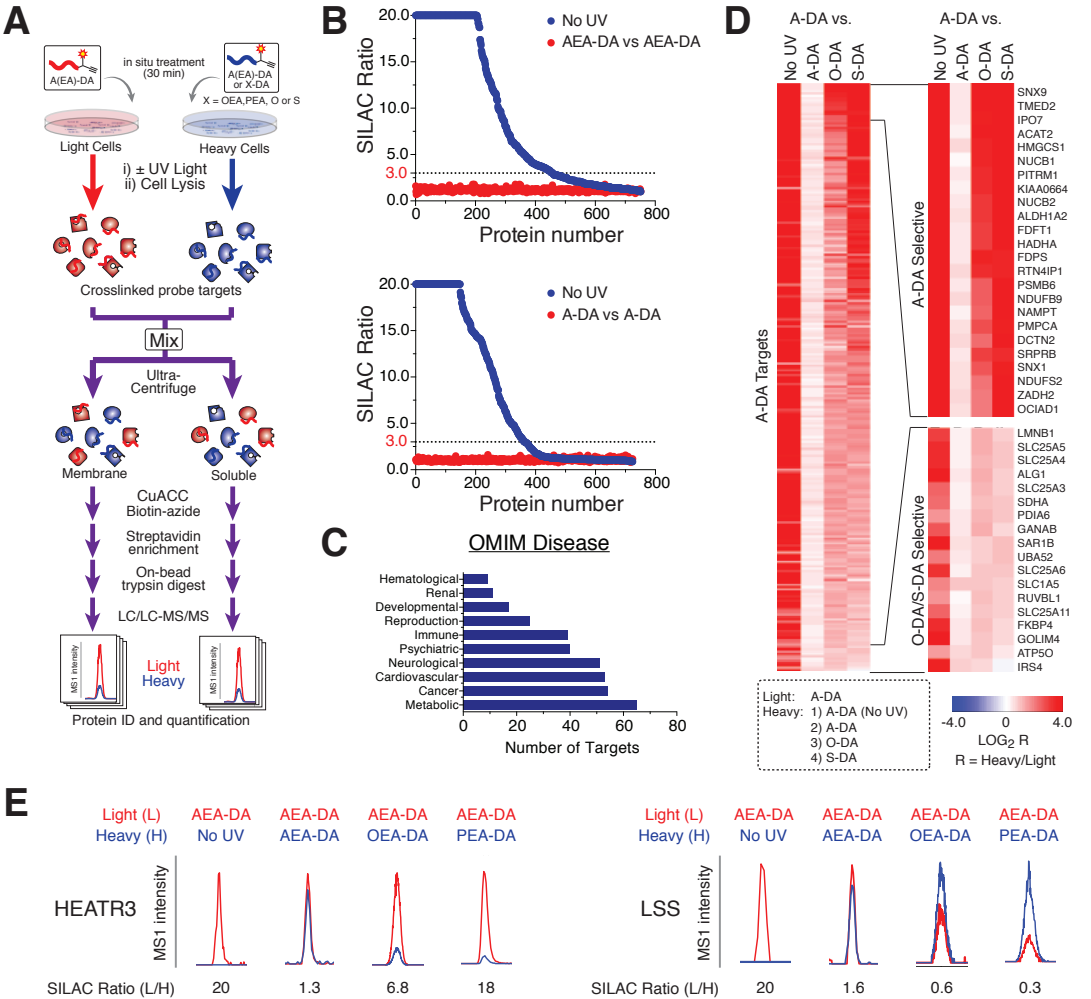
A
A(EA)-DA
in situ treatment (30 min)
A(EA)-DA or X-DA
X = OEA,PEA, O or S
Light Cells
Heavy Cells
i) ± UV Light
ii) Cell Lysis
Crosslinked probe targets
Mix
Ultra-Centrifuge
Membrane
Soluble
CuACC Biotin-azide
Streptavidin enrichment
On-bead trypsin digest
LC/LC-MS/MS
MS1 intensity
Light
Heavy
Protein ID and quantification
B
SILAC Ratio
No UV
AEA-DA vs AEA-DA
Protein number
No UV
A-DA vs A-DA
C
OMIM Disease
Hematological
Renal
Developmental
Reproduction
Immune
Psychiatric
Neurological
Cardiovascular
Cancer
Metabolic
Number of Targets
D
A-DA vs.
No UV
A-DA
O-DA
S-DA
A-DA Targets
A-DA Selective
O-DA/S-DA Selective
SNX9
TMED2
IPO7
ACAT2
HMGCS1
NUCB1
PITRM1
KIAA0664
NUCB2
ALDH1A2
FDFT1
HADHA
FDPS
RTN4IP1
PSMB6
NDUFB9
NAMPT
PMPCA
DCTN2
SRPRB
SNX1
NDUFS2
ZADH2
OCIAD1
LMNB1
SLC25A5
SLC25A4
ALG1
SLC25A3
SDHA
PDIA6
GANAB
SAR1B
UBA52
SLC25A6
SLC1A5
RUVBL1
SLC25A11
FKBP4
GOLIM4
ATP5O
IRS4
Light: A-DA
Heavy: 1) A-DA (No UV)
2) A-DA
3) O-DA
4) S-DA
LOG2 R
R = Heavy/Light
E
Light (L)
Heavy (H)
AEA-DA
No UV
AEA-DA
OEA-DA
PEA-DA
HEATR3
LSS
MS1 intensity
SILAC Ratio (L/H)
20
1.3
6.8
18
1.6
0.6
0.3