

Character Annotation Assessment from Phenoscape (Chakrabarty 2007)

Welcome to the Phenoscape Character Annotation Survey

We recently conducted an experiment involving systematic characters, where we compared the performance of a Natural Language Processing (NLP) system relative to the markup by humans. Characters from one of your publications (Chakrabarty, 2007) were randomly chosen for inclusion in this dataset. We are using a variety of metrics to assess the quality of machine vs. human curation, but your feedback as the author of the characters will provide insight into how well the meaning of each is represented in the annotations.

We use an ontology-based representation to annotate systematic characters, in which ontology terms for [anatomical structures](#) such as [eye](#) or [vertebra](#) are combined with [quality terms](#) representing a trait or property that a structure possesses, such as [round](#) or [silver](#). Thus a character state that you may have described as "eyes, round" would be annotated as '[eye](#), [round](#)'. Sometimes multiple structures are related to each other; for example, '[parietal](#), [fused with](#) a [supraoccipital](#)'. Finally, terms can be combined to create more specific terms (post-composition). For example, the presence of a projection on the parietal bone is represented as: '[projection](#) that is part_of a [parietal](#), [present](#)'. (Background information - not essential for completing the survey - on the syntax and standards used for character annotation can be found on the [Phenoscape wiki](#), and ontology terms can be searched on [Ontobee](#)).

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Character Annotation Assessment from Phenoscope (Chakrabarty 2007)

1. Character 52: Midbody spot

State 0: present below upper lateral line

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	melanophore spot that is in _median_plane_ of a multi-cellular organism, ventral to, an upper lateral line
<input type="text"/>	midbody spot that is ventral_to a lateral line, present
<input type="text"/>	midbody melanophore spot, ventral to, an upper lateral line
<input type="text"/>	melanophore spot, ventral to, an upper lateral line
<input type="text"/>	midbody spot that is part_of an upper lateral line, present

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Character Annotation Assessment from Phenoscope (Chakrabarty 2007)

2. Character 38: Gill rakers on ceratobranchial of first gill arch (most rostral arch) protrude over medial ridge of arch

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

gill raker that is part_of a ceratobranchial 1 element and that is a bearer_of protruding, absent

gill raker that is part_of a ceratobranchial 1 element, position not protrude over, a medial region that is part_of a pharyngeal arch 3

gill raker that is part_of a ceratobranchial 1 element that is part_of a pharyngeal arch 3, position not protruding into, a medial region that is part_of a pharyngeal arch 3

pharyngeal arch 3, position not protruding into, a medial region that is part_of an anatomical projection

gill raker that is part_of a ceratobranchial 1 element, position that is not protruding, a medial region that is part_of a pharyngeal arch 3

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3. Character 57: Cheek scales covered in thick skin i.e., skin is so thick that scales cannot be counted without removing the skin

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	dermal scale that is deep_to skin of cheek, present
<input type="text"/>	<input type="text"/>	zone of skin that is a bearer_of increased thickness, present
<input type="text"/>	<input type="text"/>	cheek scale, covered by, a zone of skin
<input type="text"/>	<input type="text"/>	zone of skin that is dorsal_to a scale, and that is part_of a cheek, increased thickness
<input type="text"/>	<input type="text"/>	zone of skin that is adjacent_to a cheek scale, increased thickness

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4. Character 32: Tooth cusps on lower pharyngobranchial toothplate

State 0: unicuspid (simple teeth)

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	cuspid of tooth that is part_of a pharyngobranchial tooth plate that is part_of a skeleton of lower jaw, unicuspid
<input type="text"/>	calcareous tooth that attaches_to a lower pharyngobranchial toothplate, unicuspidate
<input type="text"/>	cuspid of tooth that is part_of a pharyngobranchial tooth plate, unicuspid
<input type="text"/>	cuspid of tooth that is part_of a lower pharyngobranchial toothplate, unicuspid
<input type="text"/>	calcareous tooth that attaches_to a lower pharyngobranchial toothplate, conical

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5. Character 72: Mouth length, including maxillary shank

State 1: not reaching vertical through rostral margin of orbit

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	mouth, separated from, an anterior region that is part_of an orbital cavity
<input type="text"/>	mouth that has_part maxillary shank, decreased length; mouth, position that does not extends to, an anterior margin that is part_of an orbit
<input type="text"/>	mouth that has_part maxillary shank, position that does not extends to, an anterior margin that is part_of an orbit; mouth, decreased length
<input type="text"/>	mouth, separated from, an anterior region that is part_of an orbit
<input type="text"/>	mouth that is a bearer_of present, contact, a vertical myoseptum

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6. Character 1: Symphysial-extension of alveolar-process of premaxilla

State 1: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	anatomical projection that is part_of a premaxilla dentigerous process, absent
<input type="text"/>	<input type="text"/>	premaxilla dentigerous process, size that is not increased size
<input type="text"/>	<input type="text"/>	premaxilla dentigerous process, decreased size
<input type="text"/>	<input type="text"/>	premaxilla dentigerous process, count that is not present
<input type="text"/>	<input type="text"/>	anatomical projection that is part_of an upper jaw symphyseal region that is part_of a premaxilla dentigerous process, absent

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7. Character 85: Sensory pores directly posterior to the orbit

State 0: form continuous clump of pores from orbit to opening of operculum

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	sensory pore that is posterior_to an orbital region, continuous (structure)
<input type="text"/>	<input type="text"/>	sensory pore that extends_from an orbit, and that extends_to a gill opening
<input type="text"/>	<input type="text"/>	sensory canal pore series that is posterior_to an orbit, high spatial distribution
<input type="text"/>	<input type="text"/>	sensory pore that is posterior_to an orbital region, continuous with, a gill opening
<input type="text"/>	<input type="text"/>	sensory pore that is posterior_to an orbit, variant

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8. Character 7: Retroarticular and process of anguloarticular on same vertical plane

