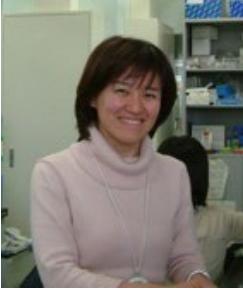


## 免疫学（小田 ちぐさ）

### Immunology (Nakahashi-Oda Chigusa)



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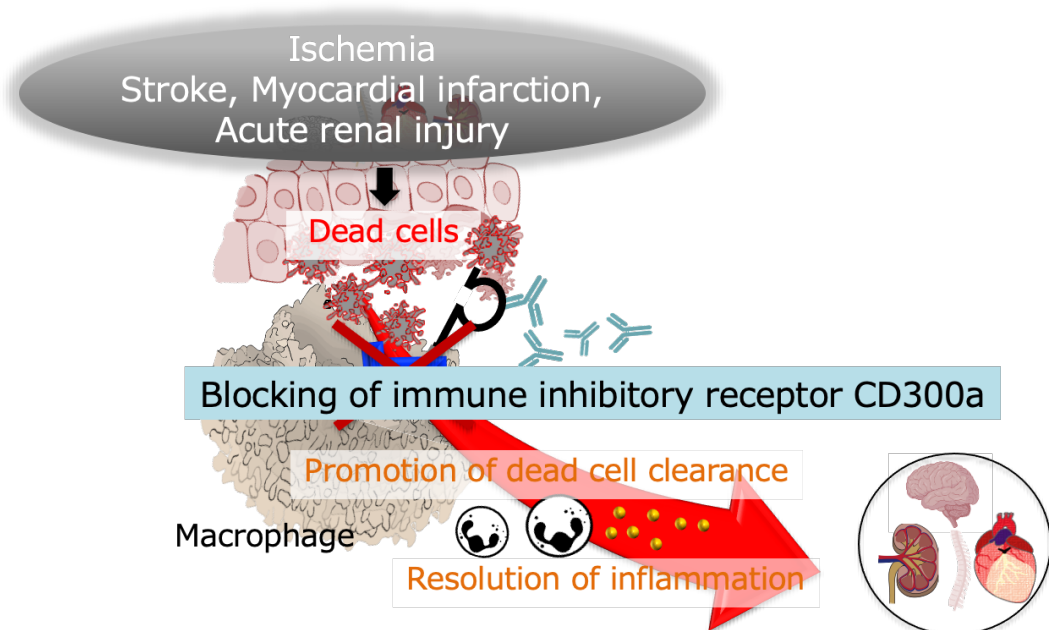
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#### 免疫細胞制御から迫る：多様な疾患の新たな病態解明と治療基盤の創出

免疫システムは、マクロファージや好中球、Tリンパ球やBリンパ球など、多様な免疫細胞が活性化と抑制のバランスを保つことで、生体の恒常性維持や疾患制御に寄与しています。私たちは、これら免疫細胞上に発現する活性化・抑制性免疫受容体の機能解析を通じて、がん、アレルギー、自己免疫疾患、炎症性腸疾患、虚血などの様々な疾患における、免疫細胞を介した病態制御機構を明らかにするとともに、新たな治療戦略の基盤構築を目指しています。

#### Approaching via Immune Cell Regulation: Uncovering Novel Pathological Mechanisms and Creating Therapeutic Foundations for Diverse Diseases

The immune system contributes to maintaining homeostasis and controlling diseases by balancing activation and inhibition in diverse immune cells, including macrophages, neutrophils, T lymphocytes, and B lymphocytes. Through functional analysis of activating and inhibitory immune receptors expressed on these immune cells, we aim to elucidate the immune-cell-mediated mechanisms regulating various diseases—such as cancer, allergies, autoimmune diseases, inflammatory bowel disease, and ischemia—while striving to establish foundations for novel therapeutic strategies.



**As an example of our research:** Restored organ function  
Blocking the inhibitory receptor CD300a promotes the clearance of dead cells, thereby mitigating tissue dysfunction following ischemia induced acute organ injury.