

PERSONNEL

Prof. Henry J. Zimmermann, Director
Prof. John G. King, Associate Director

Advisory Committee

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Research Committee

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(Chairman)

Professors

Adler, Richard B.	Frishkopf, Lawrence S.	O'Neil, Wayne A.
Allis, William P. *	Gallager, Robert G.	Peake, William T.
Barrett, Alan H.	Gyftopoulos, Elias P.	Penfield, Paul L., Jr.
Bekefi, George	Hale, Kenneth L.	Penman, Sheldon
Bers, Abraham	Halle, Morris	Pomorska, Krystina
Bose, Amar G.	Harris, James W.	Ross, John R.
Bromberger, Sylvain†	Harvey, George G. *	Schnelle, Helmut‡
Brown, Sanborn C.	Haus, Hermann A.	Schreiber, William F.
Bruce, James D.	Ingard, K. Uno	Searle, Campbell L.
Burke, Bernard F.	Jakobson, Roman	Siebert, William M.
Chen, Sow-Hsin	Katz, Jerrold J.	Smullin, Louis D.
Chomsky, A. Noam	Kennedy, Robert S.	Stevens, Kenneth N.
Coppi, Bruno	King, John G.	Stickney, Robert E. †
Davenport, Wilbur B., Jr.	Kiparsky, R. Paul V.	Strandberg, Malcolm W. P.
Dupree, Thomas H.	Kleppner, Daniel	Van Trees, Harry L. †
Eden, Murray	Kyhl, Robert L.	Weiss, Rainer
Edgerton, Harold E. *	Lee, Francis R.	Yip, Sidney
Elias, Peter	Lettvin, Jerome Y.	Zacharias, Jerrold R. *
Fodor, Jerry A.	Matthews, G. Hubert†	Zimmermann, Henry J.
	McCune, James E.	

Associate Professors

Allen, Jonathan	Garrett, Merrill F.	Shapiro, Jeffrey H.
Baggeroer, Arthur B.	George, E. Victor	Sigmar, Dieter J.
Blessner, Barry A.	Kong, Jin-Au	Staelin, David H.
Braida, Louis D.	Lidsky, Lawrence M.	Taylor, Robert J.
Burns, Stephen K.	Mark, Roger G.	Troxel, Donald E.
Colburn, H. Steven	Oppenheim, Alan V.	Weiss, Thomas F.
Ezekiel, Shaoul	Perlmutter, David M.	Young, Ian T.
	Price, R. Marcus	

* Emeritus

† Absent

‡ Visiting

PERSONNEL

Assistant Professors

Gupta, Madhu S.	Oman, Charles M.	Sussman, Gerald J.
Muehlner, Dirk J.	Politzer, Peter A.	Willemain, Thomas R.
	Pritchard, David E.	

Lecturers

Durlach, Nathaniel I.	Hoversten, Estil V.	Piankian, Robert A.
Hall, Robert D.	Kiang, Nelson Y. S.	Smith, Arthur A.
Houtsma, Adrian J. M.	Moxon, Edwin C.	Walker, Edward C. T.

Research Associates and Postdoctoral Fellows

Cardillo, Mark J. (1)	Kunzi, Klaus F.	Pettijohn, David O.
Galatsis, Anthony G.	Mersereau, Russell M.	Rosenkranz, Philip W.
Guinan, John J., Jr.*	Nedzelitsky, Victor	Stefanski, Raymond A.
Henke, William L.	Ozonoff, David M.	Walker, Edward C. T.
Hewlett, Martin J.	Peterson, John W.	Weaver, James C.
Klatt, Dennis H.		Zamir, Ehud

