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| **COMPOUND API** | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/compound/<compound\_id>/ |  | Gets details about a specified compound |
| PATCH | /api/compound/<compound\_id>/ | { "<field\_name>": <field\_val> ..., "removed\_fields": [...list of removed field names...] } JSON | Updates the compound fields with the specified values |
| PUT | /api/compound/<compound\_id>/ | { "<field\_name>": <field\_val> ... } JSON | Completely replaces the compound fields with the JSON object |
| DELETE | /api/compound/<compound\_id>/ |  | Deletes the specified compound |

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| LCMS DATA API | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /run/ | {'L':[1 or 2], 'P':polarity, 'arrayname':myArray, 'fileidlist':myList, 'max\_mz':mzMax, 'min\_mz':mzMin, 'min\_rt':rtMin, 'max\_rt':rtMax, 'nsteps':20000, 'queryType':'XICofFile\_mf'} | Gets the chromatogram for a given mz & rt specification for one or more files. |
| GET | /run/ | {'L':[1 or 2], 'P':polarity, 'arrayname':<array>, 'fileid':<fid>, 'min\_rt':<rtMin>, 'max\_rt':<rtMax>, 'queryType':IvsMZinRTRange'} | Gets the spectrum for a given rt range for one file. |

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| **COMPOUND DICTIONARY API** | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/dict/ |  | Gets a list of all available compound dictionaries |
| GET | /api/dict/<dict\_id>/ |  | Gets details about a specified compound dictionary |
| PATCH | /api/dict/<dict\_id>/ | { "<field\_name>": <field\_val> ..., "removed\_fields": [...list of removed field names...] } JSON | Updates the compound dictionary fields with the specified values |
| PUT | /api/dict/<dict\_id>/ | { "<field\_name>": <field\_val> ... } JSON | Completely replaces the compound dictionary fields with the JSON object |
| POST | /api/dict/<dict\_id>/ | { "compounds": [... list of compounds formatted in json (REQUIRED FIELDS: name, formula, pubchem\_id)...] } JSON | Creates and adds the specified compounds to the compound dictionary |
| DELETE | /api/dict/<dict\_id>/ |  | Deletes the dictionary |
| POST | /api/dict/<dict\_id>/share/ | { "user": "<username", [or "group": "<groupname>"], "perms": [... list of perms (i.e. "read", "write", "admin")] } JSON | Gives the specified user permissions to the compound dictionary |

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| **EXPERIMENT API** | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/experiment/ | pending (0/1) - Includes a list of pending runs | Gets all the experiments the user has access to |
| GET | /api/experiment/<experiment\_id>/ | protected (0/1) - Includes the protected fields of the experiment | Gets details about an experiment |
| PATCH | /api/experiment/<experiment\_id>/ | { "<field\_name>": <field\_val>, "removed\_fields": [...list of removed fields...] } JSON | Updates the specified fields of the experiment |
| PUT | /api/experiment/<experiment\_id>/ | { "<field\_name>": <field\_val> } JSON | Completely replaces the experiments data with the given JSON object |
| GET | /api/experiment/<experiment\_id>/dict/ |  | Gets all the compound dictionaries associated with the experiement |
| POST | /api/experiment/<experiment\_id>/dict/ | { "dict\_id": <dict\_id\_to\_be\_added> } JSON | Adds the specified compound dictionary to the experiment |
| DELETE | /api/experiment/<experiment\_id>/dict/ | { "dict\_id": <dict\_id\_to\_be\_removed> } JSON | Removes the specified compound dictionary to the experiement |
| POST | /api/experiment/<experiment\_id>/share/ | { "user": "<username", [or "group": "<groupname>"], "perms": [... list of perms (i.e. "read", "write", "admin")] } JSON | Gives the specified user permissions for the experiment |

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| METADATA API | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/metadata/ | pending (0,1) - Narrows to only pending metadata | Gets the list of all available metadata objects |
| GET | /api/metadata/<array\_name>/ |  | Gets a list of all available metadata objects in a specified SciDB array |
| GET | /api/metadata/<array\_name>/<file\_id>/ |  | Gets the metadata about a specified run (file) in a specified SciDB array |
| PATCH | /api/metadata/<array\_name>/<file\_id>/ | { "<field\_name>": <field\_val>, "removed\_fields": [...list of removed field names...] } JSON | Updates the metadata with the specified fields |
| PUT | /api/metadata/<array\_name>/<file\_id>/ | { "<field\_name>": <field\_val> ... } JSON | Completely replaces the metadata with the given JSON object |
| POST | /api/metadata/<array\_name>/<file\_id>/ | { "experiment\_id": <experiment\_id>, "<extra\_field\_name>": <extra\_field\_val> } JSON | Creates a metadata object that is associated with a specified experiment and has the extra fields specified |
| DELETE | /api/metadata/<array\_name>/<file\_id>/ |  | Deletes the specified metadata |
| PUT | /api/metadata/<array\_name>/<file\_id>/submit/ |  | Submits a pending metadata to be loaded into SciDB |
| GET | /api/metadata/<array\_name>/<file\_id>/dict/ |  | Gets the dictionaries associated with the run |
| GET | /api/metadata/<array\_name>/<file\_id>/dict/<dict\_index>/ |  | Gets details (incl. compounds) about a specified dictionary |
| GET | /api/metadata/<array\_name>/<file\_id>/dict/<dict\_index>/<compound\_id>/ |  | Gets details about a specified compound |
| POST | /api/metadata/<array\_name>/<file\_id>/dict/<dict\_index>/<compound\_id>/ | { "<updated\_val\_name>": <updated\_val> ... } JSON | Updates the run level compound with the values specified |
| PUT | /api/metadata/<array\_name>/<file\_id>/dict/<dict\_index>/<compound\_id>/reset/ |  | Reverts the compound's fields to those of the parent (experiment level) compound dictionary |
| DELETE | /api/metadata/<array\_name>/<file\_id>/dict/<dict\_index>/<compound\_id>/ |  | Removes the compound from the run level compound dictionary |
| GET | /api/metadata/<array\_name>/<file\_id>/export/ |  |  |

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| **SAMPLES API** | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/sample/ |  | Gets the available samples |
| GET | /api/sample/<sample\_id>/ |  |  |

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| **METHODS API** | | | |
| **Method** | **URL** | **Options** | **Description** |
| GET | /api/method/ |  | Gets the different method types available |
| GET | /api/method/<method\_name>/ |  | Gets a list of all items under the given method\_name |