

# The SMART Cell

## The SMART Cell Overview

The SMART i2b2 cell's main purpose is to serve patient data stored in i2b2 as [SMART RDF/XML messages](#). This will allow [SMART apps](#) to run against an i2b2 instance. Additionally, each implemented API call (as described below) is protected by [OAuth and i2b2 user authentication](#). The SMART cell also optionally coordinates with [the Mapper cell](#) if various codes need to be mapped into a SMART designated coding system, such as SNOMED or RxNorm.



## API Calls

The SMART i2b2 cell currently exposes a "Get Medications" function that returns the entire graph of stored medications in RDF/XML format for a single patient record via a REST call.

### Get Medications

```
GET http://i2b2_server/records/{record id}/medications/
```

will return a list of medications in RDF/XML for a specific patient based on the *record\_id* passed

### Get Demographics

```
GET http://i2b2_server/records/{record id}/demographics/
```

will return the demographic information in RDF/XML for a specific patient based on the *record\_id* passed

### Get Problems

```
GET http://i2b2_server/records/{record id}/problems/
```

will return a list of problems in RDF/XML for a specific patient based on the *record\_id* passed

### Get Allergies

```
GET http://i2b2_server/records/{record id}/allergies/
```

will return a list of allergies in RDF/XML for a specific patient based on the *record\_id* passed