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{
  "id": "obj.1277",
  "name": "Human[tax:9606] CAG repeats[S0:0000726] detection for Huntington`s
disease[D0ID:12858]",
  "version": "1.0",
  "createdby": "hadley_king@gwmail.gwu.edu",
  "created": "Jan 26, 2017 17:44:38",
  "modified": "Mar 03, 2017 10:16:14",
  "digital_signature": "QdB7vu4rLeLtMFmPHQ9S",
  "verification_status": "unreviewed",
  "publication_status": "draft",
  "usability_domain": [
    "Determine CAG repeats[S0:0000726] in a sequence for the diagnosis of
    Huntingtons disease[ICD:G10] for htt gene[G0ID:G0272344]: 10 – 35 CAG
    trinucleotide repeats: No Risk, 36 – 40 CAG trinucleotide repeats:
    Moderate Risk, 40 CAG trinucleotide repeats: High Risk"
  ],
  "authors": [
    {
      "orchid": "0000-0002-9920-565X"
    }
  ],
  "description_domain": {
    "keywords": [
      "disease",
      "human disease"
    ],
    "xref": [
      "S0:0000726",
      "tax:9606",
      "D0ID:12858",
      "G0ID:G0272344",
      "ICD:G10"
    ]
  },
  "pipeline_steps": [
    {
      "tool_name": "HIVE_hexagon",
      "tool_desc": "Alignment of reads to a set of references",
      "tool_version": "1.3",
      "tool_package": "null",
      "step_number": "1",
      "input_uri_list": [
        "hive://nuc-read/514683",
        "hive://nuc-read/514682",
        "http://www.ncbi.nlm.nih.gov/nuccore/SRR2028290",
        "http://www.ncbi.nlm.nih.gov/nuccore/NM_000211.8"
      ],
      "output_uri_list": [
        "hive://data/509234/allCount-aligned.csv"
      ]
    }
  ]
}

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    },
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        "tool_desc": "variant calling",
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        "tool_package": "null",
        "step_number": "2",
        "input_uri_list": [
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        "output_uri_list": [
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]
},
"execution_domain": {
    "script": "hive://workflows/huntingtons_disease_detection.hwf",
    "pipeline_version": "1.0",
    "pipeline_url": "https://hive.biochemistry.gwu.edu/workflows/",
    "platform": "HIVE",
    "driver": "hive://hive-driver",
    "prerequisites": [
        "{\"name\":\"HIVE_hexagon\",\"version\":\"\"}",
        "{\"name\":\"HIVE_heptagon\",\"version\":\"1.3\"}"
    ],
    "env_parameters": [
        "HIVEv1.3"
    ]
},
"parametric_domain": {
    "divergence_threshold_percent": "10",
    "alignment_seed": "14 letters",
    "alignment_min_match_len": "50",
    "variant_calling_min_coverage": "20",
    "variant_calling_frequency_cutoff": "0.2"
},
"io_domain": {
    "reference_uri_list": [
        "http://www.ncbi.nlm.nih.gov/nuccore/SRR2028290",
        "http://www.ncbi.nlm.nih.gov/nuccore/NM\_0002111.8"
    ],
    "input_uri_list": [
        "hive://nuc-read/514683",
        "hive://nuc-read/514682"
    ],
    "output_uri_list": [
        "hive://data/509234/SNPProofile.csv"
    ]
},
"error_domain": [

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    "false positive discovery <= 0.05",  
    "false negative discovery <= 0.10"  
  ]  
}
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