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- Huang K, Liu G, White JJ, van Breemen RB. Discovery of natural product ligands of human RAR-gamma using ultrafiltration UHPLC-MS-MS; 59th Annual Conference on Mass Spectrometry and Allied Topics. Denver, CO. June 5-9, 2011.
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EXTERNAL RESEARCH SUPPORT**Richard B. van Breemen**

University of Illinois College of Pharmacy
Department of Medicinal Chemistry and Pharmacognosy

1. Past

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| North Carolina Biotechnology Center "Development of a mass spectrometry laboratory for biotechnology research" Co-P.I. (Sims, L.B. and Armstrong, F.B.) | 01-24-86 to 01-23-89 \$600,000 |
| NIH Biomedical Research Support Grant BRSG No. RR7071 "Analysis of alkylated enzymes and proteins by HPLC and mass spectrometry" Principal Investigator | 04-01-86 to 03-31-87 \$11,500 |
| North Carolina Biotechnology Center "Development of analytical methods for analysis of covalent modifications of proteins" Principal Investigator | 05-01-86 to 04-30-87 \$22,570 |
| Faculty Research & Professional Development Award Grant No. 01042 "Analysis of substituted transition metal carbonyls by mass spectrometry" Principal Investigator | 01-01-88 to 12-31-88 \$3,500 |
| North Carolina Biotechnology Center "Immobilization of bacterial enzymes involved in the environmental degradation of organic chemical pollutants." Principal Investigator | 06-01-88 to 05-31-89 \$18,026 |
| Physical and Mathematical Sciences Foundation Dean's Fund "Degradation of pollutants using immobilized enzymes" Principal Investigator | 05-15-89 to 04-30-90 \$1,500 |
| Petroleum Research Fund ACS-PRF #21692-G7 "Oxygenation of petrochemicals by immobilized bacterial enzymes" Principal Investigator | 06-01-89 to 07-31-91 \$18,000 |
| Glaxo, Inc. "Use of immobilized proteases and liquid chromatography-mass spectrometry to identify hydrolysis products of peptide-analog drugs" Principal Investigator | 02-01-90 to 01-31-91 \$5,000 |

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