From chat bot  
Here is a list of well-known **TCR transgenic mouse strains**, along with references to key publications where they were first described:**1. OT-I and OT-II Mice**

* **Description**:
  + OT-I mice express a transgenic TCR specific for an ovalbumin (OVA) peptide (OVA257–264, SIINFEKL) presented on H-2Kb (MHC Class I), restricted to CD8+ T cells.
  + OT-II mice express a transgenic TCR specific for an OVA peptide (OVA323–339) presented on I-Ab (MHC Class II), restricted to CD4+ T cells.
* **First Described**:
  + OT-I: Hogquist, K.A., et al. *Cell*, 1994.
  + OT-II: Barnden, M.J., et al. *Immunology and Cell Biology*, 1998.

**2. P14 Mice**

* **Description**: Transgenic TCR specific for the lymphocytic choriomeningitis virus (LCMV) glycoprotein epitope (gp33–41) presented on H-2Db, CD8+ T cell-restricted.
* **First Described**: Pircher, H., et al. *Nature*, 1989.

**3. 2C TCR Transgenic Mice**

* **Description**: Express a TCR specific for a peptide from Ld (a murine MHC molecule) presented on H-2Kb. Often used as a model of alloreactive T cell responses.
* **First Described**: Sha, W.C., et al. *Nature*, 1988.

**4. DO11.10 Mice**

* **Description**: Express a transgenic TCR specific for an OVA peptide (OVA323–339) presented on I-Ad, restricted to CD4+ T cells.
* **First Described**: Murphy, K.M., et al. *Science*, 1990.

**5. Marilyn TCR Transgenic Mice**

* **Description**: CD4+ T cells express a TCR specific for a male-specific antigen (H-Y peptide) presented on H-2Ab. Used in tolerance and autoimmunity studies.
* **First Described**: Savill, J., et al. *Immunity*, 2001.

**6. HY TCR Transgenic Mice**

* **Description**: CD8+ T cells express a TCR specific for the male H-Y antigen presented on H-2Db.
* **First Described**: Teh, H.S., et al. *Cell*, 1988.

**7. SMARTA Mice**

* **Description**: Express a transgenic TCR specific for the LCMV glycoprotein epitope (gp61–80) presented on I-Ab, CD4+ T cell-restricted.
* **First Described**: Oxenius, A., et al. *Journal of Immunology*, 1998.

**8. AND Mice**

* **Description**: Express a TCR specific for a cytochrome c peptide (88–104) presented on I-Ek, restricted to CD4+ T cells.
* **First Described**: Kaye, J., et al. *Nature*, 1989.

**9. TRP1 (Tyrosinase-Related Protein 1) TCR Mice**

* **Description**: Express a TCR specific for a melanoma antigen (TRP1 peptide) presented on I-Ab, used in tumor immunity studies.
* **First Described**: Muranski, P., et al. *Journal of Clinical Investigation*, 2008.

**10. TCR Transgenic Mice Specific for Myelin Basic Protein (MBP)**

* **Description**:
  + MBP-specific TCR transgenic mice, such as the ones used in experimental autoimmune encephalomyelitis (EAE) models, recognize MBP peptides presented on I-A molecules.
* **First Described**: Goverman, J., et al. *Cell*, 1993.

**11. 3A9 TCR Mice**

* **Description**: Specific for a hen egg lysozyme (HEL) peptide (46–61) presented on I-Ak, restricted to CD4+ T cells.
* **First Described**: Hartley, S.B., et al. *Immunity*, 1991.

These mouse models have been widely used in immunological research to study T cell activation, tolerance, autoimmunity, and antigen-specific immune responses.  
For more detailed information on these strains, I recommend checking resources like the **Jackson Laboratory** or searching for the cited papers in databases like PubMed

To find scientific papers that analyze **CD4 and CD8 expression** using **retrogenic T-cell clones** in thymocytes and peripheral T cells, here’s a structured approach with suggested **keywords** and **key phrases** for searches:**Key Search Terms**

1. **General Methodology**:
   * "retrogenic T-cell clones thymocyte analysis CD4 CD8"
   * "T-cell retrogenic models CD4 CD8 thymus peripheral differentiation"
   * "retrogenic mice T-cell development CD4/CD8 expression"
   * "retrogenic TCR clones CD4/CD8 selection thymus"
2. **Specific Focus on Retrogenics**:
   * "TCR retrogenic system CD4 CD8 development"
   * "retrogenic TCR analysis thymic selection peripheral T cells"
   * "CD4 CD8 expression in retrogenic T cells"
3. **Differentiation and Maturation Studies**:
   * "CD4 to CD8 lineage commitment retrogenic T cells"
   * "thymic emigration CD4 CD8 retrogenic clones"
   * "retrogenic T cells double positive CD4+CD8+"
4. **Techniques and Experimental Context**:
   * "flow cytometry retrogenic TCR CD4 CD8"
   * "antigen-specific retrogenic T cells CD4 CD8 selection"
5. **Model Organisms**:
   * "retrogenic mouse models CD4 CD8 T-cell clones"
   * "murine retrogenic T-cell clones thymus CD4/CD8"

**Search in Specific Databases**

1. **PubMed**:
   * Use combinations of the terms above with Boolean operators (e.g., "retrogenic T-cell" AND "CD4/CD8" or "thymus OR peripheral") to find relevant articles.
2. **Google Scholar**:
   * Key phrases like "retrogenic TCR system CD4 CD8 differentiation" often lead to comprehensive papers.
3. **Specialized Journals**:
   * Explore immunology-focused journals such as *The Journal of Immunology*, *Nature Immunology*, *Frontiers in Immunology*, and *Immunity*.
4. **Academic Tools**:
   * Use search filters for experimental studies, mouse models, or specific T-cell assays in tools like **Web of Science** or **Scopus**.

**Optimizing Search Results**

* Include **synonyms** or alternate terms, like "T-cell receptor transgenic clones" or "antigen-specific T-cell development".
* Add **filter keywords** such as "flow cytometry", "IL-4", "maturation", or "positive/negative selection" to refine the context.
* Search for **review articles** for a summary and citations of primary studies.

**Example Search Queries**

* "Retrogenic TCR clones CD4/CD8 differentiation thymus AND peripheral T cells"
* "CD4/CD8 T-cell selection retrogenic clones flow cytometry thymocytes"
* "Retrogenic T-cell model antigen-specific CD4 CD8 expression analysis”