## Diagnostic and therapeutic advances in neuroendocrine tumours

Neuroendocrine neoplasms are derived from the diffuse endocrine system and represent a spectrum of tumours with a diverse range of molecular abnormalities, functionality and anatomical locations. Here, some key advances in molecular diagnosis, functional imaging and therapeutic strategies that have been published in 2020 are discussed.

## Key advances

- The NETest could serve as a valid biomarker in diagnosis, follow up and monitoring response to treatment of neuroendocrine neoplasms (NENs)2.3.
- The 68Ga somatostatin analogue PET-CT has a higher diagnostic accuracy for well-differentiated grade I and II NENs than 18F-fluorodeoxyglucose PET-CT4.
- Peptide receptor radionuclide therapy with 177Lu DOTA-TATE has improved outcomes for patients with 68Ga-DOTA-somatostatin receptor-positive advanced well-differentiated NENs<u>5</u>.
- Findings from immunotherapy trials for patients with NENs have been somewhat disappointing in patients with low-grade NENs. However, analysis of immune-related genes in pancreatic NENs suggests that patients might be stratified by molecular subtypes and immune-related gene expression 9.
- Surgery with a radical intent could be a valid option for patients with grade III gastroenteropancreatic-NETs with  $Ki67 < 55\%\underline{10}$ .
- https://www.nature.com/articles/s41574-020-00458-x