

# Advanced Imaging Approaches to Reveal Molecular Mechanisms Governing Neuroendocrine Secretion

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## Keywords

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## Abstract

Identification of the molecular mechanisms governing neuroendocrine secretion and resulting intercellular communication is one of the great challenges of cell biology to better understand organism physiology and neurosecretion disruption-related pathologies such as hypertension, neurodegenerative, or metabolic diseases. To visualize molecule distribution and dynamics at the nanoscale, many imaging approaches have been developed and are still emerging. In this review, we provide an overview of the pioneering studies using transmission electron microscopy, atomic force microscopy, total internal reflection microscopy, and super-resolution microscopy in neuroendocrine cells to visualize molecular mechanisms driving neurosecretion processes, including exocytosis and associated fusion pores, endocytosis and associated recycling vesicles, and protein-protein or

protein-lipid interactions. Furthermore, the potential and the challenges of these different advanced imaging approaches for application in the study of neuroendocrine cell biology are discussed, aiming to guide researchers to select the best approach for their specific purpose around the crucial but not yet fully understood neurosecretion process.

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## Introduction

Neuroendocrine secretion involves a succession of intracellular compartments, i.e., endoplasmic reticulum, Golgi apparatus and secretory granules, structures, and molecules [1], whose distribution and dynamics analysis require efficient resolutive imaging techniques. In neuroendocrine cells, secretory granules ensure the release of neurohormones/neuropeptides and neurotransmitters upon stimulation. These vesicular organelles, with a diameter ranging between 60 and 300 nm in their mature state depending on the neuroendocrine cell type [2], are generated by budding from the *trans*-Golgi membrane and convey their content to the cell periphery through a

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