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The values of quality practices

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Quality assurance personnel are trained and chartered to partner with companies and/or institutions to instill quality, maintain process and requirements compliance thru in-house quality audits, evaluations and provide quality oversight. Quality is a practice to exam processes to ensure conformance to required standards and contract requirements and to show the values of quality practices. For creating a community to working together and establish an inspired future customers are important. Quality values drive the growth of people and businesses through personal and professional development focused on disciplined execution and quality. Companies and/or institutions must maintain historical records (electronic or paper) such that they accurately reflect the activities and status they represent. Records are required by quality assurance to audit and provide effective evaluation to ensure contract, and company requirements are retained by quality records.

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Inflammatory role of nucleotide P2Y2 receptor: Vascular hyperpermeability

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Extracellular nucleotides and their cell surface receptors have emerged as key players in inflammation. Hyperpermeability is a hallmark of inflammation and leads to vascular leak resulting in pulmonary edema that often occurs in the intensive care unit (ICU). To date, there is no specific pharmaceutical treatment for edema by a strategy of anti-vascular leakage except expulsion of excess fluid in the form of urine by diuretic drugs. Recently emerging evidence demonstrates nucleotide P2Y2 receptors play important roles in vascular inflammation, including arterial neointimal hyperplasia, increased vascular cell adhesion molecule-1 expression. My *in vivo* studies revealed that nucleotide P2Y2 receptor activation induced transient 5-fold increase in venular permeability to albumin (Ps) from baseline in wild type (WT) mice, but not in P2Y2 R knockout (P2Y2 R KO) mice. The P2Y2 R signaling-dependent hyperpermeability was mediated by focal adhesion kinase (FAK). Activation P2Y2 R induced phosphorylation of FAK at tyrosine-397 in origin-matched primary cultured murine microvascular endothelial cells. VE-cadherin, a key molecule of the adherens junction present at endothelial cell-cell junctions, increased activity in response to P2Y2 R agonist, UTP, implicating the paracellular pathway contributing to hyperpermeability. Taken together, the findings support nucleotide P2Y2 R play important role in microvascular leak.

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