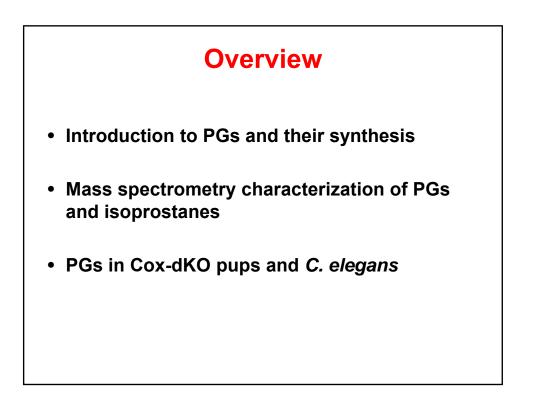
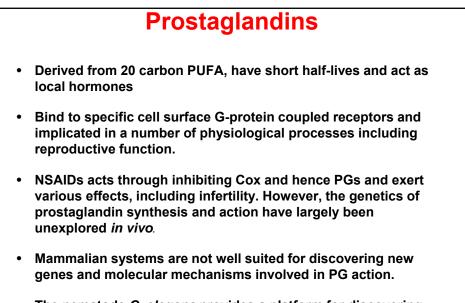
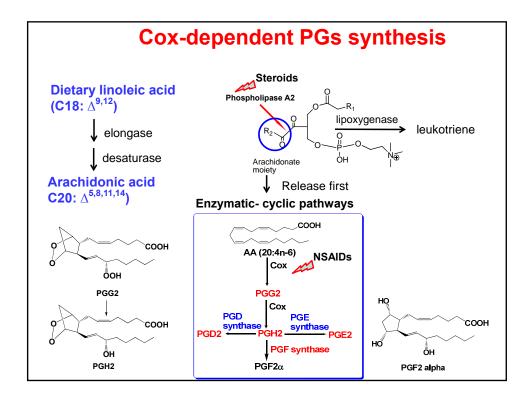
Tandem mass spectrometry analysis of prostaglandins and isoprostanes

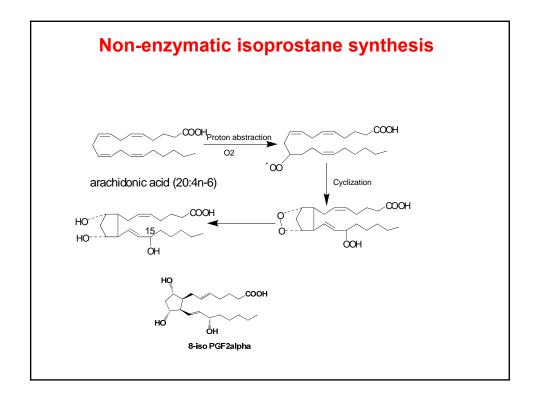
Jeevan Prasain jprasain@uab.edu 6-2612

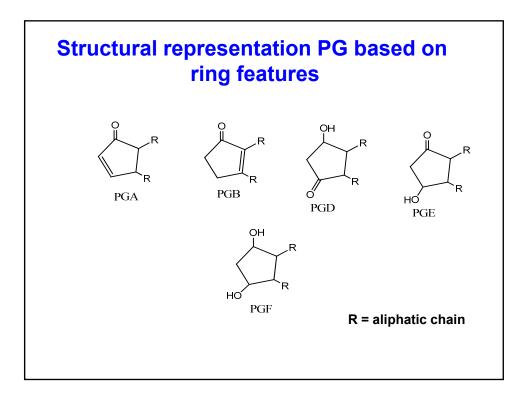


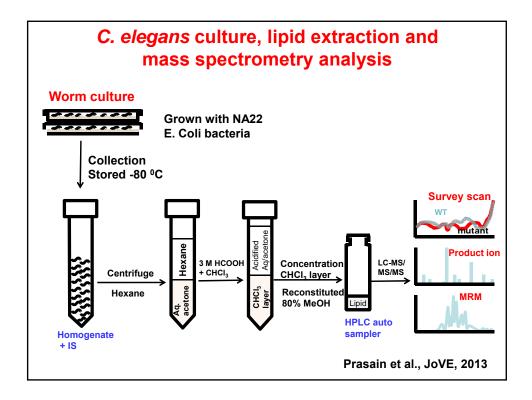


• The nematode *C. elegans* provides a platform for discovering roles of genes and mechanisms that would provide an ideal complement to mammalian systems.

