BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Anikó M. Sólyom	CEO and CSO
eRA COMMONS USER NAME	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Technical University of Budapest, Budapest, Hungary	B.S.	1976-1979	Organic Chemistry
Technical University of Budapest, Budapest, Hungary	M.Sc.	1979-1981	Analytical Chemistry
Technical University of Budapest, Budapest, Hungary	Ph.D.	1981-1984	Analytical Chemistry
Central Res. Inst. For Physics, Budapest, Hungary	Postdoc.	1984-1986	Analytical Chemistry

A. Positions and Honors

Positions and Employment

1981-1984 Research Assistant - Institute of Solid State Physics, Central Research Institute for Physics of Hungarian Academy of Sciences, Budapest, Hungary
1984-1986 Research Associate - Institute of Solid State Physics, Central Research Institute for Physics of Hungarian Academy of Sciences, Budapest, Hungary
1986-1991 Director/Research Scientist, Analytical Laboratory - Institute of Solid State Physics, Central Research Institute for Physics of Hungarian Academy of Sciences, Budapest, Hungary
1991-1992 Visiting Scientist – Department of Chemistry, The University of Arizona, Tucson, AZ
1992-1994 Research Associate - Department of Pharmacology and Toxicology, College of Pharmacy, The University of Arizona, Tucson, AZ
1994-2001 Assistant Research Scientist - Department of Pharmacology and Toxicology, College of Pharmacy, The University of Arizona, Tucson, AZ
2001-2005 Associate Research Scientist - Department of Pharmacology and Toxicology, College of Pharmacy, Director, Analytical Core – The Arizona Center for Phytomedicine Research, The University of Arizona, Tucson, AZ
2001-2006 Associate Research Scientist – Department of Pharmacology, College of Medicine, The University of Arizona, Tucson, AZ
2007-2008 Manager of Analytical Services – ProlX Pharmaceuticals, Tucson, AZ
1995-present Founder and CEO of GAAS Corporation

Other Experience

1986 Visiting Scientist - Department of Chemistry, University of Oulu, Finland
1990, 1991 Visiting Scientist - Laser Photoacoustic Laboratory, Agricultural University of Wageningen, Wageningen, The Netherlands

Professional Memberships:

American Chemical Society
Division of Analytical Chemistry and Chromatography
Southern Arizona Section
Women's Chemistry Group
AOAC International

Honors

1981	Predoctoral Fellowship - Helsingin Kauppiat Oy, Helsinki, Finland
1990	Recipient of the "PHARE" Travel Award
1990-1992	Recipient of the "Szechenyi Istvan" Research Scholarship for investigating photoacoustic effects in gases
2004	Member, Special Emphasis Review Panel – Botanical Research Centers (ZAT1-DB17), NIH-NCCAM/ODS
2004-present	Horwitz Advisor, AOAC
2006-present	Voting member - Presidential Task Force on Dietary Supplements, AOAC

B. Selected peer-reviewed publications (in chronological order).

(Publications selected from 51 peer-reviewed publications)

