

**Table 2: Peptides identified from SDS-PAGE bands of antigens isolated by immunoprecipitation from VENOM samples with rabbit anti-PD-Jar serum**

Pro-domain peptides are highlighted in bold

\* According to UNIPROT; \*\* According to SEQUEST at *Proteome Discover*™ 1.3.0.339 (Thermo Scientific); ‡ According to SEQUEST.

| Band 1 of venom samples collected 7 days after stimulus for venom production (~50 kDa) |                  |         |                             |        |   |        |                      |
|----------------------------------------------------------------------------------------|------------------|---------|-----------------------------|--------|---|--------|----------------------|
| Protein                                                                                | Accession number | Score** | Identified peptides†        | XCorr‡ | z | ΔM ppm | MH <sup>+</sup> (Da) |
| Zinc metalloproteinase-disintegrin jararhagin<br>OS=Bothrops jararaca                  | P30431           | 25,3    | ASMSECDPAEHCTGQSSECPADV FHK | 4,85   | 4 | 3,15   | 2953,15              |
|                                                                                        |                  |         | <b>YENVEKEDEAPK</b>         | 2,88   | 3 | 1,91   | 1450,67              |
|                                                                                        |                  |         | SGSQCGHGDCCCEQCK            | 2,48   | 3 | 1,9    | 1769,61              |
|                                                                                        |                  |         | DNSPGQNNPCK                 | 2,83   | 2 | 2,24   | 1230,51              |
|                                                                                        |                  |         | VCSNGHCVDVATAY              | 2,44   | 2 | 3,2    | 1552,65              |
|                                                                                        |                  |         | KIPCAPEDVK                  | 2,02   | 3 | 2,71   | 1156,6               |
|                                                                                        |                  |         | MFYSNDDEHK                  | 2,36   | 3 | 1,63   | 1301,51              |
|                                                                                        |                  |         | IPCAPEDVK                   | 1,83   | 2 | 2,43   | 1028,51              |
|                                                                                        |                  |         | MFYSNDDEHKGMLPGTK           | 1,93   | 3 | 1,55   | 2100,93              |
|                                                                                        |                  |         | GMVLPGTK                    | 1,68   | 2 | 2,35   | 818,44               |
| Phospholipase A2 BnSP-7<br>OS=Bothropoides pauloensis                                  | Q9IAT9           | 21,93   | SYGAYGCNCGVLGR              | 4,1    | 2 | 1,78   | 1533,66              |
|                                                                                        |                  |         | DKTIVCGENNPCLK              | 3,21   | 3 | 1,64   | 1647,78              |
|                                                                                        |                  |         | MILQETGKNPAK                | 3,1    | 2 | 3,11   | 1345,71              |
|                                                                                        |                  |         | TIVCGENNPCLK                | 2,95   | 2 | 2,26   | 1404,66              |
|                                                                                        |                  |         | YHLKPFCK                    | 2,1    | 3 | 3,8    | 1092,57              |
|                                                                                        |                  |         | AVAICLR                     | 1,66   | 2 | 1,77   | 802,46               |
|                                                                                        |                  |         | YSYSWK                      | 1,6    | 2 | 2,09   | 833,38               |
|                                                                                        |                  |         | LTGCDPK                     | 1,61   | 2 | 0,75   | 790,37               |
|                                                                                        |                  |         | ENLGTYNK                    | 1,59   | 2 | 1,56   | 938,45               |
| MP_III2 SVMP<br>OS=Bothrops neuwiedi                                                   | E3UJL1           | 21,75   | LHPWVECSEGCCGQCR            | 6,11   | 3 | 2,73   | 2163,85              |
|                                                                                        |                  |         | SECDAIESCTGQSAQCPTDD FHK    | 4,75   | 3 | 3,27   | 2643,05              |
|                                                                                        |                  |         | QKPQCILNEPLR                | 2,8    | 3 | 3,93   | 1495,8               |
|                                                                                        |                  |         | NPCCDATTCK                  | 2,61   | 2 | 2,57   | 1226,46              |
|                                                                                        |                  |         | AGNVCRPQR                   | 1,78   | 3 | 2,5    | 1057,53              |
|                                                                                        |                  |         | TDIVSPPVCGNELLEMGEEDCGSPR   | 3,7    | 3 | 0,25   | 2937,24              |
| Batroxstatin-2<br>OS=Bothrops atrox                                                    | C5H5D3           | 19,48   | DECDMADLCTGR                | 3,79   | 2 | -5,03  | 1458,52              |
|                                                                                        |                  |         | AAKDECDMADLCTGR             | 3,49   | 3 | 2,87   | 1728,7               |
|                                                                                        |                  |         | AAKDECDMADLCTGR             | 3,25   | 3 | 2,85   | 1712,7               |
|                                                                                        |                  |         | FKGAGTECR                   | 2,22   | 2 | 2,36   | 1025,48              |
|                                                                                        |                  |         | GMVLPGTK                    | 1,68   | 2 | 2,35   | 818,44               |
|                                                                                        |                  |         | GAGTECRAAKDECDMADLCTGR      | 2,76   | 3 | -2,57  | 2459,99              |
|                                                                                        |                  |         | LVLVADYIMYLK                | 2,3    | 2 | 2,85   | 1456,81              |
| Zinc metalloproteinase-disintegrin scutiarin<br>OS=Crotalus scutulatus scutulatus      | A2CJE2           | 16,44   | ASMSECDPAEHCTGQSSECPADV FHK | 4,85   | 4 | 3,15   | 2953,15              |
|                                                                                        |                  |         | NPCCDAATCK                  | 2,76   | 2 | 2,08   | 1196,45              |
|                                                                                        |                  |         | SGSQCGHGDCCCEQCK            | 2,48   | 3 | 1,9    | 1769,61              |
|                                                                                        |                  |         | DNSPGQNNPCK                 | 2,83   | 2 | 2,24   | 1230,51              |
|                                                                                        |                  |         | IPCAPEDVK                   | 1,83   | 2 | 2,43   | 1028,51              |
|                                                                                        |                  |         | GMVLPGTK                    | 1,68   | 2 | 2,35   | 818,44               |

|                                                                            |        |       |                                                                                    |                                      |                       |                                      |                                                   |
|----------------------------------------------------------------------------|--------|-------|------------------------------------------------------------------------------------|--------------------------------------|-----------------------|--------------------------------------|---------------------------------------------------|
| Zinc metalloprotease-disintegrin halysase<br>OS=Gloydus halys              | Q8AWI5 | 12,37 | <b>YENVEKEDEAPK</b><br><b>ASQSNLTPEQQR</b><br>FKGAGTECR<br>LYCIDSSPANK<br>GMVLPGTK | 2,88<br>3,04<br>2,22<br>2,56<br>1,68 | 3<br>2<br>2<br>2<br>2 | 1,91<br>2,25<br>2,36<br>1,77<br>2,35 | 1450,67<br>1358,66<br>1025,48<br>1267,6<br>818,44 |
| Zinc metalloproteinase Bap1<br>OS=Bothrops asper                           | P83512 | 7,85  | <b>YENVEKEDEAPK</b><br><b>ASQSNLTPEQQR</b><br>YNSNLNTIR                            | 2,88<br>3,04<br>1,93                 | 3<br>2<br>2           | 1,91<br>2,25<br>1,86                 | 1450,67<br>1358,66<br>1094,56                     |
| Metalloproteinase 11<br>OS=Crotalus adamanteus                             | F8S112 | 6,87  | <b>YENVEKEDEAPK</b><br>IPCAPEDVK<br>CILNEPLR                                       | 2,88<br>1,83<br>2,16                 | 3<br>2<br>2           | 1,91<br>2,43<br>3,15                 | 1450,67<br>1028,51<br>1014,54                     |
| Metalloproteinase isoform 1<br>OS=Sistrurus catenatus edwardsii            | B0VXU4 | 6,83  | FKGAGTECR<br>VCSNGHCVDVATAY<br>GLCCDQCR                                            | 2,22<br>2,44<br>2,18                 | 2<br>2<br>2           | 2,36<br>3,2<br>2,09                  | 1025,48<br>1552,65<br>1068,4                      |
| L-amino-acid oxidase<br>OS=Bothrops moojeni                                | Q6TGQ8 | 6,03  | SAGQLYEESLQK<br>HDDIFAYEK                                                          | 3,2<br>2,83                          | 2<br>2                | 0,6<br>1,3                           | 1352,67<br>1137,52                                |
| Zinc metalloproteinase atroxlysin-1<br>OS=Bothrops atrox                   | P85420 | 5,3   | KTDLLNRK<br>TDLLNRK<br>TDLLNR                                                      | 2,08<br>1,73<br>1,49                 | 3<br>2<br>2           | 1,4<br>2,4<br>1,82                   | 987,59<br>859,5<br>731,4                          |
| Zinc metalloproteinase-disintegrin jerdonitin<br>OS=Protobothrops jerdonii | P83912 | 5,29  | <b>YENVEKEDEAPK</b><br>LTPGSQCADGLCCDQCR                                           | 2,88<br>2,4                          | 3<br>2                | 1,91<br>2,48                         | 1450,67<br>1997,79                                |
| Metalloprotease<br>OS=Gloydus halys                                        | Q9YI19 | 4,79  | <b>YENVEKEDEAPK</b><br>NPQCILNEPLR                                                 | 2,88<br>1,91                         | 3<br>2                | 1,91<br>2,69                         | 1450,67<br>1353,69                                |
| Metalloproteinase 10<br>OS=Crotalus adamanteus                             | F8S111 | 4,53  | DEDIGMVLPGTK<br>FKGAGTECR                                                          | 2,31<br>2,22                         | 2<br>2                | 0,86<br>2,36                         | 1290,62<br>1025,48                                |
| C-type lectin BiL<br>OS=Bothrops insularis                                 | Q6QX33 | 4,45  | EFCVELVSDTGYR<br>DFSWEWTDNR                                                        | 2,9<br>1,55                          | 2<br>2                | 2,81<br>3,76                         | 1574,72<br>1241,52                                |
| Zinc metalloproteinase-disintegrin BjussuMP-1<br>OS=Bothrops jararacussu   | Q1PHZ4 | 4,4   | <b>YENVEKEDEAPK</b><br>GDKYFYCR                                                    | 2,88<br>1,51                         | 3<br>2                | 1,91<br>1,89                         | 1450,67<br>1108,49                                |
| Metalloproteinase<br>OS=Echis carinatus sochureki                          | E9JG27 | 3,6   | IPCAPEDVK<br>MPQCILK                                                               | 1,83<br>1,77                         | 2<br>2                | 2,43<br>1,94                         | 1028,51<br>905,46                                 |