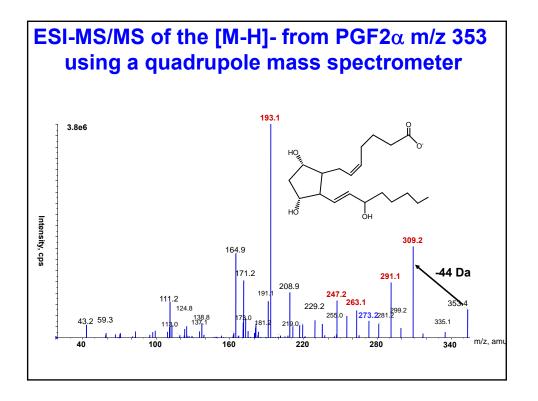


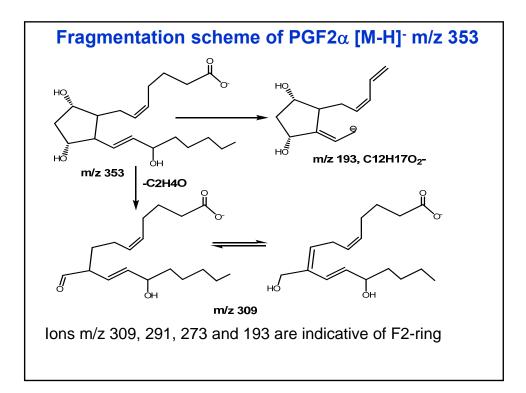


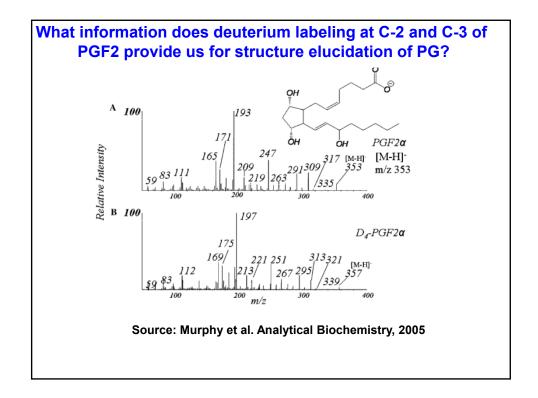


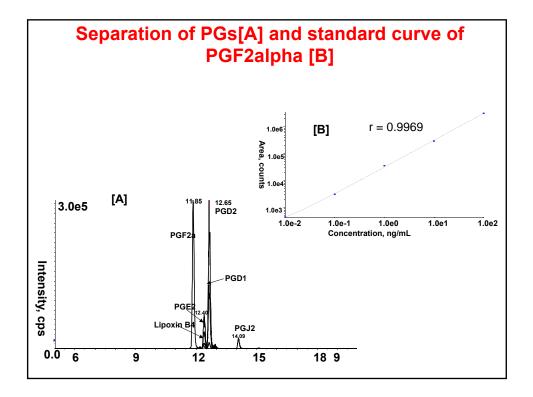


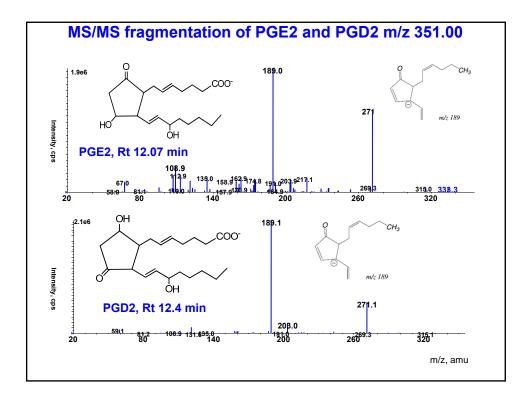
Name	RT (min)*	[M-H] ⁻ m/z	Key product ions in CID (MS/MS)
PGD ₂	12.56	351	315, 271, 233, 203, 189
PGE ₂	12.23	351	333, 315, 271, 235, 189, 175, 109
PGH ₂	12.23	351	333, 315, 271, 235, 217, 189, 175, 113, 109
PGF _{1x}	11.83*	355	337, 319, 311, 301, 293, 275, 265, 249, 237, 211, 195
8-iso PGF19	11.34	355	337, 319, 311, 293, 275, 265, 249, 237, 219, 211, 183
9β-PGF ₁₃	11.36	355	337, 319, 311, 301, 293, 275, 265, 237, 211,183, 167
8-iso 9β-PGF _{1x}	11.44	355	337, 319, 311, 293, 275, 265, 219, 211, 183
9β, 11β-PGF _{1x}	11.99	355	337, 319, 311, 301, 293, 275, 265, 237, 219, 211, 183
PGF _{2x}	11.73*	353	335, 317, 309, 291, 273, 263, 247, 209, 193, 171, 165
ent-PGF _{2x}	11.71	353	335, 317, 309, 291, 273, 247, 209, 193, 191, 171, 165
11β PGF _{2x}	11.48	353	335, 317, 309, 291, 273, 247, 209, 193, 173, 165, 111
15(R)-PGF ₂₁	11.89	353	335, 317, 309, 291, 273, 247, 209, 193, 191, 171, 165
8-iso PGF ₂₁	11.31	353	335, 307, 309, 291, 273, 247, 209, 193, 181, 171, 165
5-trans PGF _{2x}	11.60	353	335, 317, 309, 291, 273, 247, 209, 193, 171, 165, 111
8-iso 15(R)-PGF _{2x}	11.39	353	335, 317, 309, 291, 273, 263, 247, 209, 193, 171, 165
9β-PGF ₂₃	11.22	353	335, 317, 309, 291, 273, 255, 247, 193, 173, 171, 165
PGF _{3x}	11.26	351	333, 315, 307, 289, 271, 245, 219, 209, 193, 191, 165
8-iso PGF ₃₉	10.83	351	333, 315, 307, 289, 271, 245, 219, 209, 193, 191, 171
2,3-Dinor-11β-PGF _{2x}	10.67	325	261, 245, 227, 219, 173, 163, 153, 145, 137, 113, 107
19(R)-hydroxy PGF _{2x}	9.19	369	351, 333, 325, 315, 307, 263, 235, 209, 193, 171, 165
20-hydroxy PGF ₂₁	9.13	369	351, 333, 325, 315, 307, 263, 209, 193, 181, 171, 165