1. Antus,S, Baitz-Gács, E., Boros, F., Nógrádi, M., **Sólyom A.**: Oxidation of 1,3-diphenyl-1,3-propanediones with thallium(III)-nitrate in methanol *Liebigs Ann. Chem.,* (8) 1271-1282 (1980)
2. I. Bakonyi, L. K. Varga, A. Lovas, E. Tóth-Kádár, **Sólyom A.**: Magnetization and NMR study of amorphous Ni-P Alloys in thepParamagnetic concentration range. *Journal of Magnetism and Magnetic Materials*, 50, 111-118 (1985)
3. E. Tóth-Kádár, I. Bakonyi, **Sólyom A**, J. Hering, G. Konczos, and F. Pavlyák:Preparation and Characterization of Electrodeposited Amorphous Ni-P Alloys. *Surface and Coating Technology*, 31, 31-43 (1987)
4. E. Tóth-Kádár, I. Bakonyi, J. Lóránth, **Sólyom A**, L. Pogány, T. Dankházi, J. Tóth, G. Konczos, P. Fodor and H.H. Liebermann: Determination of the Phosphorus Content in Ni-P Alloys. *Plating and Surface Finishing* 77(9) 70-75 (1990.)
5. Gy. Z. Angeli, A. Miklós, **Sólyom, A.M.**, A. Lörincz: Photoacoustic Spectroscopy II: New Instrument for Continuous Monitoring of Environmental Trace Gases. *Acta Chimica Hungarica*, 128, 891-900 (1991)
6. **Sólyom, A.M.**, A. Miklós, Gy. Z. Angeli, A. Lörincz: Photoacoustic Spectroscopy I.: New Analytical Method for Environmental Trace Gas Analysis. *Acta Chimica Hungarica*, 128, 877-889 (1991)
7. D. D. Bicanic, H. Jalink, M. Chirtoc, H. Sauren, M. Lubbers, J. Quist, E. Gerkema, C. van Asselt, A. Miklós, **Sólyom, A.M.**, Gy. Z. Angeli, P. Helander, H. Vargas: Interfacing Photoacoustic and Photothermal Techniques for New Hyphenated Methodologies and Instrumentation Suitable for Agricultural, Environmental and Medical Applications. *Photoacoustic and Photothermal Phenomena III. (Ed. D. Bicanic)* Springer Series in Optical Sciences, Vol 69., p. 20., Springer Verlag, Berlin (1992)
8. **Sólyom, A.M.,** D. D. Bicanic, Gy. Z. Angeli, A. Miklós, M. Lubbers:Use of an Open Photoacoustic Cell for Some Applications in Agriculture. *Photoacoustic and Photothermal Phenomena III. (Ed. D. Bicanic)* Springer Series in Optical Sciences, Vol 69., p. 88., Springer Verlag, Berlin (1992)
9. Angeli, G. Z., **Sólyom, A.M.**, A. Miklós, D. D. Bicanic: Dependence of the Photoacoustic Cell Constant on The Material Choice. *Photoacoustic and Photothermal Phenomena III. (Ed. D. Bicanic)* Springer Series in Optical Sciences, Vol. 69., p. 596., Springer Verlag, Berlin (1992)
10. **Sólyom, A.M.,** Angeli, G. Z., Bicanic, D. D., Lubbers, M.: Determination of ammonia using carbon dioxide laser - photoacoustic spectroscopy compared with conventional spectrophotometry *The Analyst*, 117, 379-382 (1992)
11. Angeli, G. Z., **Sólyom, A.M.,** Miklós, A., Bicanic, D.D.: Calibration of a windowless photoacoustic cell for detection of trace gases. *Analytical Chemistry*, 64, 155-158 (1992)
12. Bicanic, D.D., **Sólyom, A.M.,** Angeli, G.Z., Wegh, H., Posthumus, M., Jalink, H.:: The extent of unwanted infrared photoacoustic signals from polymer sampling tubings exposed to ultraviolet radiation. *Infrared Phys. Technol.,* 35, 637-644 (1994)

