

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.
Allis, William P.*
Barrett, Alan H.
Bekefi, George
Bers, Abraham
Bose, Amar G.
Bromberger, Sylvain
Brown, Sanborn C.*
Bruce, James D.
Burke, Bernard F.
Chen, Sow-Hsin
Chomsky, A. Noam
Coppi, Bruno
Davenport, Wilbur B., Jr.
Dupree, Thomas H.
Eden, Murray
Edgerton, Harold E.*
Elias, Peter †

Fodor, Jerry A.
Frishkopf, Lawrence S.
Gallager, Robert G.
Gyftopoulos, Elias P.
Hale, Kenneth L.
Halle, Morris
Harris, James W.
Harvey, George G.*
Haus, Hermann A.
Ingard, K. Uno
Jakobson, Roman
Katz, Jerrold J.
Kennedy, Robert S.
King, John G.
Kiparsky, R. Paul V.
Kleppner, Daniel
Kyhle, Robert L.
Lee, Francis R.

Lettvin, Jerome Y.
McCune, James E.
O'Neil, Wayne A.
Peake, William T.
Penfield, Paul L., Jr.
Pomorska, Krystina
Ross, John R.
Schreiber, William F.
Siebert, William M.
Smullin, Louis D.
Stevens, Kenneth N.
Strandberg, Malcom W. P.
Thornton, Richard D.
Van Trees, Harry L. †
Weiss, Rainer
Wozencraft, John M.
Zacharias, Jerrold R.*
Zimmermann, Henry J.

Associate Professors

Allen, Jonathan
Baggeroer, Arthur B.
Blessner, Barry A.
Braid, Louis D.
Burns, Stephen K.
Colburn, H. Steven
Ezekiel, Shaoul

Garrett, Merrill F.
Kong, Jin Au
Lidsky, Lawrence M.
Mark, Roger G.
Oppenheim, Alan V.
Perlmutter, David M.
Pritchard, David E.

Shapiro, Jeffrey H.
Sigmar, Dieter J.
Staelin, David H.
Troxel, Donald E.
Weiss, Thomas F.
Woo, James T. ‡
Young, Ian T. †

*Emeritus

†Absent

‡Visiting

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Assistant Professors

Chu, Flora Y-F.	Myers, Philip C.	Sussman, Gerald J.
Gupta, Madhu S.	Oman, Charles M.	Toong, Hoo-min D.
Joannopoulos, John D.	Politzer, Peter A.	Warde, Cardinal ‡
McClellan, James H.	Segall, Adrian	Waxman, Stephen G. ‡
Muehlner, Dirk J.		Willemain, Thomas R.

Lecturers

Durlach, Nathaniel I.	Kiang, Nelson Y. S.	Searle, Campbell L.
Houtsma, Adrian J. M.	Piankian, Robert A.	Smith, Arthur A.

Research Associates and Postdoctoral Fellows

Brill, Michael H.	Jernigan, Marvin E.	Pisoni, David B.
Cooper, William E.	Johnston, George L.	Reed, Charlotte M.
Ducas, Theodore W.	Kean, Mary-Louise	Rosenfield, David B.
Ehst, David A.	Klatt, Dennis H.	Rosenkranz, Philip W.
Gruberg, Edward R.	Klein, Barbara	Rosenthal, Stanley R.
Guinan, John J., Jr.	Ozonoff, David M.	Solberg, Myrl E.
Henke, William L.	Pant, Aniket	Suchanek, Rodolf G.
Hewlett, Martin J.	Perkell, Joseph S.	Williams, Katherine L.
Hirshman, Steven P.	Peterson, John W.	Wolf, Catherine D.
Hufnagel, Stefanie S.	Pettijohn, David O.	Yuen, Horace P. H.

Research Staff

Abrams, Jerome H.	Hagerich, Allison G.	Mulligan, William J.
Barrett, John W.	Huggins, A. W. F.	Orzechowski, Thaddeus J.
Basu, Bamandas	Hunnicut, M. Sharon	Papa, D. Cosmo
Benford, Richard L.	Hunter, Kevin	Parrish, Alan
Boyle, Brian E.	Kiang, Nelson Y. S.	Raymond, Stephen A.
Chambers, Frank W.	Kierstead, John D.	Reiman, Allan H.
Coleman, John W.	McCarthy, John J.	Sher, Stephanie E.
Drake, Caleb J.	McKenzie, John A.	Shillman, Robert J.
Durlach, Nathaniel I.	Molvig, Kim	Tsang, Leung
Grove, Robert E.		Weaver, James C.