State 0: No

Drag and drop the following choices in order of preference, with your top choice in the first position.

retroarticular process, misaligned with, an anatomical projection that is part_of a articular/anguloarticular

retroarticular that is part_of a articular/anguloarticular, count that is not present

retroarticular, position that is not aligned with, an anatomical projection that is part_of a articular/anguloarticular

retroarticular, position that is not aligned vertically with, an anatomical projection that is part_of a articular/anguloarticular

retroarticular, position that is not level with, an articular/anguloarticular

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9. Character 55: Caudal spot expansion

State 1: caudal spot continues across caudal-peduncle as part of a horizontal band

Drag and drop the following choices in order of preference, with your top choice in the first position.

melanophore spot that is a part_of a caudal fin, present; melanophore spot that is a part_of a caudal peduncle, present

caudal spot, present; caudal peduncle, present

multi-cellular organism that is a bearer_of a melanophore spot, extends to, a caudal peduncle

caudal melanophore spot, extends to, a caudal peduncle

melanophore spot that is a part_of a caudal fin, and that is a part_of a caudal peduncle, present; melanophore spot that is part of a caudal fin, and that is part of a caudal peduncle, present

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10. Character 60: Chest scales

State 1: without thick skin

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	skin of body that is dorsal_to a scale, and that attaches_to a chest, decreased depth
<input type="text"/>	skin of body that is dorsal_to a scale, and that is part_of a chest, shape that is not increased thickness
<input type="text"/>	scale that attaches_to an antero-ventral region that is part_of a multi-cellular organism, position that is not covered by, a zone of skin
<input type="text"/>	scale that attaches_to an antero-ventral region that is a part_of a multicellular organism, position that is not overlapped by, a zone of skin that is a bearer_of increased thickness
<input type="text"/>	zone of skin that is a bearer_of increased thickness, present

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Character Annotation Assessment from Phenoscape (Coates and Sequeira 2001)

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Character Annotation Assessment from Phenoscope (Coates and Sequeira 2001)

1. Character 82: Broad suborbital shelf

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	suborbital shelf, shape that is not increased width
<input type="text"/>	<input type="text"/>	suborbital shelf that is a bearer_of broad, absent
<input type="text"/>	<input type="text"/>	anatomical projection that is a bearer_of increased width, absent
<input type="text"/>	<input type="text"/>	suborbital bone that has_part anatomical projection and that is bearer_of broad, absent
<input type="text"/>	<input type="text"/>	suborbital shelf, shape that is not broad

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Character Annotation Assessment from Phenoscope (Coates and Sequeira 2001)

2. Character 30: Dibasal pectoral-fin endoskeleton

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	propterygium, absent; metapterygium, absent
<input type="text"/>	<input type="text"/>	endoskeleton that is a part_of a pectoral fin, absent
<input type="text"/>	<input type="text"/>	pectoral fin skeleton, structure
<input type="text"/>	<input type="text"/>	basal side that is a part_of a pectoral fin skeleton, undivided
<input type="text"/>	<input type="text"/>	pectoral fin skeleton, shape that is not dibasal

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3. Character 39: Pelvic plate semicircular with anterolateral concavity

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

pelvic plate that is a bearer_of semicircular, present; bone fossa that is a part_of a pelvic plate, present

pelvic plate, semicircular; antero-lateral region that is a part_of a pelvic plate, concave

pelvic plate, semicircular; bone fossa that is a part_of an antero-lateral region that is a part_of a pelvic plate, present

pelvic plate, semicircular

basipterygium element, semicircular; antero-lateral region that is a part_of a basipterygium element, concave

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4. Character 51: Palatoquadrate otic process expanded with an anterodorsal angle

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	otic process that is a bearer_of increased size, present; otic process that is a bearer_of angle, present
<input type="text"/>	otic process, increased size; otic process, anterodorsal angle
<input type="text"/>	otic process, increased size; otic process, anterodorsal orientation
<input type="text"/>	otic process, increased size, an antero-dorsal region; anatomical entity that is a part_of a palatoquadrate cartilage, distended
<input type="text"/>	otic process that is a part_of a palatoquadrate cartilage, increased size

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5. Character 74: Endolymphatic ducts exit into slot-shaped median fossa

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	endolymphatic duct that extends_to a bone fossa that is a bearer_of slot-shaped, present
<input type="text"/>	<input type="text"/>	endolymphatic duct, protruding out of, a bone fossa that is a bearer_of slit-like
<input type="text"/>	<input type="text"/>	endolymphatic duct, exit into, a bone fossa that is a bearer_of slot-shaped
<input type="text"/>	<input type="text"/>	bone fossa that is adjacent_to a endolymphatic duct, slot-shaped
<input type="text"/>	<input type="text"/>	median region that is a part_of a bone fossa and bearer_of slot-shaped, present

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6. Character 18: Anal fin with double base-plate

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	anal fin basal cartilage, bipartite
<input type="text"/>	<input type="text"/>	anal fin radial, count, 2
<input type="text"/>	<input type="text"/>	anal fin base plate, structure
<input type="text"/>	<input type="text"/>	double base-plate that is a part_of an anal fin, present
<input type="text"/>	<input type="text"/>	anal fin, present

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7. Character 67: Glossopharyngeal nerve foramen exits dorsally, posterior to otic capsule

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	glossopharyngeal nerve foramen, posterior to, an otic capsule
<input type="text"/>	foramen for glossopharyngeal nerve, posterior to, an otic capsule
<input type="text"/>	anatomical conduit that encloses a glossopharyngeal nerve and is posterior_to an otic capsule, present; anatomical conduit that encloses a glossopharyngeal nerve and is dorsal_to an otic capsule, present
<input type="text"/>	foramen for glossopharyngeal nerve that is posterior_to an otic capsule, present
<input type="text"/>	foramen for glossopharyngeal nerve, exits through, a dorsal region that is posterior_to an otic capsule

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8. Character 3: Lateral line passes through scales

