

CURRICULUM VITAE

Name: Neil Spingarn
Place of Birth: Summit, New Jersey
Citizenship: USA

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Education:

Yale University New Haven, CT	Ph.D.	9/74 - 12/78	Pharmacology
Yale University	M.S., M.Phil.	9/74 - 12/76	Pharmacology
University of California	B.A.	9/71 - 6/74	Biochemistry

Professional Experience:

2022 – present	Lab Director Eurofins SFA SN Special Analysis West Santa Ana, CA
1984 – 2022	President S & N Labs Santa Ana, CA
1985 – 1988	Instructor Hazardous Material Management Program University of California, Irvine, CA
1980 – 1984	Commercial Director IT Analytical Services Cerritos, CA
1980 – 1981	Assistant Professor Department of Pharmacology University of California, Los Angeles, CA
1978 – 1980	Postdoctoral Research Fellow American Health Foundation Valhalla, NY
1979	Visiting Scientist National Cancer Center Research Institute Tokyo, Japan
1977	Lecturer in Chemistry University of New Haven New Haven, CT

Professional Societies:

Sigma Xi
American Chemical Society
Society for Applied Spectroscopy
American Society for Materials

Honors:

Fellow, NSF National Needs Postdoctoral Fellowship, 1978-1979
Fellow, National Cancer Institute Postdoctoral Fellowship, 1979-1980
Fellow, US-Japan Cooperative Cancer Research Program, 1979

Job Description:

Laboratory Director and Founder of a consulting and independent analytical laboratory servicing the legal, academic and industrial communities. The S&N Labs division of Eurofins provides state-of-the art microanalytic capabilities as well as experts in various specialties within science, engineering and medicine. Job function is to supervise other experts as well as to provide direct consulting and analytical expertise.

Specific expertise is provided in all aspects of microanalysis, using such tools as Fourier-transform infrared microspectroscopy (FTIR), Raman spectroscopy, secondary ion mass spectroscopy (SIMS), scanning electron microscopy with energy-dispersive x-ray microanalysis (SEM- EDX), gas and liquid chromatography (GC and HPLC), combined chromatography-mass spectroscopy (GC- MS; LC-MS), and polarized light microscopy (PLM). Additional expertise is provided interpreting our findings and those of other laboratories related to pharmaceuticals, forensics and toxicology.

Special Skills:

Microscopy (forensics, single particle or fiber identification)
Microanalytical chemistry (FT-IR, Raman, electron microscopy, x-ray analysis)
Surface analysis
Failure analysis
Bioassays (microbial mutagenicity, toxicology, drug efficacy and levels)

PUBLICATIONS

I. Research Articles

1. McCann, J., N.E. Spingarn, J. Kobori and B.N. Ames, *Proc. Nat. Acad. Sci. USA* 72:979-983 (1975) "Detection of carcinogens as mutagens: improved tester strains incorporating an R-factor."
2. Spingarn, N.E. and A.C. Sartorelli, *J. Med. Chem.* 22:1314-1317 (1979) "Synthesis and evaluation of the thiosemicarbazone, dithiocarbazone, and 2'-pyridylhydrazone of pyrazinecarboxaldehyde as agents for the treatment of iron overload".
3. Spingarn, N.E. and A.C. Sartorelli, *Int. J. Quantum Chem.* 18:493-500 (1980) "Mechanism of binding of iron to potential therapeutic chelating agents".
4. Spingarn, N.E. and C.T. Garvie, *J. Agric. Food Chem.* 27:1319-1321 (1979) "Formation of mutagens in sugar-ammonia model systems".
5. Spingarn, N.E. and J.H. Weisburger, *Cancer Letters* 7:259-264 (1979) "Formation of mutagens in cooked foods. I. Beef".
6. Spingarn, N.E., L.A. Slocum and J.H. Weisburger, *Cancer Letters* 9:7-12 (1980) "Formation of mutagens in cooked foods. II. Foods with high starch content".
7. Spingarn, N.E., H. Kasai, L.L. Vuolo, S. Nishimura, Z. Yamaizumi, T. Sugimura, T. Matsushima and J.H. Weisburger, *Cancer Letters* 9:177-183 (1980) "Formation of mutagens in cooked foods. III. Isolation of a potent mutagen from beef".
8. Kasai, H., Z. Yamaizumi, K. Wakabayashi, M. Nagao, T. Sugimura, S. Yokoyama, T. Miyazawa, N.E. Spingarn, J.H. Weisburger and S. Nishimura, *Proc. Japan Acad. Sci.* 56B:278-283 (1980) "Potent novel mutagens produced by broiling fish under normal conditions".
9. Weisburger, J.H., B.S. Reddy, P. Hill, L.A. Cohen, N.E. Spingarn and E.L. Wynder, *Bull. N.Y. Acad. Med.* 56:673-696 (1980) "Nutrition and Cancer – on the mechanisms bearing on causes of cancers of the colon, breast, prostate and stomach".
10. Spingarn, N.E., C.T. Garvie-Gould and L.L. Vuolo, *Analytical Chem.* 53:565-566 (1981) "Analysis of methanol for reverse-phase gradient elution liquid chromatography".
11. Spingarn, N.E., C.T. Garvie-Gould, L.L. Vuolo and J.H. Weisburger, *Cancer Letters* 12:93-97 (1981) "Formation of mutagens in cooked foods. IV. Effect of fat content on mutagenicity of fried beef patties".
12. Weisburger, J.H., N.E. Spingarn, Y.Y. Wang and L.L. Vuolo, *Cancer Bull.* 33:124-129 (1981) "Assessment of the role of mutagens and endogenous factors in large bowel cancer".
13. Kasai, H., Z. Yamaizumi, S. Nishimura, K. Wakabayashi, M. Nagao, T. Sugimura, N.E. Spingarn, J.H. Weisburger, S. Yokoyama and T. Miyazawa, *J. Chem. Soc. [Perkin I]* 8:2290-2293 (1981) "A potent mutagen in broiled fish. Part 1. 2-amino-3methyl-3H-imidazo[4,5]quinoline".
14. Wang, Y.Y., L.L. Vuolo, N.E. Spingarn and J.H. Weisburger, *Cancer Letters* 16:179-189 (1982) "Formation of mutagens in cooked foods. V. The mutagen reducing effect of soy protein concentrates and antioxidants during the frying of beef".