Research Staff

Barrett, John W.	Huggins, A. W. F.	O'Brien, Frank J.
Benford, Richard L.	Hunnicut, M. Sharon	Okin, Kenneth
Bertschy, John	Hurtig, Richard	Pangaro, Paul A.
Carroll, Francis X.	Jensen, Eric R.	Papa, D. Cosmo
Clements, George N.	Kiang, Nelson Y. S.	Parker, Ronald R.
Coleman, John W.	Kierstead, John D.	Raymond, Stephen A.
Ducas, Theodore W.	McCarthy, John J.	Rewoldt, Gregory
Durlach, Nathaniel I.	McKenzie, John A.	Ross, Arthur H. M.
Fakhr, Ali M.	Miller, Perry L.	Sher, Stephanie E.
Freeman, Richard R.	Mulligan, William J.	Vincent, Ernest
Gruberg, Edward R.	Myers, Philip C.	Walters, Joseph B., Jr.
Hagerich, Jeffrey A.	Naus, Mary J.	Wolf, Catherine D.

Visiting Scientists and Guests

Aoyama, Tomonori	Furrow, Donna J. N.	Rudanko, M. Juhani
Apgar, Edward G.	Grilli, Enrico	Schep, Tiete J.
Ascoli-Bartoli, Ugo	Gronemann, Uri F.	Schuler, Peter
Blumstein, Sheila E.	Hubelbank, Mark	Steele, Susan M.
Bonnilla, Alex	Jacobsen, Edward H.	Tyukhtin, Mikail
Bosia, Giuseppe F.	Jaffe, Conrade C.	Vaissière, Jacqueline
Brusadin, Alberto	Kawakubo, Tatsuyuki	Van Heijningen, Rudy
Cerrillo, Manuel V.	Meddens, Bernard J. H.	Van Riemsdijk, Hendrik C.
Chong, Augustine	OrNSTEIN, Lodewyk T. M.	Vattuone, Bartolo
DeKock, Bert C. J. M.	Pieron, Leonardo	Yuen, Horace P. H.
Eckman, Fred R.	Pranevychius, Liudvikaf	Zwarts, Franciscus

(1) Petroleum Research Fellow

* Absent

PERSONNEL

Research Affiliates

Adams, Joe C.	Drake, J. Michael	Marr, Elizabeth M.
Altmann, David W.	Fraeman, Martin E.	Menyuk, Paula
Barlow, John S.	Funkenstein, H. Harris	Mulroy, Michael J.
Bernstein, Jared C.	Gaiman, Barry	Putney, Estil
Bowie, Jack E.	Gerchberg, Ralph W.	Rhodes, Charles K.
Brill, Michael H.	Hoff, Paul W.	Steffens, David A.
Bullowa, Margaret	Howell, Richard P., IV	Tripp, Alton P., Jr.
Cohen, Samuel A.	Howland, Bradford (1)	Wacks, Kenneth P.
Crist, Alan H.	Kessler, Allan R.	Williams, Katherine L.
	Kfoury, Denis J.	

Instructors

Henshaw, Philip D.	Perkell, Joseph S.	Punsky, Norman D.
Montress, Gary K.		Toong, Hoo-min D.