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	scale that encloses a lateral line, present
<input type="text"/>	<input type="text"/>	lateral line, passes through, a scale
<input type="text"/>	<input type="text"/>	lateral line that passes through a scale, present
<input type="text"/>	<input type="text"/>	lateral line that is a part of a scale, present
<input type="text"/>	<input type="text"/>	lateral line, surrounded by, a scale

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Character Annotation Assessment from Phenoscope (Coates and Sequeira 2001)

9. Character 47: Claspers with 'toothed' plate

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	clasper, structure that is not dentated
<input type="text"/>	<input type="text"/>	clasper, structure
<input type="text"/>	<input type="text"/>	clasper plate, absent
<input type="text"/>	<input type="text"/>	clasper that is a bearer_of dentated, absent
<input type="text"/>	<input type="text"/>	clasper, count that is not present

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10. Character 17: Anal fin supported by radials external to body wall

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	anal fin radial, position that is not external to, a body wall
<input type="text"/>	<input type="text"/>	anal fin, count that is not present
<input type="text"/>	<input type="text"/>	anal fin radial that extends_to a fin, absent
<input type="text"/>	<input type="text"/>	anal fin radial skeleton, position that is not external to, a body wall
<input type="text"/>	<input type="text"/>	radial that is distal_to a body wall, separated from, an anal fin

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Character Annotation Assessment from Phenoscape (Conrad 2008)

1. Character 247: Sacral vertebrae, functional (DeBC-72)

State 0: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	rib that is connected_to a sacrum, in contact with, an ilium
<input type="text"/>	<input type="text"/>	sacral vertebra that is connected_to an ilium, present
<input type="text"/>	<input type="text"/>	sacral vertebra, attached to, an ilium
<input type="text"/>	<input type="text"/>	functional sacral vertebrae, present
<input type="text"/>	<input type="text"/>	sacral vertebra, functional

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2. Character 307: Osteoderms, ventral surface of the body (E126)

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	bony plate that is a part_of a ventral region that is a part_of a multi-cellular organism, absent
<input type="text"/>	scute that attaches_to a ventral region that is part_of a multicellular organism, absent
<input type="text"/>	bony plate that is part_of a ventral surface that is part_of a multi-cellular organism, absent
<input type="text"/>	ventral surface that is a part_of a multi-cellular organism, count that is not present
<input type="text"/>	scute that attaches_to a ventral surface that is a part_of a multi-cellular organism, absent

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3. Character 131: Braincase, occipital condyle (Egek9)

State 2: single unit made of basioccipital and exoccipitals; U-shaped

Drag and drop the following choices in order of preference, with your top choice in the first position.

occipital condyle, amalgam of, a basioccipital bone; occipital condyle, amalgam of, a exoccipital bone; occipital condyle, U-shaped

occipital condyle that is a part_of a neurocranium, present; occipital condyle that is a part_of a neurocranium, single; occipital condyle that is a part_of a neurocranium, U-shaped

occipital condyle, unipartite; occipital condyle, U-shaped; occipital condyle, composed of, a exoccipital bone; occipital condyle, composed of, a basioccipital bone

basioccipital bone that is a part_of a occipital condyle, present; exoccipital bone that is a part_of a occipital condyle, present; occipital condyle, U-shaped

occipital condyle, undivided; occipital condyle, U-shaped; occipital condyle, composition, a exoccipital bone; occipital condyle, composition, a basioccipital bone

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4. Character 114: Palatine, secondary palate formed around choanal groove (E43)

State 3: contact at midline

Drag and drop the following choices in order of preference, with your top choice in the first position.

secondary palate that is adjacent_to a midline of skull, in contact with, a choanal groove that is adjacent_to a midline of skull

secondary palate, present; secondary palatal shelf that is in_left_side_of a multi-cellular organism, in contact with, a secondary palatal shelf that is in_right_side_of a multi-cellular organism

secondary palate that is in_left_side_of a multicellular organism, in contact with, a secondary palate that is in_right_side_of a multicellular organism

palatine bone, in contact with, a midline column; secondary palate that is a bearer_of formed, in contact with, a midline plane

secondary palate, in contact with, a secondary palate

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5. Character 146: Basisphenoid, relationship with the posterior opening of the Vidian canal (E53)

State 2: within prootic

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	anatomical conduit that is a part_of a vidian canal, located in, a prootic bone; anatomical conduit that is a part_of a vidian canal, position that is not located in, a basisphenoid bone
<input type="text"/>	basisphenoid bone that is a bearer_of present, present
<input type="text"/>	anatomical conduit that is a part_of a vidian canal, located in, a prootic bone
<input type="text"/>	posterior region that is a part_of a vidian canal that is a part_of a prootic bone, present
<input type="text"/>	posterior region that is a part_of a vidian canal, extends to, a prootic bone

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Character Annotation Assessment from Phenoscape (Conrad 2008)

6. Character 249: Caudal vertebrae, dorsoventral height (including the neural spines and chevrons) (Bm-oid9)

State 1: greater than 3 times length of centrum

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	caudal vertebra, decreased height
<input type="text"/>	caudal vertebra, increased height, vertebral column
<input type="text"/>	caudal vertebra, height that is increased_in_magnitude_relative_to a length that inheres_in a caudal vertebra
<input type="text"/>	dorsoventral region that is a part_of a caudal vertebra, decreased height
<input type="text"/>	caudal vertebra that has_part spinous process of vertebra and that has_part a hemal arch, height that is increased_in_magnitude_relative_to a length that inheres in a vertebral column

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Character Annotation Assessment from Phenoscape (Conrad 2008)

7. Character 298: Squamation, cephalic scales (E147/Meszo70)

State 2: enlarged plates

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	cephalic dermal scale, increased size; cephalic dermal scale, platelike
<input type="text"/>	<input type="text"/>	scale that attaches_to a head, increased size; scale that attaches_to a head, platelike
<input type="text"/>	<input type="text"/>	cephalic scale, increased size
<input type="text"/>	<input type="text"/>	dermal scale that attaches_to a head, increased size; dermal scale that attaches_to a head, platelike
<input type="text"/>	<input type="text"/>	cephalic scale that is a bearer_of platelike and cephalic scale that is a bearer_of increased size, present

