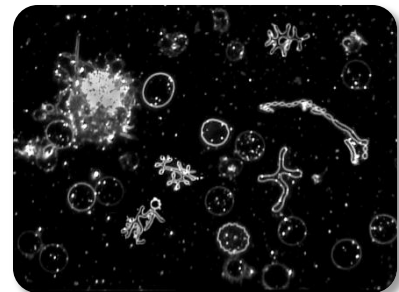
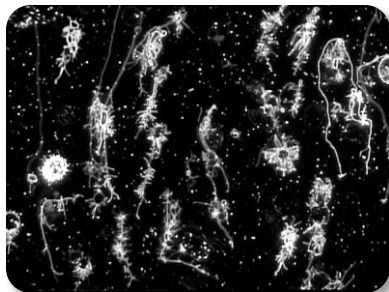
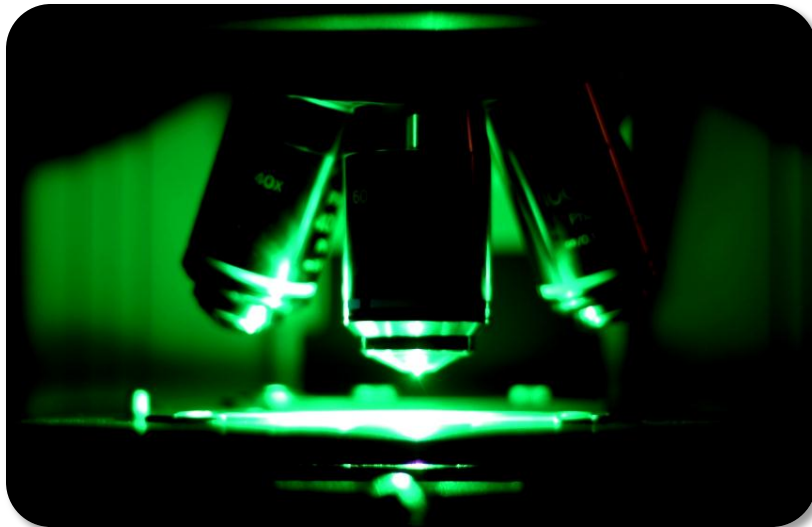
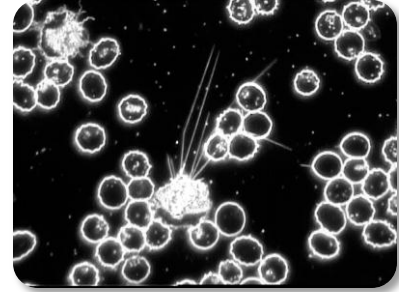
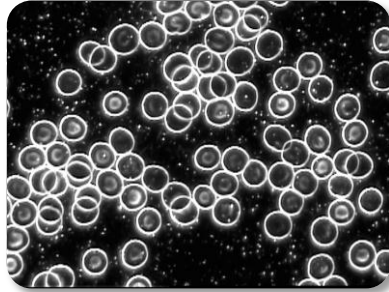


THE DIAD PLEOSCOPE™

*A Research Quality Digital Imaging System for
Darkfield Live Blood Analysis and DIAD Microscopy™*

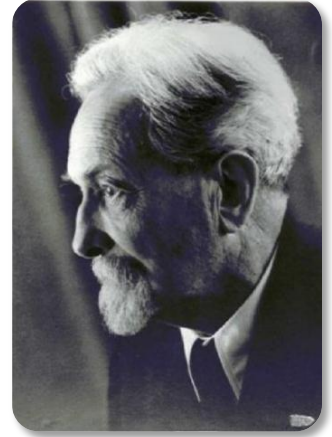


ECOBOTICS RESEARCH GROUP

DIAD PleoScope: Seeing Beyond the Boundaries of Traditional Live Blood Analysis with the DIAD PleoScope™ and DIAD Microscopy™

The sight of living blood through the darkfield microscope typically inspires awe and excitement. Looking at your own blood, living, moving and changing before your eyes, can be an inspiring and powerful experience. The ability to actually see the effects of healing therapies will frequently move individuals to renew their efforts to improve their health and to adhere to therapeutic protocols. It also provides a unique teaching opportunity that enables practitioners to fully engage their patients in the therapeutic process.

By the 1920s, a small group of visionary biologists, including Prof. Enderlein pictured to the right, had already developed penetrating insights into human health based on the microscopic structure and pleomorphic transformations observable in living blood. The field often referred to as German Biological Medicine arose from these early researchers and led to the discovery of highly effective isopathic and biological medications.