### Band 2 of venom samples collected 7 days after stimulus for venom production (~45 kDa)

| Protein                                                               | Accession number | Score** | Identified peptides <sup>†</sup>                                                                                                                                                                                                  | XCorr <sup>‡</sup>                                                                         | z                                                   | ΔM ppm                                                                                       | MH <sup>+</sup> (Da)                                                                                                          |
|-----------------------------------------------------------------------|------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Zinc metalloproteinase-disintegrin jararhagin<br>OS=Bothrops jararaca | P30431           | 36,06   | SGSQCGHGDCEQCK<br>IPCAPEDVK<br><b>YENVEKEDEAPK</b><br>MFYSNDDEHK<br>MFYSNDDEHKGMLVPGTK<br>MFYSNDDEHK<br>KIPCAPEDVK<br>KTDLLTR<br>ASMSECDPAEHCTGQSSECPADVPHK<br>ASMSECDPAEHCTGQSSECPADVPHK<br>MFYSNDDEHKGMLVPGTK<br>VCSNGHCVDVATAY | 3,49<br>2,56<br>2,5<br>2,82<br>2,85<br>1,96<br>1,98<br>1,78<br>6,19<br>4,92<br>2,8<br>2,23 | 3<br>2<br>3<br>2<br>3<br>2<br>2<br>3<br>3<br>3<br>2 | 2,73<br>3,03<br>1,53<br>2,13<br>2,16<br>2,66<br>0,48<br>3,89<br>2,41<br>4,29<br>3,01<br>1,23 | 1769,61<br>1028,51<br>1450,67<br>1301,51<br>2100,94<br>1285,51<br>1156,6<br>846,5<br>2937,16<br>2953,16<br>2084,94<br>1552,65 |
| Glutaminyl-peptide cyclotransferase<br>OS=Bothrops jararaca           | Q9YIB5           | 26,95   | MASTPHPPGAR<br>NLNDLGLLNYSER<br>LIFFDGEEAFVR                                                                                                                                                                                      | 2,32<br>3,47<br>3,34                                                                       | 2<br>2<br>2                                         | 3,35<br>4,13<br>3,28                                                                         | 1137,55<br>1721,85<br>1442,73                                                                                                 |

|                                                                                   |        |       |                             |      |   |       |         |
|-----------------------------------------------------------------------------------|--------|-------|-----------------------------|------|---|-------|---------|
|                                                                                   |        |       | HPVEDDHIPFLR                | 3,2  | 3 | 2,78  | 1474,74 |
|                                                                                   |        |       | VWHTMEDNEENLDKPTIDNLSK      | 2,53 | 4 | 1,1   | 2644,22 |
|                                                                                   |        |       | YPGSPGSYAVR                 | 2,37 | 2 | 1,56  | 1153,56 |
|                                                                                   |        |       | WSPSDSLYGSR                 | 2,05 | 2 | 1,86  | 1254,57 |
|                                                                                   |        |       | HLVIACHYDSK                 | 2,01 | 3 | 2,72  | 1342,66 |
|                                                                                   |        |       | LEAIER                      | 1,98 | 2 | 2,74  | 730,41  |
|                                                                                   |        |       | MWQNDLHPILIER               | 1,89 | 3 | 2,06  | 1680,85 |
|                                                                                   |        |       | RHPVEDDHIPFLR               | 1,79 | 4 | 1,39  | 1630,84 |
| Zinc metalloproteinase-disintegrin VAP2A<br>OS=Crotalus atrox                     | A4PBQ9 | 25,61 | SGSQCGHGDCEQCK              | 3,49 | 3 | 2,73  | 1769,61 |
|                                                                                   |        |       | IPCAPEDVK                   | 2,56 | 2 | 3,03  | 1028,51 |
|                                                                                   |        |       | <b>YENVEKEDEAPK</b>         | 2,5  | 3 | 1,53  | 1450,67 |
|                                                                                   |        |       | MFYSNEDEHK                  | 1,94 | 2 | 2,46  | 1315,52 |
|                                                                                   |        |       | KTDLLTR                     | 1,78 | 2 | 3,89  | 846,5   |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 6,19 | 3 | 2,41  | 2937,16 |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 4,92 | 3 | 4,29  | 2953,16 |
|                                                                                   |        |       | VCSNGHCVDVATAY              | 2,23 | 2 | 1,23  | 1552,65 |
| Zinc metalloproteinase-disintegrin scutiarin<br>OS=Crotalus scutulatus scutulatus | A2CJE2 | 21,94 | SGSQCGHGDCEQCK              | 3,49 | 3 | 2,73  | 1769,61 |
|                                                                                   |        |       | NPCCDAATCK                  | 2,84 | 2 | 2,08  | 1196,45 |
|                                                                                   |        |       | IPCAPEDVK                   | 2,56 | 2 | 3,03  | 1028,51 |
|                                                                                   |        |       | MFYSNEDEHK                  | 1,94 | 2 | 2,46  | 1315,52 |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 6,19 | 3 | 2,41  | 2937,16 |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 4,92 | 3 | 4,29  | 2953,16 |
| Acutolysin e2<br>OS=Deinagkistrodon acutus                                        | C7E3Q3 | 19,67 | MFYSNDDEHK                  | 2,82 | 2 | 2,13  | 1301,51 |
|                                                                                   |        |       | MFYSNDDEHK                  | 1,96 | 2 | 2,66  | 1285,51 |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 6,19 | 3 | 2,41  | 2937,16 |
|                                                                                   |        |       | ASMSECDPAEHCTGQSSECPADV FHK | 4,92 | 3 | 4,29  | 2953,16 |
|                                                                                   |        |       | DDSPGQNNPCK                 | 1,98 | 2 | 2,43  | 1231,5  |
|                                                                                   |        |       | MFYSNDDEHKG                 | 1,8  | 2 | 1,51  | 1358,53 |
| MP_III1 SVMP<br>OS=Bothrops neuwiedi                                              | E3UJL0 | 15,26 | NPCCDAATCK                  | 2,84 | 2 | 2,08  | 1196,45 |
|                                                                                   |        |       | LHPWVECESGECCGQCR           | 5,41 | 3 | 1,46  | 2163,84 |
|                                                                                   |        |       | SEC DIAESCTGQSAQCPTDD FHK   | 4,72 | 3 | 2,64  | 2643,04 |
|                                                                                   |        |       | QKPQCILNEPLR                | 2,29 | 3 | -1,22 | 1495,8  |
| MP_III2 SVMP<br>OS=Bothrops neuwiedi                                              | E3UJL1 | 14,18 | LHPWVECESGECCGQCR           | 5,41 | 3 | 1,46  | 2163,84 |
|                                                                                   |        |       | SEC DIAESCTGQSAQCPTDD FHK   | 4,72 | 3 | 2,64  | 2643,04 |
|                                                                                   |        |       | QKPQCILNEPLR                | 2,29 | 3 | -1,22 | 1495,8  |
|                                                                                   |        |       | AGNVCRPQR                   | 1,76 | 2 | 1,62  | 1057,53 |
| Phospholipase A2 BnSP-7<br>OS=Bothropoides pauloensis                             | Q9IAT9 | 11,88 | DKTIVCGENNPCLK              | 3,28 | 3 | 1,97  | 1647,78 |
|                                                                                   |        |       | TIVCGENNPCLK                | 3,07 | 2 | 2,52  | 1404,66 |
|                                                                                   |        |       | MILQETGKNPAK                | 2,06 | 3 | 0,68  | 1345,71 |
|                                                                                   |        |       | YHLKPFCK                    | 1,82 | 3 | 3,04  | 1092,56 |
|                                                                                   |        |       | ENLGTYNK                    | 1,65 | 2 | 2,08  | 938,45  |
| Acocostatin<br>OS=Agkistrodon contortrix contortrix                               | F8RTZ7 | 9,24  | AAKDECDMADLCTGR             | 4    | 3 | 2,45  | 1728,7  |
|                                                                                   |        |       | DECDMADLCTGR                | 3,44 | 2 | 1,25  | 1458,53 |
|                                                                                   |        |       | AAKDECDMADLCTGR             | 1,8  | 3 | 1,46  | 1712,7  |
| Zinc metalloproteinase-disintegrin bothrojarin-2<br>OS=Bothrops jararaca          | Q0NZX9 | 8,33  | NCRDPCCDAATCK               | 1,85 | 3 | 0,97  | 1627,6  |
|                                                                                   |        |       | SEC DIAESCTGQSAQCPTDD FHK   | 4,72 | 3 | 2,64  | 2643,04 |
|                                                                                   |        |       | AGNVCRPQR                   | 1,76 | 2 | 1,62  | 1057,53 |
| Platelet-aggregating proteinase PA-BJ<br>OS=Bothrops jararaca                     | P81824 | 6,39  | LGVHSIK                     | 1,77 | 2 | 0,64  | 753,46  |
|                                                                                   |        |       | DDVLDKDIMLIR                | 2,38 | 3 | 3,28  | 1461,76 |