Research Assistants

Apt, Jerome, III	Hershcovitch, Ady	Okrent, Howard F.
Ausschnitt, Christopher P.	Ho, Paul T.	Orzechowski, Thaddeus J.
Baer, Thomas	Holcomb, Terry L.	Pant, Aniket
Baloga, John D.	Hsia, James C.	Pettyjohn, Ronald L.
Bourk, Terrance R.	Jarrell, Joseph A.	Phillips, William D.
Brodsky, Wesley G.	Kaplan, Samuel	Pine, Gerald D.
Callaham, Michael B.	Kim, Wha-Chun M.	Portnoff, Michael R.
Carter, Gary M.	Klovstad, John W.	Primmerman, Charles A.
Chambers, Frank W.	Krasner, Michael A.	Rabinowitz, William
Chan, Vincent	Kuklinski, Theodore T.	Robinson, Stanley R.
Cooke, William E.	Kulp, John L., Jr.	Shillman, Robert J.
Cox, Charles H.	Lam, Kai-Shue	Short, William R.
Crane, Patrick C.	Ledsham, William H.	Silver, Bruce
Cuddy, David R.	Lee, Sylvester	Simmons, Charles E.
Davis, Mark F.	Leverette, Steven J.	Singhal, Vijay K.
Dolinar, Samuel J., Jr.	Levinstone, Donald S.	Stern, Richard M., Jr.
Dylla, H. Frederick	Liebesny, John P.	Sun, Anthony
Finn, Steven G.	Littman, Michael G.	Tekula, Miloslav
Fisch, Nathaniel J.	Lo, Kwok-Yung	Theilhaber, Kim
Flower, Richard A.	Lynn, Charles W.	Tye, Bik-Kwoon
Forbes, Alan R.	Maeda, Shinji	Udin, Susan B.
Frerking, Margaret A.	Manichaikul, Yongyut	Vincent, Ernest D.
Giuffrida, Thomas S.	Martin, François	Walker, Robert C.
Glasser, Lance A.	Martin, Robert N.	Werner, Charles W.
Golden, Jeffrey	Maslak, Samuel H.	Wildman, David W.
Goldhor, Richard S.	Metzer, Louis S.	Woisetschlaeger, Erich F.
Golub, Howard L.	Miller, George E.	Wu, Frederick Y-F.
Haschick, Aubrey D.	Myung, Nam-Soo	Youmans, Douglas G.
Hersey, Harlan S.		Zue, Victor W.

Teaching Assistants

Ackerman, Jerome L.	Ceglio, Natale M.	Choong, Tsi-Pin
Bonn, Jerrold	Chan, Hark C.	Clark, Becky J.

(1) Lincoln Laboratory Staff Member

PERSONNEL

Teaching Assistants (continued)

Davis, James L.	Lee, Ping	Putnam, Roger S.
Ehst, David A.	Marzetta, Thomas L.	Schluter, Paul S.
Fisher, Jay L.	McGahan, Robert V.	Shepard, Neil T.
Forsdick, Harry S.	Mezrich, Bernard	Silver, Bruce R.
Harris, David B.	Mniece, James R.	Singer, Elliot
Herman, Philip W., Jr.	Neff, Bruce L.	Strangio, Christopher E.
Keshner, Marvin S.	Njoku, Eni G.	Theodoru, Alexander S.
Komm, David S.	Parl, Steen A.	Tsang, Leung
Kuo, Sze-Ping	Poklemba, John J.	Wang, Yi-Ming
	Pusey, Leroy C.	

Other Graduate Students

Ades, Anthony E. (1)	Drake, Caleb J. (8)	Jeanne, LaVerne M. (18)
Ahmad, Riad N.	Ellis, James R., Jr. (13)	Jernigan, Marvin E. (6)
Andrews, Avery D. (2)	Englander, Irvin S.	Johnson, Don Herrick (6)
Aronoff, Mark H. (3)	Fiengo, Robert W., Jr. (6)	Kahn, Daniel (6)
Baan, William A. (4)	Frazier, Ronald H. (14)	Kau, Clayton K. S. (6)
Baden-Kristensen, Keld (5)	Gallant, Robert P.	Kean, Mary-Louise (6)
Bahler, Lawrence G. (2)	Galvao, Ricardo M. O. (15)	Kinnaird, Richard C. (16)
Bechis, Kenneth P.	Ganong, William F., II	Knecht, Laura E. (6)
Bell, Sarah J. (6)	Garel, Keith C., Jr.	Kopec, Gary E. (23)
Bhartiya, Veer V. (7)	Gibbons, Walter E. (16)	Kovacs, Zsolt L. (24)
Binder, Michael J. (6)	Gilkes, Alan M. (17)	Kullberg, Craig M.
Bishop, Robert P. (6)	Gluss, David H.	Lebne-Dengel, Zemen (25)
Boyle, Brian E. (2)	Goldsmith, John A. (6)	Levin, Ronald L. (2)
Breuer, Charles T. (8)	Goldstein, Ursula G. (6)	Lieberman, Mark Y. (2)
Burr, Charles R. (6)	Gray, Harrold W. (18)	Linden, Lynette L. (6)
Carrier, Jill L. (6)	Grove, Robert E. (19)	Lippman, Richard P. (6)
Chang, Franklin R.	Gwarek, Wojciech K. (20)	Lynch, Thomas J. (6)
Chao, Yao-Ming (9)	Haas, Rene M.	Lysy, Dusan G. (22)
Chow, Wing Shek	Hackel, Lloyd A. (11)	Makowski, Lee C. (6)
Chrisman, Paul W., Jr. (10)	Haraguchi, Shosuke (21)	Margosian, Paul M.
Cohen, Michael A. (6)	Hentall, Ian D. (19)	Marsicano, Dennis V.
Conrad, Chester H. (6)	Hicks, Bruce L. (6)	Martin, Susan E. (2)
Cook, Donald L. (11)	Himes, John G. (2)	Mascaro, Juan (26)
Cooper, William E.	Hirshman, Steven P. (2)	Massa, Gerard P.
Coueignoux, Philippe (12)	Humblet, Pierre A. (22)	May, Robert C. (6)
Domnitz, Robert H. (6)	Jabbawy, Saeed Z.	Megill, Norman D. (2)
Dowling, Neal B. (6)		Metzger, Robert J. (2)