In recent decades, however, molecular, cellular, genetic and evolutionary biology have progressed to the point where the early theories proposed to explain live blood analysis must be completely updated to continue to serve health practitioners. Enderlein's original theoretical framework, while empirically valid, no longer adequately explains the remarkable world seen through the darkfield microscope.



Almost 20 years ago, biophysicist Stuart Greene created a new theoretical foundation to help explain biological medicine and the subtle transformations seen through the microscope. From this new theoretical perspective, called EcoBiotics™, he developed an extremely precise methodology – an advanced discipline of darkfield blood research called DIAD Microscopy™.

DIAD, which stands for *Differential Isopathic Assessment in Darkfield*, works by adding solutions called *DIAD Developers* to multiple specimens of vital blood, systematically revealing previously hidden roots of many chronic health challenges. This precise information can be translated directly into therapeutic protocols uniquely targeted to the individual.

The DIAD PleoScope™ combines a research grade darkfield microscope with high-resolution digital image display and capture and all the unique elements of DIAD Microscopy, from professional training and documentation to the special solutions required for DIAD analysis.

The DIAD PleoScope is designed to be the most cost effective, high-quality darkfield instrument on the market. The complete system not only includes a top quality darkfield microscope, superb optics and a full complement of DIAD supplies and accessories, it also comes with a dedicated, high resolution digital video computer system for real-time display, capture, storage and review of microscope images and videos. The system has recently been upgraded to include an advanced, solid state LED illuminator providing the visual equivalent of over 500 Watts (compared with traditional halogen sources) for unprecedented brilliance and clarity.

DIAD PleoScope System Overview

General Features

Research grade microscope system, trinocular head with video port, inverted quintuple nosepiece
Built to meet rigorous ISO 9001 international quality control standards
Solid metal frame with stain resistant enamel finish - all metal mechanical components
Magnification range 20x to 1000x with 10x eyepieces and 32x to 1600x with included 16x eyepieces
Plan objectives: 2x, 10x, 40x (spring loaded)
Oil immersion Plan objectives with internal iris for darkfield: 50x and 100x (both spring loaded)
Stage limiter to protect slides from accidental damage
Quintuple reverse nosepiece provides rapid switching among 5 objective lenses

Illumination

Advanced, solid-state LED illuminator equivalent to approximately 500W halogen for darkfield
The higher color temperature of this illuminator (6000°K vs. 3200°K) also greatly improves sharpness
Brilliant 30W internal Koehler halogen illuminator with variable brightness for brightfield or optional phase contrast observation (optional upgrade to 50W for enhanced brightfield or phase contrast)
Brightfield and darkfield capabilities are standard – phase contrast available as an upgrade

Trinocular Head and Video System

Trinocular microscope head for comfortable binocular viewing with widefield 10x and 16x oculars
Video port with super high-resolution video camera for quality image display and capture
Head swivels 360° for maximum versatility with 30° ocular incline
Interpupillary adjustment rapidly changes to accommodate individual preference
Diopter adjustment to correct for individual eyesight

Core Optics

High quality, low magnification plan objectives (2x, 10x) for dry blood analysis and widefield scanning
Exceptional quality plan 40x dry objective for precision DIAD darkfield imaging
Superb 50x and 100x oil immersion objectives with internal iris for high magnification viewing

Stage and Condenser System

Double layer mechanical stage with stain resistant finish
Comfortable, low position coaxial stage movement control (specify left-hand operation if desired)
Coarse & fine focusing with variable tension control
Rack and pinion sub-stage condenser adjustment
Efficient, high quality oil immersion darkfield condenser (NA 1.25-1.33)

Computer System Features

Fully integrated Windows 7 laptop computer system including (minimum specifications):

- At least 2GB RAM standard, expandable to at least 8GB
- At least 500GB primary disk drive
- At least 15" LCD screen
- DVD-RW optical disk drive for digital image and video storage (Blu-Ray optional)
- Real-time digital video display on full screen or in a resizable window
- Instant real-time digital still image and video capture
- All software comes pre-installed and tested

Computer Software Features

Microsoft Windows 8 Operating System

Integrated digital image and video capture software

Complete EcoBiotics/DIAD forms/practice management package

Optional: Full Microsoft Office Suite, Adobe Photoshop or Photoshop Elements, video editing, conversion, DVD mastering and other software packages as requested. Inquire about cost.

