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Professor of Medicine (Infectious Diseases), Emeritus
Medicine - Infectious Diseases

CLINICAL OFFICE (PRIMARY)

- **Infectious Diseases at Beckman Center**

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Bio

CLINICAL FOCUS

- Infectious Disease
- Infectious Diseases

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Medicine - Infectious Diseases
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Residency: Massachusetts General Hospital (1978) MA
- Fellowship: University of Washington School of Medicine (1976) WA
- Residency: Massachusetts General Hospital (1974) MA
- Medical Education: University of Washington School of Medicine (1972) WA
- Internship: Massachusetts General Hospital (1973) MA
- Board Certification: Infectious Disease, American Board of Internal Medicine (1976)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1975)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Structure-function analysis of bacterial adhesion proteins and toxins; design and synthesis of synthetic antigens; immunobiology of human papillomaviruses

Publications

PUBLICATIONS

- **The competitive cost of antibiotic resistance in *Mycobacterium tuberculosis*** *SCIENCE*
Gagneux, S., Long, C. D., Small, P. M., Van, T., Schoolnik, G. K., Bohannan, B. J.
2006; 312 (5782): 1944-1946
- **Expression profiling of host pathogen interactions: How *Mycobacterium tuberculosis* and the macrophage adapt to one another** *MICROBES AND INFECTION*
Schnappinger, D., Schoolnik, G. K., Ehrh, S.
2006; 8 (4): 1132-1140
- **Identification and characterization of RbmA, a novel protein required for the development of rugose colony morphology and biofilm structure in *Vibrio cholerae*** *JOURNAL OF BACTERIOLOGY*
Fong, J. C., Karplus, K., SCHOOLNIK, G. K., Yildiz, F. H.
2006; 188 (3): 1049-1059
- **Evidence supporting predicted metabolic pathways for *Vibrio cholerae*: gene expression data and clinical tests** *NUCLEIC ACIDS RESEARCH*
Shi, J., Romero, P. R., Schoolnik, G. K., Spormann, A. M., Karp, P. D.
2006; 34 (8): 2438-2444
- **Chitin induces natural competence in *Vibrio cholerae*** *SCIENCE*
Meibom, K. L., Blokesch, M., Dolganov, N. A., Wu, C. Y., Schoolnik, G. K.
2005; 310 (5755): 1824-1827
- **Ancestral antibiotic resistance in *Mycobacterium tuberculosis*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Morris, R. P., Nguyen, L., Gatfield, J., Visconti, K., Nguyen, K., Schnappinger, D., Ehrh, S., Liu, Y., Heifets, L., Pieters, J., SCHOOLNIK, G., Thompson, C. J.
2005; 102 (34): 12200-12205
- **Molecular analysis of rugosity in a *Vibrio cholerae* O1 El Tor phase variant** *MOLECULAR MICROBIOLOGY*
Yildiz, F. H., Liu, X. S., Heydorn, A., SCHOOLNIK, G. K.
2004; 53 (2): 497-515
- **Phage offer a real alternative** *NATURE BIOTECHNOLOGY*
Schoolnik, G. K., Summers, W. C., D Watson, J.
2004; 22 (5): 505-506
- **The *Vibrio cholerae* chitin utilization program** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Meibom, K. L., Li, X. B., Nielsen, A. T., Wu, C. Y., Roseman, S., Schoolnik, G. K.
2004; 101 (8): 2524-2529
- **Regulation of the *Mycobacterium tuberculosis* PE/PPE genes** *TUBERCULOSIS*
Voskuil, M. I., Schnappinger, D., Rutherford, R., Liu, Y., SCHOOLNIK, G. K.
2004; 84 (3-4): 256-262
- ***Mycobacterium tuberculosis* gene expression during adaptation to stationary phase and low-oxygen dormancy** *TUBERCULOSIS*
Voskuil, M. I., Visconti, K. C., SCHOOLNIK, G. K.
2004; 84 (3-4): 218-227
- **Structural and topographical studies of the type IV bundle-forming pilus assembly complex of enteropathogenic *Escherichia coli*** *JOURNAL OF BACTERIOLOGY*
Hwang, J. W., Bieber, D., Ramer, S. W., Wu, C. Y., SCHOOLNIK, G. K.
2003; 185 (22): 6695-6701
- **MyD88 primes macrophages for full-scale activation by interferon-gamma yet mediates few responses to *Mycobacterium tuberculosis*** *JOURNAL OF EXPERIMENTAL MEDICINE*

