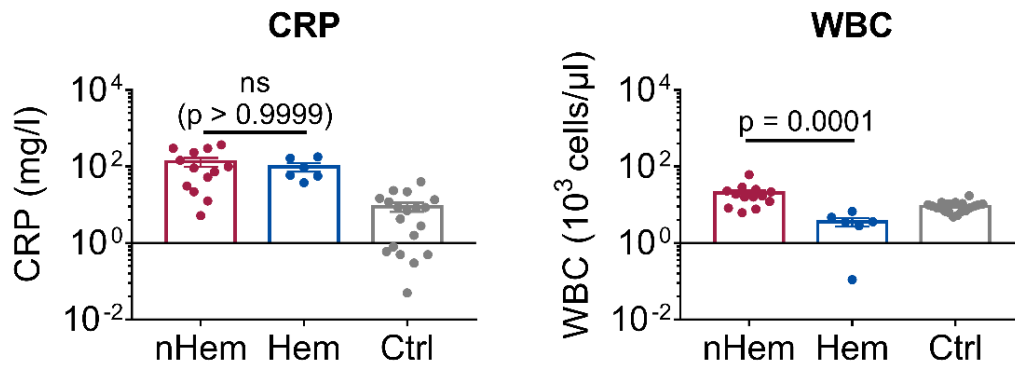


Figure S3. Comparison of tested biomarkers in the subgroup of nHem and Hem patients. CRP in serum and WBC are compared between nHem ($n = 13$), Hem ($n = 6$) and Ctrl group ($n = 19$). Data are presented as mean \pm SEM and p -values were determined by Mann-Whitney U test, non-significant (ns) results are marked.

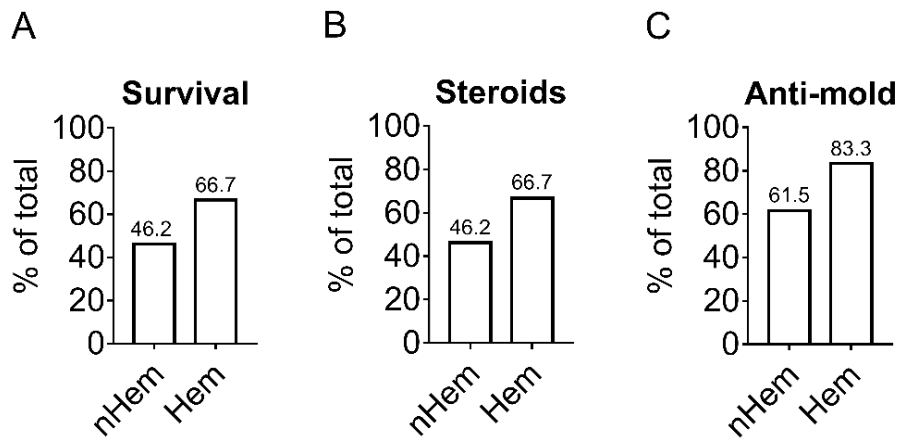


Figure S4. Comparison of clinical parameters in the subgroup of nHem and Hem patients. Survival (A), use of systemic steroids at the time point when BALF was obtained (B) and anti-mold therapy for more than 2 days prior to the performance of the bronchoalveolar lavage (C) are depicted.

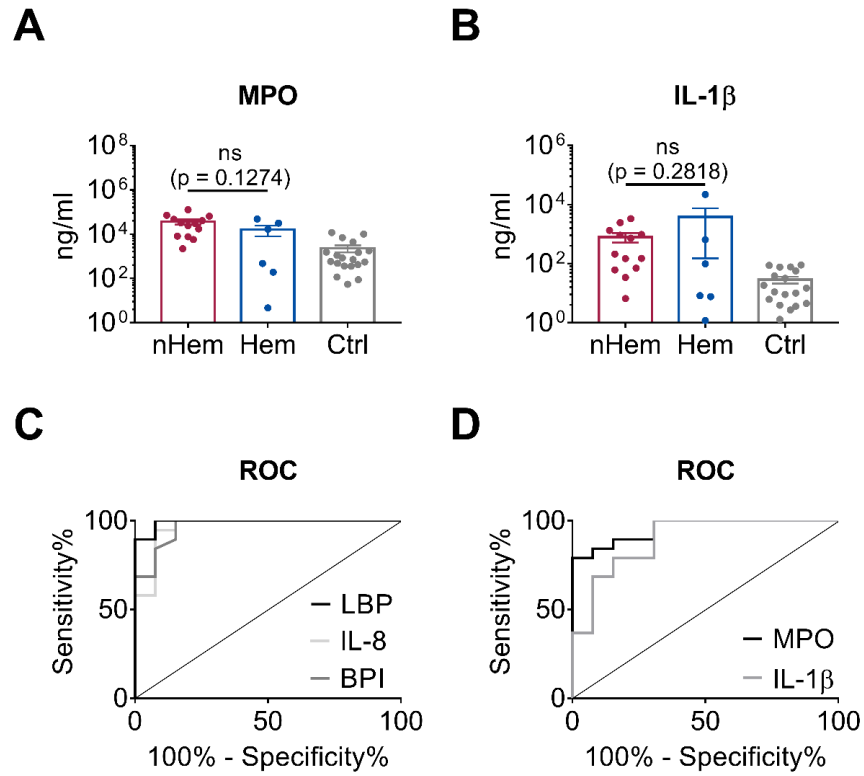


Figure S5. Discrimination between nHem and Hem patients with IPA and Ctrl patients regarding MPO and IL-1 β . (A, B) Comparison of MPO and IL-1 β levels in the BALF of nHem ($n = 13$) and Hem patients with IPA ($n = 6$) as opposed to the Ctrl patients ($n = 19$). Data are presented as mean \pm SEM. Mann-Whitney U test was used for the statistical analysis, non-significant (ns) results are marked. (C, D) ROC for IL-8, LBP, BPI as well as MPO and IL-1 β in BALF for nHem versus Ctrl patients.

Table S1. Characteristics of control patients.

Patient Characteristics		
Sex	Female	5 (26.3%)
	Male	14 (73.7%)
Age (in years)	Median (Range)	57 (28–81)
Idiopathic interstitial pneumonia	Total	7 (36.8%)
	Usual interstitial pneumonia	3 (15.8%)
	Non-specific interstitial pneumonia	2 (10.5%)
	Desquamative interstitial pneumonia	1 (5.3%)
	Cryptogenic organizing pneumonia	1 (5.3%)
Hypersensitivity pneumonitis		6 (31.6%)
Sarcoid		3 (15.8%)
ILD unclassified		3 (15.8%)
Mortality		none
Systemic treatment with corticosteroids		8 (42.1%)
Mold-active antifungal prophylaxis/treatment (≥ 2 days before sampling)		none
Laboratory Results		
GM in serum	Mean \pm SD	not analyzed
GM in BALF	Mean \pm SD	0.2 \pm 0.1
WBC (1000/ μ L)	Mean \pm SD	9.1 \pm 2.8
CRP (mg/L)	Mean \pm SD	8.9 \pm 10.2
Relevant bacterial pathogens in BALF	PCR and/or culture	none