

## Comprehensive identification of proteins from MALDI imaging

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### Supplemental Table 8: Results for 'canonical pathway' analysis from IPA

Proteins identified in MALDI IMS studies from human tissues (compare Table 1)

Ingenuity Canonical Pathways	$-\log(p\text{-value})$	Ratio	number of molecules
Mitochondrial Dysfunction	1.11E01	8.03E-02	11
EIF2 Signaling	3.12E00	2.75E-02	5
Nur77 Signaling in T Lymphocytes	2.9E00	5.26E-02	3
Role of IL-17A in Psoriasis	2.89E00	1.54E-01	2
Eumelanin Biosynthesis	1.78E00	2.5E-01	1

Proteins identified in MALDI IMS studies from rodent tissues (compare Supplemental Table 2)

Ingenuity Canonical Pathways	$-\log(p\text{-value})$	Ratio	number of molecules
Mitochondrial Dysfunction	9.39E00	7.3E-02	10
EIF2 Signaling	4.94E00	3.85E-02	7
mTOR Signaling	2.88E00	2.63E-02	5
LXR/RXR Activation	2.68E00	3.17E-02	4
Regulation of eIF4 and p70S6K Signaling	2.42E00	2.52E-02	4

Matrix Extracts of the ten tissues Human (compare Supplemental Table 1)

Ingenuity Canonical Pathways	$-\log(p\text{-value})$	Ratio	number of molecules
EIF2 Signaling	3.43E01	4.18E-01	76
Mitochondrial Dysfunction	2.02E01	3.8E-01	52
Regulation of Actin-based Motility by Rho	1.06E01	3.37E-01	29
Actin Cytoskeleton Signaling	1.03E01	2.17E-01	50
Integrin Signaling	8.9E00	2.2E-01	45