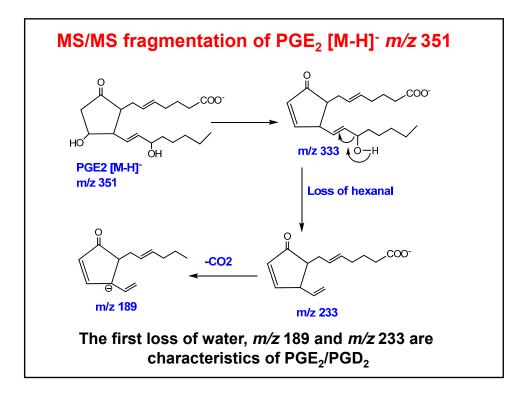


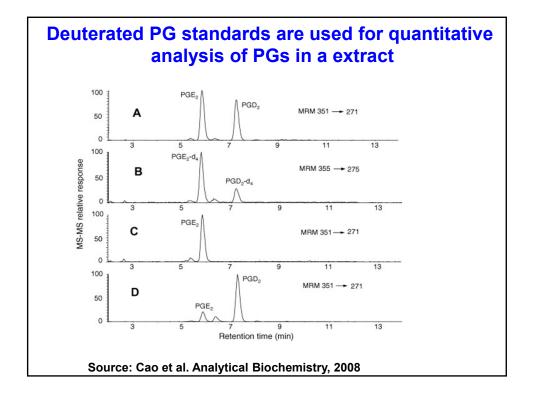


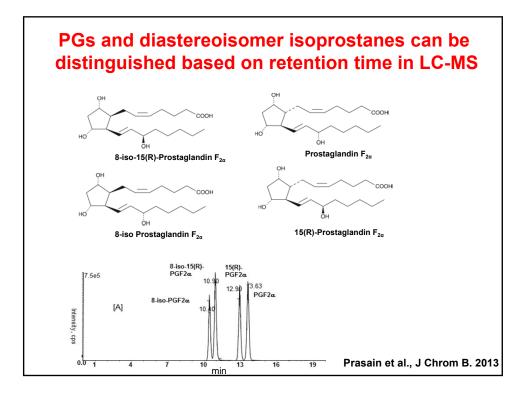


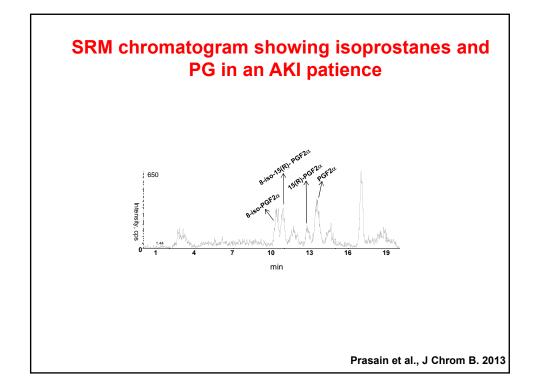


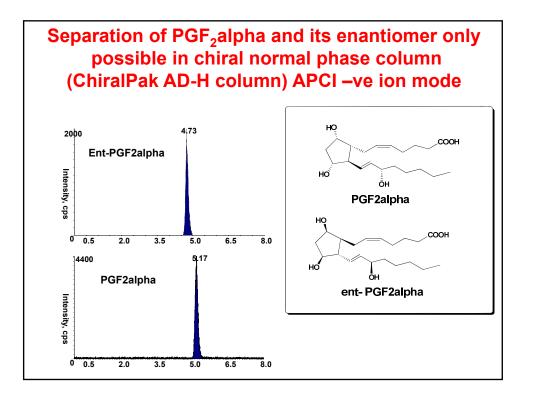












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