|                                                                                               |                  |         | INILDHAVCR                       | 2,23               | 2 | 1,31   | 1210,63              |
|-----------------------------------------------------------------------------------------------|------------------|---------|----------------------------------|--------------------|---|--------|----------------------|
| Zinc metalloproteinase-disintegrin jerdonitin                                                 | P83912           | 6,04    | <b>YENVEKEDEAPK</b>              | 2,5                | 3 | 1,53   | 1450,67              |
| OS=Protobothrops jerdonii                                                                     |                  |         | LTPGSQCADGLCCDQCR                | 3,55               | 2 | 3,03   | 1997,79              |
| L-amino-acid oxidase                                                                          | Q6TGQ8           | 5,26    | HDDIFAYEK                        | 2,75               | 2 | 0,12   | 1137,52              |
| OS=Bothrops moojeni                                                                           |                  |         | SAGQLYEESLQK                     | 2,51               | 2 | -0,66  | 1352,66              |
| Metalloprotease                                                                               | Q9YI19           | 4,92    | <b>YENVEKEDEAPK</b>              | 2,5                | 3 | 1,53   | 1450,67              |
| OS=Gloydius halys                                                                             |                  |         | NPQCILNEPLR                      | 2,42               | 2 | 2,78   | 1353,69              |
| Metalloproteinase 10                                                                          | F8S111           | 4,67    | IPCAPQDVK                        | 2,39               | 2 | 1,26   | 1027,52              |
| OS=Crotalus adamanteus                                                                        |                  |         | DEDIGMVLPGTK                     | 2,28               | 2 | 1,42   | 1290,62              |
| Zinc metalloprotease-disintegrin halysase                                                     | Q8AWI5           | 4,56    | <b>YENVEKEDEAPK</b>              | 2,5                | 3 | 1,53   | 1450,67              |
| OS=Gloydius halys                                                                             |                  |         | LYCIDSSPANK                      | 2,06               | 2 | 1,58   | 1267,6               |
| Zinc metalloproteinase-disintegrin HF3                                                        | Q98UF9           | 4,09    | NCRDPCCDAATCK                    | 1,85               | 3 | 0,97   | 1627,6               |
| OS=Bothrops jararaca                                                                          |                  |         | VCSNGHCVDVATAY                   | 2,23               | 2 | 1,23   | 1552,63              |
| Platelet aggregating serine peptidase                                                         | Q6URK9           | 3,31    | LGVHSIK                          | 1,77               | 2 | 0,64   | 753,46               |
| OS=Bothrops jararaca                                                                          |                  |         | FICPNK                           | 1,54               | 2 | 2,34   | 778,39               |
| <b>Band 3 of venom samples collected 7 days after stimulus for venom production (~37 kDa)</b> |                  |         |                                  |                    |   |        |                      |
| Protein                                                                                       | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
| Platelet-aggregating proteinase PA-BJ                                                         | P81824           | 26,7    | KDDVLDKDIMLIR                    | 4,32               | 3 | 3,9    | 1589,86              |
| OS=Bothrops jararaca                                                                          |                  |         | KDDVLDKDIMLIR                    | 3,86               | 3 | 2,02   | 1573,86              |
|                                                                                               |                  |         | DDVLDKDIMLIR                     | 3,76               | 3 | 2,05   | 1445,76              |
|                                                                                               |                  |         | DDVLDKDIMLIR                     | 3,21               | 3 | 2,02   | 1461,76              |
|                                                                                               |                  |         | LGVHSIK                          | 2,61               | 2 | 1,37   | 753,46               |
|                                                                                               |                  |         | KPALYTK                          | 2,02               | 2 | 1,84   | 820,49               |
|                                                                                               |                  |         | INILDHAVCR                       | 2,54               | 3 | 3,59   | 1210,64              |
|                                                                                               |                  |         | KKDDVLDK                         | 2,54               | 3 | 1,16   | 960,53               |
|                                                                                               |                  |         | DIMLIR                           | 1,83               | 2 | 2,49   | 776,43               |
| Platelet aggregating serine peptidase                                                         | Q6URK9           | 24,68   | KNDVLDKDIMLIR                    | 4,87               | 3 | 2,26   | 1572,88              |
| OS=Bothrops jararaca                                                                          |                  |         | NDVLDKDIMLIR                     | 3,59               | 3 | 2,13   | 1444,78              |
|                                                                                               |                  |         | INILNHAVCR                       | 2,67               | 2 | 2,53   | 1209,65              |
|                                                                                               |                  |         | KNDVLDKDIMLIR                    | 2,54               | 2 | 3,64   | 1588,87              |
|                                                                                               |                  |         | LGVHSIK                          | 2,61               | 2 | 1,37   | 753,46               |
|                                                                                               |                  |         | KNDVLDK                          | 2,45               | 2 | 1,73   | 831,45               |
|                                                                                               |                  |         | NDVLDKDIMLIR                     | 2,45               | 2 | 3,46   | 1460,78              |
|                                                                                               |                  |         | DIMLIR                           | 1,83               | 2 | 2,49   | 776,43               |
|                                                                                               |                  |         | KKNDVLDK                         | 1,66               | 2 | 1,44   | 959,55               |
| Snake venom serine protease                                                                   | Q5W959           | 15,26   | NDDALDKDMLVR                     | 2,83               | 3 | 2,58   | 1533,76              |
| OS=Bothrops jararaca                                                                          |                  |         | IMGWGSITPIQK                     | 2,73               | 2 | -2,06  | 1346,71              |
|                                                                                               |                  |         | KTLNQDEQTR                       | 2,59               | 3 | 1,9    | 1232,62              |
|                                                                                               |                  |         | TLNQDEQTR                        | 2,43               | 2 | 1,63   | 1104,52              |
|                                                                                               |                  |         | TNPDVPHCANINLLDDAVCR             | 3,05               | 3 | 2,59   | 2294,07              |
|                                                                                               |                  |         | AAYPELPAEYR                      | 1,63               | 2 | 3,33   | 1279,63              |
| Phospholipase A2 BnSP-7                                                                       | Q9IAT9           | 15,26   | SYGAYGCNCGVLGR                   | 3,88               | 2 | 0,82   | 1533,65              |
| OS=Bothropoides pauloensis                                                                    |                  |         | TIVCGENNPCLK                     | 3,06               | 2 | 1,13   | 1404,66              |
|                                                                                               |                  |         | MILQETGK                         | 2,03               | 2 | 1,48   | 935,48               |
|                                                                                               |                  |         | AVAICLR                          | 2,01               | 2 | 1,85   | 802,46               |
|                                                                                               |                  |         | DKTIVCGENNPCLK                   | 2,56               | 3 | 0,86   | 1647,78              |
|                                                                                               |                  |         | ENLGTYNK                         | 1,72               | 2 | 1,37   | 938,45               |
| Snake venom serine protease 3                                                                 | Q9DF66           | 10,53   | VLNEDEQTRDPK                     | 3,27               | 3 | 2,86   | 1443,71              |

|                                                  |        |       |                              |      |   |       |         |
|--------------------------------------------------|--------|-------|------------------------------|------|---|-------|---------|
| OS=Protobothrops jerdonii                        |        |       | TLCAGILQGGK                  | 1,86 | 2 | 3,26  | 1117,6  |
|                                                  |        |       | DKDIMLIR                     | 2,01 | 2 | 1,63  | 1019,5  |
|                                                  |        |       | DIMLIR                       | 1,83 | 2 | 2,49  | 776,43  |
|                                                  |        |       | VMGWGK                       | 1,55 | 2 | -0,78 | 693,33  |
| Zinc metalloproteinase-disintegrin catroriarin   | A2CJE4 | 10,15 | NPCDDAATCK                   | 2,58 | 2 | 1,16  | 1196,45 |
| OS=Crotalus atrox                                |        |       | DNSPGQNNPCK                  | 2,16 | 2 | 1,64  | 1230,51 |
|                                                  |        |       | SGSQCGHGDCEQCK               | 2,13 | 3 | 2,84  | 1769,61 |
|                                                  |        |       | IPCAPEDVK                    | 1,68 | 2 | 2,43  | 1028,51 |
|                                                  |        |       | GNYYGYCR                     | 1,6  | 2 | 1,52  | 1052,42 |
| Thrombin-like enzyme asperase                    | Q072L6 | 9,84  | VLNEDEQTRDPK                 | 3,27 | 3 | 2,86  | 1443,71 |
| OS=Bothrops asper                                |        |       | IMGWGTISPTK                  | 2,49 | 2 | 2,86  | 1206,62 |
|                                                  |        |       | VSDYTEWIK                    | 2,41 | 2 | 2,01  | 1140,55 |
|                                                  |        |       | SIIAGNTAAACPP                | 1,68 | 2 | 2,87  | 1242,61 |
| Plasminogen activator-like protein               | E5L0E5 | 9,54  | IMGWGTISPTK                  | 2,49 | 2 | 2,86  | 1206,62 |
| OS=Agkistrodon piscivorus leucostoma             |        |       | LDSPVSNSEHIAPLSLPSSPPSVGSVCR | 3,21 | 3 | 4,32  | 2889,45 |
|                                                  |        |       | DKDIMLIR                     | 2,01 | 2 | 1,63  | 1019,55 |
|                                                  |        |       | DIMLIR                       | 1,83 | 2 | 2,49  | 776,43  |
| Zinc metalloproteinase-disintegrin jararhagin    | P30431 | 9,47  | DNSPGQNNPCK                  | 2,16 | 2 | 1,64  | 1230,51 |
| OS=Bothrops jararaca                             |        |       | SGSQCGHGDCEQCK               | 2,13 | 3 | 2,84  | 1769,61 |
|                                                  |        |       | KIPCAPEDVK                   | 1,91 | 2 | -2,8  | 1156,59 |
|                                                  |        |       | IPCAPEDVK                    | 1,68 | 2 | 2,43  | 1028,51 |
|                                                  |        |       | GNYYGYCR                     | 1,6  | 2 | 1,52  | 1052,42 |
| Snake venom serine protease homolog              | Q7T229 | 8,99  | VSDYTEWIR                    | 2,67 | 2 | 2,03  | 1168,56 |
| OS=Bothrops jararacussu                          |        |       | IMGWGTISPTK                  | 2,49 | 2 | 2,86  | 1206,62 |
|                                                  |        |       | SIIAGNTDVTCP                 | 2    | 2 | 2,87  | 1344,65 |
|                                                  |        |       | DIMLIR                       | 1,83 | 2 | 2,49  | 776,43  |
| Snake venom serine protease                      | Q8QG86 | 7,92  | TLCAGVLQGGK                  | 2,05 | 2 | 1,22  | 1103,58 |
| OS=Bothrops insularis                            |        |       | KPALYTK                      | 2,02 | 2 | 1,84  | 820,49  |
|                                                  |        |       | DKDIMLIR                     | 2,01 | 2 | 1,63  | 1019,55 |
|                                                  |        |       | DIMLIR                       | 1,83 | 2 | 2,49  | 776,43  |
| Zinc metalloproteinase-disintegrin bothrojarin-1 | Q0NZY0 | 6,52  | LTPGSQCADGLCCDQCR            | 4,24 | 3 | 1,98  | 1997,79 |
| OS=Bothrops jararaca                             |        |       | RGQGIYYCR                    | 2,28 | 2 | 0,68  | 1172,56 |
| Thrombin-like enzyme kangshuanmei                | P85109 | 5,9   | VIGGDECNINEHR                | 2,04 | 2 | 2,53  | 1512,68 |
| OS=Gloydus brevicaudus                           |        |       | KPALYTK                      | 2,02 | 2 | 1,84  | 820,49  |
|                                                  |        |       | DIMLIR                       | 1,83 | 2 | 2,49  | 776,43  |
| MP_I1 SVMP                                       | E3UJL3 | 4,66  | YNSNLNTIR                    | 2,59 | 2 | 2,09  | 1094,56 |
| OS=Bothrops neuwiedi                             |        |       | ASQSNLTPEQQR                 | 2,07 | 2 | 2,25  | 1358,66 |