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Character Annotation Assessment from Phenoscape (Conrad 2008)

8. Character 265: Scapula, size relative to the coracoid ()

State 0: subequal to, or larger than

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	scapula, increased size, coracoid bone; scapula, equal length, coracoid bone
<input type="text"/>	scapula, increased size, coracoid bone; scapula, subequal size to, coracoid bone
<input type="text"/>	pectoral fin scapula, size
<input type="text"/>	scapula, increased size, coracoid bone; scapula, size that is similar_in_magnitude_relative_to a coracoid bone
<input type="text"/>	scapula, increased size, coracoid bone; scapula, size that is similar_in_magnitude_relative_to a size that inheres_in a coracoid bone

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Character Annotation Assessment from Phenoscope (Conrad 2008)

9. Character 80: Parietal, supratemporal processes length from the level of the parietal notch compared to the parietal anterior to that point (G30)

State 0: greater than 1/2

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	supratemporal process, increased length
<input type="text"/>	supratemporal process, decreased length, an anterior region that is part_of a tetrapod parietal bone
<input type="text"/>	supratemporal process that is adjacent_to a parietal notch, increased length, an anatomical region that is part_of a tetrapod parietal bone and that is anterior_to a parietal notch
<input type="text"/>	supratemporal process, decreased length
<input type="text"/>	supratemporal process, increased length, an anterior region that is part_of a tetrapod parietal bone and anterior_to a parietal notch

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Character Annotation Assessment from Phenoscape (Conrad 2008)

10. Character 221: Dentition, replacement (E85)

State 1: posterolingually, resorption pit

Drag and drop the following choices in order of preference, with your top choice in the first position.

resorption pit, present; tooth replacement, position, posterolingual region that is a part_of a jaw skeleton

replacement tooth, posteriorly rotated; replacement tooth, lingual orientation; resorption pit, present

resorption pit, present; odontogenesis that occurs_in a posterolingual region that is a part_of a jaw region, present

dentition, present; endoskeleton replacement, present

resorption pit, decreased size; replacement tooth, posterolingual

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Character Annotation Assessment from Phenoscope (Hill 2005)

1. Character 322: Pitting on dorsal osteoderms

State 3: mixture of subspherical and elongate pits

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/> bony plate that is a part_of dorsal surface, pitted; pit, subspherical; pit, elongated
<input type="text"/>	dorsal osteoderm that is a bearer_of pitted, surface feature shape
<input type="text"/>	scute that is a bearer_of ornamentation, subspherical; scute that is a bearer_of ornamentation, elongated
<input type="text"/>	dorsal osteoderm, present; pit that is a bearer_of subspherical, present; pit that is a bearer_of elongated, present
<input type="text"/>	dorsal osteoderm, foveate; pit that is a part_of a dorsal osteoderm, subspherical; pit that is a part_of a dorsal osteoderm, elongated

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Character Annotation Assessment from Phenoscope (Hill 2005)

2. Character 343: Peaked caudal keel (heightened relative to dorsal keels)

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	keel that is a part_of a caudal vertebra, increased height, a keel that is a part_of a thoracic vertebra
<input type="text"/>	keel that is a part_of a posterior region that is a part_of a scute, increased height, a keel that is a part_of a dorsal region that is a part_of a scute
<input type="text"/>	caudal keel, increased size, a dorsal keel
<input type="text"/>	caudal keel, present
<input type="text"/>	caudal keel, increased height, a dorsal keel

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Character Annotation Assessment from Phenoscope (Hill 2005)

3. Character 85: Posterior extension of orbit

State 1: present - orbit has elongated oval shape

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/> orbit, elliptic
<input type="text"/>	<input type="text"/> orbital region, ovate
<input type="text"/>	<input type="text"/> orbit, ovate
<input type="text"/>	<input type="text"/> extension that is a part_of a posterior region and a part_of an orbit, present
<input type="text"/>	<input type="text"/> orbital cavity, ovate

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Character Annotation Assessment from Phenoscope (Hill 2005)

4. Character 30: Origin of subclavian arteries

State 2: subclavian arteries originate anterior to separation of internal and external carotids

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	subclavian artery, anterior to, a carotid
<input type="text"/>	subclavian artery, originate from, an anatomical region and anterior_to internal carotid and anterior_to external carotid
<input type="text"/>	subclavian artery, position, an internal carotid artery; subclavian artery, position, external carotid artery
<input type="text"/>	subclavian artery, present; external carotid, present
<input type="text"/>	subclavian artery, anterior to, a point of separation of internal and external carotids

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Character Annotation Assessment from Phenoscope (Hill 2005)

5. Character 314: Central figure and surrounding segments on dorsal osteoderms

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

central figure that is a part_of a dorsal osteoderm, present; organismal segment that is a part_of a dorsal osteoderm, present

scute that is a bearer_of ornamentation, present

central figure of scute, present; organ segment that is a part_of a scute, present

bony plate that is a part_of a dorsal surface and that is a part_of a multi-cellular organism, shape

central figure, surrounding, an organismal segment; central figure, surrounding, a dorsal osteoderm

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Character Annotation Assessment from Phenoscape (Hill 2005)

6. Character 190: Retroarticular process

State 1: transversely broad, dorsally concave

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	dorsal region that is a part_of a retroarticular process, concave; retroarticular process, transversely broad
<input type="text"/>	retroarticular process, increased width; retroarticular process, concave
<input type="text"/>	dorsal region that is a part_of a retroarticular process, concave; retroarticular process, broad
<input type="text"/>	retroarticular process, broad; retroarticular process, concave
<input type="text"/>	retroarticular process, decreased width; retroarticular process, concave

