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(54) **Delivery of trefoil peptides**

Bereitstellung von Peptiden mit Kleeblattstruktur

Distribution de peptides en trèfle

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(56) References cited:  
**WO-A-00/23471 WO-A-92/14837**  
**WO-A-97/09437 WO-A-97/14806**  
**WO-A-97/38712**

- **X.-D. TAN ET AL.:** "Characterization of a putative receptor for intestinal trefoil factor in rat small intestine: Identification by in situ binding and ligand blotting" **BIOCHEM. AND BIOPHYS. RES. COMMUNICATIONS**, vol. 237, 1997, pages 673-677, XP002125424 **ACADEMIC PRESS, NEW YORK, US**
- **W.M. WONG ET AL.:** "Trefoil peptides" **GUT**, vol. 44, no. 6, June 1999 (1999-06), pages 890-895, XP000857616 **INT. J. OF GASTROENTEROLOGY AND HEPATOLOGY, LONDON, UK**
- **O. LEFEBVRE:** "The mouse one P-domain (pS2) and two P-domain (mSP) genes exhibit distinct patterns of expression" **J. CELL BIOL.**, vol. 122, no. 1, July 1993 (1993-07), pages 191-198, XP000857706 **ROCKEFELLER UNIVERSITY PRESS, NY, US;**

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