#### Band 4 of venom samples collected 7 days after stimulus for venom production (~ 17 kDa)

| Protein                                               | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
|-------------------------------------------------------|------------------|---------|----------------------------------|--------------------|---|--------|----------------------|
| Phospholipase A2 BnSP-7<br>OS=Bothropoides pauloensis | Q9IAT9           | 32,27   | TIVCGENNPCLK                     | 2,85               | 2 | 2,78   | 1404,66              |
|                                                       |                  |         | SYGAYGCNCGVLGR                   | 2,8                | 2 | 2,65   | 1533,66              |
|                                                       |                  |         | MILQETGKNPAK                     | 3,09               | 2 | 2,21   | 1345,71              |
|                                                       |                  |         | MILQETGK                         | 2,19               | 2 | 1,62   | 919,49               |
|                                                       |                  |         | MILQETGK                         | 2,14               | 2 | 2,98   | 935,48               |
|                                                       |                  |         | ENLGTYNK                         | 1,82               | 2 | 1,95   | 938,45               |
|                                                       |                  |         | ENLGTYNKK                        | 1,8                | 2 | 1,6    | 1066,55              |
|                                                       |                  |         | KLTGCDPK                         | 1,79               | 2 | 2,11   | 918,47               |
|                                                       |                  |         | AVAICLR                          | 1,76               | 2 | 1,47   | 802,46               |

|                                               |        |       |                          |      |   |       |         |
|-----------------------------------------------|--------|-------|--------------------------|------|---|-------|---------|
|                                               |        |       | CCYVHK                   | 1,99 | 2 | 2,28  | 866,36  |
|                                               |        |       | ELCECDK                  | 1,77 | 2 | 1,99  | 953,37  |
|                                               |        |       | DKTIVCGENNPCLK           | 3,86 | 2 | 0,54  | 1647,78 |
|                                               |        |       | DRYSYSWK                 | 2,25 | 3 | 1,93  | 1104,51 |
|                                               |        |       | YHLKPFCK                 | 2,16 | 3 | 0,86  | 1092,56 |
| Phospholipase A2 homolog 2                    | Q9I834 | 26,64 | DKTIVCGENNSCLK           | 4,05 | 2 | 3,36  | 1637,76 |
| OS=Bothrops moojeni                           |        |       | TIVCGENNSCLK             | 3,47 | 2 | 1,92  | 1394,64 |
|                                               |        |       | MILQETGKNPAK             | 3,09 | 2 | 2,21  | 1345,71 |
|                                               |        |       | MILQETGK                 | 2,19 | 2 | 1,62  | 919,49  |
|                                               |        |       | ENLDTYNKK                | 2,14 | 2 | 1,42  | 1124,55 |
|                                               |        |       | MILQETGK                 | 2,14 | 2 | 2,98  | 935,48  |
|                                               |        |       | KLTGCDPK                 | 1,79 | 2 | 2,11  | 918,47  |
|                                               |        |       | AVAICLR                  | 1,76 | 2 | 1,47  | 802,46  |
|                                               |        |       | CCYVHK                   | 1,99 | 2 | 2,28  | 866,36  |
|                                               |        |       | ELCECDK                  | 1,77 | 2 | 1,99  | 953,37  |
|                                               |        |       | DRYSYSWK                 | 2,25 | 3 | 1,93  | 1104,51 |
| Zinc metalloproteinase/disintegrin            | Q072L5 | 23,13 | LRPGAQCAEGLCCDQCR        | 5,82 | 3 | 2,93  | 2050,87 |
| OS=Bothrops asper                             |        |       | IENDADSTASISACNGLK       | 3,16 | 2 | 2,11  | 1865,85 |
|                                               |        |       | YEDAMQYEFK               | 2,93 | 2 | 1,14  | 1339,55 |
|                                               |        |       | CTGQSADCPR               | 2,36 | 2 | 1,03  | 1151,45 |
|                                               |        |       | YNSNLNTIR                | 1,91 | 2 | 0,86  | 1094,55 |
|                                               |        |       | GDNPDDRCTGQSADCPR        | 3,22 | 3 | 2,67  | 1920,76 |
|                                               |        |       | GLFSEDYSETHYSPDGR        | 2,01 | 3 | 3,03  | 1959,84 |
|                                               |        |       | ASQSNLTPEQQR             | 1,71 | 2 | 2,61  | 1358,66 |
| Zinc metalloproteinase/disintegrin            | Q98SP2 | 18,86 | LRPGAQCAEGLCCDQCR        | 5,82 | 3 | 2,93  | 2050,87 |
| OS=Bothrops jararaca                          |        |       | IENDADSTASISACNGLK       | 3,16 | 2 | 2,11  | 1865,85 |
|                                               |        |       | IHQMVNIMK                | 2,39 | 3 | -0,2  | 1145,58 |
|                                               |        |       | DNPQCILNK                | 1,83 | 2 | -1,17 | 1101,53 |
|                                               |        |       | KTDLLNR                  | 1,82 | 2 | 1,55  | 859,5   |
|                                               |        |       | HDTGSCSCGGYSCIMAPVISHDIK | 3,84 | 4 | 1,48  | 2739,16 |
| Zinc metalloproteinase/disintegrin            | Q5XUW8 | 17,74 | IENDADSTASISACNGLK       | 3,16 | 2 | 2,11  | 1865,85 |
| OS=Bothrops insularis                         |        |       | YEDAMQYEFK               | 2,93 | 2 | 1,14  | 1339,55 |
|                                               |        |       | CTGQSADCPR               | 2,36 | 2 | 1,03  | 1151,45 |
|                                               |        |       | YNSNLNTIR                | 1,91 | 2 | 0,86  | 1094,55 |
|                                               |        |       | GDNPDDRCTGQSADCPR        | 3,22 | 3 | 2,67  | 1920,76 |
|                                               |        |       | SVNVDAHLANLEVWSK         | 2,14 | 2 | 3,18  | 1731,89 |
|                                               |        |       | GLFSEDYSETHYSPDGR        | 2,01 | 3 | 3,03  | 1959,84 |
| Zinc metalloproteinase-disintegrin jararhagin | P30431 | 15,51 | IENDADSTASISACNGLK       | 3,16 | 2 | 2,11  | 1865,85 |
| OS=Bothrops jararaca                          |        |       | YEDAMQYEFK               | 2,93 | 2 | 1,14  | 1339,55 |
|                                               |        |       | DNSPGQNNPCK              | 2,73 | 2 | 1,34  | 1230,51 |
|                                               |        |       | MFYSNDDEHK               | 2,35 | 3 | 1,35  | 1301,51 |
|                                               |        |       | KIPCAPEDVK               | 2,04 | 2 | 1,95  | 1156,6  |
|                                               |        |       | VCSNGHCVDTVATAY          | 2,29 | 2 | 0,37  | 1552,65 |
| Disintegrin basilicin                         | P31981 | 14,89 | LRPGAQCAEGLCCDQCR        | 5,82 | 3 | 2,93  | 2050,87 |
| OS=Crotalus basiliscus                        |        |       | AGEECDGSPANPCCDAATCK     | 3,49 | 2 | 2,08  | 2329,82 |
|                                               |        |       | CTGQSADCPR               | 2,36 | 2 | 1,03  | 1151,45 |
|                                               |        |       | GDNPDDRCTGQSADCPR        | 3,22 | 3 | 2,67  | 1920,76 |
| Disintegrin cereberin                         | P31985 | 14,19 | LRPGAQCAEGLCCDQCR        | 5,82 | 3 | 2,93  | 2050,87 |
| OS=Crotalus oreganus cerberus                 |        |       | CTGQSADCPR               | 2,36 | 2 | 1,03  | 1151,45 |
|                                               |        |       | GDNPDDRCTGQSADCPR        | 3,22 | 3 | 2,67  | 1920,76 |



|                                                    |        |       |                       |      |   |       |         |
|----------------------------------------------------|--------|-------|-----------------------|------|---|-------|---------|
|                                                    |        |       | EAGEECDGSPANPCCDAATCK | 2,79 | 2 | 2,42  | 2458,87 |
| Bothroinsularin subunit alpha                      | P0C929 | 13,24 | WSDGSSVSYENVVGR       | 4,48 | 2 | 2,54  | 1641,75 |
| OS=Bothrops insularis                              |        |       | MNWADAER              | 2,57 | 2 | 1,25  | 1008,42 |
|                                                    |        |       | MNWADAER              | 2,39 | 2 | -0,72 | 992,42  |
|                                                    |        |       | IQSSDLYAWIGLR         | 3,8  | 2 | 4,58  | 1521,81 |
| Phospholipase A2 homolog Cax-K49                   | Q8UVZ7 | 10,19 | MILQETGK              | 2,19 | 2 | 1,62  | 919,49  |
| OS=Crotalus atrox                                  |        |       | ENLDTYNKK             | 2,14 | 2 | 1,42  | 1124,55 |
|                                                    |        |       | MILQETGK              | 2,14 | 2 | 2,98  | 935,48  |
|                                                    |        |       | NPITSYGIYGCNCGVGSR    | 1,96 | 2 | -2,18 | 1974,87 |
|                                                    |        |       | AVAICLR               | 1,76 | 2 | 1,47  | 802,46  |
| Bothroinsularin subunit beta OS=Bothrops insularis | P0C930 | 7,79  | FEWSDGSDLSYK          | 3,08 | 2 | 2,47  | 1433,62 |
|                                                    |        |       | DCPPDWSSYEGSCYR       | 2,84 | 2 | 4,56  | 1878,71 |
|                                                    |        |       | MNWEDAER              | 1,88 | 2 | -0,28 | 1022,42 |
| Disintegrin ussuristatin-1                         | Q7LZ15 | 7,37  | LRPGAQCAEGLCCEQCR     | 5,01 | 3 | 2,19  | 2064,88 |
| OS=Gloydius ussuriensis                            |        |       | CTGQSADCPR            | 2,36 | 2 | 1,03  | 1151,45 |
| C-type lectin 6                                    | F8S0Z0 | 5,36  | RPYCTVMVVK            | 1,94 | 2 | 1,4   | 1268,65 |
| OS=Crotalus adamanteus                             |        |       | FTSMWIGLK             | 1,73 | 2 | 3,06  | 1098,56 |
|                                                    |        |       | RPYCTVMVVK            | 1,69 | 2 | 1,55  | 1252,65 |
| Zinc metalloproteinase-disintegrin catroriarin     | A2CJE4 | 4,81  | DNSPGQNNPCK           | 2,73 | 2 | 1,34  | 1230,51 |
| OS=Crotalus atrox                                  |        |       | NPCCDAATCK            | 2,08 | 2 | 1,57  | 1196,45 |

