

CURRICULUM VITAE

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ACADEMIC RECORD

1. American Univ. of Beirut, B. Sc. (Chemistry), 1957
2. American Univ. of Beirut, M. Sc. (Chemistry), 1959
3. Univ. of Colorado, Boulder, Colorado, Ph.D. (Organic Chemistry), 1962

PROFESSIONAL EXPERIENCE

Name of organization	Position	Dates
1. Harvard University	Research Fellow	1962-1964
2. Harvard University	Tutor	1964
3. American Univ. of Beirut	Research Associate	1964-65
4. American Univ. of Beirut	Assistant Professor	1965-69
5. American Univ. of Beirut	Associate Professor	1969-75
6. University of Colorado (Boulder, CO)	Research Associate (Sabbatical leave)	1971-72
7. American Univ. of Beirut	Professor	1975-Present
8. Univ. of California (Berkeley, CA)	Visiting Professor	Summer 1977
9. University of Notre Dame	Visiting Professor (Sabbatical)	1978-79
10. American Univ. of Beirut	Chairman, Dept. of Chemistry	1969-70, 1977-78, 1979-1986
11. University of Colorado (Boulder, CO)	Visiting Professor (Sabbatical)	1986-87
12. American Univ. of Beirut	Acting Dean, Faculty of Arts & Sciences	April-July 1986
13. American Univ. of Beirut	Vice President for Academic Affairs And AUB representative to the Presidents of Private Universities Board advisory to H.E. Minister of Higher Education, Lebanon.	1987-1999

14.	American Univ. of Beirut	Acting Deputy President, average of a total of 1 month per year	1987-1999
15.	Univ. of Colorado (Boulder)	Research Collaboration	August 1988
16.	Univ. of North Texas (Denton)	Distinguished Visiting Professor (Sabbatical)	1990-1991
17.	Univ. of Colorado (Boulder)	Research Collaboration	June 1991
18.	American Univ. of Beirut	Acting Dean, Faculty of Health Sciences	April 1994 - August 1998
19.	American Univ. of Beirut July 19-Sept.15,	Acting President(very short periods)	1998 and several v. shorter periods. July 21- Aug.20, 1999.
20.	Univ. of California, Davis	Visiting Scholar (Sabbatical)	Oct.1, 1999 Sept.1, 2000
21.	Univ. of California, Davis	Visiting Scholar	July1,- Aug.31,01; July1,-Aug.31,02; July1,-Aug.31,03
22.	Univ. of California, Davis	Visiting Scholar (Paid Research Leave)	July 2004- Jan.2005
23.	Univ. of California, Davis	Visiting Scholar	July-Aug.2006
		Visiting Scholar	July-Aug. 2007
			July-Aug. 2008
24.	Univ. of California, Davis	Visiting Scholar	July-Aug. 2009
25.	Univ. of California at Davis	Visiting scholar	July-Aug. 2010
25.	Univ. of California at Davis July 2011-Jan.2012	Visiting Scholar (Paid Research Leave, Oct.-Jan.)	
26.	Univ. of California at Davis (July-Aug. 2013)	Faculty Development –Visiting Scholar	
27.	Univ. of California at Davis	Visiting Scholar (July-Aug. ,2014	
28.	Acting President, AUB	July 1-August 31, 2015	
29.	Acting Chief Operations Officer (COO) ,AUB	July1-August 31, 2015	
30.	Senior Advisor to the President, AUB	Sept.2015-Present	

RESEARCH INTERSET

Organic Chemistry: Heterocyclic Chemistry with special interest in Aromatic N-Oxides, Isobenzofurans, Isoindoles, reactive intermediates and Caged Heterocyclic Compounds. Anthracyclinones with anti-tumor activity. Azacyanines ,2H-Indazoles and their hetetocyclic- fused derivatives , quinolinocinnolines, quinoxalinocinnolines and their derivatives, Indoloquinolines and Indoloquinoxalines. Cascade Reactions in Heterocyclic Chemistry.