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Character Annotation Assessment from Phenoscope (Hill 2005)

7. Character 204: Anterior part of dentary

State 0: with teeth

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	calcareous tooth, present; anterior side that is a part_of a dentary, present
<input type="text"/>	<input type="text"/>	anterior region that is a part_of a dentary, dentated
<input type="text"/>	<input type="text"/>	calcareous tooth that attaches_to an anterior region that is a part_of a dentary, present
<input type="text"/>	<input type="text"/>	dentition that attaches_to an anterior region that is part_of a dentary, present
<input type="text"/>	<input type="text"/>	calcareous tooth that is a part_of an anterior region that is a part_of a dentary, present

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Character Annotation Assessment from Phenoscope (Hill 2005)

8. Character 215: Cervical ribs

State 0: straight and extending posterolaterally, without anterior process

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	body of rib, parallel to, a vertebral centrum; cervical rib, plowshare-shaped
<input type="text"/>	cervical rib, plowshare-shaped; body of rib that is a part_of a cervical rib, parallel to, a vertebral centrum
<input type="text"/>	rib that is a part_of a cervical vertebra, parallel to, a vertebral centrum that is a part_of a cervical vertebra
<input type="text"/>	cervical rib, crescent-shaped; cervical rib that has_part a diaphysis, parallel to, a vertebral centrum
<input type="text"/>	anatomical projection that is a part_of an anterior region part_of a cervical rib, absent; cervical rib, straight; cervical rib, posterolateral orientation

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Character Annotation Assessment from Phenoscape (Hill 2005)

9. Character 124: Interpterygoid vacuity length

State 2: long; at least 15% of skull length

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	interpterygoid vacuity, increased length, a skull
<input type="text"/>	<input type="text"/>	interpterygoid vacuity, increased length; interpterygoid vacuity, decreased length
<input type="text"/>	<input type="text"/>	interpterygoid vacuity, increased length; interpterygoid vacuity, length, a skull
<input type="text"/>	<input type="text"/>	interpterygoid vacuity, increased size
<input type="text"/>	<input type="text"/>	interpterygoid vacuity, increased length

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Character Annotation Assessment from Phenoscape (Hill 2005)

10. Character 248: Supinator process

State 0: large, strongly angled relative to shaft, separated from it by groove

Drag and drop the following choices in order of preference, with your top choice in the first position.

supinator process, increased size; groove that is adjacent_to a humerus diaphysis and that is adjacent_to a supinator process, present; supinator process, strongly angled relative to, a humerus diaphysis

supinator process, increased size; surface groove that is adjacent_to a humerus diaphysis and that is adjacent_to a supinator process, present; supinator process, angle, a humerus diaphysis

supinator process, increased size; supinator process, separated from, a humerus diaphysis; supinator process, acute angle, a humerus diaphysis

supinator process, increased size; supinator process in_left_side_of a multicellular organism, angle, a supinator process in_right_side_of a multicellular organism; supinator process, present

supinator process, increased size; supinator process, separated from, a humerus diaphysis; supinator process, increased angle, a humerus diaphysis

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Character Annotation Assessment from Phenoscape (Hill 2005)

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Character Annotation Assessment from Phenoscape (Nesbitt et al. 2011)

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1. Character 28: Quadrate, proximal portion, lateral condyle separated from the medial condyle by a deep but narrow furrow

State 1: yes

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	lateral condyle of quadrate, separated from, a medial condyle of quadrate
<input type="text"/>	lateral condyle of quadrate, position, a medial condyle of quadrate
<input type="text"/>	lateral lumbar region of abdomen that is a part_of a condyle, separated from, a ulnar condyle; surface groove, present
<input type="text"/>	condyle that is a part_of a lateral region part_of a proximal region part_of a quadrate bone, separate from, condyle that is a part_of a medial region part_of a proximal region part_of a quadrate bone
<input type="text"/>	condyle that is a part_of a lateral margin part_of a proximal region part_of a quadrate bone, separated from, a condyle that is a part_of a medial margin part_of a proximal region part_of a quadrate bone

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2. Character 54: Sternum, spina externa forming a ridge that extends dorsoventrally over entire sternum rostrum:

State 0: no

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	spina externa, position that is not dorsoventrally extends over, a sternum rostrum
<input type="text"/>	spina externa, shape that is not ridged; spina externa, position that is not overlapping, manubrium of sternum
<input type="text"/>	sternum rostrum that is a bearer_of entire, absent
<input type="text"/>	spina externa, orientation that is not dorsally rotated; spina externa, orientation that is not ventrally rotated
<input type="text"/>	spina externa, separated from, an anterior margin that is a part_of a sternum

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3. Character 5: Rostrum, dense neurovascular pitting

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/> beak that is a bearer_of pitted, present
<input type="text"/>	neurovascular pitting that is a bearer_of dense, present
<input type="text"/>	beak, foveate
<input type="text"/>	neurovascular pitting that is a part_of a beak, present
<input type="text"/>	neurovascular pitting, present

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4. Character 58: Humerus, proximal end, posterior prominence of ventral tubercle distinctly greater than that of head of the humerus

State 0: no

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	posterior side, size that is not decreased size, a proximal epiphysis of humerus
<input type="text"/>	posterior prominence of ventral tubercle of humerus, decreased size, a proximal head of humerus
<input type="text"/>	ventral tubercle of humerus, size that is not decreased size, a proximal head of humerus
<input type="text"/>	greater tubercle of humerus, decreased size, a proximal epiphysis of humerus
<input type="text"/>	posterior region that is a part_of a ventral region part_of a tubercle part_of a proximal region part_of a humerus, size that is decreased_in_magnitude_relative_to a proximal head of humerus

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5. Character 40: Third cervical vertebra, osseous bridge from transverse process to the postzygapophysis:

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

[anatomical projection](#) that extends_from a [transverse process of neural arch 3](#) and that extends_to an [inferior articular process of vertebra](#) that is part_of a [mammalian cervical vertebra 3](#), **absent**