### Band 1 of venom samples collected 10 days after stimulus for venom production (~ 65 kDa)

| Protein                                          | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
|--------------------------------------------------|------------------|---------|----------------------------------|--------------------|---|--------|----------------------|
| Phospholipase A2 BnSP-7                          | Q9IAT9           | 12,67   | SYGAYGCNCGVLGR                   | 3,61               | 2 | 2,01   | 1533,66              |
| OS=Bothropoides pauloensis                       |                  |         | DKTIVCGENNPCLK                   | 2,89               | 3 | 1,97   | 1647,78              |
|                                                  |                  |         | TIVCGENNPCLK                     | 2,62               | 2 | 2,35   | 1404,66              |
|                                                  |                  |         | AVAICLR                          | 1,78               | 2 | 2,38   | 802,46               |
|                                                  |                  |         | YHLKPFCK                         | 1,77               | 3 | 4,72   | 1092,57              |
| Zinc metalloproteinase-disintegrin bothrojarin-1 | Q0NZY0           | 9,78    | LTPGSQCADGLCCDQCR                | 2,65               | 2 | 3,15   | 1997,79              |
| OS=Bothrops jararaca                             |                  |         | QNGVTIPCAR                       | 1,95               | 2 | 3,3    | 1115,56              |
|                                                  |                  |         | GQGIYYCR                         | 1,81               | 2 | 3      | 1016,46              |
|                                                  |                  |         | RGQGIYYCR                        | 1,75               | 3 | 1,97   | 1172,56              |
|                                                  |                  |         | FKGAGTECR                        | 1,61               | 2 | 2,12   | 1025,48              |
| Zinc metalloproteinase-disintegrin jararhagin    | P30431           | 9,06    | DNSPGQNNPCK                      | 2,72               | 2 | 1,15   | 1230,51              |
| OS=Bothrops jararaca                             |                  |         | KTDLLTR                          | 2,07               | 2 | 2,6    | 846,5                |
|                                                  |                  |         | KIPCAPEDVK                       | 2,02               | 3 | 3,34   | 1156,6               |
|                                                  |                  |         | IPCAPEDVK                        | 2,24               | 2 | 3,03   | 1028,51              |
| Phospholipase A2 homolog 2                       | P24605           | 8,46    | SYGAYGCNCGVLGR                   | 3,61               | 2 | 2,01   | 1533,66              |
| OS=Bothrops asper                                |                  |         | TIVCGENNSCLK                     | 3,06               | 2 | 3,49   | 1394,64              |
|                                                  |                  |         | AVAICLR                          | 1,78               | 2 | 2,38   | 802,46               |
| L-amino-acid oxidase                             | B5AR80           | 7,98    | SAGQLYEESLQK                     | 3,36               | 2 | 0,42   | 1352,66              |
| OS=Bothropoides pauloensis                       |                  |         | HDDIFAYEK                        | 2,92               | 2 | 1,62   | 1137,52              |
|                                                  |                  |         | EVTVTYQTSK                       | 1,69               | 2 | 2,63   | 1226,62              |
| Zinc metalloproteinase-disintegrin catroriarin   | A2CJE4           | 7,54    | DNSPGQNNPCK                      | 2,72               | 2 | 1,15   | 1230,51              |
| OS=Crotalus atrox                                |                  |         | NPCCDAATCK                       | 2,58               | 2 | 1,06   | 1196,45              |
|                                                  |                  |         | IPCAPEDVK                        | 2,24               | 2 | 3,03   | 1028,51              |
| Acocostatin                                      | F8RTZ7           | 4,88    | DECDMADLCTGR                     | 3,27               | 2 | 2,76   | 1458,53              |
| OS=Agkistrodon contortrix contortrix             |                  |         | FKGAGTECR                        | 1,61               | 2 | 2,12   | 1025,48              |
| Zinc metalloproteinase-disintegrin HF3           | Q98UF9           | 4,44    | NCRDPCCDAATCK                    | 2,83               | 3 | 1,65   | 1627,61              |

|                                                                                                |                         |                |                                        |                          |          |               |                            |
|------------------------------------------------------------------------------------------------|-------------------------|----------------|----------------------------------------|--------------------------|----------|---------------|----------------------------|
| OS=Bothrops jararaca                                                                           |                         |                | FKGAGTECR                              | 1,61                     | 2        | 2,12          | 1025,48                    |
| Metalloproteinase isoform 7                                                                    | B0VXU9                  | 4,12           | <b>ASQSNLTPEQQR</b>                    | 2,51                     | 2        | 2,61          | 1358,66                    |
| OS=Sistrurus catenatus edwardsii                                                               |                         |                | FKGAGTECR                              | 1,61                     | 2        | 2,12          | 1025,48                    |
| Zinc metalloproteinase atroxlysin-1                                                            | P85420                  | 3,83           | KTDLLNR                                | 2                        | 2        | 1,9           | 859,5                      |
| OS=Bothrops atrox                                                                              |                         |                | TDLLNR                                 | 1,83                     | 2        | 2,15          | 731,4                      |
| Phospholipase A2 Cax-K49                                                                       | Q8UVZ7                  | 3,62           | AVAICLR                                | 1,78                     | 2        | 2,38          | 802,46                     |
| OS=Crotalus atrox                                                                              |                         |                | NPITSYGIYGCNCGVGSR                     | 1,84                     | 2        | 1,9           | 1974,88                    |
| <b>Band 2 of venom samples collected 10 days after stimulus for venom production (~ 50kDa)</b> |                         |                |                                        |                          |          |               |                            |
| <b>Protein</b>                                                                                 | <b>Accession number</b> | <b>Score**</b> | <b>Identified peptides<sup>†</sup></b> | <b>XCorr<sup>‡</sup></b> | <b>z</b> | <b>ΔM ppm</b> | <b>MH<sup>+</sup> (Da)</b> |
| Zinc metalloproteinase-disintegrin bothropasin                                                 | O93523                  | 36,21          | ASMSECDPAEHCTGQSSECPADV FHK            | 3,98                     | 4        | 2,65          | 2953,15                    |
| OS=Bothrops jararaca                                                                           |                         |                | <b>ASQLVVTAEQQK</b>                    | 3,63                     | 2        | -2,56         | 1301,7                     |
|                                                                                                |                         |                | SGSQCGHGDCEQCK                         | 3,47                     | 3        | 1,28          | 1769,61                    |
|                                                                                                |                         |                | MFYSNDDEHK                             | 2,92                     | 3        | 4,3           | 1301,51                    |
|                                                                                                |                         |                | MFYSNDDEHK                             | 2,71                     | 3        | 1,8           | 1285,51                    |
|                                                                                                |                         |                | DNSPGQNNPCK                            | 2,58                     | 2        | 1,94          | 1230,51                    |
|                                                                                                |                         |                | KIPCAPEDVK                             | 2,48                     | 2        | 2,59          | 1156,6                     |
|                                                                                                |                         |                | MFYSNDDEHKGMVLPGTK                     | 2,25                     | 3        | 2,51          | 2100,94                    |
|                                                                                                |                         |                | KTDLLTR                                | 2,41                     | 2        | 2,96          | 846,5                      |
|                                                                                                |                         |                | VCSNGHCVDVATAY                         | 2,22                     | 2        | -4,43         | 1552,64                    |
|                                                                                                |                         |                | ITVKPDVDYTLNSFAEWR                     | 3,35                     | 3        | 3,01          | 2154,09                    |
|                                                                                                |                         |                | IPCAPEDVK                              | 2,42                     | 2        | 3,38          | 1028,51                    |
|                                                                                                |                         |                | TDLLTR                                 | 1,79                     | 2        | 2,46          | 718,41                     |
| L-amino-acid oxidase (Fragment) OS=Bothrops moojeni                                            | Q6TGQ8                  | 14,53          | SAGQLYEESLQK                           | 3,8                      | 2        | 1,5           | 1352,67                    |
|                                                                                                |                         |                | HDDIFAYEK                              | 2,91                     | 2        | 0,44          | 1137,52                    |
|                                                                                                |                         |                | ETDYEEFLEIAK                           | 2,83                     | 2        | 2,48          | 1486,69                    |
|                                                                                                |                         |                | LPTSMYQAIQEK                           | 2,68                     | 2        | 2,3           | 1424,71                    |
|                                                                                                |                         |                | DPGVLEYPVKPSEVGK                       | 2,3                      | 3        | 2,21          | 1713,9                     |
| Metalloproteinase PMMP-2                                                                       | E9NW27                  | 7,99           | LRPGAQCAEGLCCDQCR                      | 5,63                     | 3        | 2,31          | 2050,87                    |
| OS=Protobothrops mucrosquamatus                                                                |                         |                | <b>YENIEKEDEAPK</b>                    | 2,35                     | 3        | 2,5           | 1464,68                    |
| Batroxstatin-1 (Fragment) OS=Bothrops atrox                                                    | C5H5D2                  | 7,88           | KYIELVIVADNV MVK                       | 3,22                     | 3        | 4,69          | 1749,99                    |
|                                                                                                |                         |                | YLIDNRPPCILNIPLR                       | 2,75                     | 3        | 2,78          | 1967,09                    |
|                                                                                                |                         |                | QNGVTIPCAR                             | 1,92                     | 2        | 3,73          | 1115,56                    |
| Zinc metalloproteinase/disintegrin                                                             | Q98SP2                  | 7,75           | LRPGAQCAEGLCCDQCR                      | 5,63                     | 3        | 2,31          | 2050,87                    |
| OS=Bothrops jararaca                                                                           |                         |                | KTDLLNR                                | 2,12                     | 2        | 1,9           | 859,5                      |
| Batroxstatin-2                                                                                 | C5H5D3                  | 6,54           | DECDMADLCTGR                           | 3,37                     | 2        | 2,09          | 1458,53                    |
| OS=Bothrops atrox                                                                              |                         |                | LVLVADYIMYLK                           | 3,17                     | 2        | 2,52          | 1456,81                    |
| Phospholipase A2 BnSP-7                                                                        | Q9IAT9                  | 5,73           | SYGAYGCNCGVLGR                         | 3,68                     | 2        | 0,9           | 1533,65                    |
| OS=Bothropoides pauloensis                                                                     |                         |                | TIVCGENNPCLK                           | 2,05                     | 2        | 2,17          | 1404,66                    |
| Zinc metalloprotease-disintegrin halysase                                                      | Q8AWI5                  | 5,12           | <b>ASQSNLTPEQQR</b>                    | 3,05                     | 2        | 2,79          | 1358,66                    |
| OS=Gloydus halys                                                                               |                         |                | LYCIDSSPANK                            | 2,07                     | 2        | 1,77          | 1267,6                     |
| Zinc metalloproteinase-disintegrin HF3                                                         | Q98UF9                  | 5              | NCRDPCCDAATCK                          | 2,78                     | 3        | 1,2           | 1627,61                    |
| OS=Bothrops jararaca                                                                           |                         |                | VCSNGHCVDVATAY                         | 2,22                     | 2        | -4,43         | 1552,64                    |
| Metalloproteinase                                                                              | E9JG36                  | 4,97           | NPCCDAATCK                             | 2,62                     | 2        | 2,18          | 1196,45                    |
| OS=Echis carinatus sochureki                                                                   |                         |                | <b>YENIEKEDEAPK</b>                    | 2,35                     | 3        | 2,5           | 1464,68                    |
| Group III snake venom metalloproteinase                                                        | E9KJZ6                  | 4,77           | <b>YENIEKEDEAPK</b>                    | 2,35                     | 3        | 2,5           | 1464,68                    |
| OS=Echis ocellatus                                                                             |                         |                | IPCAPEDVK                              | 2,42                     | 2        | 3,38          | 1028,51                    |
| Metalloproteinase isoform 1 OS=Sistrurus catenatus                                             | B0VXU4                  | 4,57           | <b>YENIEKEDEAPK</b>                    | 2,35                     | 3        | 2,5           | 1464,68                    |