TEACHING EXPERIENCE

1. Undergraduate Chemistry courses especially Organic Chemistry, 1965-Present (One Senior Organic Chemistry course per semester during assuming duties of Vice President for Academic Affairs, 1987-1999).
2. Graduate Organic Chemistry courses: Mechanisms of Organic Reactions, Synthesis, and Heterocyclic chemistry.
3. In addition to teaching at the American University of Beirut since 1965, I taught at the University of Colorado, Boulder, 1971-72, 1986-87, and the University of Notre Dame, 1978 -79, the Univ. of Texas, Denton, 1990-91, and the University of California, Davis, 2000.
4. Gave research seminars at Universities listed in #3 ,and University of New Mexico, 1972; University of California, Berkeley, 1977; University of Rhode Island, 1989; University of California, Davis, 1991,2000, University of Florida, Gainesville, FL .(2010),and some universities in the Middle East(LAU, Balamand, U. of Jordan, U.of Yarouk, U.of Science and Technology of Jordan}

ACADEMIC HONORS

1. Full Scholarship, Jordanian Ministry of Education, 1953-1957.
2. Parke-Davis Fellow at Univ. of Colorado, 1961-62
3. Member of the Lebanese Academy of Sciences, 2009- present.
4. Honored by the Davis City Council ,Davis , CA, USA (Certificate) ,and by the Mayor of the City of Beirut (Aug. 2013)

INVENTION and NAME REACTIONS

!) Co-inventor of the Beirut Reaction, 1965 (with the late Prof. C. H. Issidorides). See section under patents.

2) Davis-Beirut Reaction ,2011 (With Distinguished Professor Mark J. Kurth of the University of California at Davis, Davis, CA).

PEER REVIEWED PUBLICATIONS IN INTERNATIONAL JOURNALS (NO ABSTRACTS)

1. M. J. Haddadin and C. H. Issidorides, "Unsaturated bile acid derivatives, I, some Transformation products from hyodesoxycholic acid, "J.Org.Chem., 25, 403 (1960).
2. A. Hassner and M.J.Haddadin, "Synthesis of Quinoline Steroids,"J. Org. Chem., 27, 1911 (1962).
3. A. Hassner and M. J. Haddadin, "Novels Synthesis of Sterodial Indoxyls and Indoles," Tetrahedron letters, 21, 975 (1962).

4. A. Hassner and M. J Haddadin, "2,2' -Diindoxyls," J. Org. Chem., 28,224 (1963).
5. L. F. Fieser and M. J. Haddadin, " Isobenzofuran, a Transient Intermediate," J. Am. Chem.Soc.,86, 2081 (1964).
6. L. F. Fieser and M. J. Haddadin, "Oxidative Decarboxylation," ibid., 86,2392 (1964).
7. L. F. Fieser and M. J. Haddadin, "Isobenzofuran, a Transient Intermediate," Can. J. Chem., 43,1599 (1965).
8. M. J. Haddadin and C. Issidorides, "Enamines with Isobenzofuroxan," Tetrahedron Letters, 36, 3253 (1965).
9. A. Hassner, M. J. Haddadin and P. Catsoulacos, "Steroidal Indoxyls, Indoles, and Quinolines," J. Org. Chem.,31, 1363 (1966).
10. C. H. Issidorides and M. J. Haddadin, "Benzofurazan Oxide: Reactions with Enolate Anions," J. Org. Chem.,31, 4067 (1966).
11. L. F. Fieser and M. J. Haddadin, "1,2,3,4-Tetraphenylnaphthalene," Org.Synth., 46, 107 (1966).
12. M. J. Haddadin and C. H. Issidorides, "Photolysis of Quinoxaline-di-N-oxide," Tetrahedron Letters, 753 (1967).
13. M. J. Haddadin and A. S. Salameh. "Reactions of 1,2,3,4-Tetrahydrophenazine-di-N-Oxide with Acetic Anhydride," J. Org. Chem., 33 , 2127 (1968).
14. M. J .Haddadin and C .H . Issidorides, "Quinoxaline Mono-N-Oxide Derivatives," Tetrahedron Letters, 4609 (1968).
15. M. J. Haddadin, H. N. Alkaysi, and S. E. Saheb, "Reduction of Quinoxaline-di-N-Oxides with Sodium Borohydride," Tetrahedron, 26 , 1115 (1970).
16. M. J. Haddadin , A. Yavrouian, and C. H. Issidorides, "1,3-Diphenylquinoxalino [2,3,4] furan: A Stable Reactive Diene," Tetrahedron Letters, 17, 1409 (1970).
17. M. J. Haddadin, G. Agopian, and C. H. Issidorides, "Synthesis and Photolysis of Some Substituted Quinoxaline-di-N-Oxides," J. Org. Chem., 36, 514 (1971).
18. S. E. Saheb and M. J. Haddadin, "A Stable Biologically Active Indoxyl," J. Med. Chem.,14, 445 (1971).

