

Prof. Dr. Peter ten Dijke



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SAB Member

Peter ten Dijke received his Ph.D. degree in 1991 from Wageningen University, The Netherlands based on his research on the identification of the third isoform of TGF- β performed at Oncogene Science, Inc., New York, USA. He did his postgraduate studies with Kohei Miyazono and Carl-Henrik Heldin at the Ludwig Institute for Cancer Research (LICR), Uppsala, Sweden. In 1994, he became group leader at LICR and in 1999 he moved to the Netherlands Cancer Institute, Amsterdam, The Netherlands. In 2005 he moved to the Leiden University Medical Center, Leiden, The Netherlands, and is currently a professor of molecular cell biology at Leiden University. His laboratory studies how subverted TGF family signaling is involved in cancer, vascular and bone diseases.

His research is focused on unraveling the mechanisms by which transforming growth factor- β (TGF- β) family members elicit their multifunctional cellular effects and how perturbation in their signal transduction pathways contribute to human diseases. Previous research from his group and other laboratories have now firmly established the intracellular signaling cascade of TGF- β via serine/threonine kinase receptors and SMAD transcriptional effectors. However, how this pathway is (mis)regulated in cancer and other diseases, remains not well understood. New research lines have been developed at the interface of biology and chemistry that are different from contemporary methods, with the aim to redirect signaling responses with synthetic molecules for therapeutic gain.

Publications

2026-06-10	Transient suppression of the ECM1 gatekeeper is essential for HGF/c-MET-driven liver regeneration
2025-07-17	ECM1 expression in chronic liver disease: Regulation by EGF/STAT1 and IFNgamma/NRF2 signalling. <i>JHEP Rep</i>
2025-02-06	ECM1 attenuates hepatic fibrosis by interfering with mediators of latent TGF-beta1 activation. <i>Gut</i>
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2023-12-12	Extracellular Matrix Protein 1 Attenuates Hepatic Fibrosis by Inhibiting TSP-, ADAMTS-, and MMP-Mediated Latent TGF-β1 Activation
2021-12-14	Follistatin-controlled activin-HNF4α-coagulation factor axis in liver progenitor cells determines outcome of acute liver failure <i>Hepatology</i>
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