Standard Accessories – Included with all systems

The DIAD PleoScope comes complete with all the equipment and supplies needed to immediately begin applying the principles of DIAD Microscopy, including:

DIAD compliant SuperFrost microscope slides (2 boxes – 1 gross total)

DIAD compliant microscope coverslips (2 ounces)

DIAD Developer “Live Stain” Set, including 8 major DIAD Developers™ in syringes with case

Extended 12-developer set available at additional cost

Sharpie ultrafine point slide markers

Automatic, self-contained sterile, disposable lancets

Kimwipe low lint cleaning cloths (box of 260)

Immersion oil types A (for 50x and 100x objectives) and B (for darkfield condenser) in dropper bottles

Optional Accessories and Upgrades

Many optical and computer options are available including:

Phase contrast condenser and objectives

HD video advanced recording capability with better-than-broadcast capability

High resolution still image capture with real-time streaming to video display

Advanced image and video editing software and other computer capabilities

DIAD PleoScope Pricing

Pricing: DIAD PleoScope, complete \$12,995 including shipping in the US or Canada. International orders: Shipping and insurance will be calculated FOB Portland, OR and a \$100 credit will be applied. The balance of shipping charges will be added to the purchase price. All additional taxes, duties and other fees are responsibility of purchaser. Credit cards and PayPal are accepted with a 3.0% surcharge on the total amount for domestic orders. Surcharge for international orders varies.

Deposit: 50% of pre-discount system price. Balance due prior to shipping.

Shipping: Typically 30 days from time deposit is received. Each system is individually constructed, integrated and tested before shipping to ensure optimal performance and compatibility.

Note: Each system is custom-crafted and individually integrated before shipping. DIAD PleoScope systems are not returnable or refundable once ordered. Parts covered by the *EcoBiotics Research Group* (microscope and optics) that do not function properly will be repaired or replaced within the 3 year warranty period. Other components are warranted by their manufacturer (computer, illuminator, etc.)

Optional configuration information

Please request left handed stage controls, if desired, when placing your order. Otherwise, standard right-handed controls will be used.

International orders: Because of high shipping costs and warranty considerations, no computer is supplied and a \$500 credit will be given for orders delivered outside the U.S. and EcoBiotics Research will support you to properly configure a computer for video capture. All other video components, including the computer interface, will be supplied. Specify power requirements when ordering to ensure compatibility. For standard 220v operation, there is no additional charge.

For systems in the U.S., a current technology 15" laptop computer with an external USB real-time video capture device is provided. Desktop configurations are available and may involve extra cost, depending upon the features selected. You may order an additional external USB video capture device for \$175. This will allow you to attach the video camera directly to the laptop computer and easily switch the microscope to a second device such as a home computer, if desired.

Phase contrast imaging can be added for \$2250 including Zernike condenser, centering telescope, matched, high-quality Plan 10x 20x, 40x and 100x phase contrast objectives, green interference filter for enhanced image quality and other accessories. A lower cost option excludes the 10x and 20x objectives, which are less useful for live blood observation. Call for pricing.

If you plan to use brightfield and/or phase contrast imaging, you may wish to upgrade the internal halogen illuminator from 30W to 50W for \$350. *This is not required for darkfield observation* which uses an advanced, ultra high power external LED illuminator, included with the system.

Other objectives are available, such as a 20x plan for intermediate magnification field scanning.

1080p High-Definition video plus 8MB still frame capture can be added for \$2250. This is an additional, research-grade imaging accessory that is used in place of the standard video camera and software. The system records in stunning high-definition 1080p video for later playback but does not display on the computer screen during recording – real-time image preview is confined to the HD recorder's built-in screen. The camera features an internal 32GB solid state drive for nearly 3 hours of video at better-than-broadcast image quality and more than 12 hours at very fine HD quality. An additional, removable memory card is included to increase the recording time and allow easy transport of videos and images between systems.

This option is ideal to record high-quality video and still images for research, publication or later review. Because it only displays on its built-in 3.5" screen during preview and recording and not on a large video monitor, it is not as suitable for interacting with subjects as the standard video camera and digital capture. However, it can play back recorded videos clips and images on any size screen and can be swapped on and off the microscope in a matter of seconds.

Many other microscope, computer and software options and additional supplies are available upon request. See the attached order form or email for additional details. EcoBiotics Research Group, Portland, Oregon, USA info@ecobiotics.com.