Visiting Scientists and Guests

Bertin, Giuseppe	DeMenna, Luciano	Pau, Louis-François
Blumstein, Sheila E.	Dougherty, Janet W. D.	Pegoraro, Francesco
Carden, Guy	Jacobsen, Edward H.	Quicoli, Antonio C.
Cerrillo, Manuel V.	Kunt, Murat	Roy-Yarza, Armando
DeCampos, Jose A. S.	Lust, Barbara C.	Yasuhara, Makoto
	Oshima, Shin	

Research Affiliates

Altmann, David W.	Brown, Fielding	Crist, Alan H.
Barlow, John S.	Bullowa, Margaret	Domnitz, Robert H.

‡Visiting

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Research Affiliates (continued)

Dylla, Frederick H.
Fraeman, Martin E.
Gerchberg, Ralph W.
Hu, James V.
Hubelbank, Mark
Ingham, Kenneth R.
Kfoury, Denis J.
Laferrriere, Martha
Marr, Elizabeth M.

Menn, Lise
Menyuk, Paula
Miller, Perry L.
Moslin, Barbara J.
Mulroy, Michael J.
Nedzelniysky, Victor
Painter, Colin
Prosnitz, Donald

Quick, Donald C.
Savatsky, Steven J.
Scatton, Ernest A.
Scharf, Bertram
Schultz, Martin C.
Solomon, Robert D.
Steffens, David A.
Terry, James L.
Wacks, Kenneth P.

Instructors

Freeman, Richard R.

Research Assistants

Apt, Jerome, III
Ausschnitt, Christopher P.
Bates, Steven L.
Bourk, Terrance R.
Bromberg, Leslie
Brunner, Timothy A.
Burzio, Luigi
Camrass, Roger J.
Ceglio, Natale M.
Chan, Hark C.
Chang, Franklin R.
Chrisman, Paul W., Jr.
Cohen, Jeffrey
Combs, John A.
Cooley, John J.
Cook, Donald L.
Cooke, William E.
Cooper, John F.
Crane, Patrick C.
Davis, Mark F.
Delgutte, Bertrand
Ellis, James R., Jr.
Englander, Irvin S.
Fisch, Nathaniel J.
Fisher, Alan S.
Fisher, Arthur D.
Forbes, Alan R.
Frerking, Margaret A.
Giuffrida, Thomas S.
Glasser, Lance A.
Goldhor, Richard S.
Goldsmith, John A.
Golub, Howard L.
Gottlieb, Mark
Haschick, Aubrey D.
Hawkins, William J.
Hershcovitch, Ady
Ho, Paul T.

Holt, Anthony P.
Holz, Michael K. O.
Hsia, James C.
Humblet, Pierre A.
Irwin, Thomas B.
Janos, Alan C.
Jarrell, Joseph A.
Johanson, James M.
Johnston, Mark D.
Karney, Charles F. F.
Kegl, Judy Ann
Kenyon, Peter T.
Kim, Wha-Chun M.
Klinkowstein, Robert S.
Komm, David S.
Krasner, Michael A.
Kuklinski, Theodore T.
Kulp, John L., Jr.
Kunin, Jay S.
Lapatovich, Walter P.
Laskey, Kenneth J.
Ledsham, William H.
Lee, Sylvester
Leverette, Steven J.
Linebarger, Marcia
Littman, Michael G.
Lynn, Charles W.
Maby, Edward W.
Marsicano, Dennis V.
Martin, François
Martin, Robert N.
Mascaro, Juan
Montress, Gary K.
Moroney, Paul
Myung, Nam-Soo
Nash, David G.
Njoku, Eni G.
Nowak, Edward D.

Okrent, Howard F.
Orenstein, Joseph W.
O'Shaughnessy, Douglas D.
Ostler, Nicholas D.
Paik, Woo Hyun
Parr, Robert J.
Pasquarelli, Louis R.
Peterson, Scott K.
Pettyjohn, Ronald L.
Phillips, William D.
Portnoff, Michael R.
Price, Robert H.
Quatieri, Thomas F.
Rabinowitz, William
Ratzel, John N.
Reinhart, Tanya
Rice, John E.
Richards, Burton
Rivas, Alberto M.
Roquette, Robert E.
Rubenstein, Kenneth
Sag, Ivan A.
Schneps, Matthew H.
Serri, John A.
Short, William R.
Silver, Bruce R.
Singer, Elliot
Singhal, Vijay K.
Sperry, Steven V.
Stanley, Brian R.
Staron, Raymond J.
Stone, David S.
Succi, George P.
Tekula, Miloslav
Tetreault, David J.
Theilhaber, Kim
Thomas, Clarence E.
Throop, Alan L.