[plastron-carapice bridge](#) that is a bearer_of **osseous**, **absent**

[transverse process of vertebra](#) that is connected_to an [inferior articular process of vertebra](#) that is part_of a **cervical vertebra 3**, **absent**

[bony projection](#) that extends_from [transverse process of cervical vertebra](#) that is part_of [mammalian cervical vertebra 3](#), extends_to a [postzygapophysis of cervical vertebra](#) that is part_of [mammalian cervical vertebra 3](#), **absent**

[transverse process of vertebra](#) that is a part_of a [cervical vertebra 3](#), **separated from**, an [inferior articular process of vertebra](#) that is part_of a [cervical vertebra 3](#)

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6. Character 14: Palatine, strongly protruding posterolaterally directed processes (Mayr 2002: fig. 3):

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	anatomical projection that is a part_of a palatine bone and bearer_of posterolateral orientation, present
<input type="text"/>	palatine bone that is in_left_side_of a multicellular organism, protruding into, palatine bone that is in_right_side_of a multicellular organism; anatomical projection that is a bearer_of direction, present
<input type="text"/>	anatomical projection that is a part_of a postero-lateral region part_of a palatine bone, and bearer_of protruding, present
<input type="text"/>	palatine bone that has_part anatomical projection that is bearer_of posterolateral orientation, present
<input type="text"/>	anatomical projection that is part_of a palatine bone, posteriorly rotated

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7. Character 11: Ectethmoid

State 0: no anterior or lateral expansion

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/> ectethmoid , size that is not increased size
<input type="text"/>	anatomical projection that is a part_of ectethmoid , absent
<input type="text"/>	anterior region that is a part_of ectethmoid , decreased size ; lateral region that is a part_of ectethmoid , decreased size
<input type="text"/>	anterior region that is a part_of ectethmoid , size that is not increased size ; lateral region that is a part_of ectethmoid , size that is not increased size
<input type="text"/>	anterior side that is bearer_of absent , present ; lateral lumbar region of abdomen that is bearer_of absent , present

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8. Character 82: Tibiotarsus, distal end, supratendinal bridge

State 1: tendinous

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	supratendinal bridge that is adjacent_to a tibiotarsus endochondral element, absent
<input type="text"/>	supratendinal bridge that is a part_of a distal region part_of a tibiotarsus, consistency that is not ossified
<input type="text"/>	supratendinal bridge that is a part_of a tibiotarsus, tendinous
<input type="text"/>	supratendinal bridge, tendinous
<input type="text"/>	distal region that is a part_of a tibiotarsus, tendinous; supratendinal bridge that is a part_of a tibiotarsus, tendinous

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9. Character 6: Maxilla, posterior termination

State 1: extends laterally and posteriorly to the contact jugal bar (=angulus tomialis)

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	maxilla, in contact with, a jugal bar
<input type="text"/>	posterior margin that is a part_of a maxilla, extends beyond, a jugal bar
<input type="text"/>	posterior region that is a part_of a maxilla, in contact with, a jugal bar
<input type="text"/>	posterior margin that is a part_of a maxilla, laterally rotated; posterior margin that is a part_of a maxilla, posteriorly rotated
<input type="text"/>	posterior region that is part_of maxilla, posterior_to, a jugal bar; posterior region that is part_of maxilla in_left_side_of a multicellular organism, extends from, a posterior region that is part_of maxilla in_right_side of multicellular organism

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10. Character 37: Mandible, proximal end small, with stout medial process and medial cotyla forming a narrow sulcus

State 0: no

Drag and drop the following choices in order of preference, with your top choice in the first position.

sulcus that is a part_of a mandible, absent; proximal region that is a part_of a mandible, increased size

proximal region that is a part_of a mandible, increased size; anatomical projection that is a part_of a medial region that is a part_of a mandible, absent; proximal region that is a part_of a mandible, increased width

proximal region that is a part_of a mandible, size that is not decreased size; anatomical projection that is a part_of a medial region part_of a mandible, absent; medial cotyla, size that is not decreased width

medial region that is a part_of an anatomical projection and that is a bearer_of increased thickness, absent; sulcus that is a bearer_of a medial cotyla, absent; sulcus that is a part_of a mandible, absent

proximal region that is a part_of a mandible, size that is not decreased size

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Character Annotation Assessment from Phenoscape (Nesbitt et al. 2011)

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Character Annotation Assessment from Phenoscape (O'Leary et al. 2013)

1. Character 137: RPL maxilla, palatal process, suture with lateral border of palatine, orientation

State 1: parasagittal

Drag and drop the following choices in order of preference, with your top choice in the first position.

suture that connects a maxilla and that connects a lateral margin that is a part_of a palatine bone, parasagittal

palatine process of maxilla that is connected_to a palatine bone and bearer_of orientation, parasagittal

palatine process of maxilla that is a part_of a maxilla, parasagittal; cranial suture that is a bearer_of present part_of a maxilla, parasagittal

suture that is part_of a palatine bone and that is part_of a palatine process of maxilla, parasagittal

suture that is connected_to a palatine process of maxilla, and that is connected_to a lateral region that is a part_of a palatine bone, orientation, a parasagittal plane

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2. Character 3656: Pedal phalanges, Digit III, flexor sesamoid at the metatarsal-proximal phalangeal joint, presence

State 1: present

Drag and drop the following choices in order of preference, with your top choice in the first position.

flexor sesamoid that is adjacent_to a metacarpal/tarsal-phalangeal joint part_of a pedal digit 3, present

flexor sesamoid that is connected_to a metatarsal-proximal phalangeal joint of pedal digit III, present

sesamoid bone that is adjacent_to a metatarsophalangeal joint part_of a digit 3, present

flexor sesamoid, present

flexor sesamoid that is a part_of a metatarsal-phalangeal joint part_of a pedal digit 3, present

