

We have included the unique, prototypic spectra from the Pandey and Kuster datasets. Found spectra fall into the categories of ambiguous short peptides, peptides with a high ratio of missed cleavages and very low quality spectra.

In pandeyOlfactory.ppt we have included 43 spectra for from Pandey dataset:

Slide 1 (top left to bottom right):

AMYTFNHNKIIISVLYTIIVPFFNPAYCLR, OR6P1
AMCAALVGMAWLVLVSHVHSLLYILLMAR, OR1K1
KKAFSTCSSHMIVVSISYSSCIFMYIK, OR6C75
SISLAGCGTQIFFYVSLLGAECFLLAVMAYDR, OR2M4
SNSLDHFYCDRGQLLK, OR9A2
TTVISHSYCEHMAIVK, OR52A5
FCGPNHIDQFYCDFMLFVGLACSDPR, OR11A1
TISYSECLTQMYFFLAGFNTDSYLLAAMAIDR, OR1L1
MMQTFLFSTFAVTECLLVVMSYDLYVAICHPLR, OR2A7

Slide 2:

TISFAGCLLQTYFFHSLGASECYLLTAMAYDR, OR6N2
FISFGGCLMQMYFMIALAKADSYTLAAMAYDR, OR1A2
ALSTCSAHFMVVALFFGPCIFIYTRPDTSFSIDK, OR4E2
VEENHTMKNEFILTGFDTDHPELK, OR5K2
NSENLTRAAVAPAEFVLLGITNRWDLR, OR5C1
KKVSFSGCMVQMFISFAMGATECMILGTMALDR, OR13C8
TSLAASVMTMVTPLNPFIYSLRNKDMK, OR7C2
SMLLVLPPFTLR, OR51A4
SPMYFFLAYLSFIDACYSSVNTPK OR4C13

Slide 3:

LISDLAERK, OR4X2
AAMFILTR, OR56A3
LLADMVK, OR2T11
MLENFFSEDR, OR5K4
MLENFFSENK, OR5K1
FVAICHPLHYAK, OR1M1
HLSPTPSEEHMK, OR4A15
AGNLHSMIHVGLLR, OR5K4
YVAICKPLHYTIIMSR, OR4P4

Slide 4:

NLSVLDCYISVTVPK, OR14I1
FVAICHPLHYTVIMNPR, OR7A17
EMPALIR, OR2W3
MANHTGKLDIFLMLGLFR, OR2T5
YCDKNVINHFFCDLPLLK, OR5I1
NNLTRVTEFILMGFMDFHPK, OR9I1
AVGIFNTVINPMLNPPIYSFR, OR3A1
MTTGAFKAGNLHSMIHVGLLR, OR5K4
LHTPMYFLLSQLSLMDMMMLVSTTVPK, OR2T33

Slide 5:

LQTPMYFFLR, OR6C1
DLQAVGGK, OR51E2
AMLSLLLTK, OR51F1
LSFCASHIIL, OR1L4
YMAICKPLHELTMR, OR4A15
SYSIYKSTVNIPLSHGVVHSFCHNMNCNFMHIFK, OR5T2
DKVAHPQR, OR10G4

Unfortunately the spectra we have included are only in low resolution as the website (<http://humanproteomemap.org/>) has been unavailable since at least the 25th of June, which means that is has been impossible to take a better quality screenshots. We will send better resolution versions as soon as the web site is available again.

In OR6J1.ppt we have include the 8 spectra from Kuster dataset referring to the *OR6J1* olfactory receptor mentioned in the paper.

MRAVLRSR
MRAVLRSSR
EYLEINK
YATICPLR
VLANLGSR
RMRAVLR
EYLEINK
NDTVQGVLRDVWVR

In KusterExtra.ppt we have included a selection of other OR-identifying spectra from the Kuster dataset. This is not an

SSAAMAK, *OR4K5*
AVFDLSSK, *OR52I1*
VFQSGQGMGIK, *OR52P1*
QIQEGVIK, *OR52N2*
EFKNALK, *OR6B3*
NTDVQGALCQLLVGKR, *OR3A3*