Ion channel proteins are of major importance for the human physiology and thus highly attractive molecular drug targets. Large-scale ion channel screening of wanted and unwanted drug effects is required, but has been limited by the lack of adequate screening technology, because available methods put a trade-off between high-throughput and high-information content.

The advent of automated patch clamp platforms has revolutionized ion channel screening, enabling investigations from a more functional perspective at a much higher throughput. The current status of automated patch clamp platforms, their strengths and drawbacks as well as future developments are reviewed.
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