13. Sami, S.M., Dorr, R.T., **Sólyom, A.M**., Alberts, D.S., Remers, W.A.: Amino-substituted 2-[2'-(dimethylamino)ethyl]-1,2-dihydro-3*H*-dibenz[*de,h*]isoquinoline-1,3-diones. Synthesis, antitumor activity, and quantitative structure-activity relationship *J. Med. Chem*., 38, 983-993 (1995)
14. Sami, S.M., Dorr, R.T., **Sólyom, A.M**., Alberts, D.S., Iyengar, B.S., Remers, W.A.:6- and 7-substituted 2-[2'-(dimethylamino)ethyl]-1,2-dihydro-3*H*-dibenz[*de,h*]isoquinoline-1,3-diones. Synthesis, nucleophilic displacements, antitumor activity, and quantitative structure-activity relationship. *J. Med. Chem.,* 39, 1609-1618 (1996)
15. Sami, S.M., Dorr, R.T., Alberts, D.S., **Sólyom, A.M**., Remers, W.A.,:2-[2'-(Dimethylamino)ethyl]-1,2-dihydro-3*H*-dibenz[*de,h*]isoquinoline-1,3-diones with substituents at positions 4, 8, 9, 10 and 11. synthesis, antitumor activity, and quantitative structure-activity relationship. *J. Med. Chem.,* 39, 4978-4987 (1996)
16. Iyengar, B.S., Dorr, R.T., Alberts, D.S., **Sólyom, A.M**., Krutzsch, M., Remers, W.A.,: 1,4-Disubstituted anthracene antitumor agents. *J. Med. Chem.,* 40, 3734-3738 (1997)
17. Remers, W.A., Dorr, R.T., Sami, S.M., Alberts, D.S., Bear, S., Mayr, C. A., **Sólyom, A.M**.,: A new class of antitumor agent: 2-Substituted -1,2-dihydro-3*H*-dibenz[*de,h*]isoquinoline-1,3-diones. *Current Topics in Medicinal Chemistry.,* 2, 45-61 (1997)
18. Sami, S.M., Dorr, R.T., Alberts, D.S., **Sólyom, A.M**., Remers, W.A.: Analogues of amonafide and azonafide with novel ring system. *J. Med. Chem.,* 43(16), 3067-3073 (2000)
19. Pfeiffer, E., Höhle, S., **Sólyom, A.M**., Metzler, M.: Studies on the stability of turmeric constituents. *Journal of Food Engineering*, 56 (2-3) 257-259 (2003)
20. Pfeiffer, E., Esch, H., Höhle, S., **Sólyom, A.M**., Timmermann, B.N., Metzler, M.: In vitro studies on the estrogenic activity and the metabolism of curcumin. In: G. Eisenbrand et al. Eds.), Functional Food: Safety Aspects, Deutsche Forschungsgemeinschaft, Senate Commission on Food Safety. ISBN 3-527-27765-X. Wiley-VCH Verlag Weinheim, 324-329 (2004)
21. Sweet, C.J., **Sólyom, A.M**., Sipes, I.G.: Absorption and elimination of D&C Red 28 in male F-344 rats. *Food and Chemical Toxicology*, 42(4):641-648 (2004)
22. Jolad, S.D., Lantz, R.C., **Sólyom, A.M.,** Chen, G.J., Bates, R.B., Timmermann, B.N.: Fresh organically grown ginger (*Zingiber officinale*): Composition and effects on LPS-induced PGE_2 production. *Phytochemistry,*, 65(13) 1937-1954 (2004)
23. Jagadish, B., Iyengar, B.S., **Sólyom, A.M.,** Remers, W.A., Dorr, R.T., Yu, J.S., Gupta, S., Mash, E.A.: Synthesis of [^{14}C]-imexon. *J. Label. Compd. Radiopharm.* 48, 165-170 (2005)
24. Kiela, P.R., Midura, A.J.,Kuscuoglu, N., Jolad, S.D., **Sólyom, A.M**., Besselsen, D.G., Timmermann, B.N., Ghishan, F.G.:The Effects of Boswellia serrata in mouse models of chemically induced colitis. *Am. J. Physiol. Gastrointest Liver Physiology*, 288, G798-G808 (2005)
25. Lantz, R.C., Chen, G.J., **Sólyom, A.M**., Jolad, S.D., Timmermann, B.N.: The effect of turmeric extracts on inflammatory mediator production. *Phytomedicine,* 12, 445-452 (2005)
26. Jiang, H., **Sólyom, A.M.,** Timmermann, B.N., Gang, D.R.: Characterization of gingerol-related compounds in ginger rhizome (*Zingiber officinale* Rosc.) by high performance liquid chromatography/electrospray ionization mass spectrometry. *Rapid Communications in Mass Spectrometry*, 19, 2957-2964 (2005)
27. Hohle, S.I., Pfeiffer, E., **Sólyom, A.M.,** Metzler, M.: Metabolism of curcuminoids in tissue slices and subcellular fractions from rat liver. *J. of Agr. And Food Chem.* 54, 756-764 (2006)
28. Funk, J.L., Frye, J., Oyarzo, J., Kuscuoglu, N., Wilson, J., McCaffrey, G., Stafford, G., Chen, G.J., Lantz, R.C., Jolad, S.D., **Sólyom, A.M.,** Kiela, P.R., Timmermann, B.N.: Efficacy and mechanism of action of turmeric supplements in the treatment of rheumatoid arthritis: a translational investigation. *Arthritis & Rheumatism* 54, 3452-3464 (2006)
29. Funk, J.L., Oyarzo, J.N., Frye, J.B., G., Chen, G.J., Lantz, R.C., Jolad, S.D.,**Sólyom, A.M.,** Timmermann, B.N.: Turmeric extracts containing curcuminoids prevent experimental rheumatoid arthritis. *J Natural Products* 69, 351-355 (2006)
30. Prudic, K.L., Smriti, K., **Sólyom, A.M.,** Timmermann, B.N.: Isolation, identification and quantification of potencial defensive compounds in the viceroy butterfly and its larval host plan, Carolina willow. *J. Chem. Ecology,* 33, 1149-1159 (2007)
31. Kuester, R.K., **Sólyom, A.M.,** Rodriguez, V.P., Sipes, I.G.: The effects of dose, route and repeated dosing on the disposition and kinetics of terabromobisphenol A in male F-344 rats. *Tox. Sci.* 96, 237-245 (2007)
32. Lantz, R.C., Chen, G.J., Sarihan, M., **Sólyom, A.M.,** Jolad, S.D., Timmermann, B.N: The effect of extracts from ginger rhizome on inflammatory mediator production. *Phytomedicine,* 14, 123-128 (2007)

33. Pfeiffer, E., Hohle, S.I., Walch, S.G., Riess, A., **Sólyom, A.M.,** Metzler, M.: Curcuminoids form reactive glucuronides *in vitro*. *J. of Agr. And Food Chem.* 55, 538-544 (2007)

Patent:
Chen, G.J., Jolad, S.D., Lantz, R.C., Sólyom, A.M., Timmermann, B.N.: Anti-inflammatory Activity of Turmeric Oil Mixture. U.S. Patent No: 2005123632

C. Research Support

Completed Research Support

5 P50 AT 00474
NIH/NCCAM Pilot Program Project 12/01/03-11/30/04
Estrogenicity and Antiestrogenicity of Curcuminoids and their Metabolites
Role: Co-Principal Investigator

5 P50 AT 00474
NIH/NCCAM Pilot Program Project 12/01/03-11/30/04
Stable and Unstable Conjugates in Curcumin Metabolism
Role: Co-Principal Investigator

5 P50 AT 00474 09/30/00-07/31/05
NIH/NCCAM
Arizona Center for Phytomedicine Research
Role: Director of Analytical Core