(1) M. I. T. Intramural Fellow	(14) U. S. Coast Guard
(2) NSF Fellow	(15) Brazilian Government Fellow
(3) Canada Council Doctoral Fellowship	(16) Bell Telephone Laboratories Fellow
(4) NASA International Fellow	(17) U. S. Air Force
(5) Copenhagen University Senior Stipend	(18) Ford Foundation Fellow
(6) NIH Trainee	(19) RLE Industrial Fellow
(7) India Ministry of Education Scholarship	(20) Polish Foundation Fellow
(8) NSF Trainee	(21) Japanese Government Fellow
(9) Republic of China Government Fellow	(22) M. I. T. Sloan Research Trainee
(10) Thompson Fellow	(23) Hertz Foundation Fellow
(11) National Defense Education Act Fellow	(24) Research Foundation San Paolo
(12) French Government Fellow	(25) Unassigned M. I. T. Scholarship
(13) M. I. T. Endowed Fellow	(26) March Foundation Fellow

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Other Graduate Students (continued)

Miller, Arthur R. (1)	Rivas, Alberto M. (10)	Tetreault, David J. (6)
Miller, John L. (2)	Roth, Paul A. (11)	Theriault, Kenneth B. (2)
Milsark, Gary L. (3)	Sag, Ivan A. (3)	Thiersch, Craig L. (18)
Morgan, Paul E. (4)	Saidel, William M. (3)	Throop, Alan E. (2)
Moura, José M. F. (5)	Saleh, Naser (12)	Tole, John R. (3)
Newman, Eric (3)	Schoendorfer, Don W. (13)	Tribolet, José M. (5)
Oehrle, Richard T. (3)	Scudder, Charles A.	Tung, Leslie (3)
O'Shaughnessy, Douglas D. (2)	Shattuck, Stefanie R. (14)	Vianna, Marcio L. (19)
Overskei, David O. (6)	Sianez-Gutierrez, Jorge (15)	Waddell, Bruce V. (20)
Owens, D. Kingston (6)	Siegel, Dorothy (3)	Wall, Joseph E., Jr. (2)
Pannatoni, Ronald F. (2)	Simonutti, Mario (8)	Watson, Duncan C. (6)
Pasquaretti, Louis R.	Smith, Charles E. (3)	Wiegner, Allen W. (3)
Paul, Douglas B. (2)	Solomon, Robert D.	Williams, Gregory (2)
Platero, Paul R. (7)	Sparer, Alan W. (3)	Wolfe, Stephen M.
Price, Robert H. (8)	Spriet, Jan A. (16)	Wolfson, Harvey M. (21)
Prince, Alan S. (3)	Steingart, Robert J. (3)	Wong, Tonny Y. (22)
Prosnitz, Donald (6)	Stephens, Peter W. (17)	Wright, Francine E. (23)
Purks, Stephen R. (2)	Stiefel, Michael D.	Wu, Frederick Y-F. (20)
Reinhart, Tanya (9)	Sulman, David L. (3)	Yamada, Kohei (24)
Rhyne, Theodore L.	Tarvin, Jeffrey A. (2)	Zack, Gregory W. (3)