| edwardsii                                                                                       |                  |         | VCSNGHCVDVATAY                   | 2,22               | 2 | -4,43  | 1552,64              |
|-------------------------------------------------------------------------------------------------|------------------|---------|----------------------------------|--------------------|---|--------|----------------------|
| Zinc metalloproteinase-disintegrin bothrojarin-1                                                | Q0NZY0           | 4,34    | LTPGSQCADGLCCDQCR                | 2,42               | 2 | 3,21   | 1997,79              |
| OS=Bothrops jararaca                                                                            |                  |         | QNGVTIPCAR                       | 1,92               | 2 | 3,73   | 1115,56              |
| <b>Band 3 of venom samples collected 10 days after stimulus for venom production (~ 45 kDa)</b> |                  |         |                                  |                    |   |        |                      |
| Protein                                                                                         | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
| Zinc metalloproteinase-disintegrin bothropasin<br>OS=Bothrops jararaca                          | O93523           | 44,44   | ASMSECDPAEHCTGQSSECPADV FHK      | 5,26               | 4 | 2,73   | 2953,15              |
|                                                                                                 |                  |         | IENDADSTASISACNGLK               | 3,95               | 2 | 3,15   | 1865,86              |
|                                                                                                 |                  |         | DNSPGQNNPCK                      | 3,22               | 2 | 2,24   | 1230,51              |
|                                                                                                 |                  |         | DYSETHYSPDGR                     | 3,14               | 2 | 2,89   | 1426,59              |
|                                                                                                 |                  |         | SGSQCGHGDCCCEQCK                 | 3,35               | 3 | 3,77   | 1769,61              |
|                                                                                                 |                  |         | ASMSECDPAEHCTGQSSECPADV FHK      | 4,14               | 4 | 1,6    | 2937,15              |
|                                                                                                 |                  |         | MFYSNDDEHK                       | 2,71               | 3 | 2,87   | 1285,51              |
|                                                                                                 |                  |         | VCSNGHCVDVATAY                   | 2,54               | 2 | 3,36   | 1552,65              |
|                                                                                                 |                  |         | IPCAPEDVK                        | 2,6                | 2 | 2,67   | 1028,51              |
|                                                                                                 |                  |         | MFYSNDDEHK                       | 3,16               | 3 | 2,47   | 1301,51              |
|                                                                                                 |                  |         | KIPCAPEDVK                       | 2,24               | 2 | 3,43   | 1156,6               |
|                                                                                                 |                  |         | MFYSNDDEHKGMVLPGTK               | 2,21               | 4 | 0,73   | 2100,93              |
|                                                                                                 |                  |         | MFYSNDDEHKGMVLPGTK               | 1,82               | 3 | 3,63   | 2084,94              |
|                                                                                                 |                  |         | KTDLLTR                          | 2,05               | 2 | 3,24   | 846,5                |
|                                                                                                 |                  |         | TDLLTR                           | 2,05               | 2 | 2,72   | 718,41               |
| Zinc metalloproteinase-disintegrin VMP-III<br>OS=Crotalus viridis viridis                       | C9E1R8           | 38,51   | ASMSECDPAEHCTGQSSECPADV FHK      | 5,26               | 4 | 2,73   | 2953,15              |
|                                                                                                 |                  |         | IENDADSTASISACNGLK               | 3,95               | 2 | 3,15   | 1865,86              |
|                                                                                                 |                  |         | YEDAMQYELK                       | 3,33               | 2 | 2,18   | 1305,56              |
|                                                                                                 |                  |         | DNSPGQNNPCK                      | 3,22               | 2 | 2,24   | 1230,51              |
|                                                                                                 |                  |         | DYSETHYSPDGR                     | 3,14               | 2 | 2,89   | 1426,59              |
|                                                                                                 |                  |         | SGSQCGHGDCCCEQCK                 | 3,35               | 3 | 3,77   | 1769,61              |
|                                                                                                 |                  |         | ASMSECDPAEHCTGQSSECPADV FHK      | 4,14               | 4 | 1,6    | 2937,15              |
|                                                                                                 |                  |         | YEDAMQYELK                       | 2,88               | 2 | 1,95   | 1289,57              |
|                                                                                                 |                  |         | VCSNGHCVDVATAY                   | 2,54               | 2 | 3,36   | 1552,65              |
|                                                                                                 |                  |         | IPCAPEDVK                        | 2,6                | 2 | 2,67   | 1028,51              |
|                                                                                                 |                  |         | KTDLLTR                          | 2,05               | 2 | 3,24   | 846,5                |
|                                                                                                 |                  |         | TDLLTR                           | 2,05               | 2 | 2,72   | 718,41               |
| Zinc metalloproteinase/disintegrin OS=Bothrops jararaca                                         | Q98SP2           | 32,75   | LRPGAQCAEGLCCDQCR                | 5,55               | 3 | 1,86   | 2050,87              |
|                                                                                                 |                  |         | IENDADSTASISACNGLK               | 3,95               | 2 | 3,15   | 1865,85              |
|                                                                                                 |                  |         | YEDAMQYELK                       | 3,33               | 2 | 2,18   | 1305,56              |
|                                                                                                 |                  |         | DYSETHYSPDGR                     | 3,14               | 2 | 2,89   | 1426,59              |
|                                                                                                 |                  |         | ASQSNLTPEHQR                     | 2,93               | 3 | 1,47   | 1367,66              |
|                                                                                                 |                  |         | LQGETYLIEPLK                     | 2,79               | 2 | 2,44   | 1403,78              |
|                                                                                                 |                  |         | YEDAMQYELK                       | 2,88               | 2 | 1,95   | 1289,57              |
|                                                                                                 |                  |         | LSDSEAHAVFK                      | 1,99               | 3 | 2,35   | 1203,6               |
|                                                                                                 |                  |         | TDLLNR                           | 1,95               | 2 | 4,32   | 731,4                |
|                                                                                                 |                  |         | KTDLLNRK                         | 2,09               | 3 | 1,03   | 987,59               |
|                                                                                                 |                  |         | IHQMVNIMK                        | 2,16               | 2 | 2,23   | 1145,58              |
| Acurhagin<br>OS=Deinagkistrodon acutus                                                          | Q6Q274           | 29,91   | ASMSECDPAEHCTGQSSECPADV FHK      | 5,26               | 4 | 2,73   | 2953,15              |
|                                                                                                 |                  |         | DYSETHYSPDGR                     | 3,14               | 2 | 2,89   | 1426,59              |
|                                                                                                 |                  |         | SGSQCGHGDCCCEQCK                 | 3,35               | 3 | 3,77   | 1769,61              |
|                                                                                                 |                  |         | ASMSECDPAEHCTGQSSECPADV FHK      | 4,14               | 4 | 1,6    | 2937,15              |
|                                                                                                 |                  |         | MFYSNDDEHK                       | 2,71               | 3 | 2,87   | 1285,51              |

