

Summer Term 2024  
Lecture Announcement

## Stem Cell Physiology - Biochemistry of Membrane Receptors and Cell Signaling

**Start: 12.04.2024**  
**Time: Fridays 10:15 – 12:00**  
**Location: NC6/99**

The lecture is divided into 13 topics that will be addressed on a weekly basis by Prof. Günther-Pomorski, Prof. Brand-Saberi and Dr. Neumann. Each teacher will provide online material for self-studying at home. The lectures will be provided as follows:

Lecture #1	12.04.: Principles of cellular signaling	Günther-Pomorski
Lecture #2	19.04.: G-protein coupled receptors	Günther-Pomorski
Lecture #3	26.04.: Receptor tyrosine kinases	Günther-Pomorski
Lecture #4	03.05.: Phospholipase pathways	Günther-Pomorski
	10.05. Self Study	
Lecture #5	17.05.: Toll Like Rezeptors	Günther-Pomorski
	24.05. Pentecost break	
Lecture #6	31.05.: Cell signalling in development and disease	Brand-Saberi
Lecture #7	07.06.: TGF-beta pathway	Brand-Saberi
Lecture #8	14.06.: "BMP-pathway	Brand-Saberi
Lecture #9	21.06.: Shh-pathway	Brand-Saberi
Lecture #10	28.06.: "Wnt-pathway	Brand-Saberi
Lecture #11	05.07.: Autophagy"	Brand-Saberi
Lecture #12	12.07.: Ras/Raf Pathway	Neumann
Lecture #13	19.07.: Cytokine receptors	Neumann