Keynote speakers at the cell signaling meeting in Luxembourg have provided chapters on hypoxia signal transduction, phosphoserine/threonine-binding domains, targeting of polycomb repressive complexes, conserved signaling mechanisms in innate immunity, and signal transduction by stress-activated MAP kinases. Other topics included among these reports on recent research are receptor signaling, protein kinase cascades as therapeutic targets, cell death in cancer, inflammation-specific signaling, cell signaling pathways leading to regulated chromatin modifications, and transcriptional control.

The chapters have been published in four volumes (Part A to D), offering a comprehensive overview about this exciting topic.

This fourth volume focuses on inflammatory signaling pathways and the role of signaling pathways in neuropathological conditions including depression, schizophrenia, Alzheimer's disease, and other senile dementias.

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