Additional Information

Training **EcoBiotics Research offers 3 levels of DIAD Microscopy training at our home office in Portland, OR. With the fully paid purchase of a complete DIAD PleoScope system, you may attend 4-day Level I training at no cost — your \$1295 tuition is included or receive 2 days of personal training at a mutually convenient time.**

EcoBiotics Research offers a full series of professional training seminars in DIAD Microscopy, EcoBiotic Science, Biological Medicine, Bioenergetic Theory and Practice and advanced manual therapies. Please contact us for details.

Trainings, including advanced DIAD seminars and other workshops, can be produced at your site with a minimum of 6 participants. Cost includes tuition plus expenses and can be negotiated based on time, location, production requirements and logistics.

Warranty The optical and mechanical components of the DIAD PleoScope are warranted to be free of defects in materials and workmanship for three (3) years from the date of purchase. Normal wear or damage resulting from abuse, accident, alteration, misuse, service by an unauthorized party or shipping damages are excluded from warranty coverage.

Computer hardware, software, integration, microscope illuminator and video components are covered by their respective manufacturers' warranties. The DIAD PleoScope computer system is guaranteed to work properly, as provided, for microscope image display, capture and storage. Modifications to the software or system configuration provided may cause conflicts and cannot subsequently be guaranteed.

Installation Set-up of the DIAD PleoScope is simple and straightforward. In addition to written directions, purchasers are entitled to up to 2 hours of free telephone/online assistance to assemble and test the system and receive advice on sample preparation and image capture.

EcoBiotics Research is responsible for ensuring that the video connection between the DIAD PleoScope and the computer is working properly and that you are informed about how to use the elements of the computer system that are specific to this application (e.g. DIAD video display and capture).

EcoBiotics Research is not responsible for general computer skills training or training in the operation of other software such as Microsoft Windows, Microsoft Word, Internet browsers, mail programs or graphics editing products that the purchaser may choose to install.

Contact EcoBiotics Research Group
Portland, OR
info@ecobiotics.com



DIAD PleoScope™ Order Form

EcoBiotics Research Group
Portland, Oregon USA

www.ecobiotics.com • info@ecobiotics.com

Order Date: _____ Phone number: _____ Email: _____

BILL TO		SHIP TO	

<input checked="" type="checkbox"/>	QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
<input type="checkbox"/>		DIAD PleoScope™ EcoBiotics Research System including computer and supplies	\$12,995.00	
<input type="checkbox"/>		OPTION: Left-handed stage controls (must specify at time of ordering, if desired)	\$0.00	
<input type="checkbox"/>		OPTION: 220V International operations (must specify at time of ordering, if desired)	\$0.00	
<input type="checkbox"/>		OPTION: Desktop with USB video capture instead of laptop	TBD	
<input type="checkbox"/>		OPTION: No computer provided (all international orders)	-\$500.00	
<input type="checkbox"/>		Additional 20x/0.40 objective for closer darkfield scanning	\$275.00	
<input type="checkbox"/>		Pair of 20x FN 9 eyepieces for extreme magnification (10x & 16x are included)	\$180.00	
<input type="checkbox"/>		Upgrade internal illuminator from 30W to 50W for brightfield and/or phase contrast	\$350.00	
<input type="checkbox"/>		Phase contrast package (Zernike condenser, 10x, 20x, 40x, 100x plan objectives)	\$2250.00	
<input type="checkbox"/>		1080p high definition video/image capture system with solid state digital recording	\$2250.00	
<input type="checkbox"/>		18.0 megapixel still image capture	\$1850.00	
<input type="checkbox"/>		Add camera zoom lens for non-microscope photography	\$150.00	
<input type="checkbox"/>		Additional USB external video capture device (1 included with system)	\$175.00	
<input type="checkbox"/>		SuperFrost style 25mm x 75mm microscope slides, 72 per box (2 included)	\$18.00	
<input type="checkbox"/>		24mm x 50mm #1 glass coverslips (1 ounce) (2 included)	\$10.00	
<input type="checkbox"/>		DIAD Developer set in case (8 Developers, Approx. 1ml @ in syringe plus saline)	\$125.00	
<input type="checkbox"/>		DIAD Developer set in case (8 Developers, Approx. 0.5ml @ in syringe plus saline)	\$75.00	
<input type="checkbox"/>		DIAD Developer extended set in case (As above plus 4 developers, 1ml)	\$185.00	
<input type="checkbox"/>		DIAD Developer extended set in case (As above plus 4 developers, 0.5ml)	\$115.00	
<input type="checkbox"/>		Individual DIAD Developers, Approx. 1ml (specify)	\$20.00	
<input type="checkbox"/>		Individual DIAD Developers, Approx. 0.5ml (specify)	\$12.00	
<input type="checkbox"/>		Type A Microscope Immersion oil in dropper bottle (Approx. 1 ounce) for slides	\$15.00	
<input type="checkbox"/>		Type B Microscope Immersion oil in dropper bottle (Approx. 1 ounce) for condenser	\$15.00	
<input type="checkbox"/>				