19. M. J. Haddadin, and A. A. Jarrar, "Conformation of 1,3-Diacyl and 1,3-Diaroyl-Benzimidazolones," Tetrahedron Letters, 1651 (1971).
20. M. J. Abu El-Haj, B.W. Dominy, J. D. Johnston, M. J. Haddadin and C.H. Issidorides, "A New route to Phenazine-5, 10-dioxides and Related Compounds," J. Org. chem., 37, 589 (1972).
21. N.A. Mufarrij, M. J. Haddadin, C .H. Issidorides, J. W. McFarland, and J. D. Johnston, "The Reactions of Benzofurazan-1-oxides with Enamines," J. Chem. Soc.(Perkin I), 965 (1972).
22. A. Hassner, A. S. Miller, and M. J. Haddadin, "The Cycloaddition of 1-Azirines With Ketenes," Tetrahedron Letters, 1353 (1972).
23. M. J. Haddadin, J.J. Zamet, and C. H. issidorides, "The Reaction of Benzofuroxanes with Benzofuranones," Tetrahedron Letters, 3653 (1972).
24. A. Hassner , A. S. Miller, and M. J. Haddadin, "The Cycloaddition of Vinyl Azides to Ketenes," J.Org.Chem., 37, 2682 (1972).
25. A. Hassner, M. J. Haddadin, and A. B. Levy, "Steric Effects in the Regiospecificity Of Diphenylketene Cycloaddition to Imine and Enamines." Tetrahedron Letters, 1015 (1973).
26. M. J. Haddadin and A. Hassner, "Cycloaddition of Diphenylketene to some C=N Heterocycles. Structural Assignment and reactions of Adducts," J. Org. Chem., 38, 2650 (1973).
27. M. J. Haddadin and A. Hassner, "Thermal and Photochemical reactions of Some Bicyclic Aziridine Enol Ethers," J. Org.Chem., 38, 3466(1973).
28. M. J. Haddadin and N.C. Chelhot, "A simple Route to Isoindoles and Related Heterocycles," Tetrahedron Letters, 52, 5185 (1973).
29. C. H. Issidorides, G. E. Zahr, T. N. Rawda, N. C. Chelhot, and M. J. Haddadin, "The Deoxygenation of Some Quinoxaline-N-Oxides and Related Compounds," Tetrahedron, 30 , 659 (1974).
30. J. J. Zamet, M. J. Haddadin, and C. H. Issidorides, "Reaction of Benzofurazan Oxide with Benzofuran-3(2H)-ones, and a New Synthesis of Benzofuro [2,3-b] quinoxaline," J. Chem. Soc. (Perkin I). 1687 (1974).
31. M. J. Haddadin, N. C. Chelhot, and M. Pieridou, "Synthesis of Some Derivatives of Pyrrolo and Theino [3,4-b] quinoxaline and Quinoline," J. Org. Chem., 39, 3278 (1974).