PERSONNEL

Research Assistants (continued)

Vlannes, Nickolas P.	Wildman, David W.	Yee, James R.
Walker, Robert C.	Woisetschlaeger, Erich F.	Zimmerman, Myron L.
Wicke, Roger W.	Wu, Frederick Y-F.	Zue, Victor W.

Teaching Assistants

Beaman, Peter D.	Herring, James S.	Long, Jeffry R.
Buckley, Robert R.	Kash, Kathleen	Marzetta, Thomas L.
Ching, Dennis	Kline, Richard B.	McManamy, Thomas J.
Doughty, Gregory M.	Kuo, Sze-Ping	Putnam, Roger S.
Dyckman, Howard L.	Laning, David B.	Ross, Warren S.
Fish, Richard D.	Lee, Donald L.	Ruiz, Antonio
Goldwasser, Samuel M.	Lee, Ping	Schluter, Paul S.
Harris, David B.	Lesh, Michael D.	Simmons, Earl L.
Hayes, Monson H.	Lim, Jae S.	Stern, Richard M., Jr.
Herman, Philip W., Jr.		Strangio, Christopher E.

Other Graduate Students

Ahmad, Riad N. (1)	Bush, Marcia A.	Graham, Michael R.
An, Nguyen H.	Carrier, Jill L. (10)	Gray, Harrold W. (22)
Ansourian, Manoug M. (2)	Chao, Yao-Ming (14)	Grimes, Donald L.
Aravamudan, Krishna (3)	Chernick, Paul L.	Hackel, Richard P.
Baan, William A. (4)	Clark, Cheryl (15)	Hagelstein, Peter L. (2)
Baden-Kristensen, Keld (5)	Conrad, Chester H.	Hicks, Bruce L.
Bahler, Lawrence G. (6)	Cox, Charles H. (16)	Holford, Stephen K.
Balsamo, Salvatore R. (7)	Davis, James L. (10)	Holton, Thomas (10)
Baltin, Mark	Djermakoye, Boucar	Howard, Iris A.
Beguesse, Ian M.	Dolinar, Samuel J., Jr.	Howland, Bradford (10)
Bell, Sarah J. (8)	Duncan, David B. (10)	Hsu, Su Ling
Berzins, Valdis	Ferreira, Antonio (17)	Israeli, Eli
Bhanu, Bir (9)	Fisher, Jay L.	Jeanne, LaVerne M. (22)
Bishop, Robert P. (10)	Freeman, Dennis M. (6)	Kaplan, David L. (12)
Blumenthal, Steven (10)	Gallemore, James B. (18)	Kaplan, Martin C.
Boucher, Ronald E. (6)	Ganong, William F., III (6)	Karakawa, Masayuri
Branscomb, Harvie H.	Garel, Keith C., Jr. (19)	Keshner, Marvin S. (10)
Breuer, Charles T. (11)	Gellineau, Antonio C. (20)	Khan, Malik (23)
Brewer, Warren K. (12)	George, Leland M. (10)	Knecht, Laura E. (10)
Burmawi, M. Yousoof (13)	Goldstein, Ursula G. (10)	Kopec, Gary E. (2)
Burr, Charles R. (10)	Golestaani, Seyyed J. (21)	Kullberg, Craig M.

(1) Jordanian Government Fellow	(13) Saudi Arabian Mission Fellow
(2) Hertz Foundation Fellow	(14) Republic of China Government Fellow
(3) Dupont Memorial Fellow	(15) National Fellowship Fund
(4) NASA International Fellow	(16) RLE Industrial Fellow
(5) Copenhagen University Senior Stipend	(17) Brazilian Government Fellow
(6) NSF Fellow	(18) U.S. Navy
(7) U.S. Air Force	(19) Jamaica Scholarship
(8) Collemore Roger Fellow	(20) Bell Telephone Laboratories Fellow
(9) National Scholarship India	(21) Iranian Government Fellow
(10) NIH Trainee	(22) Ford Foundation Fellow
(11) NSF Trainee	(23) Pakistani Government Fellow
(12) ERDA Fellow	

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Other Graduate Students (continued)

