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- groups-20306** ✓ The attribute **groups:name** on a **Group** must have a value of data type **string**. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.3 on page 5.](#))
- groups-20307** ✓ The **ListOfMembers** subobject on a **Group** object is optional, but if present, this container object must not be empty. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.3 on page 5.](#))
- groups-20308** ✓ Apart from the general notes and annotations subobjects permitted on all SBML objects, a **ListOfMembers** container object may only contain **Member** objects. (Reference: SBML Level 3 Version 1 Core, Section 3.2.)
- groups-20309** ✓ A **ListOfMembers** object may have the optional SBML Level 3 Core attributes **metaid** and **sboTerm**. No other attributes from the SBML Level 3 Core namespaces are permitted on a **ListOfMembers** object. (Reference: SBML Level 3 Version 1 Core, Section 3.2.)
- groups-20310** ✓ A **ListOfMembers** object may have the optional attributes **groups:id** and **groups:name**. No other attributes from the SBML Level 3 Groups namespaces are permitted on a **ListOfMembers** object. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.4 on page 7.](#))
- groups-20311** ✓ The attribute **groups:name** on a **ListOfMembers** must have a value of data type **string**. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.4 on page 7.](#))
- groups-20312** ▲ If **ListOfMembers** objects from different **Group** objects contain **Member** elements that reference the same SBase object, the **sboTerm** and any child **Notes** or **Annotation** elements set for those **ListOfMembers** should be consistent, as they all should apply to the same referenced object. (References: SBML Level 3 Package Specification for Groups, Version 1, [Section 3.4 on page 7.](#))
- groups-20313** ✓ Member references may not be circular: no **Member's** **idRef** or **metaIdRef** may reference itself, its parent **ListOfMembers**, nor its parent **Group**. If a **Member** references a **Group** or a **ListOfMembers**, the same restrictions apply to that subgroup's children: they may not reference the **Member**, its parent **ListOfMembers**, nor its parent **Group**, and if any of those children reference a **Group**, the same restrictions apply to them, etc. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.5.4 on page 8.](#))

### Rules for Member object

- groups-20401** ✓ A **Member** object may have the optional SBML Level 3 Core attributes **metaid** and **sboTerm**. No other attributes from the SBML Level 3 Core namespaces are permitted on a **Member**. (Reference: SBML Level 3 Version 1 Core, Section 3.2.)
- groups-20402** ✓ A **Member** object may have the optional SBML Level 3 Core subobjects for notes and annotations. No other elements from the SBML Level 3 Core namespaces are permitted on a **Member**. (Reference: SBML Level 3 Version 1 Core, Section 3.2.)
- groups-20403** ✓ A **Member** object may have the optional attributes **groups:id** and **groups:name** and must have a value for one (and exactly one) of the attributes **groups:idRef** and **groups:metaIdRef**. No other attributes from the SBML Level 3 Groups namespaces are permitted on a **Member** object. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.5 on page 7.](#))

- groups-20404** ✓ The attribute `groups:name` on a **Member** must have a value of data type `string`. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.5 on page 7.](#))
- groups-20405** ✓ The value of the attribute `groups:idRef` of a **Member** object must be the identifier of an existing **SBase** object defined in the enclosing **Model** object. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.5 on page 7.](#))
- groups-20406** ✓ The value of the attribute `groups:metaIdRef` of a **Member** object must be the `metaid` of an existing **SBase** object defined in the enclosing **Model** object. (Reference: SBML Level 3 Package specification for Groups, Version 1, [Section 3.5 on page 7.](#))
- groups-20407** ✓ The value of a `groups:idRef` attribute on **Member** objects must conform to the syntax of the SBML data type `SIdRef`. (References: SBML Level 3 Package Specification for Groups, Version 1, [Section 3.5 on page 7.](#))
- groups-20408** ✓ The value of a `groups:metaIdRef` attribute on **Member** objects must conform to the syntax of the SBML data type `IDREF`. (References: SBML Level 3 Package Specification for Groups, Version 1, [Section 3.5 on page 7.](#))

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## Acknowledgments

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