EQUIPMENT TOTAL

OTHER CHARGES OR ADJUSTMENTS

DEPOSIT 50% OF TOTAL EXCLUSIVE OF ANY DISCOUNTS

BALANCE

Please make all checks payable to Stuart Greene or contact us for bank EFT information. Thanks.

A Brief Introduction to EcoBiotics and DIAD Microscopy

In the early part of the 20th Century, an eminent biologist by the name of Gunther Enderlein made an astonishing discovery. While studying the pathogenic typhus bacterium (*Salmonella typhi*) through a darkfield microscope, Enderlein watched as it fused with a tiny, undulating structure and suddenly, inexplicably vanished.

Over years of study and countless observations, Enderlein came to the conclusion that essentially all microbes can exist in many different morphological states, reorganizing their structure, functional biology and reproductive strategies in response to cues from their environment. Through rigorous study he discovered that with a few important exceptions, most microbial species are only pathogenic in one or perhaps two of their possible morphologies.

Enderlein organized his research into a body of work called Bacterial Cyclogeny (presented in 1925 in a publication of the same name) and discovered that within the ecological system of the body, certain specific factors give rise to natural regulators that prevent the emergence of pathogenic forms. These same factors can also reverse their development, degrading them into simpler, non-pathogenic elements that can be eliminated from the system.

From these discoveries, Enderlein and his contemporaries developed a unique approach to healing the body's internal terrain called isopathic and biological therapy – often referred to as German Biological therapy or simply the Enderlein remedies. Because the manufacture of these remedies was later contracted to a company called Sanum-Kehlbeck, they are also known as the Sanum remedies.

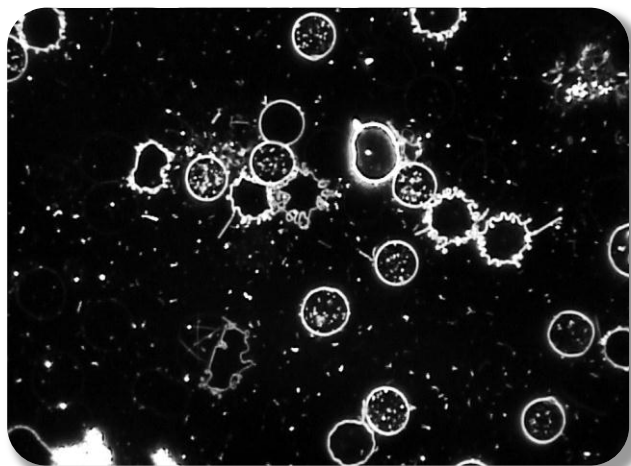
Unfortunately, Enderlein's brilliant work pre-dated the sea change in biological science that began in 1953 with the decoding of the structure and function of DNA and the subsequent rapid-fire advancement of molecular, cellular and genetic biology. Because Enderlein's explanations of the complex developmental phenomena he observed and learned to control could no longer be supported by newly emerging science, mainstream critics have largely discarded his incredible achievements and the rigorous empirical data on which they were based.

EcoBiotics™ is a radical new theory that begins with Enderlein's work and reinterprets it in the light of modern biological knowledge. It provides a theoretical basis and evolutionary explanation for the pleomorphic, "shape-shifting" behavior of bacteria and other microorganisms described by Enderlein and explains the effects of isopathic therapy in terms of scientifically recognized biological mechanisms.

DIAD Microscopy™ is an extension of traditional darkfield live blood analysis based on the theoretical foundation of EcoBiotics. Instead of simply looking at live blood for clues about the biological terrain, a DIAD screening involves preparing multiple samples of capillary blood and mixing each sample with a "living stain" called a DIAD Developer™ because it acts in a manner analogous to a photographic developer solution.