Undergraduate Students

Abrams, Sheri	Chernick, Paul L.	Dix, David P.
Ambros, Victor R.	Ching, Dennis T.	Doerre, George W.
Au Yeung, John C.	Chinn, Norma G.	Eckel, David S.
Babecki, Glenn R.	Chow, Edward Y.	Fiedler, Ralph L.
Bacon, David P.	Chow, Mark D.	Fiekowsky, Peter J.
Bates, Steven L.	Clausing, Stephen	Fisher, Alan S.
Beaman, Peter D.	Cook, Carolyn L.	Floyd, Linton E., IV
Bendt, Paul P.	Cook, Harold M.	Freedman, Robert A.
Bessen, Peter	Corfman, Michael A.	Frueh, Jonathan T.
Bogatín, Eric	Cunningham, Franklin	Fulton, Scott P.
Borish, Jeffrey G.	Cunningham, Peter M.	Gates, Sylvester J.
Brodie, Howard	Dash, Glen R.	Gellineau, Antonio C.
Bromley, Peter W.	Davies, Neil J.	Gissen, David
Brown, Melvin	Deemer, Kenneth M.	Glaser, Charles L.
Bryan, David	Der, Chung-Kwong	Gonzalez, Manuel T.
Buchholz, John C.	DeWitt, Gregory S.	Grant, Stephen J.
Carter, Everett F.	Dietz, Jonathan A.	Griffith, John D.
Cassel, Alan L.	DiLoreto, John R.	Gula, James L.

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| (1) U.S. Air Force | (13) NIGMS Fellow |
| (2) NSF Fellow | (14) NIMH Fellow |
| (3) NIH Trainee | (15) Mexican Government Fellow |
| (4) U.S. Army | (16) ITT Fellow |
| (5) Inst. Alta Cultura (Portugal) Fellow | (17) M.I.T. Karl T. Compton Fellow |
| (6) RLE Industrial Fellow | (18) Danforth Foundation Fellow |
| (7) Ford Foundation Fellow | (19) National Research Council of Brazil |
| (8) Hertz Foundation Fellow | (20) Sperry Rand Fellow |
| (9) Israeli Government Fellow | (21) Draper Fellow |
| (10) M.I.T. Endowed Fellow | (22) Raytheon Fellow |
| (11) NSF Trainee | (23) Special Graduate Student Program |
| (12) Jordanian Government Fellow | (24) Mitsubishi Elec. Corporation Fellow |

PERSONNEL

Undergraduate Students (continued)

Hagelstein, Peter L.	Moberly, David	Stabile, Lawrence A.
Haines, Lora L.	Mook, Douglas R.	Stein, Robert A.
Hasan, Ibrahim	Murotake, David K.	Stoltz, Janet D.
Hsieh, William K.	Offner, Kurt W.	Strasberger, Allen
Hsing, Warren W. M.	Ojemann, David	Succi, George P.
Hunter, Kevin	Olsen, Thomas	Swann, Dana A.
Ingram, Lawrence J.	Olson, James V., Jr.	Szklannik, Walter
Jeffrey, James A.	Orellana, Stephanie A.	Takuorian, Carol Rose
Kaplan, Martin C.	Perry, Linda C.	Terry, Paul W.
King, Charles H.	Richman, Vincent V.	Tyndall, Joseph S.
Kochanski, Thaddeus Y.	Roberts, Dana L.	Vidic, Thomas R.
Lake, Anthony	Rubenstein, Kenneth	Wade, Donald A.
Laurenson, Robert C.	Rubin, Lawrence M.	Walkowski, Yvonne M.
Lawrence, John D.	Sabatine, Philip J.	Walton, James J.
Lee, Robert S.	Sanchez, Ricardo L.	Wan, John C.
Lieberman, Paul M.	Schaffer, Eric J.	Weisberg, Andrew H.
Liebschutz, Jack	Schein, Raphael T.	White, Jonathan C.
Lim, Jae S.	Scher, Gary M.	Winful, Herbert
Lindquist, James B.	Schultz, Jane A.	Wong, Wallace K-F.
Look, Yum H.	Schulz, Peter A.	Woo, Junior K. C.
Lowry, Michael R.	Seidman, Roberta J.	Wynn, Terry
Lyszczarz, Theodore	Seligson, Daniel A.	Young, Carl S.
Mason, Andrew H.	Slesinger, Steven W.	Yuan, Victor
Mason, Martin K.	Smith, Albert G.	Yue, Charles S-K.
Menhard, Henry R.	Solbrig, Marylou V.	Zimmerman, David M.
Mitchell, Marian L.		Zimmermann, Karl F.