32. M. J. Haddadin, S.S. Halawi, and A. A. Jarrar, "Photolysis of Some Quinoxaline-1,4-dioxides. A Method of Structural Assignment," *Heterocycles*, 4, 1077 (1976).
33. M. J. Haddadin, M. U. Taha, A. A. Jarrar, and C. H. Issidorides, "Reactions of Benzofurazan Oxide with Unsymmetrical 1,3-Diketones. Polar and Steric Effects," *Tetrahedron*, 32, 710 (1976).
34. M. J. Haddadin and C. H. Issidorides "Application of Benzofurazan Oxide to the Synthesis of Hetro-aromatic N-Oxides," Review, *Heterocycles*, 4, 767 (1976)
35. M. Z. Nazer, J. Petridou, M. J. Haddadin, and C. H. Issidorides, "Reaction of Benzofuran-3-one with o-Nitrosaniline," *Heterocycles*, 6, 541 (1977).
36. C. H. Issidorides, M.A. Atfeh, J. J. Sabounji, A. R. Sidani, and M. J. Haddadin, "Application of 1,2-Diketones in the Synthesis of Phenazine Oxides," *Tetrahedron*, 34, 217 (1978).
37. M. J. Haddadin, "Isobenzouran," Review, *Heterocycles*, 9, 865 (1978).
38. M. J. Haddadin, A.A. Hawi, and M. Z. Nazer, "Photolysis of some 1-Hydroxybenzimidazole-3-oxides," *Tetrahedron Letters*, 4581 (1978).
39. M. J. Haddadin, M. J. Agha, and R. Tabri, "Syntheses of Some Furans and Naphtho [2,3-c] Derivatives of Furan, Pyrrole, and Thiophene," *J. Org. Chem.*, 44, 494 (1979).
40. M. J. Haddadin, S. Firsan and B. Nader, "Simple method for the Synthesis of Some Pyridazines," *J. Org. Chem.*, 44, 629 (1979).
41. M. Z. Nazer, C. H. Issidorides, and M. J. Haddadin, "Reactions of benzofurazan Oxide with Amines-I," *Tetrahedron*, 35, 681 (1979).
42. M. J. Haddadin, H. Bitar, and C. H. Issidorites, "Synthesis and Some Reactions of o-Nitrosoaniline," *Heterocycles*, 12, 323 (1979).
43. J. P. Freeman and M. J. Haddadin, "The Structure of 2,3,5-Tri-substituted 2-Pyrolin-4-ones," *Tetrahedron Letters*, 4813 (1979).
44. J. P. Freeman, M. J. Haddadin, and J. F. Hansen, "Some Reactions of Enamine Adducts of 3,4-Diazacyclopentadienone 3,4-Dioxides," *J. Org. Chem.*, 44, 4978 (1979).
45. M. J. Haddadin and A. A. Hawi, "Photolysis of Some Quinoxalin-2-one-4-Oxides," *Heterocycles*, 14, 457 (1980).
46. J. P. Freeman and M. J. Haddadin, "Cycloaddition Reactions of Dimethylacetylene Dicarboxylate with 2,4,5-Triphenyl-3H-pyrrol-3-one-Oxide," *J. Org. Chem.*, 45, 4898 (1980).