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3. Character 1373: I2 distinctiveness of UI2 crown from root

State 0: not differentiated from root

Drag and drop the following choices in order of preference, with your top choice in the first position.

tooth crown that is a part_of a upper second incisor, structure that is not distinct from, tooth root that is a part_of a upper second incisor

tooth crown that is a part_of a upper lateral secondary incisor tooth, morphology not differentiated from, tooth root that is a part_of a upper lateral secondary incisor tooth

tooth crown that is a part_of a incisor tooth, undifferentiated

tooth crown that is a bearer_of present and that is part_of a root, cellular quality that is not differentiated

tooth crown that is a part_of a upper second incisor, morphologically similar to, a tooth root that is a part_of a upper second incisor

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4. Character 1915: dP5 preprotocrista orientation on UdP5

State 1: oriented toward the mesial aspect of the paracone

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	preprotocrista, orientation
<input type="text"/>	preprotocrista that is a part_of a upper deciduous premolar 5, oriented towards, a mesial region that is a part_of a paracone
<input type="text"/>	preprotocrista that is a part_of a primary dentition, oriented towards, a medial region that is a part_of a paracone
<input type="text"/>	preprotocrista that is a part_of a upper deciduous premolar 5, oriented towards, a mesial side that is a part_of a paracone
<input type="text"/>	preprotocrista, oriented towards, mesial region that is a part_of a paracone

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5. Character 4271: UG tract - Oviduct mucosal folds

State 0: throughout oviduct

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	oviduct mucosal fold, present
<input type="text"/>	<input type="text"/>	oviduct mucosal fold, distributed throughout
<input type="text"/>	<input type="text"/>	mucosa of uterine tube, located in, an oviduct
<input type="text"/>	<input type="text"/>	mucosal fold that is a part_of an oviduct, present
<input type="text"/>	<input type="text"/>	oviduct mucosal fold, located in, an oviduct

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6. Character 1155: MAN dentary, body, inferior edge, shape in lateral view

State 3: concavoconvex

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	ventral margin that is a part_of a dentary, concavo-convex
<input type="text"/>	dentary, concavoconvex
<input type="text"/>	ventral margin that is a part_of a dentary, concave; ventral margin that is a part_of a dentary, convex
<input type="text"/>	ventral margin that is a part_of a mandible, concavoconvex
<input type="text"/>	inferior side that is a part_of a dentary, concave; inferior side that is a part_of a dentary, convex

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7. Character 1553: dp5 number of roots on Ldp5

State 1: incipient division of the root

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	tooth root that is a part_of a premolar tooth part_of a primary dentition that attaches_to a skeleton of lower jaw, split
<input type="text"/>	root that is a bearer_of incipient, count
<input type="text"/>	tooth root that is a part_of a lower deciduous premolar 5, incipient division
<input type="text"/>	tooth root that is a part_of a lower deciduous premolar, split
<input type="text"/>	tooth root that is a part_of a lower deciduous premolar 5, split

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8. Character 4109: Pelage - Basal bulb presence

State 0: no basal bulb, proximal third of hair filament is of roughly uniform diameter

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	<input type="text"/>	proximal region that is a part_of a hair shaft, uniform diameter
<input type="text"/>	<input type="text"/>	coat of hair, present; basal bulb, present
<input type="text"/>	<input type="text"/>	basal bulb, absent
<input type="text"/>	<input type="text"/>	bulb of hair follicle that attaches_to a dorsum in vicinity_of a shoulder, absent
<input type="text"/>	<input type="text"/>	basal region that is a part_of a bulb of hair follicle part_of a coat of hair, absent

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9. Character 1047: BRC supraoccipital, nuchal crest, number per side

State 1: two, splits dorsally into anterior and posterior crests, which together outline a raised triangular area on the dorsal surface of skull roof

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	nuchal crest, count, 2; nuchal crest, split; dorsal surface that is a part_of a supraoccipital bone, triangular; dorsal surface that is a part_of a supraoccipital bone, raised
<input type="text"/>	nuchal crest, split
<input type="text"/>	anatomical projection that is a part_of a dorsal part of neck that is a bearer_of count and anatomical projection that is a part_of a dorsal part of neck and bearer_of has number of that is part_of a parietal-supraoccipital, count
<input type="text"/>	nuchal crest, count, 2; dermatocranium, triangular
<input type="text"/>	nuchal crest, count, 2; dorsal surface that is a part_of a supraoccipital bone, triangular; dorsal surface that is a part_of a supraoccipital bone, raised

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10. Character 1915: dP5 preprotocrista orientation on UdP5

State 2: oriented toward the apex of the paracone

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	preprotocrista, orientation, an apex of paracone
<input type="text"/>	preprotocrista that is a part_of an upper deciduous premolar 5, oriented towards, an apex of paracone
<input type="text"/>	preprotocrista, oriented towards, tip that is a part_of a paracone
<input type="text"/>	preprotocrista that is a part_of a upper deciduous premolar 5, oriented towards, a tip that is a part_of a paracone
<input type="text"/>	preprotocrista that is a part_of a primary dentition, oriented towards, a tooth apex that is a part_of a paracone

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Character Annotation Assessment from Phenoscape (O'Leary et al. 2013)

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Character Annotation Assessment from Phenoscape (Skutschas and Gubin 2012)

Welcome to the Phenoscape Character Annotation Survey

We recently conducted an experiment involving systematic characters, where we compared the performance of a Natural Language Processing (NLP) system relative to the markup by humans. Characters from one of your publications (Skutschas and Gubin 2012) were randomly chosen for inclusion in this dataset. We are using a variety of metrics to assess the quality of machine vs. human curation, but your feedback as the author of the characters will provide insight into how well the meaning of each is represented in the annotations.