|                                                                            |        |       |                                |      |   |       |         |
|----------------------------------------------------------------------------|--------|-------|--------------------------------|------|---|-------|---------|
|                                                                            |        |       | MFYSNDDEHK                     | 3,16 | 3 | 2,47  | 1301,51 |
|                                                                            |        |       | MFYSNDDEHKGMVLPGTK             | 2,21 | 2 | 1,91  | 2100,93 |
|                                                                            |        |       | <b>LSDSEAHAVFK</b>             | 1,99 | 3 | 2,35  | 1203,6  |
|                                                                            |        |       | MFYSNDDEHKGMVLPGTK             | 1,82 | 3 | 3,63  | 2084,94 |
|                                                                            |        |       | DDSPGQNNPCK                    | 2,13 | 2 | 2,03  | 1231,5  |
| Zinc metalloproteinase-disintegrin catroriarin<br>OS=Crotalus atrox        | A2CJE4 | 21,36 | ASMSECDPAEHCTGQSSECPADVFK      | 5,26 | 4 | 2,73  | 2953,15 |
|                                                                            |        |       | DNSPGQNNPCK                    | 3,22 | 2 | 2,24  | 1230,51 |
|                                                                            |        |       | SGSQCGHGDCEQCK                 | 3,35 | 3 | 3,77  | 1769,61 |
|                                                                            |        |       | ASMSECDPAEHCTGQSSECPADVFK      | 4,14 | 4 | 1,6   | 2937,15 |
|                                                                            |        |       | NPCCDAATCK                     | 2,79 | 2 | 1,87  | 1196,45 |
|                                                                            |        |       | IPCAPEDVK                      | 2,6  | 2 | 2,67  | 1028,51 |
| Zinc metalloproteinase-disintegrin brevilysin-H6<br>OS=Gloydus brevicaudus | P0C7B0 | 19,87 | DNSPGQNNPCK                    | 3,22 | 2 | 2,24  | 1230,51 |
|                                                                            |        |       | <b>DYSETHYSPDGR</b>            | 3,14 | 2 | 2,89  | 1426,59 |
|                                                                            |        |       | SGSQCGHGDCEQCK                 | 3,35 | 3 | 3,77  | 1769,61 |
|                                                                            |        |       | <b>LQGETYLIEPLK</b>            | 2,79 | 2 | 2,44  | 1403,78 |
|                                                                            |        |       | VCSNGHCVDVATAY                 | 2,54 | 2 | 3,36  | 1552,65 |
|                                                                            |        |       | IPCAPEDVK                      | 2,6  | 2 | 2,67  | 1028,51 |
|                                                                            |        |       | KIPCAPEDVK                     | 2,24 | 2 | 3,43  | 1156,6  |
| Zinc metalloproteinase/disintegrin<br>OS=Bothrops asper                    | Q072L5 | 19,59 | LRPGAQCAEGLCCDQCR              | 5,55 | 3 | 1,86  | 2050,87 |
|                                                                            |        |       | <b>IENDADSTASISACNGLK</b>      | 3,95 | 2 | 3,15  | 1865,86 |
|                                                                            |        |       | <b>ASQSNLTPEQQR</b>            | 3,11 | 2 | 2,7   | 1358,66 |
|                                                                            |        |       | <b>IQGETYLIEPLK</b>            | 2,79 | 2 | 2,44  | 1403,78 |
|                                                                            |        |       | YNSNLNTIR                      | 1,87 | 2 | 2,31  | 1094,56 |
|                                                                            |        |       | <b>GLFSEDYSETHYSPDGR</b>       | 2,31 | 3 | 4,06  | 1959,84 |
| MP_III2 SVMP<br>OS=Bothrops neuwiedi                                       | E3UJL1 | 17,42 | LHPWVECESGECCGQCR              | 5,48 | 3 | 2,65  | 2163,85 |
|                                                                            |        |       | SECDAESCTGQSAQCPTDDFHK         | 4,7  | 3 | 3,61  | 2643,04 |
|                                                                            |        |       | NPCCDATTCK                     | 2,79 | 2 | 1,87  | 1226,46 |
|                                                                            |        |       | QKPQCILNEPLR                   | 2,66 | 3 | -0,67 | 1495,8  |
|                                                                            |        |       | AGNVCRPQR                      | 1,8  | 2 | 1,27  | 1057,53 |
| Zinc metalloproteinase/disintegrin<br>OS=Bothrops insularis                | Q5XUW8 | 16,88 | <b>IENDADSTASISACNGLK</b>      | 3,95 | 2 | 3,15  | 1865,86 |
|                                                                            |        |       | <b>ASQSNLTPEQQR</b>            | 2,99 | 2 | 2,24  | 1330,66 |
|                                                                            |        |       | <b>LQGETYLIEPLK</b>            | 2,79 | 2 | 2,44  | 1403,78 |
|                                                                            |        |       | YNSNLNTIR                      | 1,87 | 2 | 2,31  | 1094,56 |
|                                                                            |        |       | <b>LQGETYLIEPLKLPDSEAHAVYK</b> | 2,97 | 4 | 3,16  | 2614,38 |
|                                                                            |        |       | <b>GLFSEDYSETHYSPDGR</b>       | 2,31 | 3 | 4,06  | 1959,84 |
| Metalloproteinase PMMP-2<br>OS=Protobothrops mucrosquamatus                | E9NW27 | 13,62 | LRPGAQCAEGLCCDQCR              | 5,55 | 3 | 1,86  | 2050,87 |
|                                                                            |        |       | <b>LQGETYLIEPLK</b>            | 2,79 | 2 | 2,44  | 1403,78 |
|                                                                            |        |       | <b>LQGETYLIEPLKLPDSEAHAVYK</b> | 2,97 | 4 | 3,16  | 2614,38 |
|                                                                            |        |       | <b>GLFSEDYSETHYSPDGR</b>       | 2,31 | 3 | 4,06  | 1959,84 |
| GlutaminyI-peptide cyclotransferase<br>OS=Bothrops jararaca                | Q9YIB5 | 13,57 | HPVEDDHIPFLR                   | 2,49 | 3 | 2,47  | 1474,74 |
|                                                                            |        |       | RHPVEDDHIPFLR                  | 2,27 | 4 | 2,06  | 1630,84 |
|                                                                            |        |       | YPGSPGSYAVR                    | 2,79 | 2 | 3,88  | 1153,56 |
|                                                                            |        |       | NPVFPVYFLNTAR                  | 2,12 | 2 | 5,07  | 1537,82 |
|                                                                            |        |       | LIFFDGEEAFVR                   | 2,1  | 2 | 4,89  | 1442,73 |
|                                                                            |        |       | WSPSDSLYGSR                    | 1,81 | 2 | 1,86  | 1254,57 |
| Zinc metalloproteinase-disintegrin TSV-DM<br>OS=Viridovipera stejnegeri    | Q2LD49 | 13,52 | <b>YEDAMQYELK</b>              | 3,33 | 2 | 2,18  | 1305,56 |
|                                                                            |        |       | <b>DYSETHYSPDGR</b>            | 3,14 | 2 | 2,89  | 1426,59 |
|                                                                            |        |       | <b>YEDAMQYELK</b>              | 2,88 | 2 | 1,95  | 1289,57 |
|                                                                            |        |       | LYCIDSSPANK                    | 2,4  | 2 | 2,06  | 1267,6  |

|                                                  |        |       |                           |      |   |       |         |
|--------------------------------------------------|--------|-------|---------------------------|------|---|-------|---------|
|                                                  |        |       | NMPQCILK                  | 1,76 | 2 | 3,74  | 1019,5  |
| Metalloproteinase 7                              | F8S108 | 13,11 | <b>IENDADSTASISACNGLK</b> | 3,95 | 2 | 3,15  | 1865,86 |
| OS=Crotalus adamanteus                           |        |       | <b>ASQSNLTPEQQR</b>       | 3,11 | 2 | 2,7   | 1358,66 |
|                                                  |        |       | <b>GLFSEDYSETHYSPDGR</b>  | 2,31 | 3 | 4,06  | 1959,84 |
|                                                  |        |       | GAGTECRAAKDECDMADVCTGR    | 1,96 | 3 | -2,72 | 2445,97 |
|                                                  |        |       | NMPQCILK                  | 1,76 | 2 | 3,74  | 1019,5  |
| Batroxstatin-2                                   | C5H5D3 | 11,43 | DECDMADLCTGR              | 3,56 | 2 | -5,28 | 1458,52 |
| OS=Bothrops atrox                                |        |       | DECDMADLCTGR              | 2,76 | 2 | 0,53  | 1442,53 |
|                                                  |        |       | GAGTECRAAKDECDMADLCTGR    | 2,28 | 3 | -0,78 | 2459,99 |
|                                                  |        |       | LVLVADYIMYLK              | 2,84 | 2 | 2,68  | 1456,81 |
| Zinc metalloproteinase/disintegrin               | P18619 | 11,31 | <b>YEDAMQYELK</b>         | 3,33 | 2 | 2,18  | 1305,56 |
| OS=Protobothrops flavoviridis                    |        |       | <b>LQGETYLIEPLK</b>       | 2,79 | 2 | 2,44  | 1403,78 |
|                                                  |        |       | <b>YEDAMQYELK</b>         | 2,88 | 2 | 1,95  | 1289,57 |
|                                                  |        |       | <b>GLFSEDYSETHYSPDGR</b>  | 2,31 | 3 | 4,06  | 1959,84 |
| Zinc metalloproteinase-disintegrin bothrojarin-2 | Q0NZX9 | 9,53  | SECDIAESCTGQSAQCPTDDFHK   | 4,7  | 3 | 3,61  | 2643,04 |
| OS=Bothrops jararaca                             |        |       | GEECDGSPR                 | 3,04 | 2 | 1,83  | 1166,42 |
|                                                  |        |       | AGNVCRPQR                 | 1,8  | 2 | 1,27  | 1057,53 |
| Batroxstatin-3                                   | C5H5D4 | 8,4   | YLISHTPQCILNEPLR          | 3,81 | 3 | 2,42  | 1954,02 |
| OS=Bothrops atrox                                |        |       | KYTHNLIDIR                | 2,32 | 3 | 2,31  | 1272,7  |
|                                                  |        |       | YTHNLIDIR                 | 2,27 | 3 | 1,18  | 1144,61 |
| Snake venom serine protease                      | Q8QG86 | 8,04  | NMSDEKDKDIMLIR            | 2,49 | 3 | 2,25  | 1739,83 |
| OS=Bothrops insularis                            |        |       | SVANDDEVIR                | 1,91 | 2 | 2,56  | 1117,55 |
|                                                  |        |       | FICPNK                    | 1,82 | 2 | 1,95  | 778,39  |
|                                                  |        |       | IYLGIHAR                  | 1,81 | 3 | 0,24  | 942,55  |
| Zinc metalloproteinase/disintegrin ussurin       | Q7SZD9 | 7,88  | <b>DYSETHYSPDGR</b>       | 3,14 | 2 | 2,89  | 1426,59 |
| OS=Gloydus ussuriensis                           |        |       | LRPGAQCAEGLCCEQCR         | 2,75 | 3 | 2,28  | 2064,88 |
|                                                  |        |       | <b>LSDSEAHAVFK</b>        | 1,99 | 3 | 2,35  | 1203,6  |
| Zinc metalloprotease-disintegrin halysase        | Q8AWI5 | 7,83  | <b>ASQSNLTPEQQR</b>       | 3,11 | 2 | 2,7   | 1358,66 |
| OS=Gloydus halys                                 |        |       | LYCIDSSPANK               | 2,4  | 2 | 2,06  | 1267,6  |
|                                                  |        |       | <b>GLFSEDYSETHYSPDGR</b>  | 2,31 | 3 | 4,06  | 1959,84 |
| Zinc metalloproteinase/disintegrin               | P31989 | 7,55  | LRPGAQCAEGLCCDQCR         | 5,55 | 3 | 1,86  | 2050,87 |
| OS=Bothrops jararaca                             |        |       | ENPQCILNK                 | 2    | 2 | 1,44  | 1115,55 |
| Metalloproteinase isoform 1                      | B0VXU4 | 7,47  | <b>DYSETHYSPDGR</b>       | 3,14 | 2 | 2,89  | 1426,59 |
| OS=Sistrurus catenatus edwardsii                 |        |       | VCSNGHCVDVATAY            | 2,54 | 2 | 3,36  | 1552,65 |
|                                                  |        |       | GAGTECRAAKDDCDMADVCTGR    | 1,79 | 3 | -3,01 | 2415,96 |
| Group III snake venom metalloproteinase          | E9KJX7 | 7,15  | IPCAPEDVK                 | 2,6  | 2 | 2,67  | 1028,51 |
| OS=Echis ocellatus                               |        |       | KIPCAPEDVK                | 2,24 | 2 | 3,43  | 1156,6  |
|                                                  |        |       | <b>GLFSEDYSETHYSPDGR</b>  | 2,31 | 3 | 4,06  | 1959,84 |
| Metalloproteinase isoform 7                      | B0VXU9 | 6,67  | <b>ASQSNLTPEQQR</b>       | 3,11 | 2 | 2,7   | 1358,66 |
| OS=Sistrurus catenatus edwardsii                 |        |       | GAGTECRAAKDDCDMADVCTGR    | 1,79 | 3 | -3,01 | 2415,96 |
|                                                  |        |       | NMPQCILK                  | 1,76 | 2 | 3,74  | 1019,5  |
| Zinc metalloproteinase-disintegrin jerdonitin    | P83912 | 4,99  | <b>DYSETHYSPDGR</b>       | 3,14 | 2 | 2,89  | 1426,59 |
| OS=Protobothrops jerdonii                        |        |       | LTPGSQCADGLCCDQCR         | 1,84 | 2 | 3,27  | 1997,79 |
| Phospholipase A2 BnSP-7                          | Q9IAT9 | 4,82  | TIVCGENNPCLK              | 2,21 | 2 | 1,91  | 1404,66 |
| OS=Bothropoides pauloensis                       |        |       | SYGAYGCNCGVLGR            | 2,61 | 2 | 3,13  | 1533,66 |
| Phospholipase A2 homolog 2                       | P24605 | 4,82  | SYGAYGCNCGVLGR            | 2,61 | 2 | 3,13  | 1533,66 |
| OS=Bothrops asper                                |        |       | TIVCGENNSCLK              | 2,21 | 2 | 3,14  | 1394,64 |
| Group III snake venom metalloproteinase          | E9KJZ6 | 4,44  | IPCAPEDVK                 | 2,6  | 2 | 2,67  | 1028,51 |
| OS=Echis ocellatus                               |        |       | TDIVSPPVCGNELLEK          | 1,84 | 2 | 2,56  | 1770,89 |