Administrative Staff

Amdur, Alice S.	Duffy, Donald F.	McCarthy, Barbara L.
Bella, Charles J.	Hewitt, John H.	Smith, Paul L.
	Keyes, Richard V., Jr.	

Support Personnel

Aalerud, Robert W.	Doucette, Wilfred F.	Haggerty, Robert H.
Alpert, Melvin	Dufault, Francis X.	Hall, Kyra M.
Audette, Alfred G.	Duquette, Bruce E.	Hughes, Martin O.
Barron, Gladys	Eccles, Miriam R.	Kaloyanides, Venetia
Barrows, Francis W.	Edelman, Monica E.	Keefe, John B.
Berg, Arthur E.	Fitzgerald, Edward W., Jr.	Kelley, Frances A.
Besser, Anna Christina	Fownes, Marilyn R.	Kelly, Mark A.
Brill, Sarah L.	Frankel, Arthur E.	Kodish, Hedy
Bunick, Frank J.	Freedman, Deborah A.	Kopf, Cynthia Y.
Cabral, Manuel, Jr.	Garabieta, Ignacio	Lauricella, Virginia R.
Carter, Charles E.	Gay, Harry D.	Leach, George H., Jr.
Carter, James M.	Geary, Brian W.	Liljeholm, Frederick H.
Chartres, J. Margaret	Gerolamo, Jerry	Linton, Lynda D.
Chase, Arbella P.	Golden, Evelyn L.	Lorden, Gerald J.
Chihoski, George H.	Goldman, Leonard	Lucas, William G.
Clarke, Emerson L.	Grande, Esther D.	Lyall, Neena
Collier, M. Helene	Guberman, Joseph	MacElree, Ellen W.
Connolly, John T.	Gudaitis, Richard P.	Marshall, Rudolph
Cook, John F.	Haflich, Steven	Mastovsky, Ivan

PERSONNEL

Support Personnel (continued)

McAvenia, Gloria M.
McDowell, Patricia L.
McEntee, Doris C.
Mitchell, Joseph E.
Montesano, Eleanor E.
Muollo, Ralph E.
Muse, William J.
Navedonsky, Charles P.
Nelson, Sylvia A.
North, Donald K.
O'Brien, Neva M.
Ohm, Horace U.

Orenstein, Joseph W.
Pastore, Anthony J.
Peck, John S.
Peters, Nancy M.
Pierce, Abigail
Reimann, Walter
Rettman, Kenneth F.
Rice, Dianne D.
Riley, Joseph F.
Scalleri, Mary S.
Selden, Patricia A.

Sharib, George
Sianez, Yolanda G.
Sincuk, Joseph, Jr.
Smith, Clare F.
Taylor, Martha L.
Thibodeau, Donald S.
Tortolano, Antonio J.
Tylersmith, Theresa S.
Us, Denise M.
Wilker, Bonnie A.
Worley, Sherry L.
Young, Nancy E.

