

Disclosure ID: **INV17-112**

**Invention Disclosure - CONFIDENTIAL**

Title: **UniDec - Improved file format for saving, import, and export**

Submitted By: **Michael Marty**

Type: **Disclosure**

Submitted Date: **12/23/2016**

Stage: **Submitted**

Status: **None**

### Brief Summary

Name	Value
(Add brief summary here. Attach abstracts, manuscripts, additional information below at 'Documents' section. See Guidelines for help.):	Previously, the UniDec program passed information between the C and Python code as text or binary files. These files were collected in a folder. I have no implemented HDF5 as a new data format. This allows all the data to be saved in binary format, saving both hard drive space and time spent importing and exporting the data. Furthermore, it allows all information to be saved in a single file, eliminating the need for clumsy folders with lots of files.
This is Software:	Yes
ITAR Project Related:	N
Banner Covered Study:	N
Voice of the Inventor (One or two sentence description of your vision for the technology):	UniDec is an integrated software package containing Bayesian deconvolution of mass and ion mobility spectra with a number of accompanying tools. This improvement to the program simplifies the file format, improving its speed and efficiency.

### Invention Support

Name	Value
Internal Funds:	Yes
If yes, Identify the UA Internal Funding Source:	Startup
State or Federal Funds:	No
If yes, list Sponsor Name & Grant/Contract No. Information should be consistent with information provided to sponsoring agency in reports.:	
Foundation, Corporate or Other Funds:	No
If yes, list Industry Sponsor Name, Grant /Contract Number and (%) contribution by Grant to your invention.:	
3rd Party Materials or Data:	Yes
If yes, list any materials or data and the third party name.:	A variety of third party software librarys. Specifically, the HDF5 library, Microsoft Visual Studio, and Intel Paralle Studio.
Does any contributor have a financial interest in an involved research sponsor, material provider, or potential licensee?:	Yes
If yes, describe in detail.:	This contributes to IP that I first devleoped as a postdoc at the University of Oxford and have since improve at UA.
Any 3rd Party Collaborators?:	No
If yes, list Name(s) and Organization(s):	

### Publication Date(s)

Name	Value
Past or Planned Publications? (Papers, posters, talks, etc, including those that are planned/future - See Guidelines):	No
If yes, list Event, Date and Reference/Comments:	

### Commercial Potential

Name	Value
Closest known product/technology:	Protein Deconvolution by Thermo Scientific. ABSciex also has a Bayesian Deconvolution program. Waters has MaxEnt.
Potential Licensees, if any:	Shimadzu, Perkin Elmer, Agilent
Identify any 3rd party elements incorporated into the work, including developers:	

### Inventors

Name	Value
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Documents

Name	Value
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Remarks

Name	Value
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Inventors

First Name	MI	Last Name	Significance	Contribution
Michael	T	Marty	1	100.00 %

Remarks

By	Comment	Created
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Documents

File Name	Created By	Date Created
	Michael Marty	

I/We have reviewed and understand the Arizona Board of Regents Policy 6-908 "Intellectual Property Policy" and the Intellectual Property Policy on the Office of Technology Transfer website, and confirm that I/we will abide by the same. As required, we assign our rights in this invention and all resulting patents (including serial no(s)).  
\_\_\_\_\_, authorized to be filled in later by UA) and copyrights to the Arizona Board of Regents on behalf of the University of Arizona.

Michael  
T  
Marty (Lead Inventor)

Date