47. M. J. Haddadin and H. H. N. Murad, "Reaction of Diphenylketene with 1-Methylbenzimidazole. A Reinvestigation," *J.Org.Chem.*, 45,2518 (1980).
48. M. J. Haddadin and M. A. Atfah, "Synthesis of Some Pyrrolo-[3, 4-b]-Quinoxaline 4,9-Dioxides," *Heterocycles*, 16, 251 (1981).
49. V. Alexanian, M. J. Haddadin, C. H. Issidorides, and M. Z .Nazer, "A Note on the Oxidation Capacity of Benzofurazan Oxide," *J.Heterocyclic Chem.*, 18,391 (1981).
50. J. A. Usta, M. J. Haddadin, C. H. Issidorides, and A. A. Jarrar, "Preparation of Functionalized Quinoxaline 1,4-Dioxides," *J.Heterocyclic Chem.*, 18, 655 (1981).
51. M. J. Haddadin, A. M. Kattan, and J. P. Freeman, "Novel Synthesis of the Mesoionic System 1,3-Oxazolium-4-olate," *J .Org .Chem.*, 47, 323 (1982).
52. J. P. Freeman, M. J. Haddadin, W. H. Rastetter, and T. Chancellor, "Hydration of the 1,3-Diphenylpropane-1,2,3-trione revised structure of the Hyration Product," *Tetrahedron Letters*, 23, 815 (1982).
53. M. J. Haddadin and M. A. Atfah, "Some Addition Reactions of 2-Substituted Quinoxaline 1,4-Dioxides," *J. Org. Chem.*, 47,1772 (1982).
54. S. Demirji, M. J. Haddadin, and C.H.Issidorides, "Deoxygenation of Quinoxaline and Phenazine N-Oxides by catalytic Transfer Reduction and by Iodide in the Presence of Pyridine/Sulfur Trioxide Complex," *J. Heterocyclic Chem.*, 20, 1735 (1983).
55. M. J. Haddadin and H. T. Tannus, "Preparation of Some Stable and Transient 1,3-Oxazolium-4-olates," *Heterocycles*, 22, 273 (1984).
56. M. J. Haddadin, S. J. Amalu, and J.P. Freeman, "Self-Condensation of 3H-Pyrrol-3-one-Oxides," *J.Org.Chem.*, 49, 2825 (1984).
57. M. J. Haddadin, B. Agha, and M. S. Salka, "A simple Method for the Synthesis of Some 1,2-Diazocines," *Tetrahedron Letters*, 25,2577 (1984).
58. M. J. Haddadin, A. M. Kattan, and C. H. Issidorides, "Oxidative Elimination of Nitrous Acid from Nitrate Esters. Preparation of Mecadox." *J. Org. Chem.* , 50,
59. M. J. Haddadin and J. P. Freeman, "Oxaziridenes," in "Heterocyclic Compounds." A Hassner, Ed. , J .Wiley and Sons, N. Y. ,Vol. part 3.1985, 243-450.
60. S. H. Demirdji, M. J. Haddadin and C. H. Issidorides, "Facile Synthesis of Furans from 2-Ene-1,4-diones by Diphosphorus Tetaiodide," *J. Heterocyclic Chem.*, 22, 495 (1985).