| Band 4 of venom samples collected 10 days after stimulus for venom production (~ 37 kDa) |                  |         |                                  |                    |   |        |                      |
|------------------------------------------------------------------------------------------|------------------|---------|----------------------------------|--------------------|---|--------|----------------------|
| Protein                                                                                  | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
| Snake venom serine protease homolog OS=Bothrops jararacussu                              | Q7T229           | 11,49   | IMGWGTISPTK                      | 2,87               | 2 | 1,14   | 1206,62              |
|                                                                                          |                  |         | SIIAGNTDVTCP                     | 2,35               | 2 | 0,96   | 1344,64              |
|                                                                                          |                  |         | VSDYTEWIR                        | 2,19               | 2 | 0,77   | 1168,56              |
|                                                                                          |                  |         | TLCAGILEGGK                      | 2,16               | 2 | 0,95   | 1118,58              |
|                                                                                          |                  |         | WDKDIMLIR                        | 1,92               | 3 | -0,54  | 1205,63              |
| Zinc metalloproteinase BITM02A OS=Bothrops insularis                                     | Q8QG89           | 7,67    | LQGETYLIEPLK                     | 2,83               | 2 | 1,23   | 1403,77              |
|                                                                                          |                  |         | ASQSNLTPEHQR                     | 2,55               | 3 | -1     | 1367,66              |
|                                                                                          |                  |         | FENVEKEDEAPK                     | 2,29               | 3 | -0,24  | 1434,67              |
| Zinc metalloproteinase-disintegrin scutiarin OS=Crotalus scutulatus scutulatus           | A2CJE2           | 7,29    | NPCCDAATCK                       | 2,57               | 2 | -0,17  | 1196,44              |
|                                                                                          |                  |         | IPCAPEDVK                        | 1,82               | 2 | 2,43   | 1028,51              |
|                                                                                          |                  |         | GNYYGYCR                         | 1,47               | 2 | 2,57   | 1052,42              |
|                                                                                          |                  |         | GMVLPGTK                         | 1,43               | 2 | 1,16   | 818,44               |
| Platelet-aggregating proteinase PA-BJ OS=Bothrops jararaca                               | P81824           | 6,71    | INILDHAVCR                       | 2,66               | 2 | 0,4    | 1210,63              |
|                                                                                          |                  |         | LGVHSIK                          | 2,12               | 2 | -4,7   | 753,45               |
|                                                                                          |                  |         | KPALYTK                          | 1,94               | 2 | -0,91  | 820,49               |
| Snake venom serine protease HS114 OS=Bothrops jararaca                                   | Q5W959           | 5,31    | IMGWGSITPIQK                     | 2,88               | 2 | 1,11   | 1346,71              |
|                                                                                          |                  |         | NDDALDKDLMLVR                    | 2,43               | 3 | 0,43   | 1533,75              |
| Batroxstatin-2 OS=Bothrops atrox                                                         | C5H5D3           | 3,58    | DECDMADLCTGR                     | 2,14               | 2 | 2,42   | 1458,53              |
|                                                                                          |                  |         | GMVLPGTK                         | 1,43               | 2 | 1,16   | 818,44               |
| Band 5 of venom samples collected 10 days after stimulus for venom production (~ 17 kDa) |                  |         |                                  |                    |   |        |                      |
| Protein                                                                                  | Accession number | Score** | Identified peptides <sup>†</sup> | XCorr <sup>‡</sup> | z | ΔM ppm | MH <sup>+</sup> (Da) |
| Bothroinsularin subunit alpha OS=Bothrops insularis                                      | P0C929           | 16,99   | WSDGSSVSYENVVGR                  | 4,02               | 2 | 0,75   | 1641,75              |
|                                                                                          |                  |         | MNWADAER                         | 2,47               | 2 | 0,04   | 1008,42              |
|                                                                                          |                  |         | MNWADAER                         | 2,35               | 2 | -0,47  | 992,42               |
|                                                                                          |                  |         | CFALEK                           | 1,54               | 2 | -1,45  | 767,37               |
|                                                                                          |                  |         | IQSSDLYAWIGLR                    | 3,32               | 2 | 3,46   | 1521,81              |
|                                                                                          |                  |         | DCPSDWSPYGQCYK                   | 3,29               | 2 | -2,96  | 1925,74              |
| Phospholipase A2 BnSP-7 OS=Bothropoides pauloensis                                       | Q9IAT9           | 16,4    | SYGAYGCNCGVLGR                   | 2,99               | 2 | -5,63  | 1533,64              |
|                                                                                          |                  |         | TIVCGENNPCLK                     | 3,38               | 2 | 3,74   | 1404,66              |
|                                                                                          |                  |         | MILQETGK                         | 2,03               | 2 | 0,11   | 935,48               |
|                                                                                          |                  |         | ENLGTYNK                         | 1,88               | 2 | 0,59   | 938,45               |
|                                                                                          |                  |         | AVAICLR                          | 1,6                | 2 | 0,1    | 802,46               |
|                                                                                          |                  |         | YHLKPFCK                         | 2,28               | 3 | 1,28   | 1092,56              |
|                                                                                          |                  |         | MILQETGKNPAK                     | 2,25               | 3 | 2,85   | 1345,71              |
| Zinc metalloproteinase OS=Bothrops insularis                                             | Q8QG89           | 11,28   | KTDLLNR                          | 2,06               | 2 | 0,48   | 859,5                |
|                                                                                          |                  |         | ENPQCILNK                        | 2,04               | 2 | 0,57   | 1115,55              |
|                                                                                          |                  |         | KSHDNAQLLTNTDFDGPTIGLAYVGTMCDPK  | 2,65               | 4 | 2,92   | 3395,59              |
|                                                                                          |                  |         | KTDLLNRK                         | 2,39               | 3 | 1,95   | 987,59               |
|                                                                                          |                  |         | IHQMVNIMK                        | 2,13               | 3 | 1,63   | 1145,58              |
| Bothroinsularin subunit beta OS=Bothrops insularis                                       | P0C930           | 9,6     | FEWSDGSDLSYK                     | 3,24               | 2 | 0,93   | 1433,62              |
|                                                                                          |                  |         | MNWEDAER                         | 2,04               | 2 | -0,28  | 1022,42              |
|                                                                                          |                  |         | LEYFVCEFQA                       | 2,37               | 2 | 3,95   | 1305,58              |
|                                                                                          |                  |         | DCPPDWSSYEGSCYR                  | 1,96               | 2 | 3,13   | 1878,71              |
| Phospholipase A2 2                                                                       | P84397           | 9,28    | CCYVHDCCYGK                      | 3,19               | 3 | 0,86   | 1521,53              |

|                                                |        |      |                     |      |   |       |         |
|------------------------------------------------|--------|------|---------------------|------|---|-------|---------|
| OS=Bothrops insularis                          |        |      | VAALCFQDNK          | 3,02 | 2 | 1,35  | 1165,56 |
|                                                |        |      | LDLYTYSK            | 1,67 | 2 | 0,57  | 1002,51 |
|                                                |        |      | NLWQFGR             | 1,39 | 2 | 0,12  | 920,47  |
| MP_Ila SVM                                     | E3UJM0 | 7,96 | LRPGAQCAEGLCCDQCR   | 5,23 | 3 | 1,95  | 2050,87 |
| OS=Bothrops neuwiedi                           |        |      | <b>ASQSNLTPEQQR</b> | 2,73 | 2 | 1,98  | 1358,66 |
| C-type lectin 6                                | F8S0Z0 | 5,56 | FTSMWIGLK           | 2,18 | 2 | -0,38 | 1098,56 |
| OS=Crotalus adamanteus                         |        |      | RPYCTVMVVK          | 1,84 | 2 | 1,88  | 1268,65 |
|                                                |        |      | RPYCTVMVVK          | 1,54 | 2 | 0,77  | 1252,65 |
| Zinc metalloproteinase-disintegrin catroriarin | A2CJE4 | 4,22 | IPCAPEDVK           | 2,13 | 2 | 4,21  | 1028,51 |
| OS=Crotalus atrox                              |        |      | NPCCDAATCK          | 2,09 | 2 | 1,16  | 1196,45 |