15. Spingarn, N.E., C.T. Garvie-Gould and L.A. Slocum, *J. Agric. Food Chem.* 13:301-304 (1983) "Formation of mutagens in sugar-amino acid model systems".
16. Spingarn, N.E., D.J. Northington and T. Pressely, *J. Chrom. Sci.* 20:286-289 (1982) "Analysis of volatile hazardous substances by gas chromatography-mass spectroscopy".
17. Spingarn, N.E., D.J. Northington and T. Pressely, *J. Chrom. Sci.* 20:571-574 (1982) "Analysis of non-volatile substances by gas chromatography-mass spectroscopy".
18. Mills, W.J., B. J. Grigg, F.J. Offermann, B.E. Gustin and N.E. Spingarn, *J. Occ. Env. Hygiene* 9:D95-102 (2012) "Toluene and methyl ethyl ketone exposure from a commercially available contact adhesive"
19. Araneda, J.F., T. Chu, M.C. Leclerc, S.D. Riegel and N. Spingarn, *Anal. Methods* 12:4853-7 (2020) "Quantitative analysis of cannabinoids using benchtop NMR instruments"

II. Books and Chapters

1. Spingarn, N.E., thesis for Yale University Graduate School, Department of Pharmacology (1978) "Development of iron chelators for the treatment of chronic iron overload".
2. Weisburger, J.H. and N.E. Spingarn, in: *Naturally-occurring Carcinogens-Mutagens and Modulators of Carcinogenesis* (J.A. Miller, E.C. Miller, T. Sugimura, S. Takayama and I. Hirano, eds.) University park Press, Baltimore, pp 177-184 (1979) "Mutagens as a function of mode of cooking of meat".
3. Weisburger, J.H., B.S. Reddy, N.E. Spingarn and E.L. Wynder, in: *Colo-rectal Cancer: Prevention, Epidemiology and Screening* (S.J. Winawer, D. Schottenfeld and P. Sherlock, eds.) Raven press, new York, pp 19-41 (1980) "Current views on the mechanisms involved in the etiology of colorectal cancer".
4. Weisburger, J.H., B.S. Reddy, N.E. Spingarn, L.A. Cohen, A Rivenson, J. Silverman and G.M. Williams, in: *Uitkomst en Uitzicht* (H. Maarse and B.J. Tinbergen, eds.) Pudoc, Wageningen, Netherlands, pp 201-215 (1980) "Nutrition and Cancer in man: experimental approaches".
5. Weisburger, J.H., B.S. Reddy, E.S. Fiala, Y.Y. Wang, L.L. Vuolo, E.L. Wynder and N.E. Spingarn, in: *Cancer: Achievements, Challenges and Prospects for the 1980s* (J. Burchnall and J. Oettgen, eds.) Grune and Stratton, New York, pp 595-612 (1981) "Dietary factors in the causation and prevention of neoplasia".
6. Wynder, E.L., G.D. McCoy, B.S. Reddy, L. Cohen, P. Hill, N.E. Spingarn and J.H. Weisburger, in: *Nutrition and Cancer* (N.M. Ellison and G.R. Newell, eds.) Raven Press, New York, pp 11-48 (1981) "Nutrition and metabolic epidemiology of cancers of the oral cavity, esophagus, colon, breast, prostate and stomach".
7. Barnes, W., N.E. Spingarn, C. Garvie-Gould, L.L. Vuolo, Y.Y. Wang and J.H. Weisburger, in: *The Maillard Reaction in Foods and Nutrition* (G.R. Waller and M.S. Feather, eds.) American Chemical Society, pp 485-506 (1983) "Mutagens in cooked foods: possible consequences of the Maillard reaction".