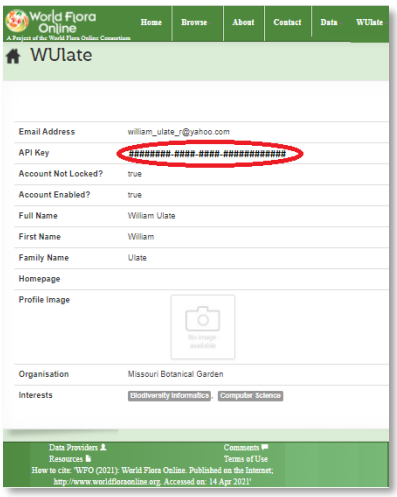
Integrate WFO API calls in MS Excel

1. Download the file **http://104.198.143.165/files/WFO_API/WFO_API_for_MSExcel.zip** to a local disk and extract its contents to an accessible directory.

2. Take note or copy your WFO User API Key, provided in your User page of the WFO Portal after you registered (http://worldfloraonline.org/home).



The API Key is an alpha-numeric string with the format "######-####-####-####-############"

3. Open the WFO_API_for_MSExcel.bas text file in Notepad and scroll down to the getWFOID() subroutine, write down your WFO User API Key from the WFO Portal (sApiKey variable) between double quotes and save the file.

```
Sub getWFOID()
'
' getWFOID Macro
' Find the WFO ID of the scientificName in the active cell.
'
' Author: William Ulate
'
' Assign Keyboard Shortcut: Ctrl+Shift+X
'

 Dim httpObject As Object
 Set httpObject = CreateObject("MSXML2.XMLHTTP")

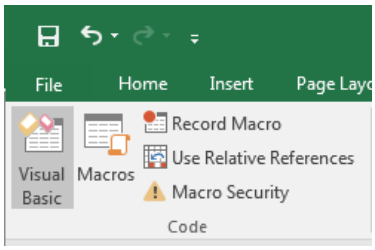
 Dim sURL As String
 Dim sApiKey As String
 sApiKey = "<Include your user API Key from WFO Portal>"
 Dim selectedCell As Object
 Set selectedCell = Application.ActiveCell
 sURL = selectedCell.Value

 If Len(Trim(sURL)) > 0 Then
```

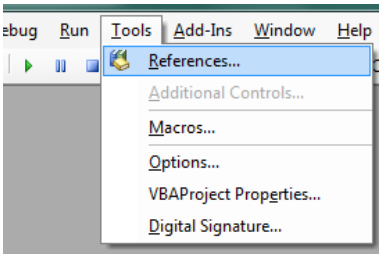
4. In Excel, right click on any area of the Ribbon and choose the Customize the Ribbon… option from the context menu to enable the Developer Tab (follow detailed instructions at https://trumpexcel.com/excel-developer-tab/).

Integrate WFO API calls in MS Excel

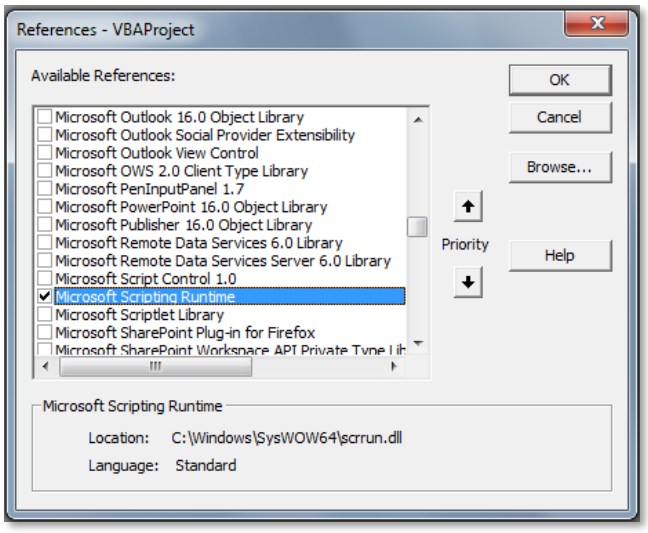
5. Open the Visual Basic Editor:



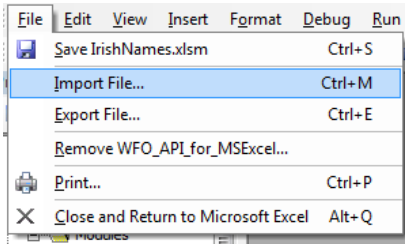
6. In the Tools menu, choose the **References….** option