Lasche, George P.	Palevsky, Alan	Steingart, Robert J. (2)
Laurenson, Robert C.	Paul, Douglas B. (6)	Stephens, Peter W. (15)
Leslie, David I. (1)	Perlmutter, Yvonne M.	Stiefel, Michael D.
LeSourd, Philip S. (2)	Picheny, Michael A. (8)	Swartz, Kenneth P.
Levinstone, Donald S. (2)	Platero, Paul R. (9)	Tebyani, Mahmoud (16)
Linden, Lynette L. (2)	Potok, Robert E.	Theriault, Kenneth B. (6)
Lipchak, Wesley	Ramon y Alarcon, Felipe D. (4)	Thiersch, Craig L. (17)
Lippman, Richard P. (2)	Rhyne, Theodore L.	Tole, John R. (2)
Lynch, Thomas J. (2)	Riordan, William J.	Tom, Victor (7)
Machado Mata, Jesus A.	Rosen, Stuart M. (6)	Toman, Jindrich
Malone, Ulick O. (3)	Rotenberg, Joel (6)	Tribolet, José M. (18)
Marroquin, José L. (4)	Saidel, William M. (2)	Tucker, Ben M.
Mason, Andrew H.	Saleh, Naser S. (10)	Tung, Leslie (2)
May, Robert C. (2)	Schechter, Bruce M.	Vanterpol, Ernesto (19)
McKinstry, Mark L. (5)	Schoendorfer, Donald W. (11)	Wall, Joseph E., Jr. (6)
Miller, John L. (6)	Sclove, Richard E.	Walters, Joseph B., Jr.
Mook, Douglas R. (2)	Seeley, James R. (12)	Wang, Bingseng (20)
Newman, Eric (2)	Shalloway, Mark A. (6)	Wang, Yi-Ming
O'Callaghan, Michael G.	Shao, Michael (13)	Wiegner, Allen W. (2)
Odette, Louis L.	Sheppe, Richard W., Jr.	Wolfe, Stephen M.
Olesik, Joseph T. (6)	Sianez-Gutierrez, Jorge (4)	Wong, Tonny Y. (21)
Ordubadi, Afarin	Sjoblom, Todd	Zack, Gregory W. (2)
Overskei, David O. (7)	Smith, Charles E. (2)	Zacharias, Greg L. (2)
Owens, D. Kingston (7)	Solbrig, Marylou V. (2)	Zuniga, Michael A. (22)
	Sparks, George W., Jr. (14)	

Undergraduate Students

Abels, Alicia M.	Blake, Stephen H.	Clements, Mark A.
Ackerman, William L.	Blatt, Stephen R.	Colliton, Terrance C.
Allen, Barry R.	Blau, Robert S.	Crawford, Thomas R.
Altman, Stuart H.	Blau, Stephen S.	Cunningham, Peter M.
Anderson, John R.	Bogatin, Eric	Dai, Cheng-Ti
Arapostathis, Aristotle	Boghosian, Bruce M.	DeWitt, Gregory S.
Babiak, John	Breen, Barry N.	Dillon, Robert F.
Bacon, David P.	Brown, Melvin	Doerre, George W.
Baker, Clark M.	Carrick, John C.	Eyler, Edward E.
Battye, William	Chang, Albert M-F.	Fenwick, John W.
Bauer, Steven M.	Chau, Cheuk L.	Ferguson, Edwin L.
Belli, Douglas A.	Cheng, David Y. D.	Fiedler, Ralph L.
Birrell, Steven E.	Chew, Weng-Cho	Fine, John S.

- | | |
|----------------------------------|---|
| (1) Kennedy Foundation Fellow | (12) U.S. Navy |
| (2) NIH Trainee | (13) Sloan Fellow |
| (3) ITT Fellow | (14) U.S. Air Force |
| (4) Mexican Government Fellow | (15) M. I. T. Karl T. Compton Fellow |
| (5) ERDA Fellow | (16) Iranian Government Fellow |
| (6) NSF Fellow | (17) Danforth Foundation Fellow |
| (7) RLE Industrial Fellow | (18) Inst. Alta Cultura (Portugal) Fellow |
| (8) Kodak Fellow | (19) Black-American Fund |
| (9) Ford Foundation Fellow | (20) Research Foundation Sao Paolo |
| (10) Jordanian Government Fellow | (21) Raytheon Fellow |
| (11) NIGMS Fellow | (22) IBM Fellow |

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Undergraduate Students (continued)