We use an ontology-based representation to annotate systematic characters, in which ontology terms for **anatomical structures** such as **eye** or **vertebra** are combined with **quality terms** representing a trait or property that a structure possesses, such as **round** or **silver**. Thus a character state that you may have described as "eyes, round" would be annotated as '**eye**, **round**'. Sometimes multiple structures are related to each other; for example, '**parietal**, **fused with** a **supraoccipital**'. Finally, terms can be combined to create more specific terms (post-composition). For example, the presence of a projection on the parietal bone is represented as: '**projection** that is part_of a **parietal**, **present**'. (Background information - not essential for completing the survey - on the syntax and standards used for character annotation can be found on the [Phenoscape wiki](#), and ontology terms can be searched on [Ontobee](#)).

In this survey you'll be presented with ten characters randomly chosen from your publication, and a set of 5 annotations for each character. Please rank the annotations in order of preference, with your top choice, i.e., the annotation that best represents the meaning of the character state, in the first position.

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Character Annotation Assessment from Phenoscape (Skutschas and Gubin 2012)

1. Character 69: Male dorsal or ventral glands:

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	dorsal cloacal gland that is a part_of a male organism, absent
<input type="text"/>	gland that is a part_of a dorsal region part_of a male organism, absent; gland that is a part_of a ventral region part_of a male organism, absent
<input type="text"/>	dorsal glands, absent; ventral glands, absent
<input type="text"/>	male dorsal gland that is a part_of a male organism, absent; ventral glands that are a part_of a male organism, absent
<input type="text"/>	anatomical entity that is a part_of a male organism, absent; ventral glands, absent

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Character Annotation Assessment from Phenoscape (Skutschas and Gubin 2012)

2. Character 33: Frontal/maxillary contact:

State 0: frontal and maxilla separated by prefrontal

Drag and drop the following choices in order of preference, with your top choice in the first position.

tetrapod frontal bone, separated from, an anatomical projection that is a part_of a dorsal region part_of a maxilla

maxilla that is in_left_side_of a multicellular organism, separated from, a maxilla that is in_right_side_of a multicellular organism

tetrapod frontal bone, separated from, a maxilla

tetrapod frontal bone, separated from, a tetrapod frontal bone; tetrapod frontal bone, in contact with, a prefrontal bone

tetrapod frontal bone, separated from, a prefrontal bone

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3. Character 21: Four facettted articulation of exoccipital and atlas

State 0: absent

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	cervical vertebra 1 that has_part a vertebral arch joint and bearer_of multfid, absent
<input type="text"/>	facet that is a part_of an exoccipital-atlas joint, structure
<input type="text"/>	facet that is a part_of a exoccipital-atlas joint, count, 4; facet that is a part_of a exoccipital-atlas joint, structure
<input type="text"/>	four facettted articulation of exoccipital and atlas, absent
<input type="text"/>	articulation that is a part_of a cervical vertebra 1, count that is not present; articulation that is a part_of a cervical vertebra 1, count that is not count

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4. Character 30: Dermal sculpture on skull roof

State 1: present, weak

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	dermatocranium, sculpted surface
<input type="text"/>	dermatocranium, weakly sculpted surface
<input type="text"/>	dermatocranium, present; dermatocranium, decreased strength
<input type="text"/>	dermatocranium that is a bearer_of a sculpted surface, decreased magnitude
<input type="text"/>	surface sculpting that is a part_of a dermatocranium, poorly developed

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5. Character 59: Shape of atlas centrum in ventral view:

State 2: longer

Drag and drop the following choices in order of preference, with your top choice in the first position.

ventral region that is a part_of a cervical vertebra 1, increased length, a vertebra that is posterior_to a cervical vertebra 1

vertebral centrum that is a part_of a cervical vertebra 1, increased length, a vertebral centrum that is a part_of a cervical vertebra

vertebral centrum, increased length

ventral region that is a part_of a vertebral bone 1, length that is increased_in_magnitude_relative_to a vertebra that is posterior_to a vertebral bone 1

cervical vertebra 1, length that is increased_in_magnitude_relative_to a length that inheres_in a postatlantal vertebra

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6. Character 22: Postatlantal ribs

State 0: bicapitate

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	head of rib, bifurcated
<input type="text"/>	head of rib that is connected_to a vertebral element that is posterior_to a vertebral bone 1, count, 2
<input type="text"/>	rib that is posterior_to a cervical vertebra 1, bicapitate
<input type="text"/>	rib that is a part_of a postatlantal vertebra, bicapitate
<input type="text"/>	postatlantal vertebra, bicapitate

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7. Character 23: Atlantal spinal nerve foramen

State 2: fully enclosed

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	atlantal spinal nerve foramen, circular
<input type="text"/>	anatomical conduit that is a part_of a cervical vertebra 1, surrounding, a nerve
<input type="text"/>	atlantal spinal nerve foramen, enclosed
<input type="text"/>	atlantal spinal nerve foramen, structure
<input type="text"/>	atlantal spinal nerve foramen, enclosed by, a bone tissue

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8. Character 63: Vomerine dentition:

State 0: transverse row, medial in the palate

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	vomerine dentition, position, a medial region that is a part_of a palate bone
<input type="text"/>	vomerine dentition, medial to, a roof of mouth
<input type="text"/>	vomerine dentition, position, a medial region that is a part_of a primitive palate; vomerine dentition, transverse plane
<input type="text"/>	vomerine dentition, transverse orientation; vomerine dentition, position, a medial region that is a part_of a vomer
<input type="text"/>	vomerine dentition, present

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9. Character 53: Number of free ribs on anterior caudal vertebrae

State 0: more than three pairs

Drag and drop the following choices in order of preference, with your top choice in the first position.

<input type="text"/>	free rib, count, >3 pairs
<input type="text"/>	free rib that is a part_of a caudal vertebra part_of an anterior region part_of some tail, count
<input type="text"/>	rib that is connected_to a caudal vertebra, count, 3+
<input type="text"/>	floating rib, count, >3 pairs
<input type="text"/>	free rib that is a part_of an anterior region part_of a caudal vertebra, count

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