61. M. Boldt, G. Gaudiano, M. J. Haddadin, and T. H. Koch, "Formation and Autocatalytic Destruction of the Quinone Methide from Reductive Cleavage of Menogaril," *J. Am. Chem. Soc.*, 110, 3330 (1988).
62. M. Boldt, G. Gaudiano, M. J. Haddadin, and T. H. Koch, "Formation and Reaction of the Quinone Methide from Reductive Cleavage of the Antitumor Drug Menogaril," *J. Am. Chem. Soc.*, 111, 2283 (1989).
63. G. Gaudiano, M. Egholm, M. J. Haddadin, and T. H. Koch, "Trapping of the Quinone Methide from Reductive Cleavage of Menogaril with the Nitrogen Nucleophile Imidazole," *J. Org. Chem.*, 54, 5090 (1989).
64. M. J. Haddadin, M. S. Samaha, and A. B. Hajj-Ubayd, "Preparation of Some Naphto [2.3-f] Isoindoles," *Heterocycles*, 33, 541 (1992).
65. M. J. Haddadin and C. H. Issidorides, "The Beirut Reaction," Review, *Heterocycles*, 35, 1503 (1993).
66. M. J. Haddadin, Y. Wang, S. Frenkel, S. G. Bott, L. Yang, P. S. Braterman, C. Carvallo, A. Marchand, W. Watson, R. Kashyap, M. Drawiec and S. Bourne, "Synthesis of Novel Heterocyclic Clefs Derived from Tetracyclo [6.3.0.0^{4,11}.0^{5,9}] undecane-3, 6-dione and tricyclo-[6.3.0.0^{2,6}] undecane-3,11-dione," *Heterocycles*, 37 (2) , 869 (1994).
67. H. G. Muhtasib, M. J. Haddadin, M. Nazer and N. M. Soudir, "Photoprotective Effects of some quinoxaline-1,4-dioxides in hairless mice." *Medical Oncology*, 15, 262 (1998)
68. M. J. Haddadin, M. J. Kurth and M. M. Olmstead, "One step Synthesis of new Heterocyclic azacyanines." *Tetrahedron Letters*, 41, 5613-5616 (2000)
69. M. Z. Nazer and M. J. Haddadin, "Reactions of TCU with o-Nitrobenzaldehyde." *Heterocycles*, 53, No. 10, 2221 (2000)
70. R. E. Sammelson, M. M. Olmstead, M. J. Haddadin and M. J. Kurth, '1,2,4,5,-Tetrazines as Oxidant and Reactant with DBU: an Unexpected Formation of Novel Fused Tetraheterocyclic Azepine.', *J. Org. Chem.* 65, 9265 (2000).
71. H. G. Muhtasib, M. J. Haddadin, and D. Rahhal, and I. H. Younes, "Quinoxaline 1,4-dioxides as anticancer and hypoxia-selective drugs", *Oncology Reports*, 8, 684 (2001).
72. K. S. Huang, M. J. Haddadin, M. M. Olmstead and M. J. Kurth, "Synthesis and Reactions of Heterocyclic Azacyanines", *J. Org. Chem.* 66, 1310 (2001).
(Dedicated to professor Costas H. Issidorides on the occasion of his eightieth birthday).

73. L.V.J.Galietta, M.F.Springsteel, M.Eda, E.J.Niedzinski, K.By, M. J. Haddadin, M.J.Kurth, M.H Nantz and A.S.Verkmán, "Novel CFTR Chloride Channel Activators identified by screening of Combinatorial Libraries based on Flavone and Benzoquinolinizinium lead Compounds", *J.Biol.Chem.*, 276 (23), 19723, (2001).
74. K. S. Huang, M. J. Haddadin, and M. J. Kurth, "Imidazopyridinium and Pyridopyridinium Bromides: Synthesis and Hydrolysis", *J. Org. Chem* 67, 12382 (2002).
75. M. Assaf-Diab, M. J. Haddadin, P. Yared, C. Al-Assaad, and H. U. Gali-Muhtasib, "Quinoxaline 1,4-dioxides: Hypoxia-Selective Therapeutic Agents", *Molecular Carcinogenesis* 33, (4), 198, (2002).
76. R. Renno, M. Terrada, M. J. Haddadin, F.C. Delori, J. W. Gragoudas, and J. W. Miller" " Selective Photodynamic Therapy by Targeted Verteporfin Delivery to Experimental Choroidal Neovascularization Mediated by Homing Peptide to Vascular Endothelial Growth Factor Receptor-2", *Archives of Ophthalmology*, 122 (7), 1002-1011 (2004).
77. H. Gali-Muhtasib, M. Sidani, F. Geara, M. Assaf-Diab, J. Al –Hmaira, M. J. Haddadin and G. Zaatari, "Quinoxaline 1,4 –dioxides are novel angiogenesis inhibitors that potentiate antitumor effects of ionizing radiation". *Int. J. Oncology.*, 24 (5), 1121-1131 (2004).
78. S. Harakeh, M. Diab-Assaf, M. El-Sabban, M. Haddadin and H. Ghali-Muhtasib, "Inhibition of Proliferation of Apoptosis by 2-Benzoyl-3-Phenyl-6,7-Dichloroquinoxaline 1,4-Dioxides". *Chemico-Biological Interactions*, 101-113, 148(3), 2004
79. M. J. Kurth, M.M. Olmstead and M. J. Haddadin, "claimed 2,1-Benzisoxazoles Are Indazoles" *J. Org. Chem.* 70, 1060-1062 (2005)
80. Hala U. Gali-Muhtasib, Mona Diab-Assaf, Makhluף J. Haddadin, "quinoxaline 1,4-dioxides Induce G2/M Cell Cycle Arrest and Apoptosis in Human Colon Cancer Cells", *Cancer Chemotherapy and Pharmacology*, 369-378, 55(4), 2005.
81. Y.F.Suen, H.Hope, M.H.Nantz, M.J. Haddadin and M.J.Kurth,"A Novel Route to Fully Substituted 1-H- Pyrazoles" *J.Org.Chem.*, 8468-8741,70,2005.
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83. Mills, Aaron D.; Nazer, Musa Z.; Haddadin, Makhluף J.; Kurth, Mark J. **N,N-Bond-Forming Heterocyclization: Synthesis of 3-Alkoxy-2H-indazoles.** *Journal of Organic Chemistry* (2006) 71(7), 2687-2689.