- Shi, S. A., Nathan, C., Schnappinger, D., Drenkow, J., Fuortes, M., Block, E., Ding, A. H., Gingeras, T. R., SCHOOLNIK, G., Akira, S., Takeda, K., Ehrt, S.
2003; 198 (7): 987-997
- **Inhibition of HIV infectivity by a natural human isolate of *Lactobacillus jensenii* engineered to express functional two-domain CD4** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chang, T. L., Chang, C. H., Simpson, D. A., Xu, Q., Martin, P. K., Lagenaur, L. A., SCHOOLNIK, G. K., Ho, D. D., Hillier, S. L., Holodniy, M., Lewicki, J. A., Lee, P. P.
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 - **Transcriptional adaptation of *Mycobacterium tuberculosis* within macrophages: Insights into the phagosomal environment** *JOURNAL OF EXPERIMENTAL MEDICINE*
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2003; 198 (5): 693-704
 - **Inhibition of respiration by nitric oxide induces a *Mycobacterium tuberculosis* dormancy program** *JOURNAL OF EXPERIMENTAL MEDICINE*
Voskuil, M. I., Schnappinger, D., Visconti, K. C., Harrell, M. I., Dolganov, G. M., Sherman, D. R., Schoolnik, G. K.
2003; 198 (5): 705-713
 - **Rv3133c/dosR is a transcription factor that mediates the hypoxic response of *Mycobacterium tuberculosis*** *MOLECULAR MICROBIOLOGY*
Park, H. D., Guinn, K. M., Harrell, M. I., Liao, R., Voskuil, M. I., Tompa, M., SCHOOLNIK, G. K., Sherman, D. R.
2003; 48 (3): 833-843
 - **Global stage-specific gene regulation during the developmental cycle of *Chlamydia trachomatis*** *JOURNAL OF BACTERIOLOGY*
Nicholson, T. L., Olinger, L., Chong, K., SCHOOLNIK, G., Stephens, R. S.
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 - **Microarray expression profiling: capturing a genome-wide portrait of the transcriptome** *MOLECULAR MICROBIOLOGY*
Conway, T., SCHOOLNIK, G. K.
2003; 47 (4): 879-889
 - **The type IV pilus assembly complex: Biogenic interactions among the bundle-forming pilus proteins of enteropathogenic, *Escherichia coli*** *JOURNAL OF BACTERIOLOGY*
Ramer, S. W., Schoolnik, G. K., Wu, C. Y., Hwang, J. W., Schmidt, S. A., Bieber, D.
2002; 184 (13): 3457-3465
 - **Role of the extracytoplasmic-function sigma Factor sigma(H) in *Mycobacterium tuberculosis* global gene expression** *MOLECULAR MICROBIOLOGY*
Manganelli, R., Voskuil, M. I., SCHOOLNIK, G. K., Dubnau, E., Gomez, M., Smith, I.
2002; 45 (2): 365-374
 - **ideR, an essential gene in *Mycobacterium tuberculosis*: Role of IdeR in iron-dependent gene expression, iron metabolism, and oxidative stress response** *INFECTION AND IMMUNITY*
Rodriguez, G. M., Voskuil, M. I., Gold, B., SCHOOLNIK, G. K., Smith, I.
2002; 70 (7): 3371-3381
 - **Host-induced epidemic spread of the cholera bacterium** *NATURE*
Merrell, D. S., Butler, S. M., Qadri, F., Dolganov, N. A., Alam, A., Cohen, M. B., Calderwood, S. B., SCHOOLNIK, G. K., Camilli, A.
2002; 417 (6889): 642-645
 - **Functional and comparative genomics of pathogenic bacteria** *CURRENT OPINION IN MICROBIOLOGY*
Schoolnik, G. K.
2002; 5 (1): 20-26
 - **Microarray analysis of bacterial pathogenicity** *ADVANCES IN MICROBIAL PHYSIOLOGY, VOL 46*
Schoolnik, G. K.
2002; 46: 1-45
 - **Reprogramming of the macrophage transcriptome in response to interferon-gamma and *Mycobacterium tuberculosis*: Signaling roles of nitric oxide synthase-2 and phagocyte oxidase** *JOURNAL OF EXPERIMENTAL MEDICINE*