When we take a photo, the film holds a physical energy imprint of the image which remains invisible until the film is placed in a chemical developer. Similarly, the blood and other body fluids hold invisible information imprints related to microbial and immunological factors within an individual's unique internal ecological terrain. Adding a DIAD developer to the blood causes latent forms to develop – literally linking previously hidden biological information structures into forms which quickly become apparent under the microscope. By making several slides in which the blood is mixed with different DIAD Developers, it becomes possible to discern which biological patterns are involved and therefore which biological remedies are likely to be most effective. In the same way, the effects of therapy can be tracked and adjusted.

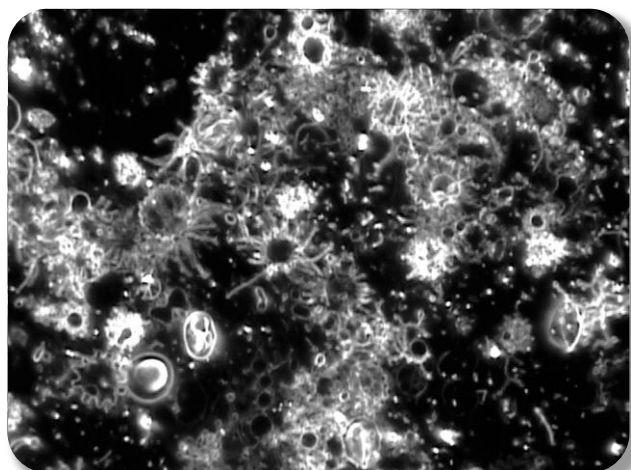
The following images, digitally captured with the DIAD PleoScope, show how the same person's blood can develop different marker structures in reaction to different DIAD Developer challenges.



This first DIAD image shows a control sample of plain blood – one that has not been mixed with any of the dozen available DIAD Developers.

The blood was then allowed to remain on the slide, sealed under the coverslip, for about 12 hours in order to reveal normal processes of degeneration.

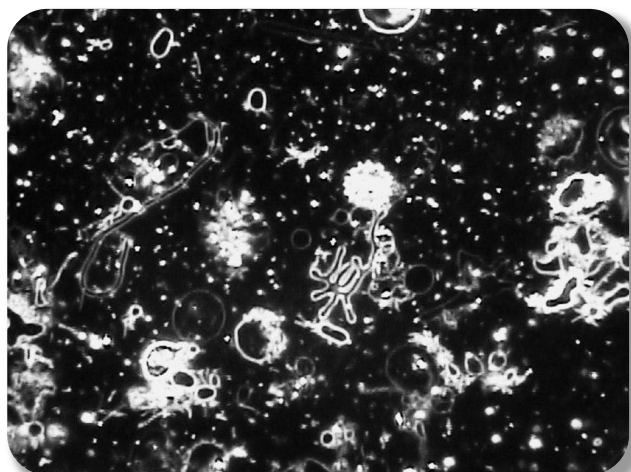
Note that the blood elements, although breaking down, do not show any significant level of morphological reorganization. DIAD Microscopy works by comparing forms that emerge in the blood in response to DIAD Developer challenges to those forms that naturally emerge in unchallenged blood. Most significant shifts are accelerated with the addition of a DIAD Developer and tend to manifest within a short period of time – sometimes in as little as a few seconds.



This second DIAD image shows the same person's blood after it has been mixed with one of the DIAD Developers.

After a fairly short period of time, the interaction between previously invisible elements in the blood and the developer gives rise to highly organized forms. In this case, we can see that numerous red blood corpuscles have developed complex projecting filaments and membrane-enclosed tubules.

By observing which DIAD developers trigger organized responses in the blood and then analyzing the specific nature of the responses, we can develop precise clinical insights and tailor biological therapy for the individual's specific condition.



In this last sample, the same person's blood has been mixed with a different DIAD developer which, in turn, presents a thoroughly different picture.

In this case, although the apparent *quantity* of the reaction is smaller than in the previous sample, the morphological *complexity* of the forms produced is much higher, including the branching tubular structure near the center of the field, or the long, curving single tubule near the left side of the blood field.

In general, the degree of disturbance of the EcoBiotic Terrain or internal milieu is indicated by the Reactivity, Complexity And Progression (ReCAP for short) of the forms that emerge in the blood in response to challenge from a DIAD Developer. The clinical result is a package of actionable therapeutic information that helps to structure precise treatment.