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85. Fernainy, Pamela; Sidani, Mazen; Haddadin, MakhluF; Gali-Muhtasib, Hala. **Radiosensitizers as chemotherapeutic agents.** Horizons in Cancer Research (2006), 34(New Topics in Cancer Research), 1-35. Fernainy, Pamela; Sidani, Mazen; Haddadin, MakhluF; Gali-Muhtasib, Hala. **Radiosensitizers as chemotherapeutic agents.** Trends in Chemotherapy Research (2006), 53-87.
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87. Mills, Aaron D.; Maloney, Patrick; Hassanein, Elsayed; Haddadin, MakhluF J.; Kurth, Mark J. **Synthesis of a library of 2-alkyl-3-alkyloxy-2H-indazole-6-carboxamides.** Journal of Combinatorial Chemistry (2007), 9(1), 171-177.
88. **A Facile Synthesis of New 5H-Indazolo [3,2-b]benzo[d]-1,3-oxazines via One-Pot Intramolecular Bis-heterocyclizations.** Bulter, Jeffrey D.; Solano, Danielle M.;Robins, Lori I.; Haddadin, MakhluF J.; Kurth, Mark J. Journal of Organic Chemistry (2008), 73(1), 234-240.
89. Haykal, Joelle; Fernainy, Pamela; Itani, Wafica; Haddadin, MakhluF; Geara, Fady; Smith, Colin; Gali-Muhtasib, Hala. **Radiosensitization of EMT6 mammary carcinoma cells by 2-benzoyl-3-phenyl-6,7-dichloroquinoxaline 1,4-dioxide.** Radiotherapy and Oncology (2008), 86(3), 412-418.
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93. M.J. Haddadin, Ebrahim Ghazvini Zadeh; A Novel Method for the Synthesis of 3,5-Disubstituted-(NH)-1,2,4-triazoles from 3,6-diaryl-1,2,4,5-tetrazines, Tetrahedron Letters, 2010, 1654-1656.

94. M.B.Donald, W.E. Conrad, J.S.Oakdale, J.D.Butler ,M.J.Haddadin, M.J.Kurth, Nucleophilic Substitution of Oxazino-/Oxazolino [3,2-b]indazolones:An Effective Route to 1H-Indazolones, *Organic Letters*,2010,12(11), 2524-2527.
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Patents with the late Emeritus Professor C.H Issidorides (The Beirut Reaction)

Country	Number	Issue Date
1) United States	3,398,141	August 20, 1968
2) United States	4,343,942	August 10, 1982
3) United States	4,866,175	December 12, 1989
4) Argentina	164.876	Feb 7, 1969
5) Argentina	173.150	November 3, 1969
6) Argentina	175.133	February 11, 1970
7) Argentina	175.134	February 11, 1970
8) Australia	420.138	February 1, 1967
9) Australia	430.204	November 6, 1967
10) Australia	463.372	December 1, 1975
11) Australia	469.770	February 6, 1967
12) Australia	497.214	November 23, 1967
13) Belgium	712.379	March 18, 1968
14) Belgium	734.065	June 4, 1969
15) Canada	836.566	March 10, 1970
16) Canada	1.002.523	December 28, 1976
17) Chile	22.739	October 17, 1968