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- **Structure-function analysis of BfpB, a secretin-like protein encoded by the bundle-forming-pilus operon of enteropathogenic Escherichia coli** *JOURNAL OF BACTERIOLOGY*
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 - **The Mycobacterium tuberculosis ECF sigma factor sigma(E): role in global gene expression and survival in macrophages** *MOLECULAR MICROBIOLOGY*
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 - **Regulation of the Mycobacterium tuberculosis hypoxic response gene encoding alpha-crystallin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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 - **VpsR, a member of the response regulators of the two-component regulatory systems, is required for expression of vps biosynthesis genes and EPSETr-associated phenotypes in Vibrio cholerae O1 El Tor** *JOURNAL OF BACTERIOLOGY*
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 - **The accelerating convergence of genomics and microbiology.** *Genome biology*
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 - **Whole genome DNA microarray expression analysis of biofilm development by Vibrio cholerae O1 El Tor** *MICROBIAL GROWTH IN BIOFILMS, PT A*
SCHOOLNIK, G. K., Voskuil, M. I., Schnappinger, D., Yildiz, F. H., Meibom, K., Dolganov, N. A., Wilson, M. A., Chong, K. H.
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 - **DNA microarrays and combinatorial chemical libraries: tools for the drug discovery pipeline** *5th Annual Meeting of the North American Region of the International-Union-Against-Tuberculosis-and-Lung-Disease*
Barry, C. E., Wilson, M., LEE, R., SCHOOLNIK, G. K.
INT UNION AGAINST TUBERCULOSIS LUNG DISEASE (I U A T L D).2000: S189-S193
 - **Extracytoplasmic proteins of Mycobacterium tuberculosis - mature secreted proteins often start with aspartic acid and proline** *MICROBIOLOGY-SGM*
Wiker, H. G., Wilson, M. A., SCHOOLNIK, G. K.
2000; 146: 1525-1533
 - **The complete genome sequence of Vibrio cholerae: a tale of two chromosomes and of two lifestyles.** *Genome biology*
SCHOOLNIK, G. K., Yildiz, F. H.
2000; 1 (3): REVIEWS1016-?
 - **Exploring drug-induced alterations in gene expression in Mycobacterium tuberculosis by microarray hybridization** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wilson, W., DeRisi, J., Kristensen, H. H., Imboden, P., Rane, S., Brown, P. O., SCHOOLNIK, G. K.
1999; 96 (22): 12833-12838
 - **Complete DNA sequence and structural analysis of the enteropathogenic Escherichia coli adherence factor plasmid** *INFECTION AND IMMUNITY*
Tobe, T., Hayashi, T., Han, C. G., SCHOOLNIK, G. K., Ohtsubo, E., Sasakawa, C.
1999; 67 (10): 5455-5462
 - **A novel chromosomal locus of enteropathogenic Escherichia coli (EPEC), which encodes a bfpT-regulated chaperone-like protein, TrcA, involved in microcolony formation by EPEC** *MOLECULAR MICROBIOLOGY*
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- **Vibrio cholerae O1 El Tor: Identification of a gene cluster required for the rugose colony type, exopolysaccharide production, chlorine resistance, and biofilm formation**
Yildiz, F. H., Schoolnik, G. K.
NATL ACAD SCIENCES.1999: 4028-33
- **Type IV pili, transient bacterial aggregates, and virulence of enteropathogenic Escherichia coli** *SCIENCE*
