PepMix™ Peptide Pools

PepMixes™ are antigen spanning-peptide pools for stimulation of T-cells.

Cancer

> ### Immune Checkpoints
- hPD-1, PD-L1, CTLA4

> ### Breast Cancer
- Mammaglobin, Mucin, Erbb2, CEA, Claudin, PSMA, HMMR and more

> ### Prostate Cancer
- STEAP1, PAP, PSA, Myc, , PSMA and more

> ### Melanoma
- MAGE A1, A3, A4 & D4, Melan A, Tyrosinase, TRP2, , PSMA and more

> ### Papillomavirus
- Proteins, E6, E7 & L1

> ### Vaccinia Virus
- Host range protein 2
- MVA 074R , MVA093L (p53)
- Major core protein and more

> ### Miscellaneous
- hTERT, Cyclin B1, Kir 4.1, NY-ESO1, PLAC1, p53, ACTL8, KKLC1, Matrilysin, TYMS & many more

> ### PepMix™ Collections
- Breast Cancer, Prostate Cancer, Melanoma, HPV

Positive Controls
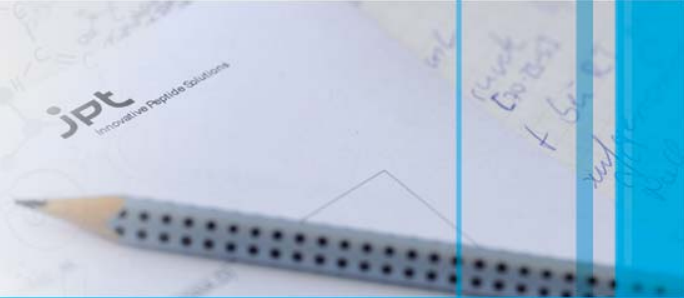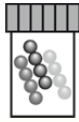
- **NEW: CEFX / EFX SuperStim Ultra Pools**
- CEF Pools (standard, ext.)
- CEFT, CEFT MHCII, EF Pools
- Various HCMV (pp65 etc.)

Infections

> ### Adenovirus
- VP1, Hexon & penton protein

> ### BKV
- VP1, VP2, VP2, Large & small T antigen

> ### EBV
- Barf-1, BMLF1, BZLF1, EBNA, LMP1, LMP2 and many more

> ### HBV & HCV

> ### HCMV
- IE1, IE2, pp65 and many more

> ### HIV
- Ultra Pools for gag, nef, env with highest clade coverage!

> ### HPV
- Proteins E6, E7, L1 & L2 for many HPV types & more proteins

> ### Influenza
- Hemagglutinin, Matrix proteins

> ### M. Tuberculosis
- ACR, Ag85B, CFP, ESAT and more

> ### ZIKA Virus
- C, E, M, NS1

> ### Miscellaneous
- HEV, RSV, VZV, Yellow fever, Candida, HHV, HHV2, Zaire Ebola

> ### PepMix™ Collections
- EBV, HCMV, HPV

Negative Controls

- Actin (human)
- Hla class I Ig-like C1 type (human)
- **NEW: S. pyrogenes (CAS9)**

PepMix™ Peptide Pools

Recent Publications

Cancer

Natural T Cell Autoreactivity to Melanoma Antigens: Clonally Expanded Melanoma-Antigen Specific CD8 + Memory T Cells Can be Detected in Healthy Humans
Anna Przybyla et al., Cancer Immunology, Immunotherapy (2019) - PMID: 30783693

The Human CD4 T Cell Response Against Mumps virus Targets a Broadly Recognized Nucleoprotein Epitope
Jelle de Wit et al., Journal of Virology (2019) - PMID: 30626672

Vaccine-Induced Memory CD8+ T Cells Provide Clinical Benefit in HER2 Expressing Breast Cancer: a Mouse to Human Translational Study
Erika J Crosby et al., Clinical Cancer Research (2019) – PMID: 30635338

A Novel Aallogeneic Off-The-Shelf Dendritic Cell Vaccine for Post-Remission Treatment of Elderly Patients With Acute Myeloid Leukemia
Loosdrecht et al., Cancer Immunol Immunother. (2018) - PMID: 30039426

Control

Identification and HLA-Tetramer-Validation of Human [CD4.sup.+] and [CD8.sup.+] T Cell Responses Against HCMV Proteins IE1 and IE2
Peter Braendstrup et al., PLoS ONE (2019) – PMID: 24760079

Qualification of an IFN-g Elispot Assay in the Bioanalytical Laborator
W. Adamowicz et al., Poster#W1130-04-02 (2019) – PMID: n.a.

CNS Antigen-Specific B Cell and Antibody Assays in Multiple Sclerosis
Kuerten et al., United States Patent Application 20190072551 (2019) – PMID: n.a.

Replication Deficient Human Adenovirus vector Serotype 19a/64: Immunogenicity in Mice and Female Cynomolgus Macaques
Ragonnaud Eet al., Vaccine (2018) – PMID: 30190120

Establishment and Operation of a Third Party Virus-Specific T-Cell Bank Within an Allogeneic Stem Cell Transplant Program
Withers Bet al., Biology of Blood and Marrow Transplantation (2018) – PMID: 30172015

Infections

A Novel Simplified Method of Generating Cytomegalovirus-Specific Cytokine-Induced Killer Cells of High Specificity and Superior Potency with GMP Compliance
Yen Hoon Luah et al, Clinical Immunology (2019) – PMID: 31229666

HBeAg Seroconversion is Associated with a More Effective PD-L1 Blockade During Chronic Hepatitis B Infection
Sara Ferrando-Martinez et al, JHEP Reports (2019) – PMID: n.a.

Generation of Zika Virus–Specific T Cells from Seropositive and Virus-Naïve Donors for Potential Use as an Autologous or "Off-the-Shelf" Immunotherapeutic
RYO Hanajiri et al, Cytotherapy (2019) – PMID: n.a.

Enhancement of Immune Responses by Guanosine-Based Particles in DNA Plasmid Formulations against Infectious Diseases
Saritza Santos et al, Journal of Immunology Research (2019) – PMID: n.a.

Penalized Supervised Star Plots: Example Application in Influenza-Specific CD4+ T Cells
Tyson H. Holmes et al, Viral Immunology (2019) – PMID: 30698511

Evaluation of EBV- and HCMV-Specific T Cell Responses in Systemic Lupus Erythematosus (SLE) Patients Using a Normalized Enzyme-Linked Immunospot (ELISPOT) Assay
Irene Cassaniti et al, Journal of Immunology Research (2019) – PMID: n.a.

CD154-Expressing CMV-Specific T Cells Associate with Freedom from DNAemia and May be Protective in Seronegative Recipients After Liver or Intestine Transplantation
Chethan Ashokkumar et al, Wiley (2019) – PMID: n.a

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Innovative Peptide Solutions