**Publikationen und wissenschaftliche Schwerpunkte**

**Prof. Dr. Bernhard Rauch**

**Wissenschaftliche Schwerpunkte**

1. Post-koagulatorische Wirkungen des Gerinnungssystems: Thrombin, Faktor-Xa, Funktion und Signaltransduktion der beteiligten Protease-aktivierte Rezeptoren mit den Schwerpunkten vaskuläre Biologie und Funktion von Blutplättchen, Entzündung, Herz-Kreislauf, Onkologie.

2. Signallipide (Sphingolipide, Sphingosin-1-Phosphat (S1P) und Prostaglandine) und ihre Rezeptoren: Bedeutung für die Kontrolle von Zellfunktionen (Schwerpunkte vaskuläre Biologie, Onkologie, Gewebedegeneration und -regeneration), als Biomarker und als neue therapeutische Zielstrukturen.

3. Modifikation von Gerinnungsfaktoren, Plättchenfunktion, Signallipiden und ihrer Rezeptoren im experimentellen und translationalen Ansatz: Durchführung klinischer Beobachtungsstudien in Kooperation mit verschiedenen Instituten und Kliniken.

**Publikationen**

**Originalarbeiten**

1. **Rauch BH**, Weber A-A, Braun M, Zimmermann N, Schrör K. PDGF-induced Akt phosphorylation does not activate NF-κB in human vascular smooth muscle cells and fibroblasts. ***FEBS lett***. 2000: 481: 3-7. (IF 2000: 3,440)

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**Review-Artikel mit Peer Review Verfahren**

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**Weitere Publikationen (Zeitschriften, Buchbeiträge)**

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