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- **Construction and characterization of a partial Mycobacterium tuberculosis cDNA library of genes expressed at reduced oxygen tension** *GENE*
Imboden, P., SCHOOLNIK, G. K.
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- **Role of rpoS in stress survival and virulence of Vibrio cholerae** *JOURNAL OF BACTERIOLOGY*
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ROCK, E. P., Reich, K. A., Lyu, D. M., Hovi, M., Hardy, J., SCHOOLNIK, G. K., STOCKER, B. A., Stevens, V.
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- **Cloning and characterization of bfpTVW, genes required for the transcriptional activation of bfpA in enteropathogenic Escherichia coli** *MOLECULAR MICROBIOLOGY*
Tobe, T., SCHOOLNIK, G. K., SOHEL, I., Bustamante, V. H., Puente, J. L.
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- **Enteropathogenic Escherichia coli: Identification of a gene cluster coding for bundle-forming pilus morphogenesis** *JOURNAL OF BACTERIOLOGY*
SOHEL, I., Puente, J. L., Ramer, S. W., Bieber, D., Wu, C. Y., SCHOOLNIK, G. K.
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- **The bundle-forming pili of enteropathogenic Escherichia coli: Transcriptional regulation by environmental signals** *MOLECULAR MICROBIOLOGY*
Puente, J. L., Bieber, D., Ramer, S. W., Murray, W., SCHOOLNIK, G. K.
1996; 20 (1): 87-100
- **Halovibrin, secreted from the light organ symbiont Vibrio fischeri, is a member of a new class of ADP-ribosyltransferases** *JOURNAL OF BACTERIOLOGY*
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- **DELIVERY OF CLASS-I AND CLASS-II MHC-RESTRICTED T-CELL EPITOPES OF LISTERIOLYSIN OF LISTERIA-MONOCYTOGENES BY ATTENUATED SALMONELLA** *VACCINE*
Verma, N. K., Ziegler, H. K., Wilson, M., Khan, M., Safley, S., STOCKER, B. A., SCHOOLNIK, G. K.
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- **INDUCTION OF A CELLULAR IMMUNE-RESPONSE TO A DEFINED T-CELL EPITOPE AS AN INSERT IN THE FLAGELLIN OF A LIVE VACCINE STRAIN OF SALMONELLA VACCINE**
Verma, N. K., Ziegler, H. K., STOCKER, B. A., SCHOOLNIK, G. K.
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- **TEMPORAL TRENDS AND TRANSMISSION PATTERNS DURING THE EMERGENCE OF MULTIDRUG-RESISTANT TUBERCULOSIS IN NEW-YORK-CITY - A MOLECULAR EPIDEMIOLOGIC ASSESSMENT** *JOURNAL OF INFECTIOUS DISEASES*
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- **FLAGELLAR SEROTYPES OF SALMONELLA-TYPHI IN INDONESIA - RELATIONSHIPS AMONG MOTILITY, INVASIVENESS, AND CLINICAL ILLNESS** *JOURNAL OF INFECTIOUS DISEASES*
Grossman, D. A., WITHAM, N. D., Burr, D. H., Lesmana, M., Rubin, F. A., SCHOOLNIK, G. K., Parsonnet, J.
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- **VARIABILITY OF HUMAN PAPILOMAVIRUS DNA TESTING IN A LONGITUDINAL COHORT OF YOUNG-WOMEN** *OBSTETRICS AND GYNECOLOGY*
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- **CLONING AND CHARACTERIZATION OF THE BUNDLE-FORMING PILIN GENE OF ENTEROPATHOGENIC ESCHERICHIA-COLI AND ITS DISTRIBUTION IN SALMONELLA SEROTYPES** *MOLECULAR MICROBIOLOGY*
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- **MONOPHASIC AND BIPHASIC SALMONELLA-TYPHI - GENETIC HOMOGENEITY AND DISTINGUISHING CHARACTERISTICS** *MOLECULAR MICROBIOLOGY*
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