18) Chile	23.063	January 15, 1969
19) Denmark	120.800	December 13, 1971
20) Denmark	124.886	December 13, 1971
21) Denmark	137.493	December 13, 1971
22) France	1,583,663	October 20, 1969
23) Germany	P1620180	February 2, 1980
24) Great Britain	1.134.729	June 20, 1967
25) Great Britain	1.215.815	December 20, 1967
26) Great Britain	1.305.138	February 18, 1970
27) Great Britain	1.308.370	October 5, 1970
28) Iran	7.051	November 2, 1967
29) Japan	547.262	June 30, 1969
30) Japan	608.692	June 10, 1971
31) Japan	752.855	April 13, 1974
32) Japan	1,026,696	December 25, 1980
33) Mexico	93.413	February 9, 1967
34) Mexico	96.444	June 15, 1967
35) Mexico	99.186	November 4, 1974
36) Netherlands	142.963	December 17, 1974
37) Pakistan	119.538	November 7, 1967
38) Spain	347.329	October 16, 1968
39) Sweden	367.414	September 5, 1974
40) Sweden	7101280-1	March 10, 1977
41) Sweden	7311829-1	October 5, 1978
42) Switzerland	473.815	November 7, 1967
43) Trinidad	12/66	February 24, 1966
44) Costa Rica	1.883	February 27, 1973
45) Malaysia	195/1973	April 18, 1973
46) Singapore	28/1973	January 23, 1973

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. Member of the American Chemical Society
2. Member of Phi Lambda Upsilon
3. Member of the Advisory Board of the Journal "Archives of Organic Chemistry".

RECENT OTHER ACADEMIC ACTIVITIES

1. Chairman, Academic Development Committee, 1988-1994, Member, 1994-1997
2. Chairman of the Board of Graduate Studies, 1975 - 78, 1988 - 1999
3. Member of the University Senate, 1976 - 79, 1979 - 82, 1984 - 86, 1987- 1999

4. Member of the University Admissions Committee, 1987 - 1999
5. Chairman of the University Research Board: 1979 – 82, 1985 – 86, 1991 - 1999
6. Member of the Board of Deans, 1987 – 1999
7. Chairman of the University Financial Aid committee, 1994 – 1999
8. Chairman of the Tuition Deferment Committee, 1995 –1999

9. Chairman of the University Professional Conduct Committee, 1994 – 1999
10. Member of the Budget Review Committee, 1994 – 1999
11. Member of Search Committees for: Dean of Arts and Sciences, 1997; Dean of Health Sciences, 1998, Provost, 1998 , Dean of Student Affairs, 1999, Dean of students affairs,2010
12. Chairman, Task Force on Re- Launching of Ph. D. Programs at AUB, Jan. 2001.
13. Member, Search Committee for the Shaikh Zayid Chair in Islamic studies, March 2001.
14. Chair, Search Committee for the Shaikh Zayid Chair for Islamic and Arab studies, Jan. 2002.
15. Member, Search Committee for the Jewett Chair in Arabic, May 2003.
16. Chair, Ad-Hoc Committees on Professional Conduct 1991-1995.
17. Occasional reviewer for professional journals.
18. Member of the evaluation Committee for the Kuwait Foundation Prizes (May 23-28 ,2015)
- 19- Chair, the Diana Tamari Sabbagh Scholarship Program. (July 2015- Present
- 20-Member , Executive Committee on the 150th Anniversary of the American University of Beirut Sept.2015-Present

COMMUNITY SERVICE:

1. Member of the Board of Trustees of the University of Balamand, Lebanon.
- 2-Executive Chair, Academic Committee of the of the Board of Trustees, University of Balamand
- 3--Member, Executive Committee of the Board of Trustees, University of Balamand