Frueh, Jonathan T.	Lake, Anthony	Richard, Stephen M.
Garner, Geoffrey M.	Lampron, Linda A.	Rosenschein, Robert S.
Geary, James L., Jr.	Lang, Stephen W.	Ruotolo, Bruce R.
Gennert, Michael A.	Lettvin, Jonathan D.	Sachs, Josef T.
Gipe, Michael A.	Leveckis, Algis S.	Sanchez, Ricardo L.
Glaser, Charles L.	Levine, Zachary H.	Sand, Robert J.
Goldstein, Stephan C.	Liebermann, Jerrold D.	Schick, Irwin C.
Gonzalez, Edwin	Linder, Barry J.	Schulz, Peter A.
Gonzalez, Manuel T.	Lowenhaupt, Manuel T.	Seidman, Roberta J.
Green, Jonathan B.	Macklem, David M.	Seligson, Daniel A.
Greenfield, Perry E.	Maebius, Richard E.	Shu, Jia H.
Hakimi, Farhad	Matson, Mark D.	Shure, Loren
Han, Ho Nam	Mayer, Rulon	Silverston, Cary
Hanschen, Thomas P.	McDonough, David F.	Smith, Neil
Hardis, Jonathan E.	Meyer, Edwin R.	Sorensen, John M.
Healy, Diana L.	Mitchell, H. Clyde	Sperber, Berndt R.
Hildum, Edward A.	Mojesky, Todd M.	Sweer, Leon W.
Hinshelwood, David	Morris, Craig T.	Szymkowiak, Andrew E.
Hoffmann, Ron M.	Moy, Danny	Terry, Paul W.
Houpis, Harry L. F.	Nawab, Syed H.	Tobis, Bruce J.
Ito, Takayoshi	Nigro, Georgia N.	Tyndall, Joseph S.
Jacobs, Rodney A.	Nilsson, Robert H.	Velasquez, Roberto
Johnson, Jon W.	Pajer, Gary	Villars, Frederick
Jones, Frederick A.	Parks, Lee	Walton, James J.
Jung, Charles F.	Perlstein, Yvonne C.	Wang, James
Kaplan, Jonathan	Photopoulos, Constantine	Withrow, Franklin E., III
Kaufman, Karen S.	Picard, Leonard	Wolinsky, Murray A.
Kaufman, Nathan E.	Rabinovici, Mark S.	Wong, Ronald H.
Kendall, Elizabeth A.	Razdow, Allen M.	Wynn, Terry
Kim, Sei Hee	Reisberg, Stephen A.	Young, Carl S.
Kuperstein, Michael	Rhymes, Jill A. R.	Young, David H.

Administrative Staff

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

Support Personnel

Aalerud, Robert W.	Chase, Arbella P.	Grande, Esther D.
Alpert, Melvin	Clarke, Emerson L.	Guberman, Joseph
Audette, Alfred G.	Collier, M. Helene	Haggerty, Robert H.
Barron, Gladys	Connolly, John T.	Hall, Kyra M.
Barrows, Francis W.	Cook, John F.	Hamilton, William H.
Bella, Rose Carol	Doucette, Wilfred F.	Hsia, Doris T-H.
Bloomer, Margaret R.	Eccles, Miriam R.	Hughes, Martin O.
Bunick, Frank J.	Edelman, Monica E.	Kaloyanides, Venetia
Cabral, Manuel, Jr.	Ellis, Holly W.	Keefe, John B.
Cahill, Joyce H.	Ferolito, Virginia P.	Kelley, Frances A.
Carter, Charles E.	Fitzgerald, Edward W., Jr.	Kelly, Mark A.
Carter, James M.	Foster, Stella J.	King, Eugenie M.
Casella, Barbara J.	Fownes, Marilyn R.	Kodish, Hedy
Chartres, J. Margaret	Gay, Harry D.	Kopacz, Linda K.

PERSONNEL

Support Personnel (continued)

Kopf, Cynthia Y.
Lauricella, Deborah A.
Lauricella, Virginia R.
Leach, George H., Jr.
Lewis, Ionia D.
Liljeholm, Frederick H.
Lorden, Gerald J.
Lorusso, Catherine
Lory, Barbara B.
Lyll, Neena
MacElree, Ellen W.
Mastovsky, Ivan

McDowell, Patricia L.
Mitchell, Joseph E.
Montesano, Eleanor E.
Muollo, Ralph E.
Muse, William J.
Naus, Gregory J.
Nelson, Sylvia A.
North, Donald K.
O'Brien, Neva M.
Pastore, Anthony J.
Peck, John S.
Peters, Nancy M.
Rettman, Kenneth F.

Rice, Dianne D.
Riley, Joseph F.
Scalleri, Mary S.
Serini, Ann G.
Sharib, George
Sianez, Yolanda G.
Sincuk, Joseph, Jr.
Smith, Clare F.
Taylor, Martha L.
Thibodeau, Donald S.
Tortolano, Antonio J.
Wilker, Bonnie A.