

Special Issue on
Neutrophil Recruitment and Trafficking

CALL FOR PAPERS

Neutrophil (PMN) emigration into injured/infected tissue is a critical step in the physiologic innate immune response to maintain homeostasis as well as a pathologic response that can be detrimental to the host. Injured cells release DAMPs, while infected tissues release PAMPs, molecules that interact with pattern recognition receptors (PRRs) on resident immune cells (e.g., macrophages/mast cells) and stromal cells (e.g., epithelium/endothelium). Activation of PRRs on these cells prompts them to generate chemokines/cytokines and establish chemotactic gradients which guide PMN extravasation and migration to the affected sites. PMN trafficking is modulated by platelets and even cells of the adaptive immune system, such as T cells. Excessive PMN trafficking can lead to chronic inflammatory conditions and contribute to tumor progression.

We invite investigators to contribute original articles as well as review articles that seek to address various aspects of neutrophil recruitment/trafficking in both physiologic and pathophysiologic conditions.

Potential topics include but are not limited to the following:

- ▶ Mechanisms involved in PMN transendothelial and transepithelial migration (e.g., MMPs)
- ▶ Reverse PMN transendothelial migration
- ▶ Role of accessory cells in PMN trafficking (e.g., epithelial, endothelial, pericytes, and platelets)
- ▶ Role of adaptive immune cells in PMN recruitment (e.g., T and B cells)
- ▶ Role of PMN in shaping T cell response
- ▶ Differences in immature and senescent PMN recruitment
- ▶ Regulation of acute and chronic inflammation by NETs
- ▶ Tumor-related PMN trafficking (e.g., premetastatic niche, TANs)

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jir/rectra/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Peter Kvietys, Alfaisal University,
Riyadh, Saudi Arabia
pkvietys@alfaisal.edu

Guest Editors

Elzbieta Kolaczowska, Jagiellonian
University, Krakow, Poland
ela.kolaczowska@uj.edu.pl

Tao Rui, Western University, London,
Canada
trui@uwo.ca

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