7. Scroll down and mark the **Microsoft Scripting Runtime** checkbox and then press OK

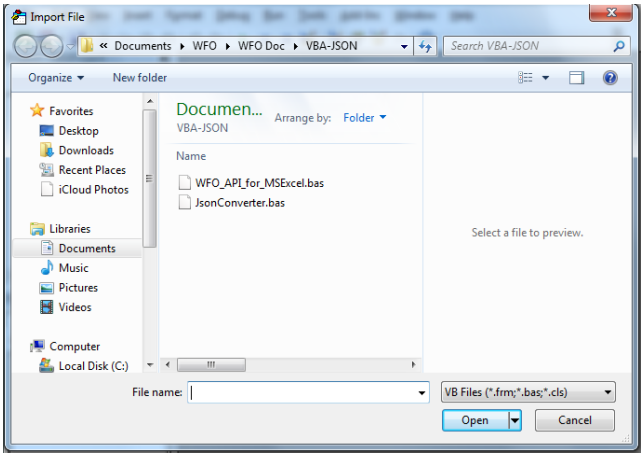


8. On the file Menu, choose the **Import File…** option



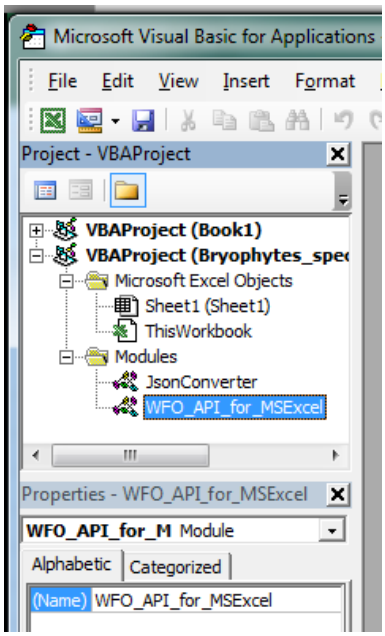
Integrate WFO API calls in MS Excel

9. Open the JsonConverter.bas file

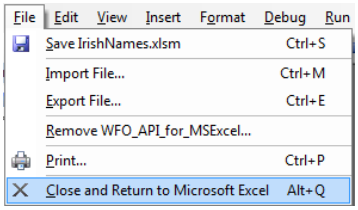


10. Then repeat the process to import the WFO_API_for_MSExcel.bas file

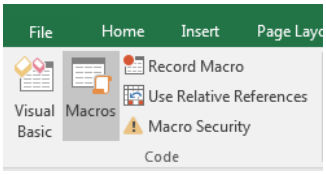
11. The WFO_API_for_MSExcel and the JsonConverter Modules should appear in the Modules menu of the current VBAProject.



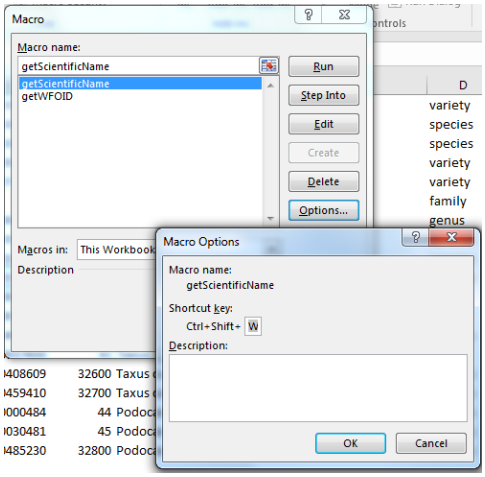
12. Close the VBA Editor and Return to your Excel Workbook



13. On the Developer tab, click the Macro button

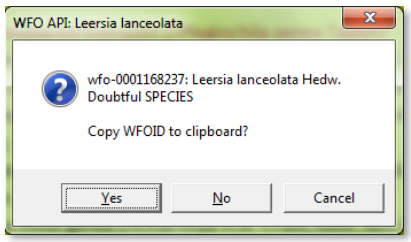


14. Click a Macro name and add a shortcut with the **Options…** button to both macros, *getScientificName* (for example: Ctrl+Shift+W) and *getWFOID* (for example: Ctrl+Shift+X).



15. Press Ok, close the Macro window and click a cell with a WFO ID or a scientific Name in the Excel workbook, then press the appropriate sequence of keys (like Ctrl+Shift+W or Ctrl+Shift+X).

16. The corresponding scientific name or WFO-ID will be displayed in a message box.



Click **Yes** to copy the WFOID or the scientific name to the clipboard, press **No** to show the information of the next matching name or press **Cancel** if you want to stop the process.